A L T A
WINDOW FASHIONS

ECLIPSE
SHUTTERS

Effective February 3, 2020 (Revised 6/25/20)

design simplified™

A L T A
WINDOW FASHIONS

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Pricing

Eclipse Shutter by Custom Brands Group are priced by THE SQUARE FOOT.

1. Inside Mounts – using window size determine width+height.

Outside Mounts – add frame allowances of selected frame style.

2. Calculate SQ. FT. to determine base price.
   A) Roundup both width & height of the ordered size to nearest inch.
      (Example: 34 1/4" x 38 1/2" window opening will be priced at 35" x 39")
      Multiply rounded width x height from the above to get total square inches.
   B) Take total square inches divided by 144 to get total square feet.
   C) Minimum charge: 6 square feet
   D) Multiply square feet by price per square feet

See below for calculation examples.

Example 1 (ordered size: 36 1/8" x 59 1/2") and using $15/sq.ft. as the sq.ft. price

   A) Roundup width and height to nearest inch and multiply width and height:
      37" x 60" = 2,220 square inches
   B) 2,220 ÷ 144 = 15.42 square feet
   C) 15.42 square feet > 6 square feet
   D) 15.42 square feet x $15.00 = $231.30

   $231.30 will be the base price, add surcharges that may apply.

Example 2 (ordered size: 22 7/8" x 28") and using $15/sq.ft. as the sq.ft. price

   A) Roundup width and height to nearest inch and multiply width and height: 23" x 28" = 644 square inches
   B) 644 ÷ 144 = 4.47 square feet
   C) 4.47 square feet < 6 square feet
   D) 6 square feet x $15.00 = $90.

   $90 will be the base price, add surcharges that may apply.

3. Add Surcharges that may apply:

UltraClearview ....add 5% to base price
UltraClose Gear System ....add 15% to base price
Casing Frame ....add $1 (per square ft.)
Bi-Fold...add $22.50 (per linear ft.)
Closed Louver By-Pass with or without stackback ....add $22.50 (per linear ft.)
Open Louver By-Pass with or without stackbackₖ.........................add $41.50 (per linear ft.)
Triple By-Pass Track System with or without stackback ....add $41.50 (per linear ft.)
5" Deluxe Valance..add $8 (per linear ft.)
By-Pass or Bi-Fold Track – 1 extension ....add $30 (per window) NET
By-Pass or Bi-Fold Track – 2 or 3 extensions ....add $50 (per window) NET
Double Hung ....add $40 (per window) NET
Café Style..add $30 (per window) NET
Build Out..add $30 (per window) NET
1/4", 1/2", 3/4", 1" mounting strip...add $10 (per side)
L Frame Cover Strips ....add $10 (per 16' roll) NET
French Door Cut Outs ....add $150 (per cut out) NET
Specialty Shapes..add $10 (per linear inch) width or height which ever is the largest
Stainless steel hinges...add $5 (per panel)

* Above surcharges should be added to the base price when option is ordered with each shutter. These are not the extra lineal material pricing.

4. Shipping:
   Please see General Information for freight and shipping charge information.

SELLING

Features & Benefits

Traditional Look
The look and quality your customers demand but at the cost and durability of Polyresin 3®.

Low Maintenance
The Polyresin 3® Eclipse® Shutter is easy to clean with just soap and water.

Environmentally Friendly
Eclipse® Shutters do not destroy our forests. All scrap is recycled.

Made from Polyresin 3®
A colorfast compound with UV stabilizers designed with strength and durability, yet retaining a special warmth and feel. Shutters will not warp, shrink, chip, peel, or fade and never need painting.

Fire Retardant
Polyresin 3® is fire retardant and self-extinguishing. It is safe to use in residential and commercial applications. Meets (NFPA701) National Fire Code Standards.

Waterproof
Ideally suited for use above kitchen sinks, bathrooms or other high humidity areas. Eclipse® Shutters have no unsightly staples which may rust, and will not warp or crack due to water exposure.

Additional Insulator
An R-value of 3.40 helps to reduce heating and air costs and outside noise. Closing the louvers upward can help keep heat in the home and provide more privacy.

Modern Manufacturing
Custom crafted in state-of-the-art computerized production facilities that meet today's demanding quality standards.

Colors
Cotton, Pearl and Vanilla

Best for Kids™ Certified
This third party certification program specifies criteria to identify window covering products that are best suited for use in homes or in facilities in which young children are expected to be present.

ECLIPSE®
S H U T T E R S

Elliptical Louver Sizes
2 1/2″, 3 1/2″, and 4 1/2″

Tilt Bar
Provides the time honored look associated with shutters. Louvers can be opened or closed in both directions, unlike other shutters which are one-directional only. Our unique connector system has eliminated unsightly staples which tend to rust or break.

Rear Tilt System
A hidden tilt system located on the rear of each panel. Rear Tilt is attached to the hinge side of the louvers, resulting in a clean, contemporary look.

Pantented Gear System
This is the ultimate in hidden gear systems. Gear is completely enclosed within shutter stile and provides a smooth, easy louver operation.

Patented Seamless Louver Caps
Innovative seamless capping technology eliminates the seam between the louver body and the end cap, for a sleek and modern look.

Panel Lock with Roller
This unique system eliminates the use of magnets. When panels are closed, a spring-loaded plunger with roller acts as a ball catch to hold the panels in the closed position.

Frame Grooves
The spring loaded roller of the panel lock locates the integrated groove in all frames. Eliminates the need for magnets and catch plates.

Exclusive Deluxe Divider Rail
The unique design of this rail integrates a handle which provides a clean and easy method of opening shutters. Offered as an option to the existing regular divider rail, the deluxe divider rail is the ultimate in functionality, design, and elegance.

Snap and Hold Corner Key and Notched Frames
Our snap and hold corner key and notched frames were developed to eliminate the use of glue and provide a clean, quick and easy installation. All frames, excluding L-Frame outside mount, with a 45-degree miter are notched to accept this corner key.

Aluminum Jamb Inserts
Provides a hidden reinforcement for patio door shutters and larger shutter panels.

French Door Cutouts
Our French Door Cutout is ideal for adding shutters to French doors. The Cutout is designed to work with standard round door handles and lever handles. Available with all louver sizes.

Pre-drilled Frames
Pre-drilled installation holes are strategically placed on all frames for accurate, quick, and clean installation.

Factory Installed Two Part Hinge System
Quick and easy to install. Allows panels to be removed easily for cleaning. Panels open fully for total access to the windows.

Light Block and Interlock
Exclusive to Eclipse® Shutters, they provide an insulating seal and cover unwanted light gaps between panels.

Adjustable Jamb Cap
If adjustments are required, the screw located on the bottom of each panel can be threaded in or out of the cap accordingly. Thread into the panel until the screw is virtually invisible when adjustments are not needed. (Available only with magnet applications)

Permanent UltraSatin™ Finish
Our Polyresin 3® compound features a permanent finish resistant to dents and scratches. Should a scratch occur, it can be removed without harming the finish.

Warranty
Eclipse® Shutters are backed with a 25 Year Warranty.

About the GREENGUARD® Environmental Institute

The GREENGUARD Environmental Institute (GEI) is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program. As an ANSI Authorized Standards Developer, GEI establishes acceptable indoor air standards for indoor products, environments, and buildings. GEI's mission is to improve public health and quality of life through programs that improve indoor air. A GEI Advisory Board consisting of independent volunteers, who are renowned experts in the areas of indoor air quality, public and environmental health, building design and construction, and public policy, provides guidance and leadership to GEI.

About GREENGUARD® Certification

Product certification program for low emitting interior building materials, furnishings, and finish systems. All GREENGUARD Certified Products have been tested for their chemical emissions performance and can be found in the GREENGUARD Online Product Guide.

About GREENGUARD® Gold (for Children & Schools Certification)

A product certification program for low-emitting interior building materials, furnishings, and finish systems used in educational, office and other sensitive environments. All GREENGUARD Gold products have been tested for their chemical emissions performance according to CA 01350 and can be found in the GREENGUARD Online Product Guide.

GREENGUARD Gold program's minimum requirements comply with the State of California's Department of Health Services Standard Practice (CA Section 01350) for testing chemical emissions from building products used in schools, offices and other sensitive environments. As such, GREENGUARD Gold products can be used as a strategy to earn valuable credits in the CHPS Best Practices Manual for K-12 schools, U.S. Green Building Council's LEED® Green Building Rating System, Green Guide for Healthcare™, NAHB Green Building Guidelines, Green Globes, Regreen and numerous other local green building codes.

Children are more heavily exposed to environmental toxins than adults; as a result their exposure levels are the basis for sensitive environments. They consume more food, water, and have higher inhalation rates per pound of body weight than adults. To account for inhalation exposure to young children with greater sensitivities, a body burden correction factor of 0.43 has been applied to current allowable emission levels from indoor materials and furnishings.

Emission controls are established to define low-emitting materials for environments where people spend extended periods of time and have children and sensitive adults in residence. These may include schools, daycares, healthcare facilities and residential and commercial spaces.

See the following page for the Greenguard Certificates for Eclipse Shutters. For more information about Greenguard, please visit their website at **www.greenguard.org.**

Eclipse® Shutters and GREENGUARD®

Eclipse Shutters has been tested and vertified for both GREENGUARD Indoor Air Quality and GREENGUARD Gold. See page A5 for the GREENGUARD Gold Certificate issued to Eclipse Shutters. In addition, GREENGUARD has listed Eclipse Shutters on their website as being resistant to the growth of mold. For more information about GREENGUARD, please visit their website at www.greenguard.org.

ECLIPSE®
SHUTTERS

CERTIFICATE
OF COMPLIANCE

Eclipse Shutters

Eclipse Shutters

GREENGUARD
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

4366-420
Certificate Number

11/16/2007 - 11/16/2020
Certificate Period

Certified
Status

UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Window treatments are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office and Classroom Environment.

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.

CERTIFICATE
OF COMPLIANCE

Eclipse Shutters

Eclipse Shutters

GREENGUARD
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

4366-410
Certificate Number

11/16/2007 - 11/16/2020
Certificate Period

Certified
Status

UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Window treatments are determined compliant in accordance with an Office environment with an air change of 0.68 hr⁻¹ and a loading of 1.49 m².

Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.

ECLIPSE®
SHUTTERS A5

25-YEAR WARRANTY

Warranty on Shutter Frame and Shutter Panel

Shutters are warranted against such defects in material that might result in blistering, peeling, flaking, corroding, and fading of the shutter frame or panel members for a period of twenty-five (25) years from the date of installation.

This Warranty on the Polyresin3® frame and Polyresin3® panels shall remain in effect only if normal cleaning practices are followed periodically (see section "Maintenance and Cleaning").

5 Year Warranty on Hardware

Eclipse® warrants that the hardware will remain in good operational condition for a period of five (5) years from the date of installation.

General Conditions

This Warranty must be validated by having the Registration Certificate completed by the installer and the original purchaser and received by Eclipse® Shutters no later than thirty (30) days after the completed installation. This will ensure the property owner is entitled to this 25 Year Warranty.

The Warranty stipulated in this document is the only warranty applicable to Eclipse® Shutters and is granted in lieu of any warranties otherwise implied by law or equity and no such warranties shall apply to Eclipse® Shutters 25 Year Warranty.

1. Product Use

This Warranty applies only in respect to products used strictly for the purpose for which they were intended. Eclipse Shutters are intended for internal use only.

2. Warranty Limitations

Eclipse® Shutters liability is limited solely and exclusively to repair or replacement, at the option of Eclipse® and under no circumstances will Eclipse® be liable for incidental or consequential charges such as, but not limited to, labor costs for any purpose, inconvenience, damage or injury to persons or to property, or any other expense.

3. Replacement Parts or Repairs

Eclipse® reserves the right to discontinue or change any Eclipse® shutter as currently manufactured. If an exact replacement part is not available, Eclipse® reserves the right to substitute parts of equal quality at its sole option.

Exclusions from Warranty Coverage

The following are excluded from coverage under this Warranty:

a. Exposure to air pollutants and normal atmospheric conditions may cause all Polyresin3® surfaces to gradually suffer an accumulation of surface dirt or stains. These are normal occurrences and are not covered under the Eclipse® Warranty.

b. Any defect, malfunction, or failure to perform which has occurred because of unreasonable use, improper application, or failure to perform reasonable or necessary maintenance.

c. Any damage to the shutters or components of the shutters caused by settlement or structural defects of the building in which they are installed.

d. Any damage caused by wind, hail, lightning, or other acts of God, intentional acts, accidents, negligence, or exposure to harmful chemicals or pollutants.

e. Damage caused by improper handling or installation.

f. Any shutter which has been repaired or modified or attempted to have been repaired or modified by any person other than a duly authorized representative of Eclipse® Shutters.

g. Shutters are light controlling but not black out.

h. Shutters made without divider rails, too wide, too high, or over the maximum square footage are not warranted.

Effective Date of Warranty

This Warranty will take effect from the date the installation of the shutters has been completed at the premises identified in the warranty certificate. The registration certificate must be submitted to Eclipse® no later than thirty (30) days from the date of installation.

Maintenance and Cleaning

Polyresin3® materials are closer to "maintenance free" than any other building material. However, surfaces may become dirty. Normal maintenance requires washing with mild soap and water using a soft cloth. For difficult to remove dirt and stains, water-based household cleaners can be used. Chlorine-based cleaners or other cleaners containing organic solvents could affect the surface appearance and durability of the product.

Procedure and Conditions of Warranty Remedy

Repairs are done at the Eclipse® plant. Shutters must be brought to Eclipse® or an Eclipse® fabricator.

Eclipse® will not be responsible for any costs incurred in transporting shutters to and from the Eclipse™ plant.

In the event that the Eclipse® obligation under this Warranty is sought, the Owner must notify the Dealer/ Distributor in writing within thirty (30) days after the defect has first appeared. Such notification must contain the following:

a. Name and address of the Owner.

b. Date of installation.

c. A brief description of the defect.

Upon receipt of this information, the Dealer/Distributor will notify the Owner of his share of prorated costs (where such is applicable), in accordance with the Proration Schedule.

The Dealer/Distributor will provide repair or replacement parts to the owner only upon receipt of payment of the Owner's share of the prorated costs.

PLEASE REGISTER YOUR WARRANTY ONLINE:

www.eclipseshutters.com/register-warranty

Shutter Panel Parts

Molded and/or Aluminum Jamb Inserts for added support and strength.

Vertical Jamb (Stile) Cap

Vertical Jamb (Stile)

Top Rail

Tilt Bar Cap

Louver

Tilt Bar

Tilt Bar Connectors

Divider Rail

Tilt Bar Attached

Hinge

Bottom Rail

Interlock

Panel Lock Jamb Cap

A8

Elliptical Louver

Rear Tilt Connector

Louver End Cap

Rear Tilt Bar

Rear Tilt is located on back of panel on the hinge side. Rear Tilt adds an additional projection to the back of the louvers.

Aluminum Inserts for Louvers add strength when required

Gear assembly is located inside the vertical jamb, providing a clean, contemporary look.

ECLIPSE®
SHUTTERS   A9

2 1/2"

3 1/2"

4 1/2"

2 1/2" Louver
Reinforcement added at 20"

3 1/2" Louver
Reinforcement added at 19"
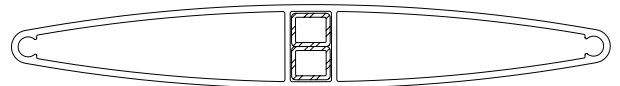
4 1/2" Louver
Reinforcement added at 22"

Divider Rail Sizes

Used to divide top louvers from bottom louvers within the same panel

Regular

Deluxe

Divider Rail

2 5/8"
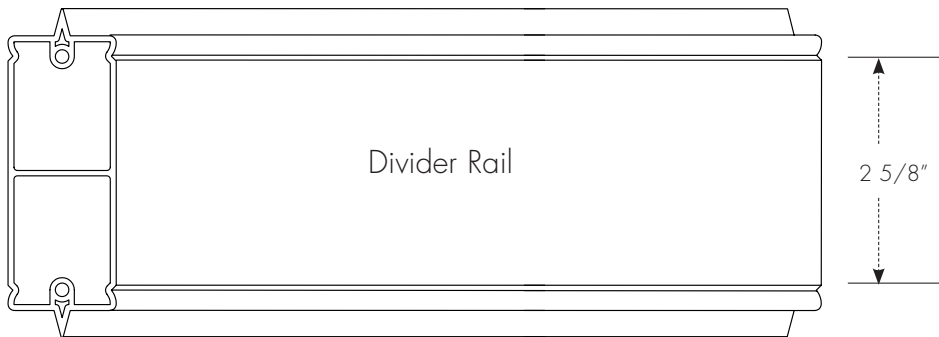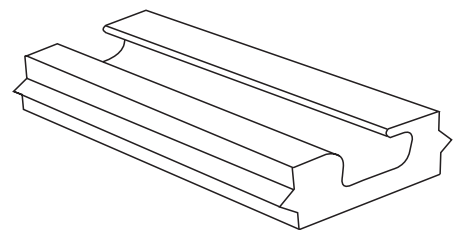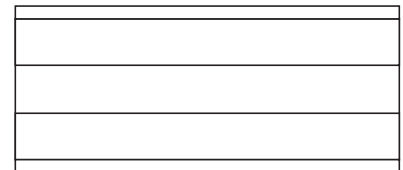
Note: *Divider rail must be used on panels 66" and longer. Two Divider Rails must be used on panels 96" and longer, with less than 66" between rails.*

The exclusive Deluxe Divider Rail provides a clean and easy method of opening shutters. This Deluxe Divider Rail with the built-in handle is an option to the regular divider rail.

A10 ECLIPSE®
SHUTTERS

Bullnose Z Frame with Flex
(BZ Frame) & Sill

Used for inside mounts in openings with drywall returns and without trim and includes a 3/8" standard IM deduction. May be ordered with Sill Frame at bottom for openings with a window sill. Because the extended leg has been removed, the bottom frame will sit flat on window sill. The Sill Frame will be positioned at the bottom unless otherwise specified

Deluxe Trim Frame
(D Frame) & Sill

Used for inside mounts in openings with drywall returns and without trim and includes a 1/4" standard IM deduction. May be ordered with Sill Frame at bottom for openings with window sill. Because the extended leg has been removed, the bottom frame will sit flat on the window sill. The Sill Frame with be positioned at the bottom unless otherwise specified.
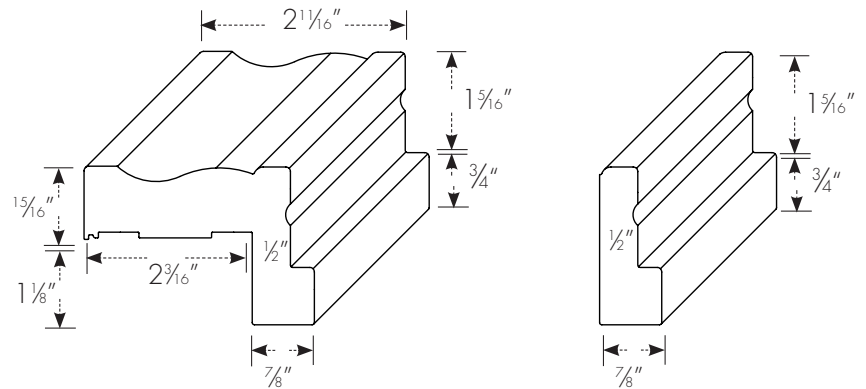
Trim Frame with Flex
(T Frame) & Sill

Used for inside mounts in openings with drywall returns and without trim and includes a 3/8" standard IM deduction. May be ordered with Sill Frame at bottom for openings with a window sill. Because the extended leg has been removed, the bottom frame will sit flat on window sill. The Sill Frame will be positioned at the bottom unless otherwise specified.
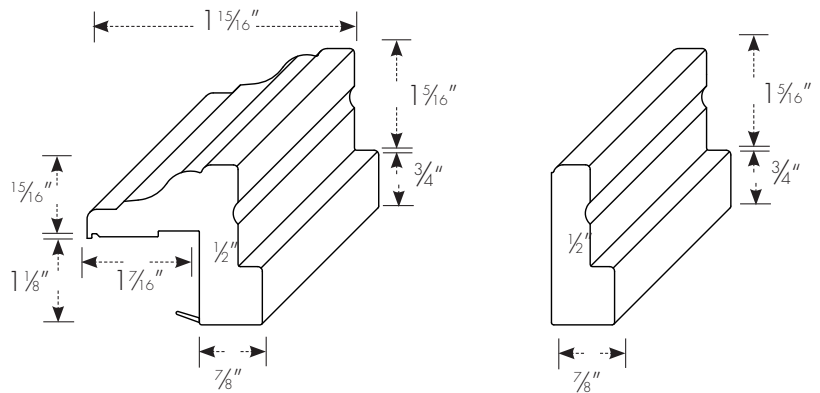
Z-Frame & Sill

Used for inside mount applications only. Blends well with all types of trim and includes a 1/4" standard IM deduction. Excellent for slightly out of square windows because the extended leg covers many imperfections. Jamb depth required is a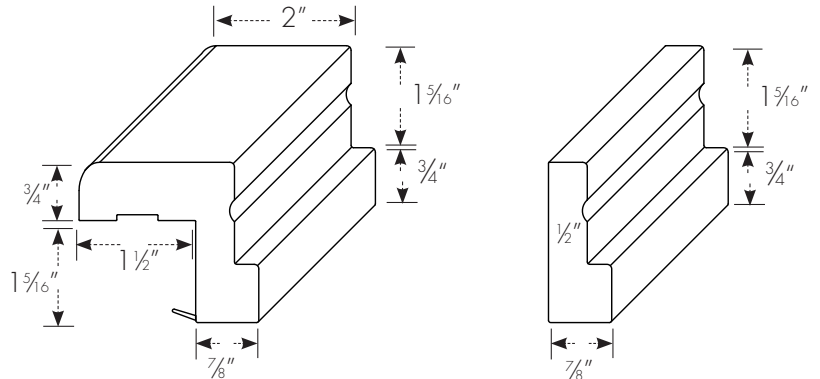 minimal 1 1/4". May be ordered with Sill Frame at the bottom for openings with a window sill. Because extended leg has been removed, the bottom frame will sit flat on a window sill. The Sill Frame will be positioned at the bottom unless otherwise specified
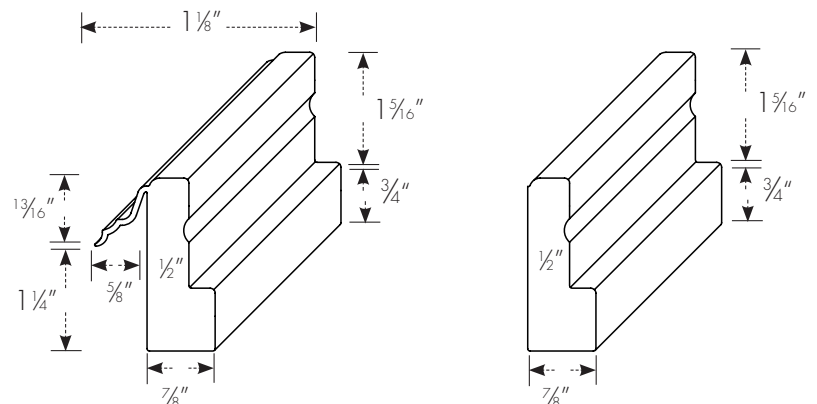
L-Frame

May be used for inside mounts if window openings are square (a 1/8″ IM deduction standard), or outside mounts directly on top of trim or beside trim. For an inside mount, caulking or the optional L-Frame Cover Strip may be necessary to cover any uneven gaps. The optional L-Frame Cover Strip may be ordered on the Order Form. The Cover Strip is glued to the face of the L-Frame.
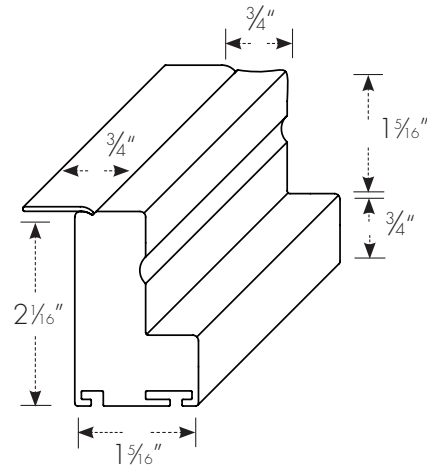
L-Frame with 1/2″ extension added

Used for outside mount installations with the 2 1/2″ louver. Usually used when the frame is installed beside the trim or to clear any obstructions. Additional extensions may be requested on the Order Form if required.
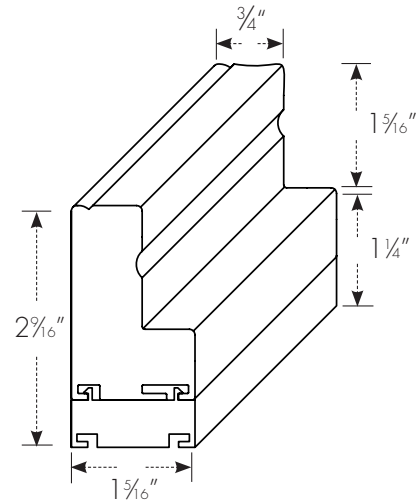
L-Frame with two 1/2″ extensions added

Used for outside mount installations with the 3 1/2″ louver. Usually used when the frame is installed beside the trim or to clear any obstructions. Additional extensions may be requested on the Order Form if required.
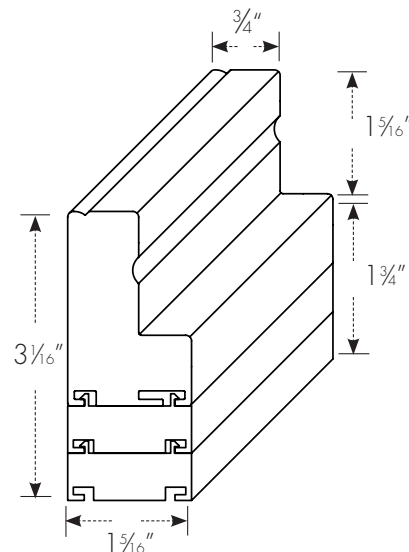
Note: Casing Sill Frame can be used in place of L-Frame. The Casing Sill Frame is 3/8″ taller, has a decorative face and accepts the L-Frame extension when additional projection is needed.

Casing Frame (C-Frame)

Used for outside mount only. Installed on the wall or directly on top of an existing trim. When installing on top of an existing trim, an optional C-Frame Cover Strip may be requested on the Order Form. The C-Frame Cover Strip covers the gap created between the back of the frame and the front of the trim. The Cover Strip is inserted into the C-Frame. The Casing Frame Extension adds 1/2″ projection to the shutter.
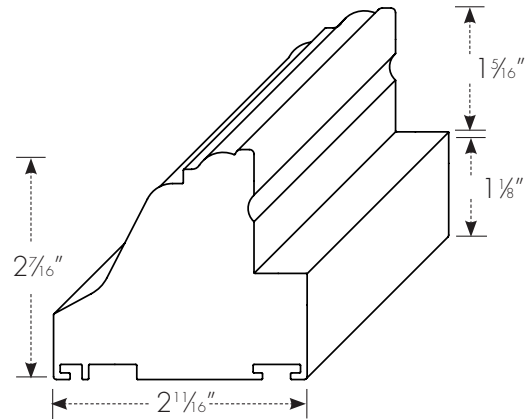
Casing Sill Frame

Used in conjunction with the Casing Frame in outside mount applications, the Casing Sill Frame will sit flat on a window sill. The Casing Sill Frame will be positioned at the bottom unless otherwise specified. May also be used as a stand alone frame. Use the Casing Sill as an alternative to the L Frame in both inside and outside mount applications.
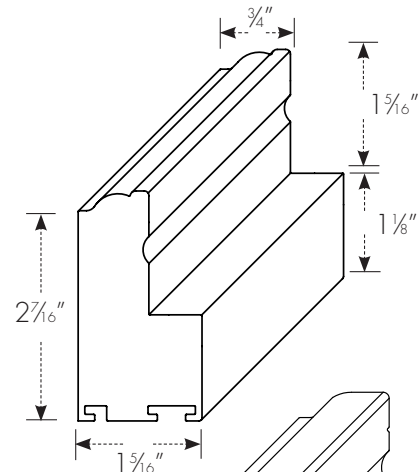
S Frame

Used for outside mount only. Installed on the wall or directly on the top of existing trim. An optional S Frame cover strip is available upon request, and can also be used with the S Frame Extension. Since the S Frame is more narrow than most trim, the inside of the frame should align with inside of the trim to use the cover strip.
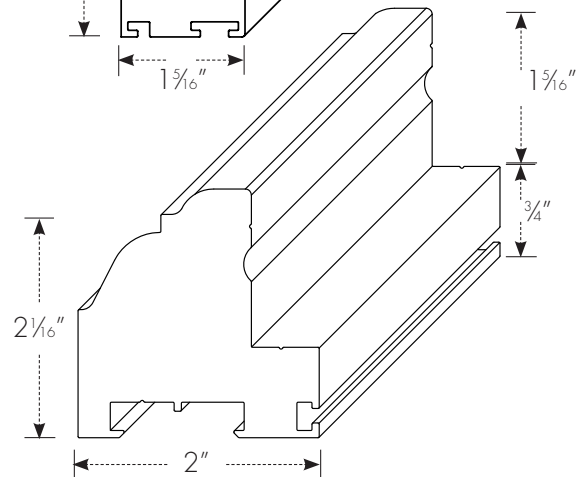
S Sill Frame

Use in conjunction with the S Frame in outside mount applications, the S Sill Frame will sit flat on a window sill. The S Sill Frame will be positioned at the bottom unless otherwise specified.

ECLIPSE® SHUTTERS A13
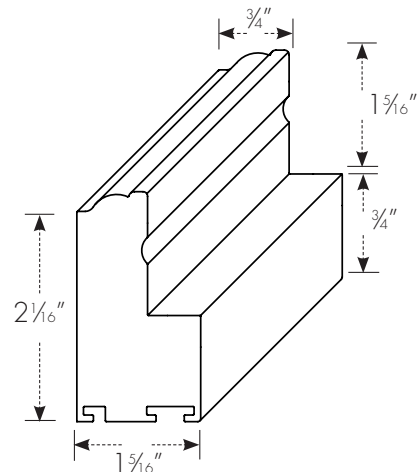
Mounting Strip

Used in conjunction with adjustable bent-leaf hinges for inside mounts without frames or as a light block mounted on the inside of panels which are installed without frames. It is not visible from inside the room. Unless requested otherwise, 3/4" x 3/4" will be supplied.
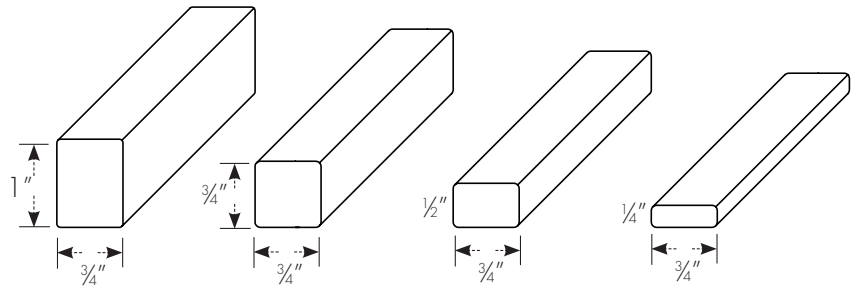
T-Post

Used to separate and hinge multiple panels in wide openings. Usually placed directly in front of any existing window dividers. It is notched to fit into the frames, or can be installed to existing opening with L brackets.

ECLIPSE®
S H U T T E R S
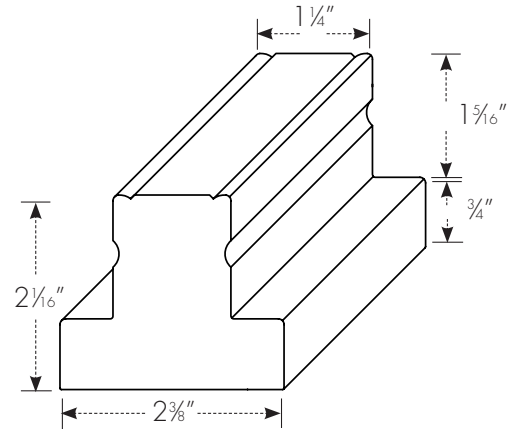
Shutter Accessories

(Part #M680)
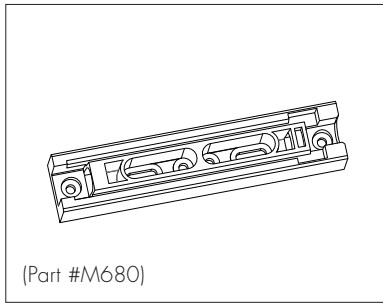
1. Molded Insert for Jambs

(Part #M590–COLOR)
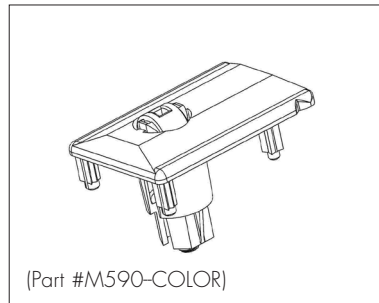
2. Panel Lock Jamb Cap with Roller
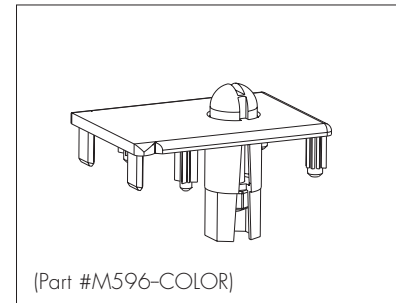
(Part #M596–COLOR)

3. Panel Lock Jamb Cap
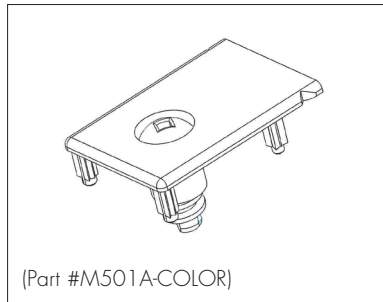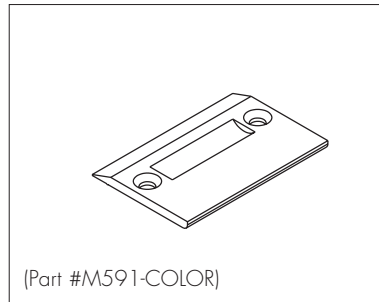
(Part #M501A-COLOR)

4. Adjustable Jamb Cap

(Part #M591-COLOR)

5. Panel Lock Ramp

(Part #M592-COLOR)

6. Panel Lock Ramp with Back

(Part #M511)

7. Hinge Shims

(Part #HB040)

8. Hinge Bushing

KIT4587- Color 5136
KIT4589- Color 5140
KIT5890- Color 5151

9. 3/8" Button Plug

(Part #M546-COLOR)
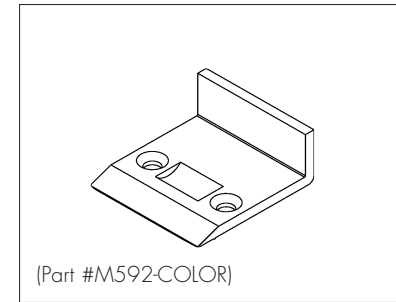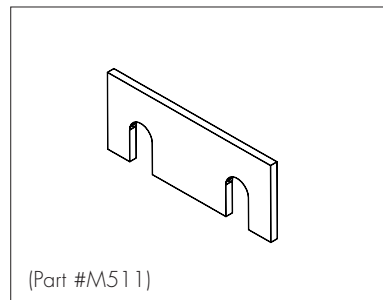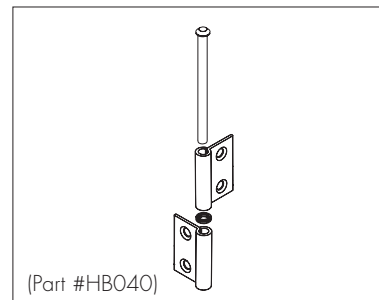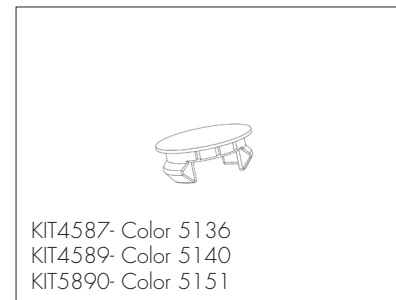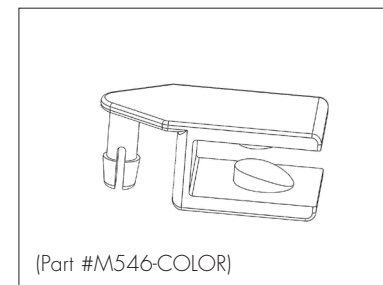
10. Rear Tilt Connector

(Part #M556-COLOR)
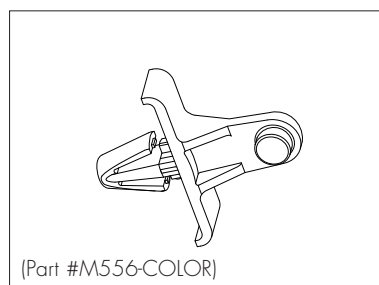
11. Front Tilt Bar Cufflink
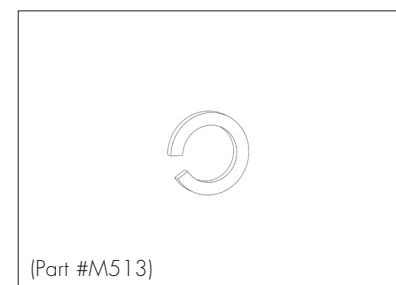
(Part #M513)

12. Louver Tensioner
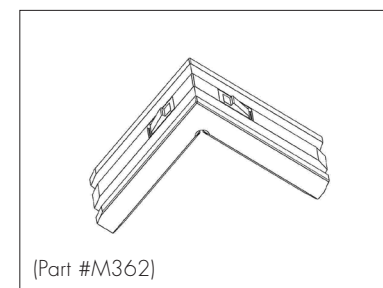
(Part #M362)

13. Corner Key

(Part #MT07)

14. Valance Bracket

(Part #M643-COLOR

15. Small Floor Guide

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(Part #M648-COLOR)
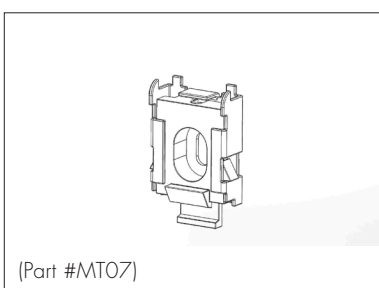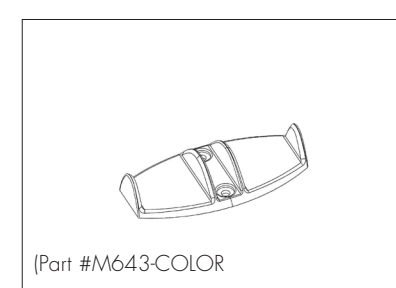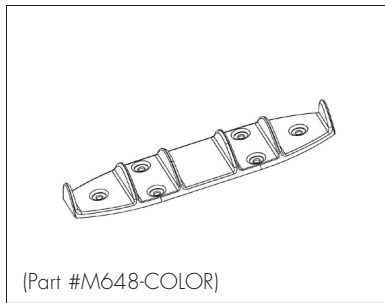
16. Large Floor Guide

(Part #M510BZ-COLOR)
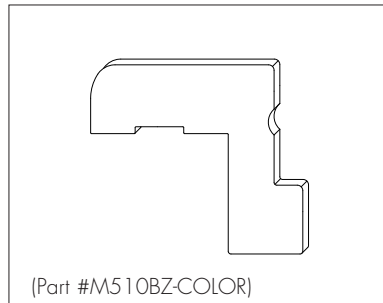
17. Bullnoze Z Frame Cap

(Part #M510BZ-SILL-COLOR)
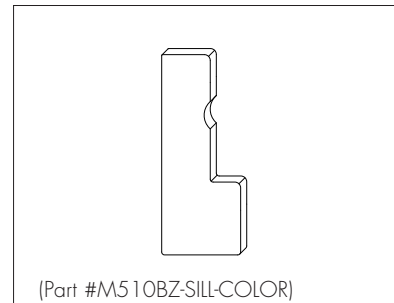
18. Bullnoze Z Sill Cap
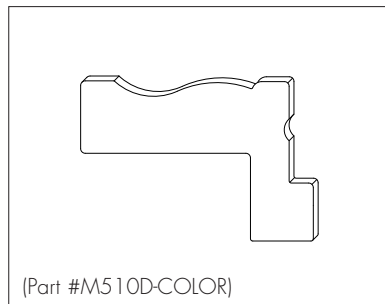
(Part #M510D-COLOR)

19. Deluxe Trim Frame Cap

(Part #M510T-COLOR)

20. Trim Frame Cap

(Part #M510T-SILL-COLOR)

21. Sill Trim Frame Cap

(Part #M510L-COLOR)

22. L Frame Cap

(Part #M510L-E3-COLOR)
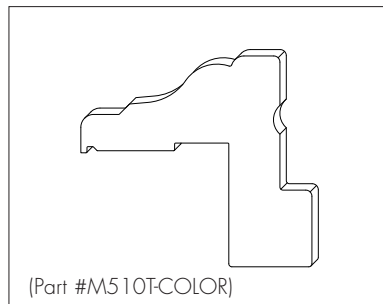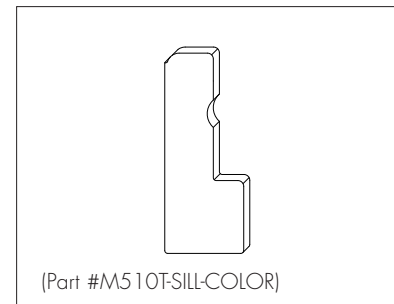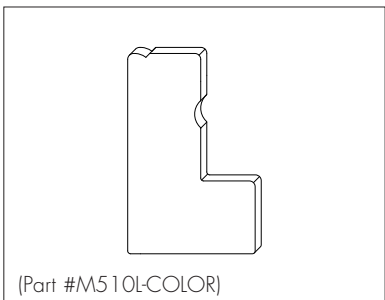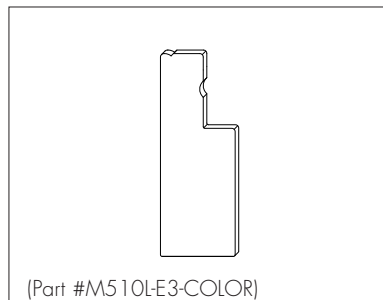
23. L Frame + 3 Extensions Cap

(Part #M510L-E-COLOR)
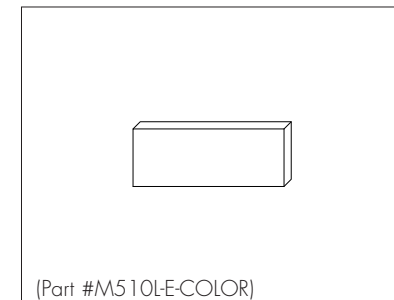
24. L Frame Extension Cap
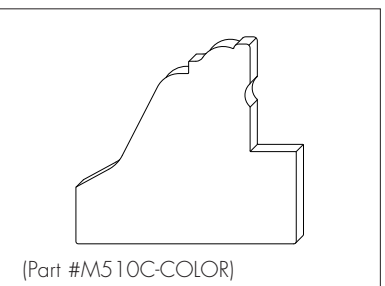
(Part #M510C-COLOR)

25. Casing Frame Cap

(Part #M510CS-COLOR)

26. Casing Sill Frame Cap

(Part #M510TB-COLOR)

27. T Post Cap

(Part #M510S-COLOR)

28. S Frame Cap

(Part #M510S-SILL-COLOR)

29. S Sill Frame Cap

(Part #M510S-E-COLOR)
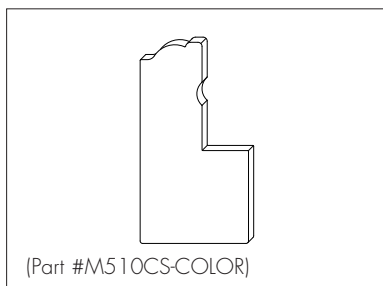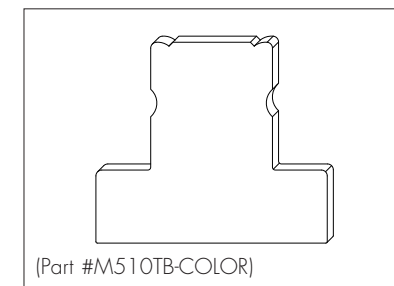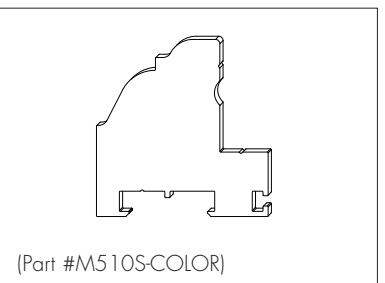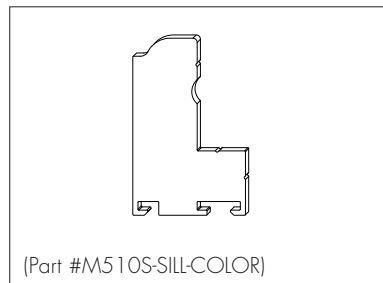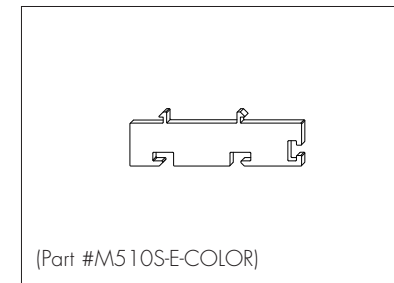
30. S Frame Extension Cap
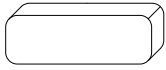
(Part #M510MS1-COLOR)

31. 1/4″ x 3/4″ Mounting Strip Cap
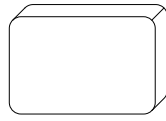
(Part #M510MS2-COLOR)

32. 1/2″ x 3/4″ Mounting Strip Cap
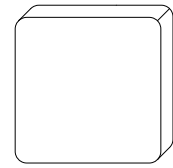
(Part #M510MS3-COLOR)

33. 3/4″ x 3/4″ Mounting Strip Cap
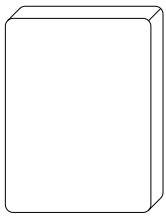
(Part #M510MS4-COLOR)

34. 1″ x 3/4″ Mounting Strip Cap
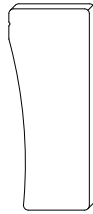
(Part #M510BFV-COLOR)

35. Bi-fold Valance Cap

(Part #M510BPV-COLOR)

36. By-pass Valance Cap

(Part #M510CV-COLOR)

37. Crown Valance Cap

B

ECLIPSE®
SHUTTERS

PANEL CONFIGURATIONS AND HINGING

P1-L (left hinge) two, three, or four sided frame
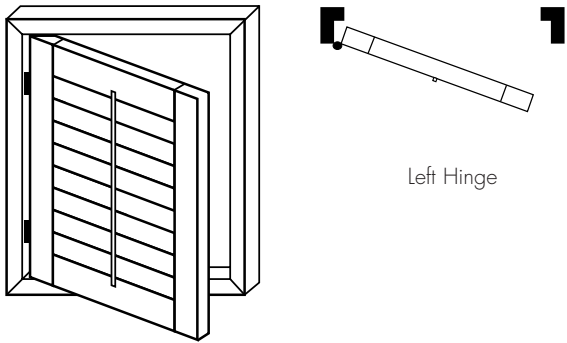
Left Hinge

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	6"	6"	6"
• Maximum Width:	36"	36"	36"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P1DH-L Double Hung (left hinge) two, three, or four sided frame
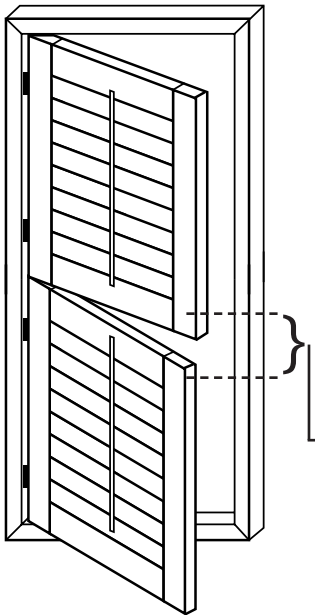
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	6"	6"	6"
• Maximum Width:	30"	30"	30"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P1IF-L Inverted three sided frame (café style)

Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*

ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

P1-R (right hinge) two, three, or four sided frame

Right Hinge

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	6"	6"	6"
• Maximum Width:	36"	36"	36"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P1DH-R Double Hung (right hinge) two, three, or four sided frame
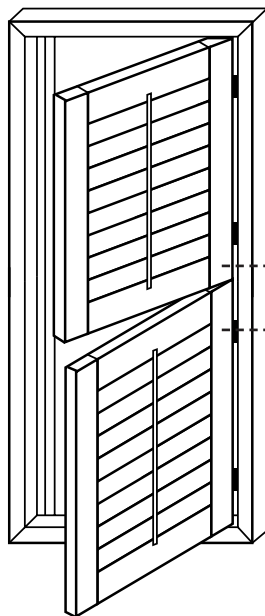
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	6"	6"	6"
• Maximum Width:	30"	30"	30"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P1IF-R Inverted three sided frame (café style)
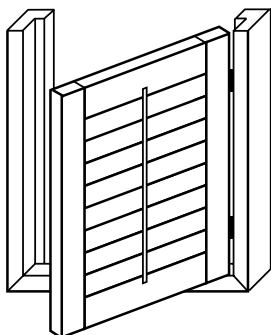
Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

ECLIPSE® SHUTTERS B2

P2-LR two, three, or four sided frame

Left   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	20"	20"	20"
• Maximum Width:	72"	72"	72"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P2DH-LR Double Hung, two, three, or four sided frame
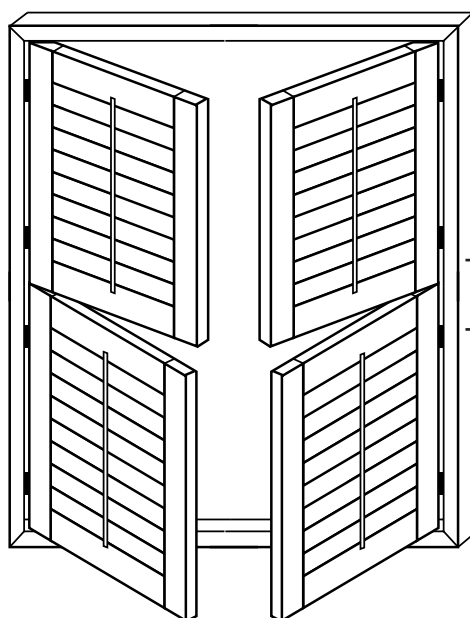
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	20"	20"	20"
• Maximum Width:	60"	60"	60"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P2IF-LR Inverted, three sided frame (café style)

Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

P2-LTR two, three, or four sided frame

Left   T-post   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	20"	20"	20"
• Maximum Width:	72"	72"	72"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P2DH-LTR Double Hung, two, three, or four sided frame
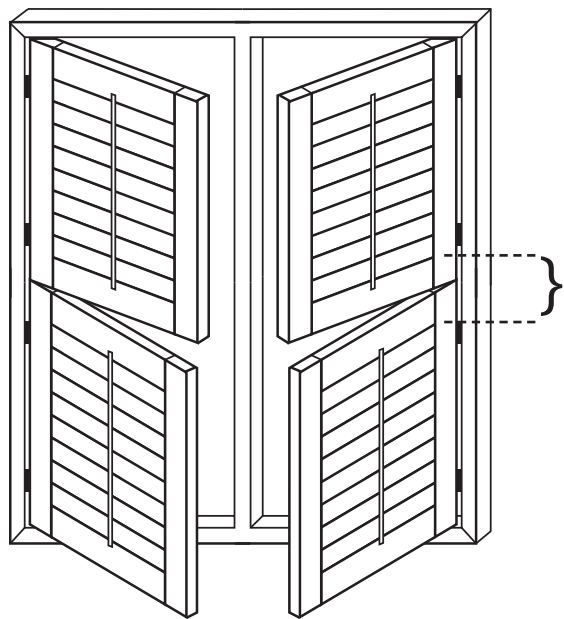
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	20"	20"	20"
• Maximum Width:	60"	60"	60"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

ECLIPSE®
SHUTTERS

P2-LL Two left bi-fold, two, three, or four sided frame

Left   Left

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	20"	20"	20"
• Maximum Width:	48"	48"	48"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P2DH-LL Double Hung, two, three, or four sided frame
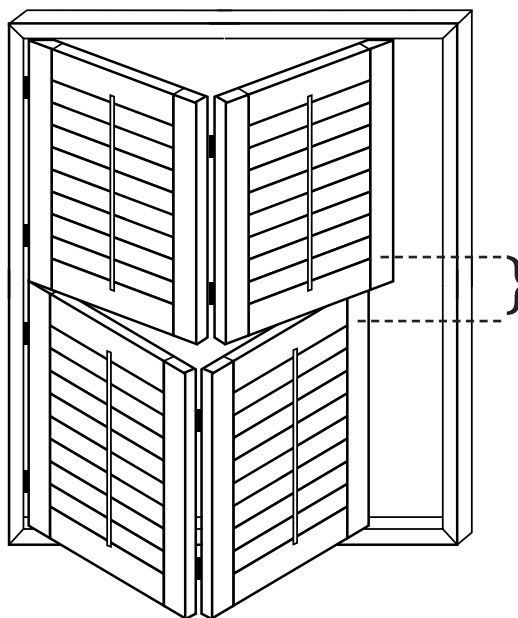
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	20"	20"	20"
• Maximum Width:	40"	40"	40"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P2IF-LL Inverted, three sided frame (café style)

Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*

ECLIPSE® SHUTTERS

P2-RR Two right bi-fold, two, three, or four sided frame
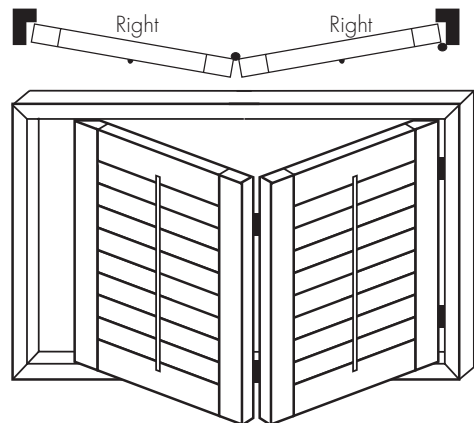
Right   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	20"	20"	20"
• Maximum Width:	48"	48"	48"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P2DH-RR Double Hung, two, three, or four sided frame
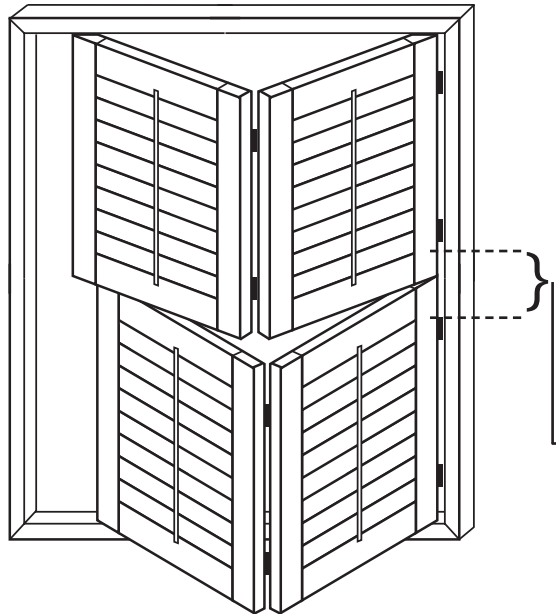
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width	20"	20"	20"
• Maximum Width:	40"	40"	40"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P2IF-RR Inverted, three sided frame (café style)

Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*

ECLIPSE®
SHUTTERS **B6**

P3-LLR two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	72"	72"	72"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*
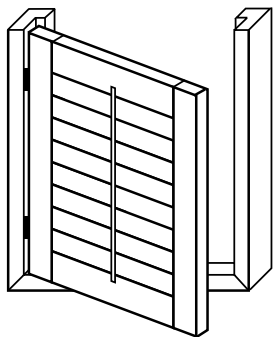
P3DH-LLR Double Hung, two, three, or four sided frame
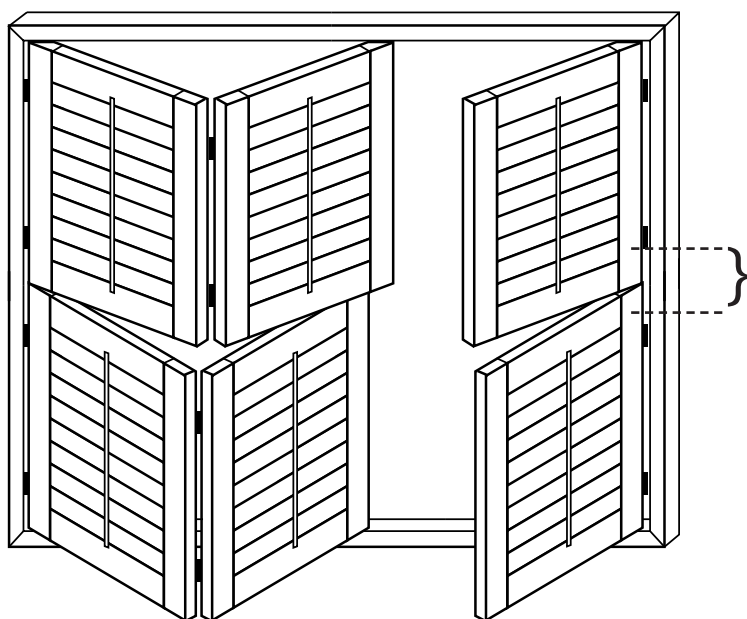
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	60"	60"	60"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*
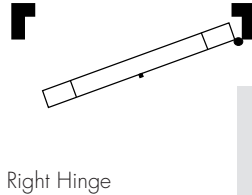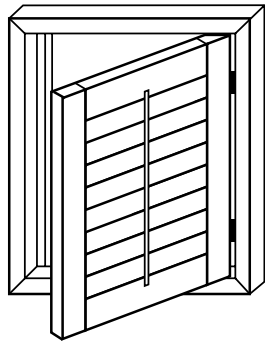
Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P3IF-LLR Inverted, three sided frame (café style)

Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*

ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

P3-LRR two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	72"	72"	72"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P3DH-LRR Double Hung, two, three, or four sided frame
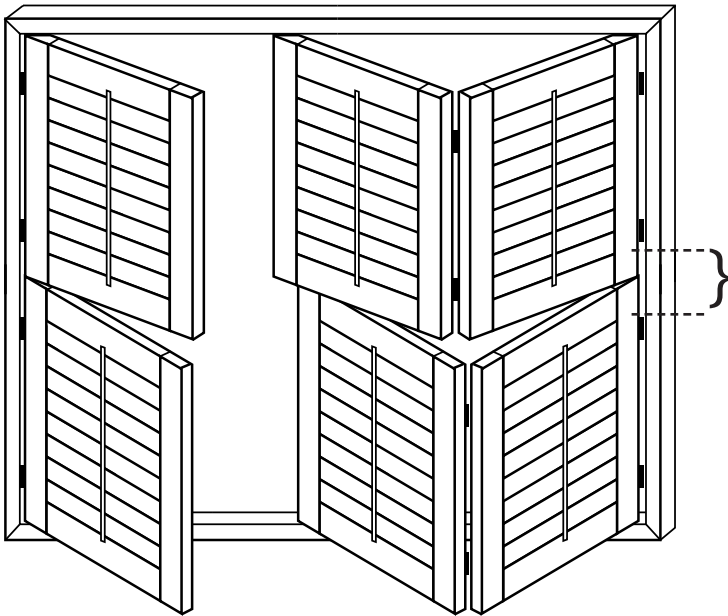
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	60"	60"	60"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P3IF-LRR Inverted, three sided frame (café style)

Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*
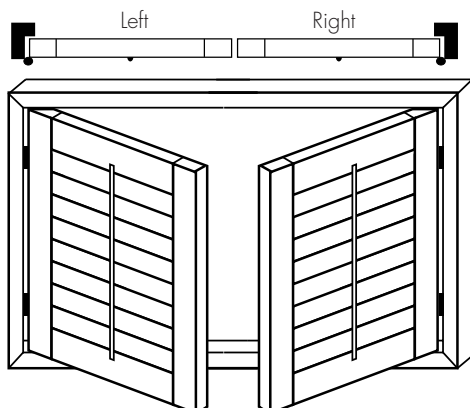
** Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.*

ECLIPSE®
SHUTTERS   B8

P3-LTRTR two, three, or four sided frame

Left T-post Right T-post Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	108"	108"	108"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

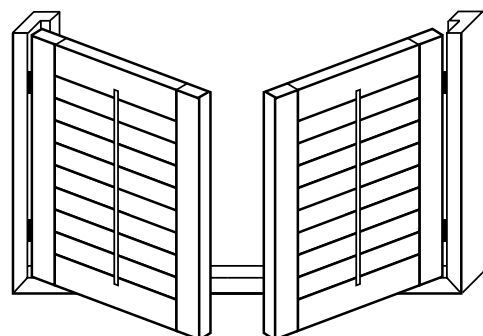### P3DH-LTRTR Double Hung, two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	90"	90"	90"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*
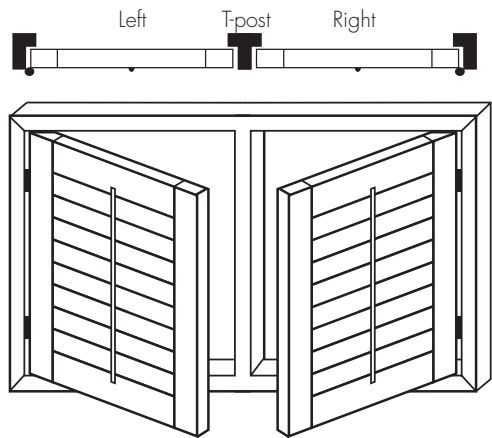
Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

P3-LTLTR two, three, or four sided frame

Left   T-post   Left   T-post   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	108"	108"	108"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P3DH-LTLTR Double Hung, two, three, or four sided frame

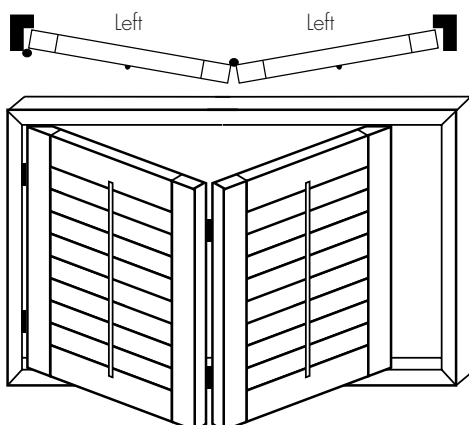|	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	30"	30"	30"
• Maximum Width:	90"	90"	90"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

**Note:** *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

ECLIPSE® SHUTTERS B10

P4-LLRR two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	96"	96"	96"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

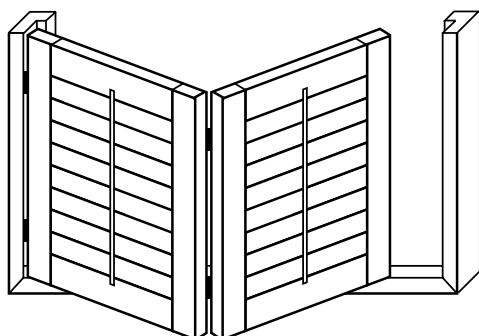## P4DH-LLRR Double Hung, two, three, or four sided frame
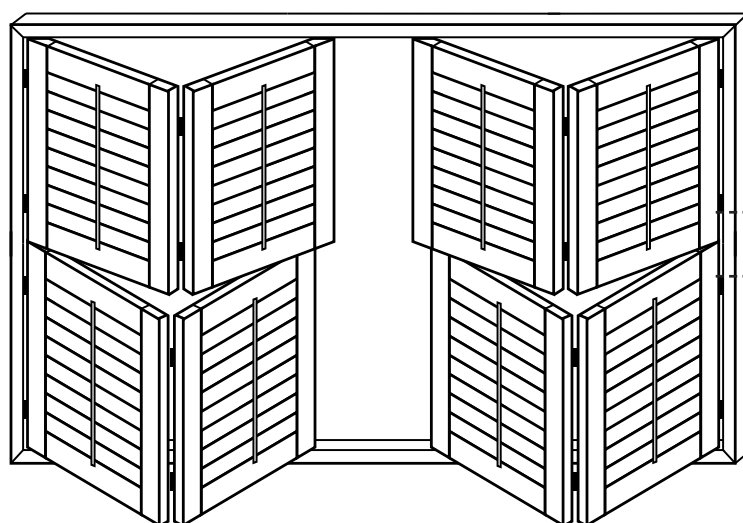
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	80"	80"	80"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P4IF-LLRR Inverted, three sided frame (café style)

- • Minimum Width: 40"
- • Maximum Width: 96"

Note: *If panel height is to be shorter than the frame, then specify in special instructions, see page B25 for additional details.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

P4-LLTRR two, three, or four sided frame

Left   Left   T-post   Right   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	96"	96"	96"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*
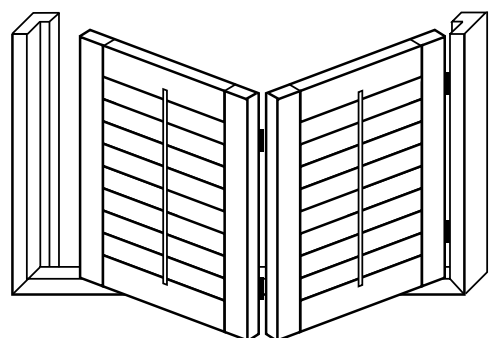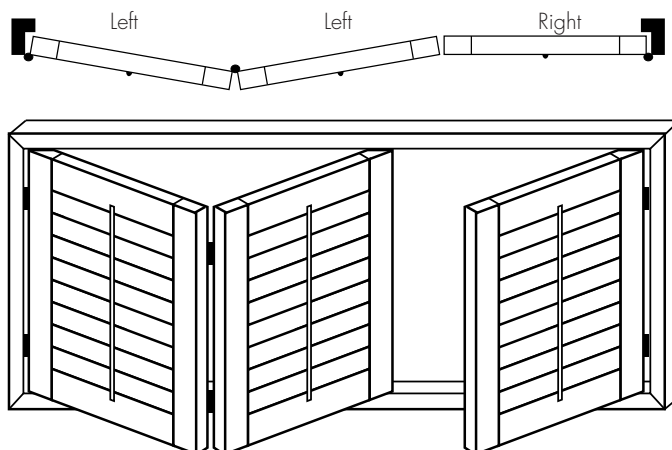
P4DH-LLTRR Double Hung, two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width	40"	40"	40"
• Maximum Width:	80"	80"	80"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

P4-LRTLR two, three, or four sided frame

Left   Right   T-post   Left   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	144"	144"	144"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P4DH-LRTLR Double Hung, two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	120"	120"	120"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

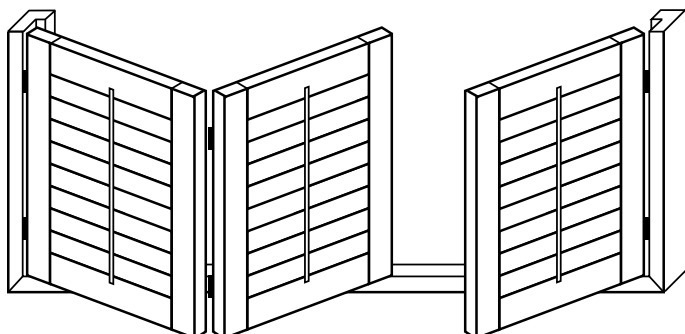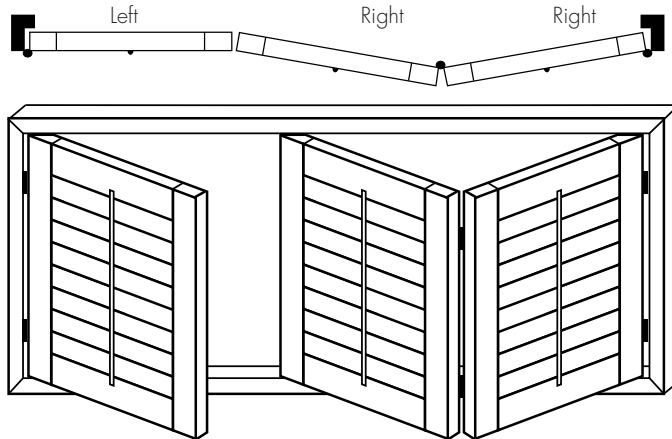## P4-LTLRTR two, three, or four sided frame

Left   T-post   Left   Right   T-post   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	144"	144"	144"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

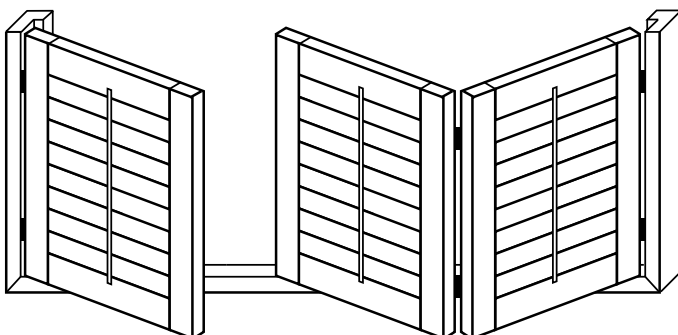## P4DH-LTLRTR Double Hung, two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	120"	120"	120"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

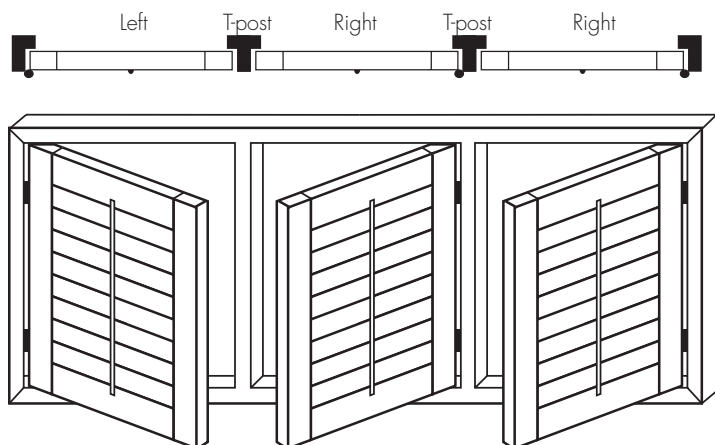Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

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SHUTTERS B14

P4-LTLLTR two, three, or four sided frame

Left   T-post   Left   Left   T-post   Right

	2 1/2″	3 1/2″	4 1/2″
• Minimum Width:	40″	40″	40″
• Maximum Width:	120″	120	120″
• Minimum Height:	16″	16″	16″
• Maximum Height:	120″	120″	120″

Note: *Panels less than 18″ in height are not recommended, due to the excessive louver overlap that may occur.*

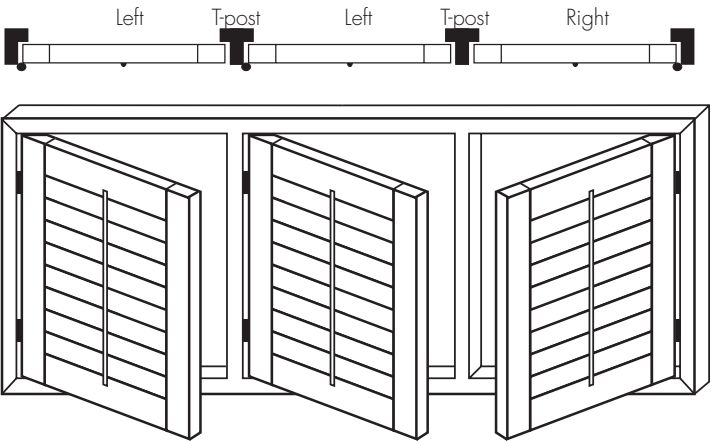## P4DH-LTLLTR Double Hung, two, three, or four sided frame

	2 1/2″	3 1/2″	4 1/2″
• Minimum Width:	40″	40″	40″
• Maximum Width:	100″	100″	100″
• Minimum Height:	32″	32″	32″
• Maximum Height:	120″	120″	120″

Optional Horizontal T-Post. See page D6 for additional details.

Note: *Double Hung styles have a possible 4 5/8″ - 6″ of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

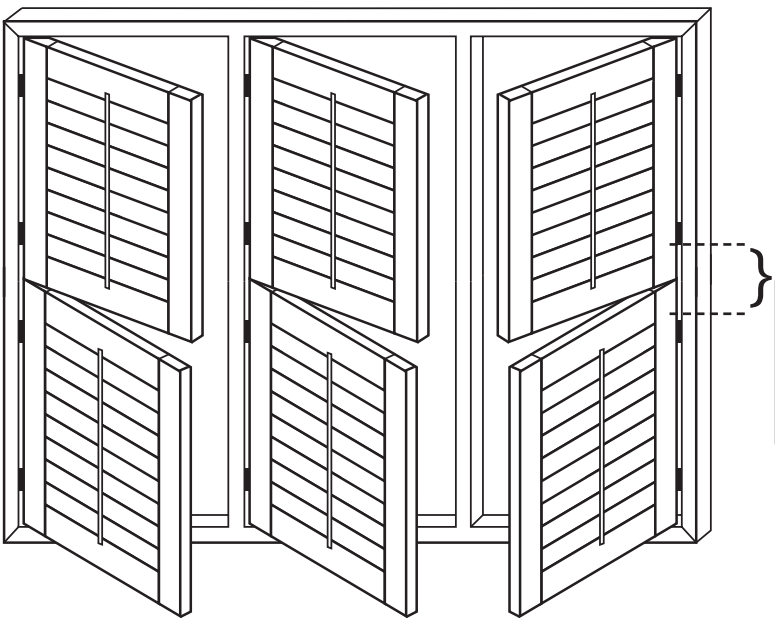Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

P4-LTRRTR two, three, or four sided frame

Left   T-post   Right   Right   T-post   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	120"	120"	120"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P4DH-LTRRTR Double Hung, two, three, or four sided frame

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	100"	100"	100"
• Minimum Height:	32"	32"	32"
• Maximum Height:	120"	120"	120"

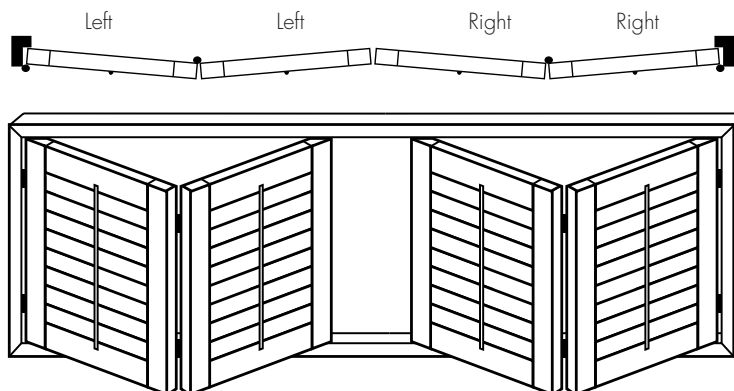*Optional Horizontal T-Post. See page D6 for additional details.*

Note: *Double Hung styles have a possible 4 5/8" - 6" of obstructed view where bottom rail meets top rail, depending on rail and horizontal T Post selections.*

Note: *A Double Hung (DH) panel is considered 2 panels for pricing purposes.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

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P6-LRTLRTLR two, three, or four sided frame

Left   Right   T-post   Left   Right   T-post Left   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	60"	60"	60"
• Maximum Width:	180"	180"	180"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*
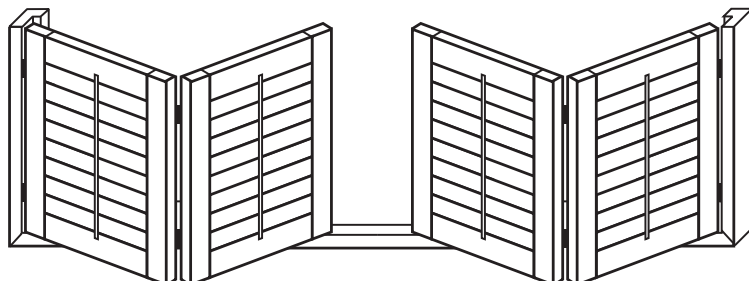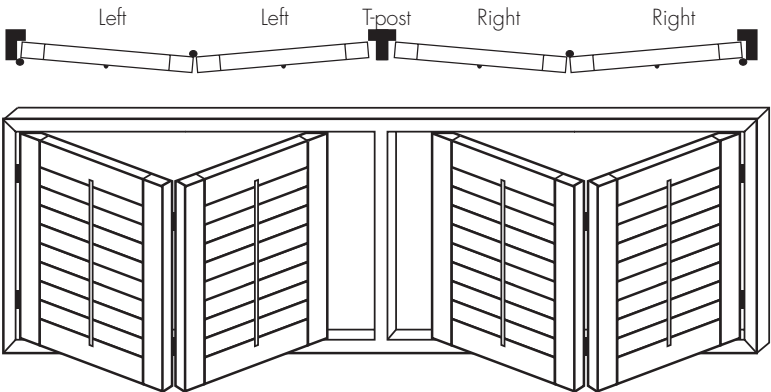
P6-LTLRTLRTR two, three, or four sided frame
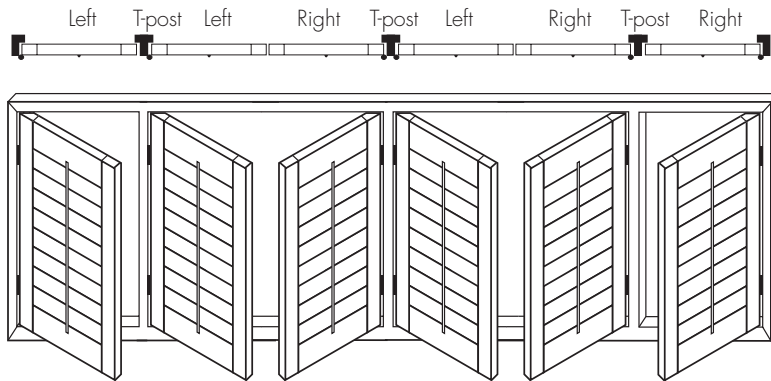
Left   T-post Left   Right   T-post   Left   Right   T-post   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	60"	60"	60"
• Maximum Width:	180"	180"	180"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

P6-LTLLRRTR two, three, or four sided frame
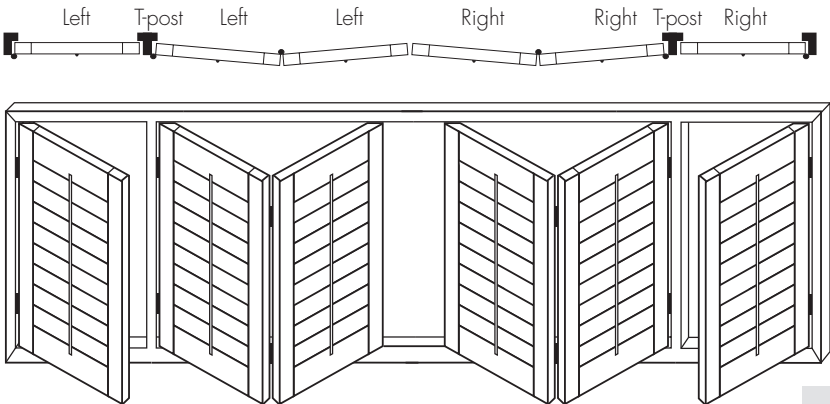
Left   T-post   Left   Left   Right   Right T-post Right

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	60"	60"	60"
• Maximum Width:	168"	168"	168"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

P6-LTLLTRRTR two, three, or four sided frame

Left   T-post   Left   Left   T-post   Right   Right T-post Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	60"	60"	60"
• Maximum Width:	168"	168"	168"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

P6-LLTLLTRR two, three, or four sided frame

Left   Left   T-post   Left   Left   T-post   Right   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	60"	60"	60"
• Maximum Width:	144"	144"	144"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

P6-LLTRRTRR two, three, or four sided frame

Left   Left   T-post   Right   Right   T-post   Right   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	60"	60"	60"
• Maximum Width:	144"	144"	144"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

P6-LLRTLRR   two, three, or four sided frame
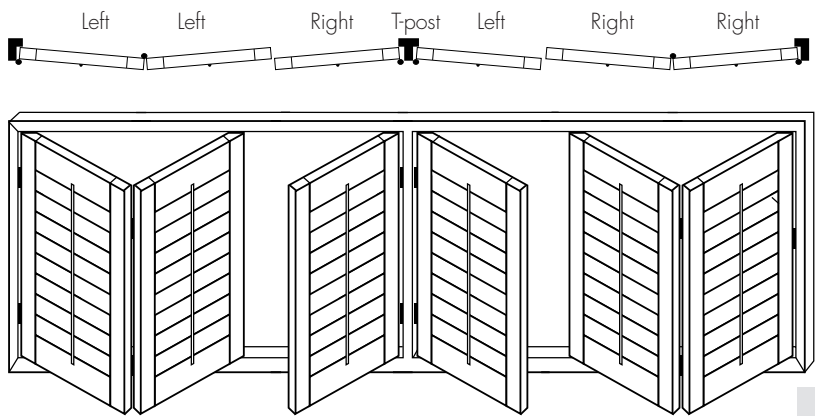
Left   Left   Right   T-post   Left   Right   Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	60"	60"	60"
• Maximum Width:	144"	144"	144"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

Note: *Panels less than 18" in height are not recommended, due to the excessive louver overlap that may occur.*

ECLIPSE® SHUTTERS B20

P4D-LLRR three sided frame
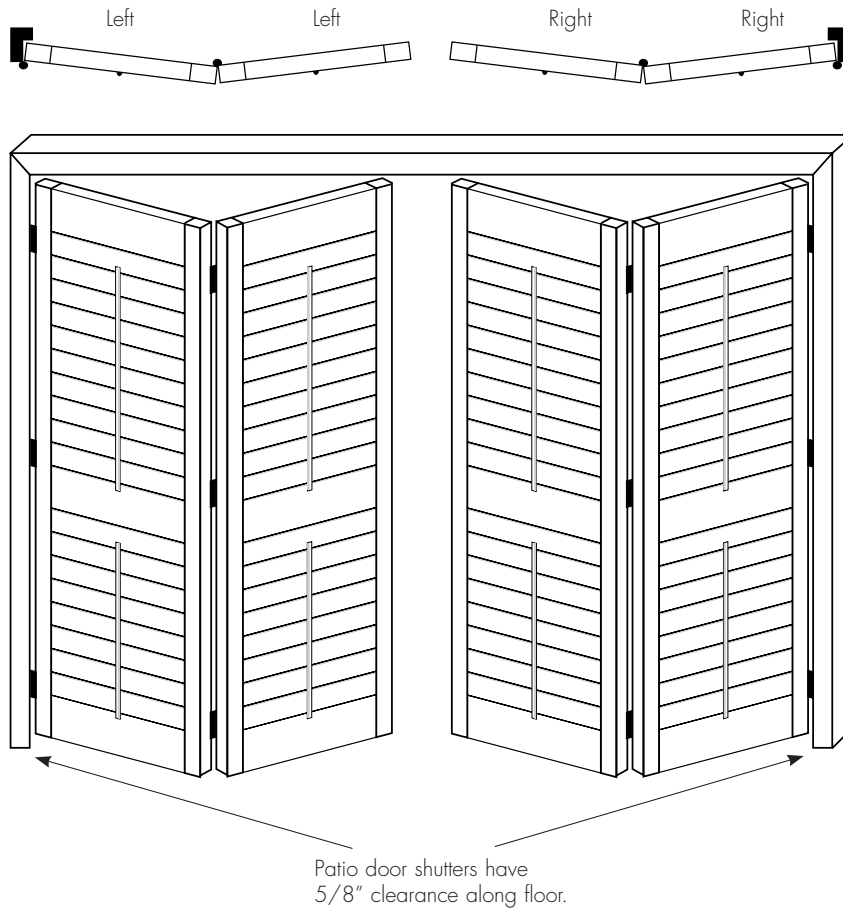
Left   Left   Right   Right

Patio door shutters have
5/8" clearance along floor.

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	40"	40"	40"
• Maximum Width:	96"	96"	96"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	40"

Note: Panels less than 18" in height are not
recommended, due to the excessive louver
overlap that may occur.

Note: For applications over 50 square feet, see our By-Pass (Section G & H)
and Bi-Fold (Section I) shutters. Aluminum inserts are added to
all patio door shutters. All panels over 96" in height require
two divider rails.

A Café style shutter is a shutter configuration in which the panel or panels do not completely cover the entire height of the window opening. The frame may be ordered to the same height as the panel (in 2 or 3 sided frame configurations) or the frame may be ordered at a different height than the panel (4 sided configurations). In a 4 sided Café Style configuration, please note the ordered height and width on the Regular Order Form. Under the remarks section of the order form, note the height of the panel.

If ordering a 3-sided inverted frame in which the panel and frame are the same height, then order as an "IF". (Example: P2IF, page B5)

P1-L (Shown Below)

Opening (ordered) height

Panel height from bottom of shutter frame or sill to top of panel.
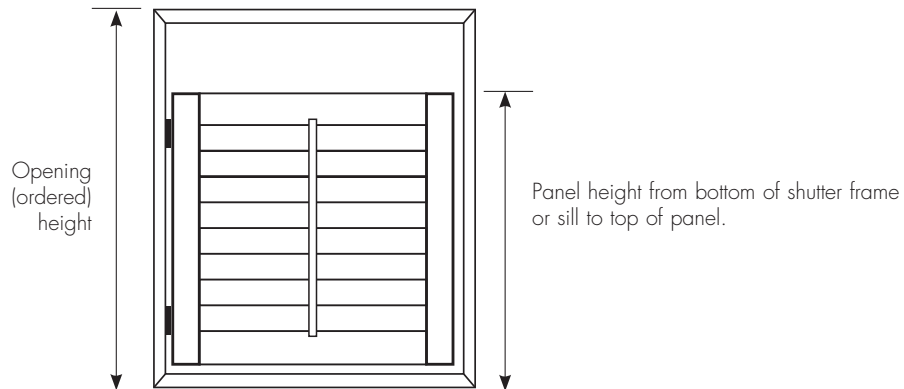
For outside mount, panel height is the measurement from the bottom of the frame to the top of the panel.
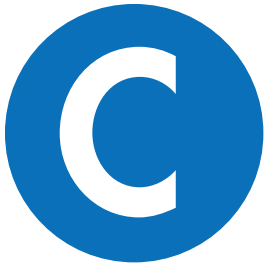
ECLIPSE®
SHUTTERS

OPERATING AND DEPTH CLEARANCE

Inside Mount with No Frame *(direct mount)*

Depth Clearance

With Rear Tilt

2 1/2" Louver = 2 1/2"
3 1/2" Louver = 3"
4 1/2" Louver = 3 1/2"

With Tilt Bar or Gear

2 1/2" Louver = 1 7/8"
3 1/2" Louver = 2 3/8"
4 1/2" Louver = 2 7/8"

Note: *With optional 1 1/4" extended leaf hinges, the depth clearance for shutters with tilt bar can be reduced by 5/8" to 1 1/4" for 2 1/2" louver, 1 3/4" for 3 1/2" louver, and 2 1/4" for 4 1/2" louver.*

ECLIPSE®
SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Inside Mount with 3/4" x 3/4" Mounting Strip and Bent-leaf Hinge

Depth Clearance

With Rear Tilt

2 1/2" Louver = 2 1/2"
3 1/2" Louver = 3"
4 1/2" Louver = 3 1/2"

With Tilt Bar or Gear

2 1/2" Louver = 2 1/8"
3 1/2" Louver = 2 3/8"
4 1/2" Louver = 2 7/8"

Note: *Depth clearance can be reduced to 1" if mounting strip is installed closer to the inside of opening. However, hinges will project into the room by 1".*
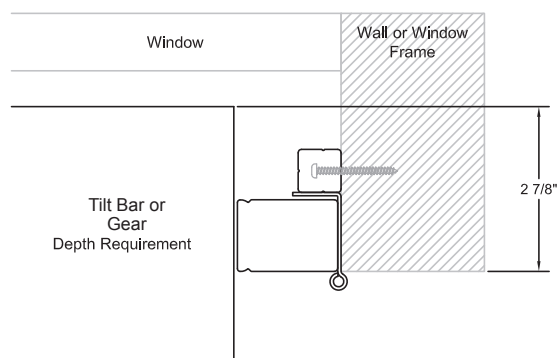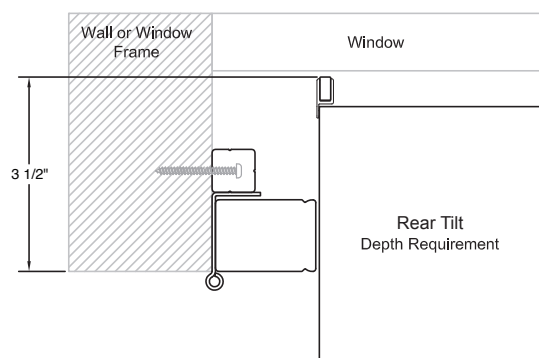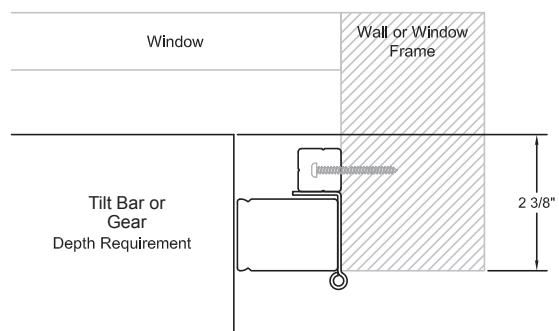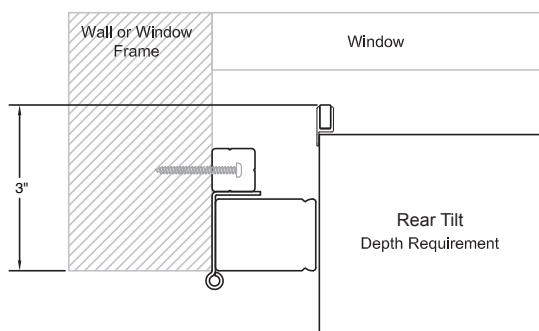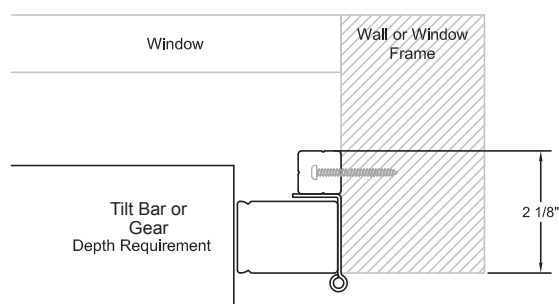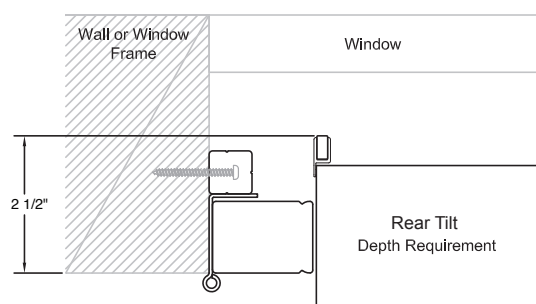
* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

ECLIPSE® SHUTTERS   C2

Recessed Inside Mount with L-Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 2 1/2"
3 1/2" Louver = 3"
4 1/2" Louver = 3 1/2"

With Tilt Bar or Gear

2 1/2" Louver = 2 1/8"
3 1/2" Louver = 2 3/8"
4 1/2" Louver = 3"

Note: *For recessed mounts the depth clearance is measured from the front of L-Frame. Only L-Frame can be used in a recessed mount application. Recessed distance can vary.*

Wall or Window Frame / Window — 2 1/2" — Rear Tilt Depth Requirement	Window / Wall or Window Frame — Tilt Bar or Gear Depth Requirement — 2.0620 — 2 1/8"
Wall or Window Frame / Window — 3" — Rear Tilt Depth Requirement	Window / Wall or Window Frame — Tilt Bar or Gear Depth Requirement — 2 3/8"
Wall or Window Frame / Window — 3 1/2" — Rear Tilt Depth Requirement	Window / Wall or Window Frame — Tilt Bar or Gear Depth Requirement — 3"

ECLIPSE®
SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Recessed Inside Mount with Casing Sill Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 2 1/2"
3 1/2" Louver = 3"
4 1/2" Louver = 3 1/2"

With Tilt Bar or Gear

2 1/2" Louver = 2 1/2"
3 1/2" Louver = 2 1/2"
4 1/2" Louver = 3"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

Wall or Window Frame	Window
2 1/2"	Rear Tilt Depth Requirement

Window	Wall or Window Frame
Tilt Bar or Gear Depth Requirement	2 1/2"

Wall or Window Frame	Window
3"	Rear Tilt Depth Requirement

Window	Wall or Window Frame
Tilt Bar or Gear Depth Requirement	2 1/2"

Wall or Window Frame	Window
3 1/2"	Rear Tilt Depth Requirement

Window	Wall or Window Frame
Tilt Bar or Gear Depth Requirement	3"

ECLIPSE® C4
SHUTTERS

Inside Mount with Z-Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 1 5/8"
3 1/2" Louver = 2 1/8"
4 1/2" Louver = 2 5/8"

With Tilt Bar or Gear

2 1/2" Louver = 1 1/4"
3 1/2" Louver = 1 5/8"
4 1/2" Louver = 2 1/8"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

Wall or Window Frame — Window — 1 5/8" — Rear Tilt Depth Requirement

Window — Tilt Bar or Gear Depth Requirement — Wall or Window Frame — 1 1/4"

Wall or Window Frame — Window — 2 1/8" — Rear Tilt Depth Requirement

Window — Tilt Bar or Gear Depth Requirement — Wall or Window Frame — 1 5/8"

Wall or Window Frame — Window — 2 5/8" — Rear Tilt Depth Requirement

Window — Tilt Bar or Gear Depth Requirement — Wall or Window Frame — 2 1/8"

ECLIPSE® SHUTTERS

Inside Mount with Trim Frame with Flex

Depth Clearance

With Rear Tilt

2 1/2" Louver = 1 1/2"
3 1/2" Louver = 2"
4 1/2" Louver = 2 1/2"

With Tilt Bar or Gear

2 1/2" Louver = 1 1/8"
3 1/2" Louver = 1 1/2"
4 1/2" Louver = 2"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

Wall or Window Frame	Window
1 1/2"	Rear Tilt Depth Requirement

Window	Wall or Window Frame
Tilt Bar or Gear Depth Requirement	1 1/8"

Wall or Window Frame	Window
2"	Rear Tilt Depth Requirement

Window	Wall or Window Frame
Tilt Bar or Gear Depth Requirement	1 1/2"

Wall or Window Frame	Window
2 1/2"	Rear Tilt Depth Requirement

Window	Wall or Window Frame
Tilt Bar or Gear Depth Requirement	2"

ECLIPSE® SHUTTERS C6
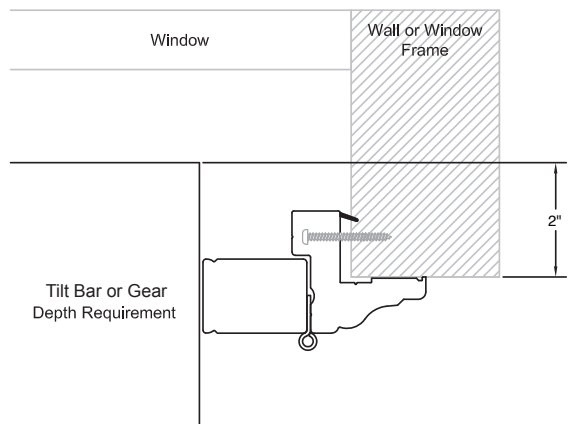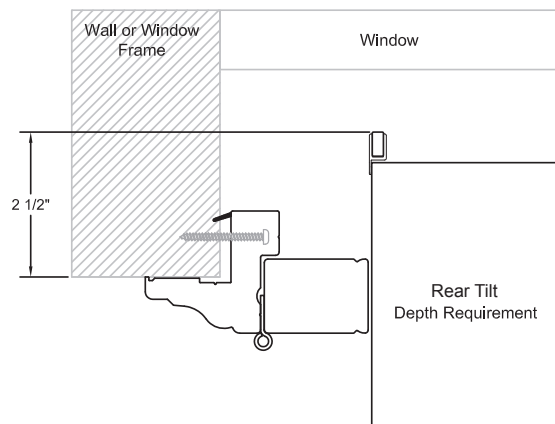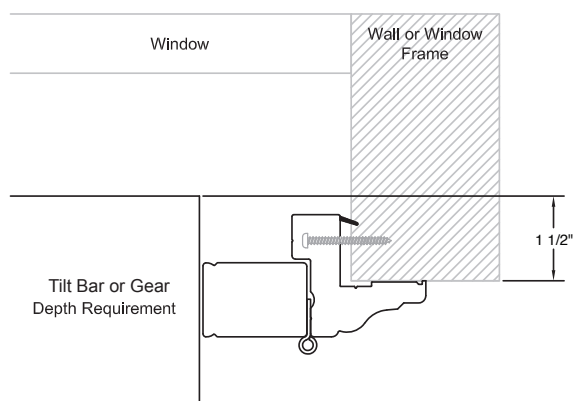
Inside Mount with Bullnose Z Frame with Flex

Depth Clearance

With Rear Tilt
2 1/2" Louver = 1 3/4"
3 1/2" Louver = 2 1/4"
4 1/2" Louver = 2 3/4"

With Tilt Bar or Gear
2 1/2" Louver = 1 3/8"
3 1/2" Louver = 1 5/8"
4 1/2" Louver = 2 1/8"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.
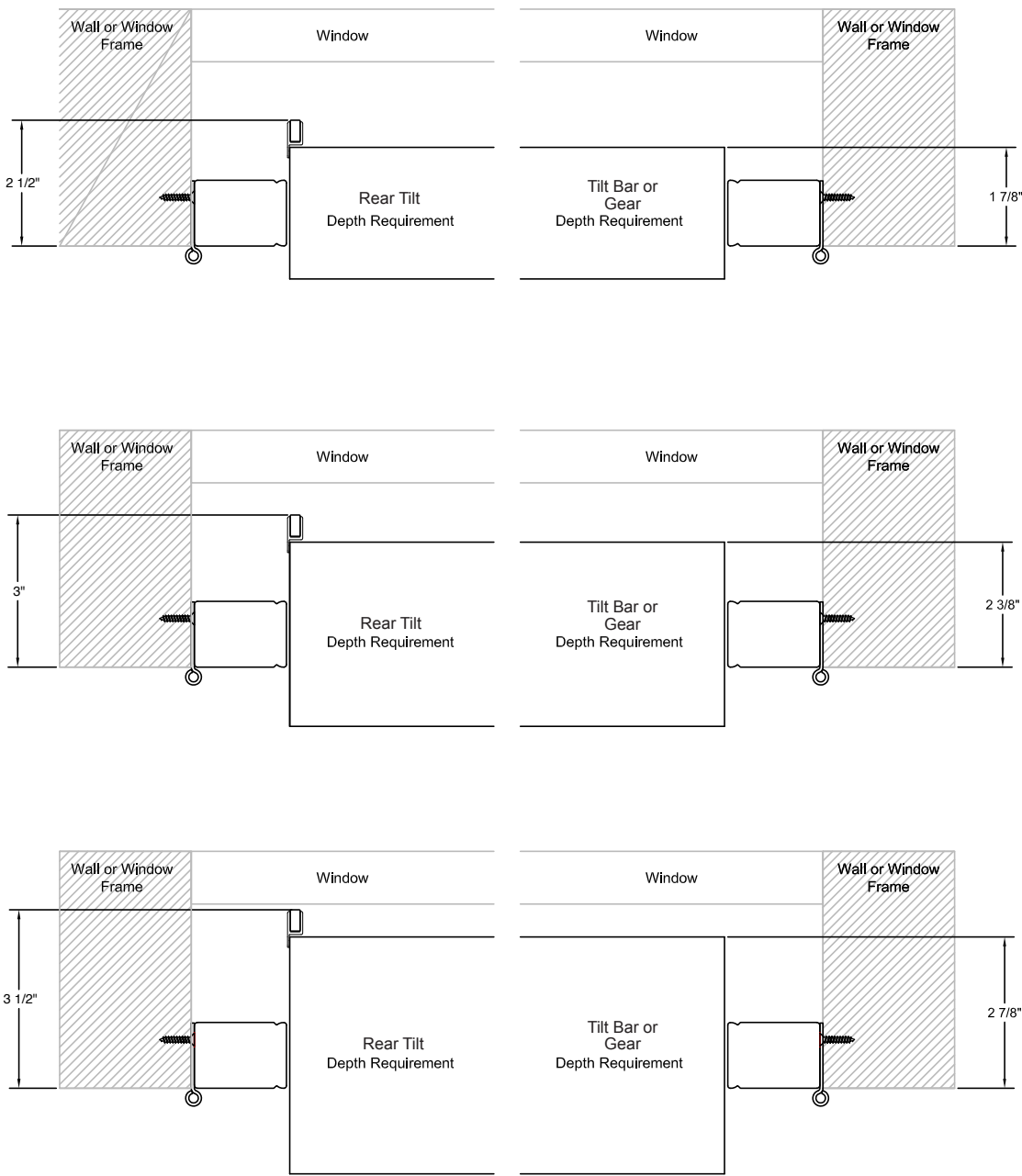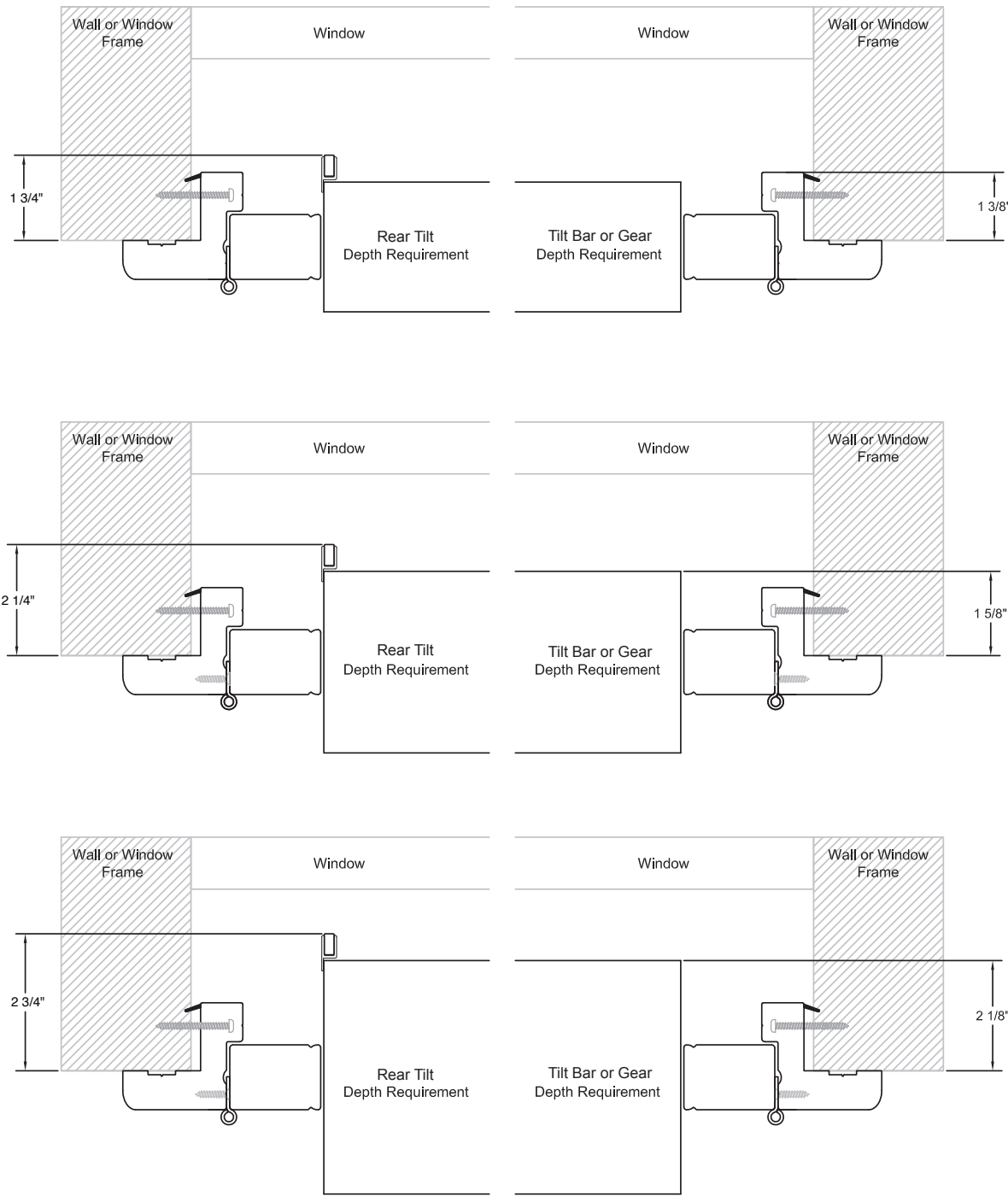
Inside Mount with Deluxe Trim Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 1 1/2"
3 1/2" Louver = 2"
4 1/2" Louver = 2 1/2"

With Tilt Bar or Gear

2 1/2" Louver = 1 1/8"
3 1/2" Louver = 1 1/2"
4 1/2" Louver = 2"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

Wall or Window Frame — Window — 1 1/2" — Rear Tilt Depth Requirement

Window — Wall or Window Frame — 1 1/8" — Tilt Bar or Gear Depth Requirement

Wall or Window Frame — Window — 2" — Rear Tilt Depth Requirement

Window — Wall or Window Frame — 1 1/2" — Tilt Bar or Gear Depth Requirement

Wall or Window Frame — Window — 2 1/2" — Rear Tilt Depth Requirement

Window — Wall or Window Frame — 2" — Tilt Bar or Gear Depth Requirement

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

ECLIPSE® SHUTTERS **C8**

Outside Mount with L Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 3/8"
3 1/2" Louver = 7/8"
4 1/2" Louver = 1 3/8"

With Tilt Bar or Gear

2 1/2" Louver = 0"
3 1/2" Louver = 1/2"
4 1/2" Louver = 7/8"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

Wall or Window Frame / Window

3/8"

Rear Tilt
Depth Requirement

Window / Wall or Window Frame

0"

Tilt Bar or Gear
Depth Requirement

Wall or Window Frame / Window

7/8"

Rear Tilt
Depth Requirement

Window / Wall or Window Frame

1/2"

Tilt Bar or Gear
Depth Requirement

Wall or Window Frame / Window

1 3/8"

Rear Tilt
Depth Requirement

Window / Wall or Window Frame

7/8"

Tilt Bar or Gear
Depth Requirement

Outside Mount Beside Trim with L Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 0"
3 1/2" Louver = 0"
4 1/2" Louver = 0"

With Tilt Bar or Gear

2 1/2" Louver = 0
3 1/2" Louver = 0"
4 1/2" Louver = 0"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

ECLIPSE® C10
SHUTTERS

Outside Mount with Casing Frame

Depth Clearance
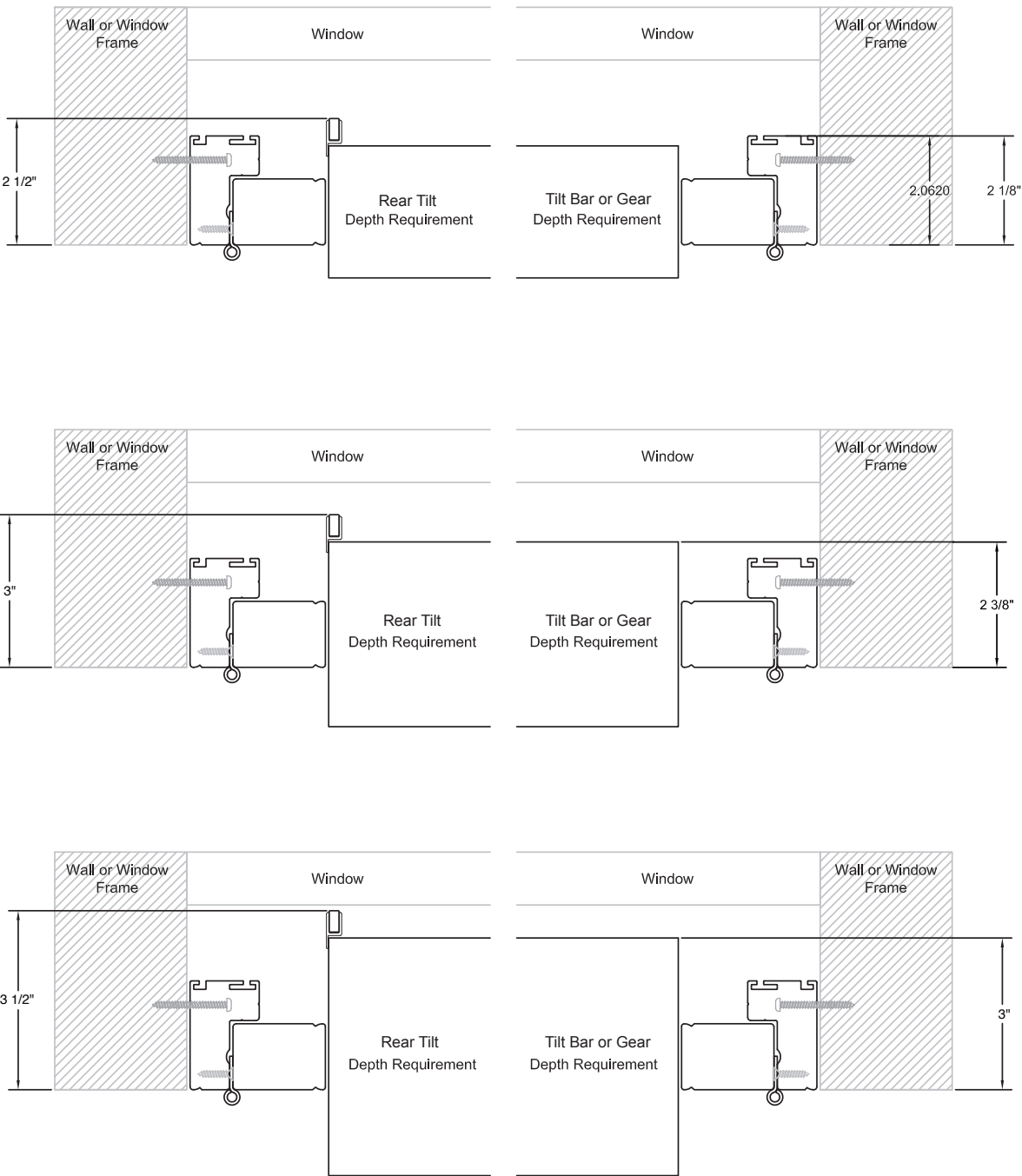
With Rear Tilt

2 1/2" Louver = 0"
3 1/2" Louver = 1/2"
4 1/2" Louver = 1"

With Tilt Bar or Gear

2 1/2" Louver = 0"
3 1/2" Louver = 0"
4 1/2" Louver = 5/8"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

Wall or Window Frame — Window	Window — Wall or Window Frame
0"	0"
Rear Tilt Depth Requirement	Tilt Bar or Gear Depth Requirement
1/2"	0"
Rear Tilt Depth Requirement	Tilt Bar or Gear Depth Requirement
1"	5/8"
Rear Tilt Depth Requirement	Tilt Bar or Gear Depth Requirement

C11 **ECLIPSE®** SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Outside Mount on Top of Existing Trim with Casing Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 0"
3 1/2" Louver = 0"
4 1/2" Louver = 3/8"

With Tilt Bar or Gear

2 1/2" Louver = 0
3 1/2" Louver = 0"
4 1/2" Louver = 0"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

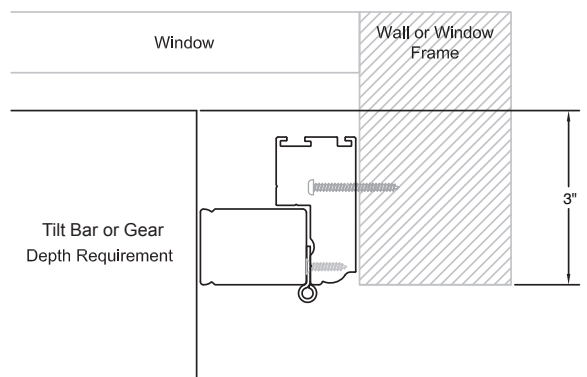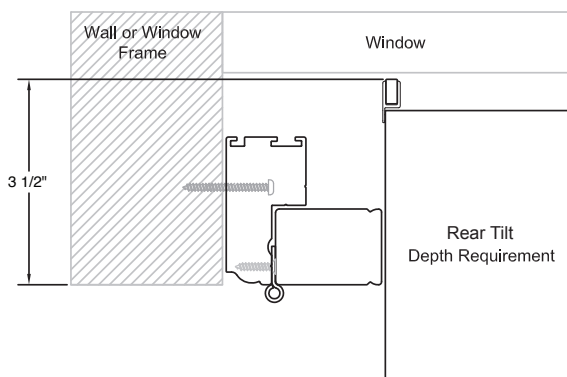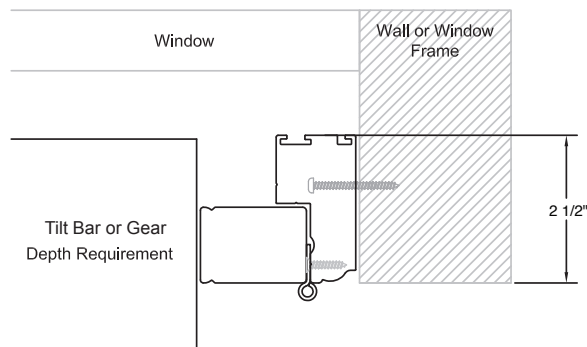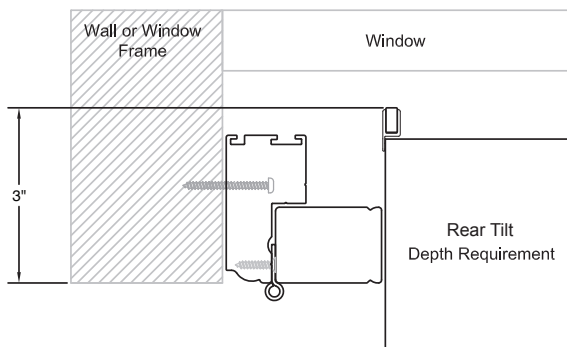*Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.*

ECLIPSE® C12
SHUTTERS
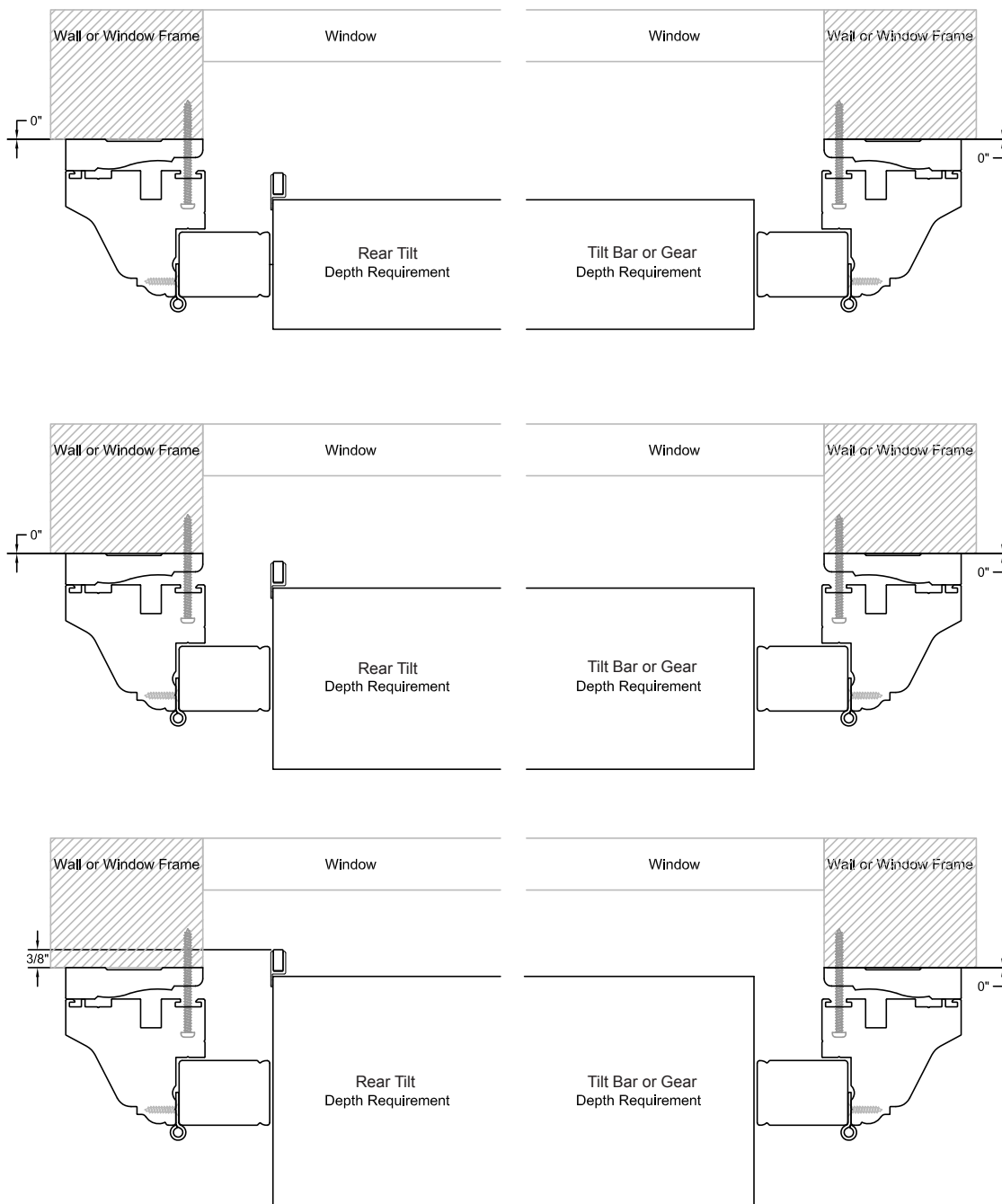
Outside Mount with S Frame

Depth Clearance

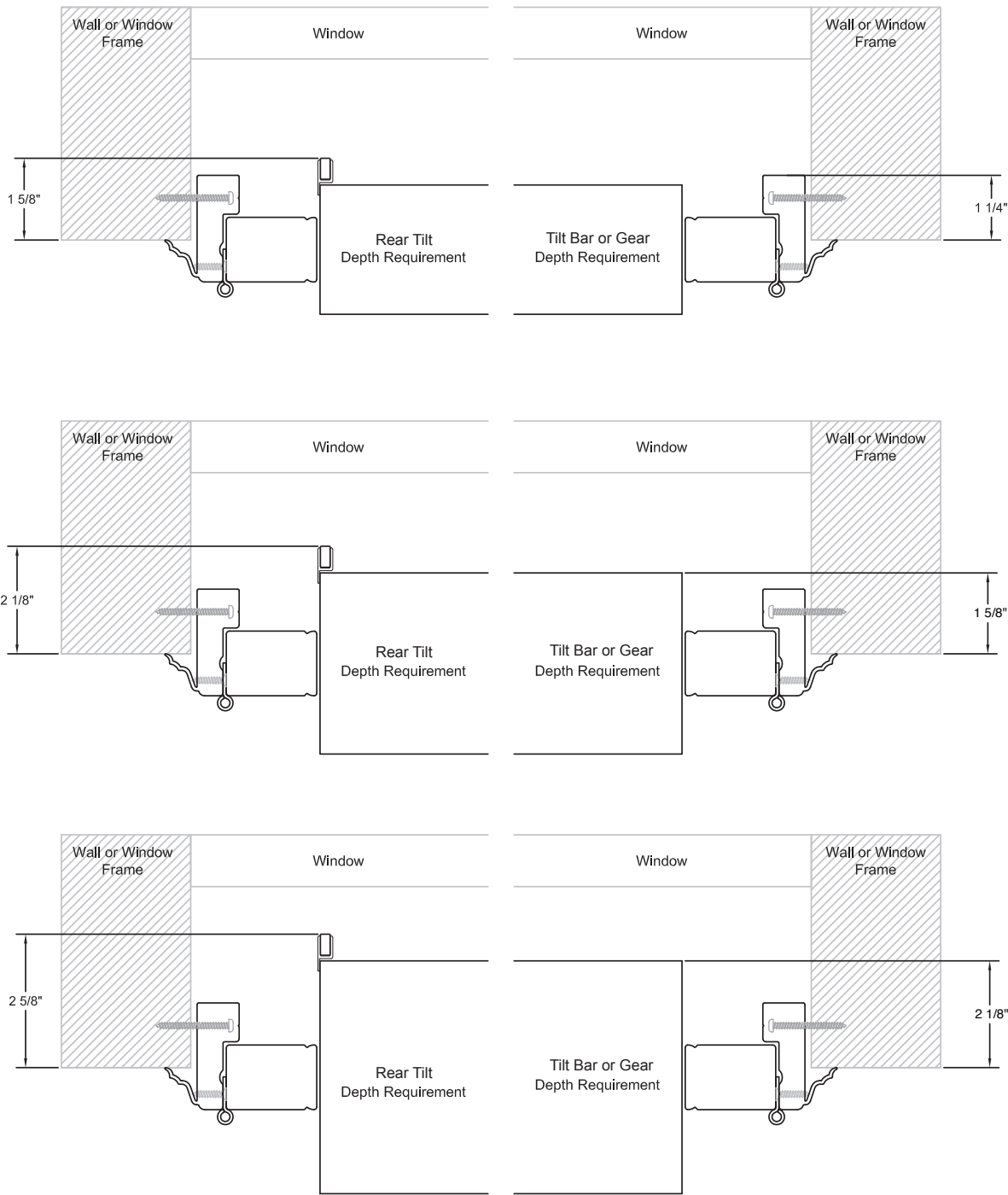With Rear Tilt

2 1/2" Louver = 3/8"
3 1/2" Louver = 7/8"
4 1/2" Louver = 1 3/8"

With Tilt Bar or Gear

2 1/2" Louver = 0"
3 1/2" Louver = 1/2"
4 1/2" Louver = 7/8"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

| | | | | | |
| Wall or Window Frame | Window | | Window | Wall or Window Frame | |

3/8"

Rear Tilt
Depth Requirement

Tilt Bar or Gear
Depth Requirement

0"

| Wall or Window Frame | Window | | Window | Wall or Window Frame |

7/8"

Rear Tilt
Depth Requirement

Tilt Bar or Gear
Depth Requirement

1/2"

| Wall or Window Frame | Window | | Window | Wall or Window Frame |

1 3/8"

Rear Tilt
Depth Requirement

Tilt Bar or Gear
Depth Requirement

7/8"

C13 ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Outside Mount on Top of Existing Trim with S Frame

Depth Clearance

With Rear Tilt

2 1/2" Louver = 0"
3 1/2" Louver = 1/4"
4 1/2" Louver = 3/4"

With Tilt Bar or Gear
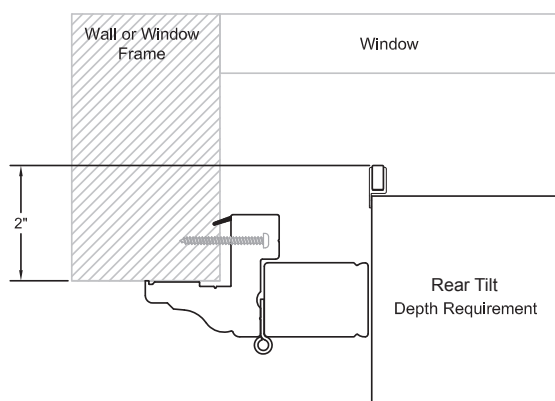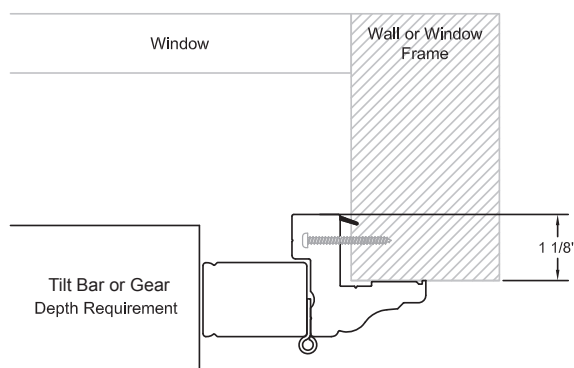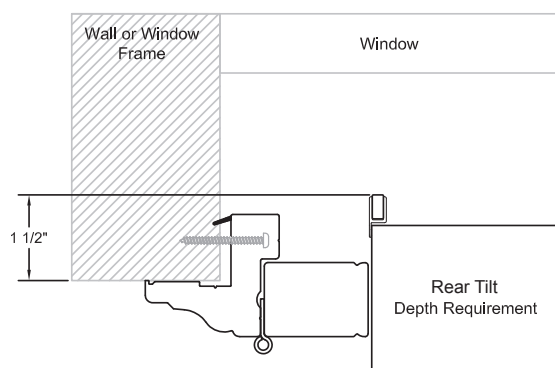
2 1/2" Louver = 0"
3 1/2" Louver = 0"
4 1/2" Louver = 3/8"

Note: *Depth clearance is the minimum window opening depth required for shutters to operate without interference.*

Window

Wall or Window Frame

0"

Rear Tilt
Depth Requirement

Window

Wall or Window Frame

0"

1/2"

Tilt Bar or Gear
Depth Requirement

Window

Wall or Window Frame

1/4"

Rear Tilt
Depth Requirement

Window

Wall or Window Frame

0"

1/2"

Tilt Bar or Gear
Depth Requirement

Window

Wall or Window Frame

3/4"

Rear Tilt
Depth Requirement

Window

Wall or Window Frame

3/8"

1/2"

Tilt Bar or Gear
Depth Requirement

ECLIPSE® C14
SHUTTERS
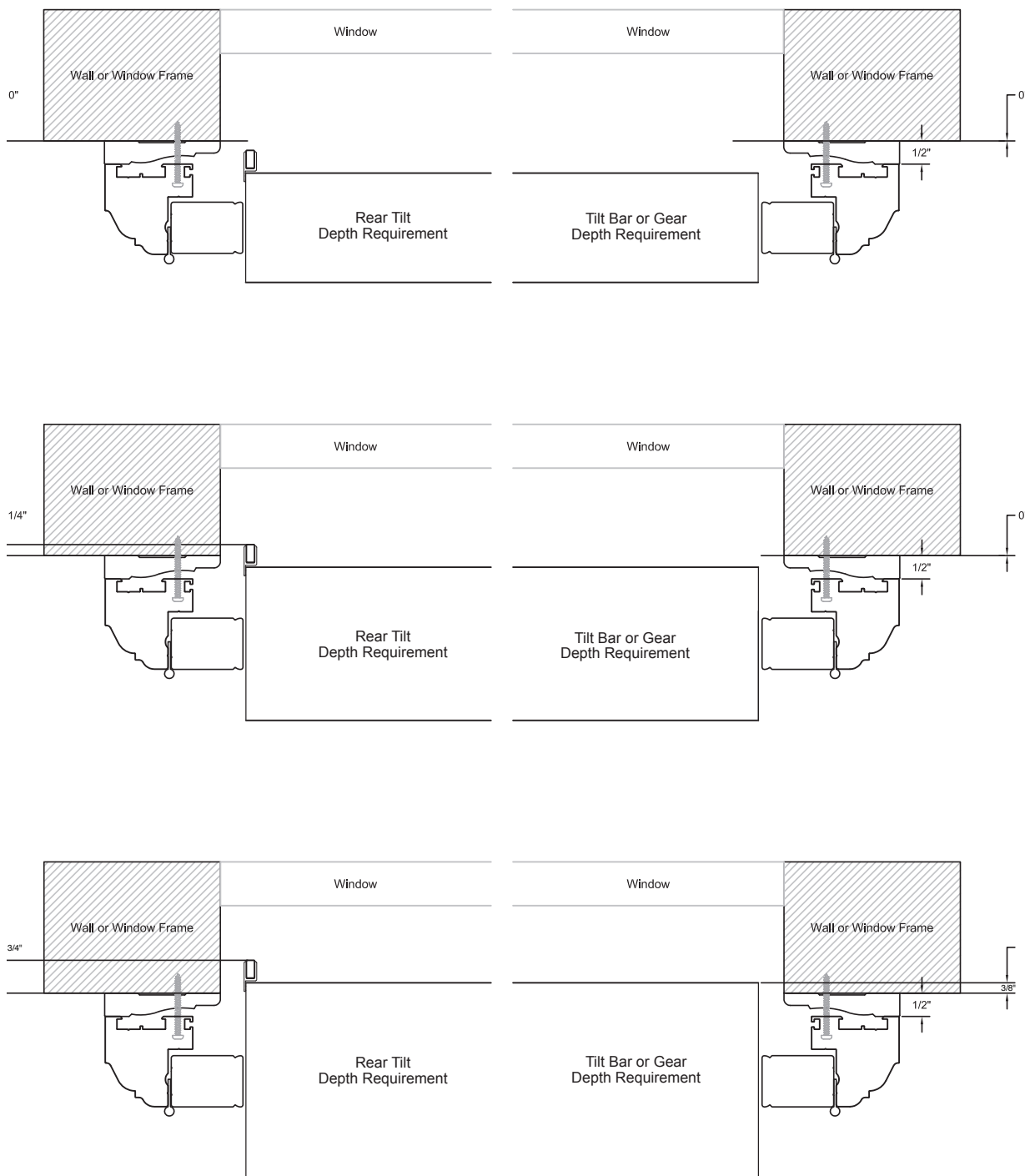
Frame Deduction Summary

	Width	
	IM Deduction No Sill	IM Deduction With Sill
Deluxe Trim Frame	1/4"	1/8"
Bullnose Z Frame with Flex	1/2"	3/8"
Trim Frame with Flex	1/2"	3/8"
Z Frame	1/4"	1/8"
Casing Sill Frame	1/8"	NA
L Frame	1/8"	NA

	Heigth	
	IM Deduction No Sill	IM Deduction With Sill
Deluxe Trim Frame	1/4"	1/8"
Bullnose Z Frame with Flex	1/2"	3/8"
Trim Frame with Flex	1/2"	3/8"
Z Frame	1/4"	1/8"
Casing Sill Frame	1/8"	NA
L Frame	1/8"	NA

	Width	
	OM Deduction No Sill	OM Deduction With Sill
Casing Frame	0"	0"
Casing Sill Frame	0"	NA
S Frame	0"	0"
S Sill Frame	0"	NA
L Frame	0"	NA

	Heigth	
	OM Deduction No Sill	OM Deduction With Sill
Casing Frame	0"	0"
Casing Sill Frame	0"	NA
S Frame	0"	0"
S Sill Frame	0"	NA
L Frame	0"	NA

ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

D

ECLIPSE®
S H U T T E R S

DESIGNING
THE RIGHT SHUTTER

- Follow the general rules below when choosing a shutter style.
- **Record all details on an Eclipse® Order Form** to ensure accurate record.
- Use a steel measuring tape to take measurements.

Options

Before measuring, discuss the various options available with your customer.
- louver size
- frames vs no frames
- color
- type of installation
- color of hinges
- inside or outside mount
- frame options
- divider rails
- tilt options:
  - tilt bar
  - rear tilt
  - gear
- shutter configuration
  - standard
  - double hung
  - café
- swing radius

Note: *Shutters are room darkening but not black-out.*

Obstructions

When measuring, account for obstructions such as protruding window cranks and window sills. Protruding cranks may be replaced with T-handles, or can be accommodated with projection mounts or outside mount (refer to Section C- Clearance Charts). Shutters may be installed on top of sills using either three or four sided frames, or using four sided L-Frames with added extensions. Use your sample panels and frames from your shop at home bag to ensure clearances.

Depth clearances

This is the depth of window jamb required for trouble free louver operation. Measure the clearance required for desired application (refer to Section C- Clearance Charts). Use your sample panels and frames from your shop at home bag to ensure proper depth.

Single panels

The minimum single panel width is 6" and the maximum single panel width is 36".

Note: *Warranty is void on oversized panels.*

Bi-fold panels (shown as LL [Left Bi-fold] or RR [Right Bi-fold])

A maximum of two panels may be hinged together. The combined widths may not exceed 48".

T Post

The 1 1/4" T Post has been designed to accept aluminum reinforcement. Aluminum reinforcement is available upon request.

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Uneven Panel Widths without a T-Post

1. Draw a sketch of the opening.
2. Measure total width and height.
   O.M.=Outside frame to outside frame
   I.M.=Opening size
3. Record number of panels and hinge style (i.e., P4-LLRR).
4. Measure from the left side:

   A. From the left edge of the frame to the right edge of the first panel for an outside mount or from the left inside opening to the right edge of the first panel for an inside mount.
   B. For any middle panels measure from the left edge to the right edge of each panel.
   C. For the right panel, measure from the left edge of the last panel to the right edge of the frame for an outside mount, or to the right inside opening for inside mount.
5. Record these measurements in the "Uneven Panel Widths Section" of the Eclipse® Order Form. The panel widths added together should equal the total overall width.
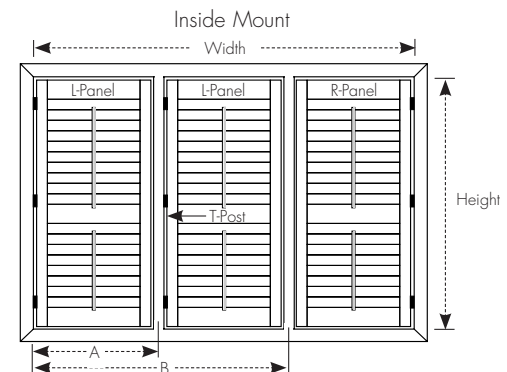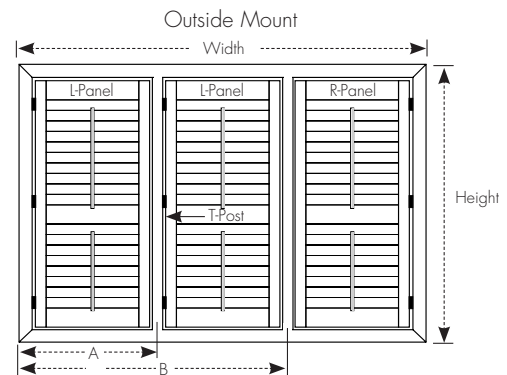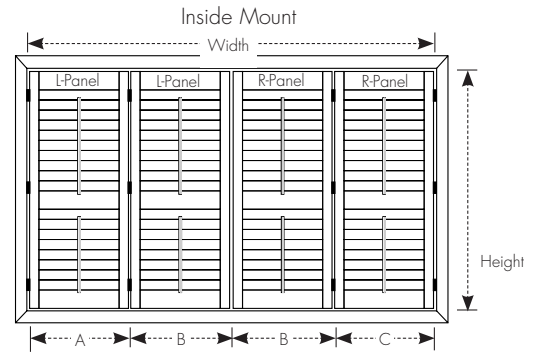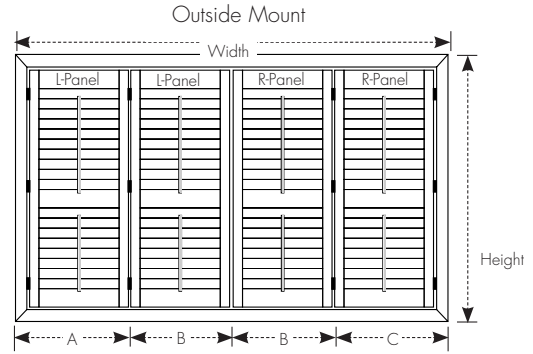
Uneven Panel Widths with T-Posts

1. Draw a sketch of the window.
2. Measure total width and height.
   O.M.=Outside frame to outside frame
   I.M.=Opening size
3. Record number of panels and hinge style (i.e., P3-LTLTR).
4. All T-Post distances are measured starting from left side of opening frame to center of each T-Post.
5. Record these measurements in the "Uneven T-Post Distances" section of the Eclipse® Order Form.

ECLIPSE®
SHUTTERS

D2

- Shutter height is made up of a unique combination of:
  1) a top rail
  2) a bottom rail
  3) a number of evenly spaced louvers
  4) a divider rail if over 66" tall

- To achieve a uniform appearance, divider rail placement, as well as maintain an equal number of louvers in adjacent shutters, all shutters must be ordered the same height.

If the height measurements differ,
apply one of the three options below:

1 For inside mount without frame, L Frame or Z Frame, reduce taller height measurement by 1/8" max.; **order shutters same height.**

2 For inside mount with Bullnose Z Frame, Trim Frame, or Deluxe Trim Frame, reduce 1/2" max. from tallest height measurement; **order shutters same height.**

3 For height adjustments of more than 1/2", go to an outside mount; **order shutters same height.**

Top Rail

Louvers

Divider Rail

Bottom Rail

D3 **ECLIPSE®** SHUTTERS
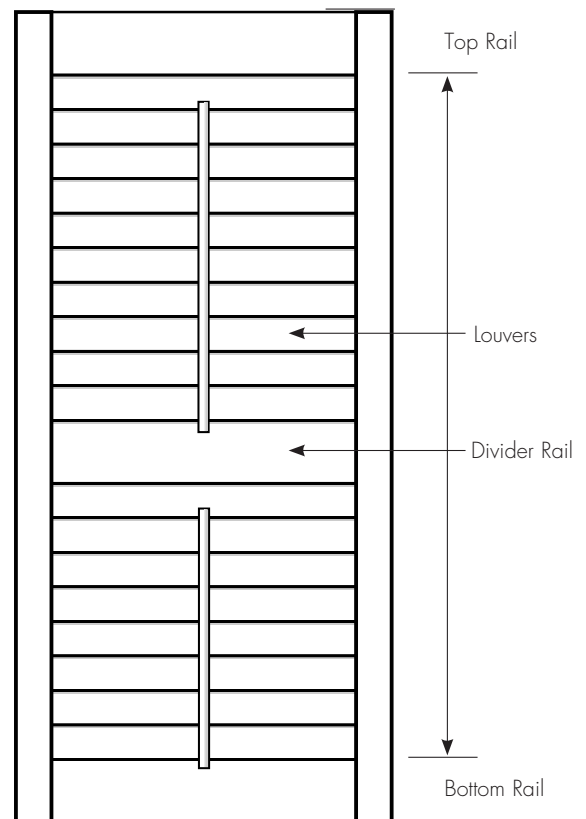
Divider rail is required if shutter panel height is over 66". A second divider rail is required if panel height is over 96". Distance between rails must be less than 66". Although added strength is the main feature of a divider rail, it also allows bottom louvers to be fully closed for privacy and top louvers open for light. Due to excessive louver overlap that may occur, there should be no less than 18" between dividers or a divider rail and top/bottom rail.

Top Operating Louvers

Divider Rail

Bottom Operating Louvers

OUTSIDE MOUNT

"Distance-up" is the distance from the bottom frame to the center of where you would like the divider rail located.

INSIDE MOUNT

"Distance-up" is the distance from the top of the sill to the center of where you would like the divider rail located.
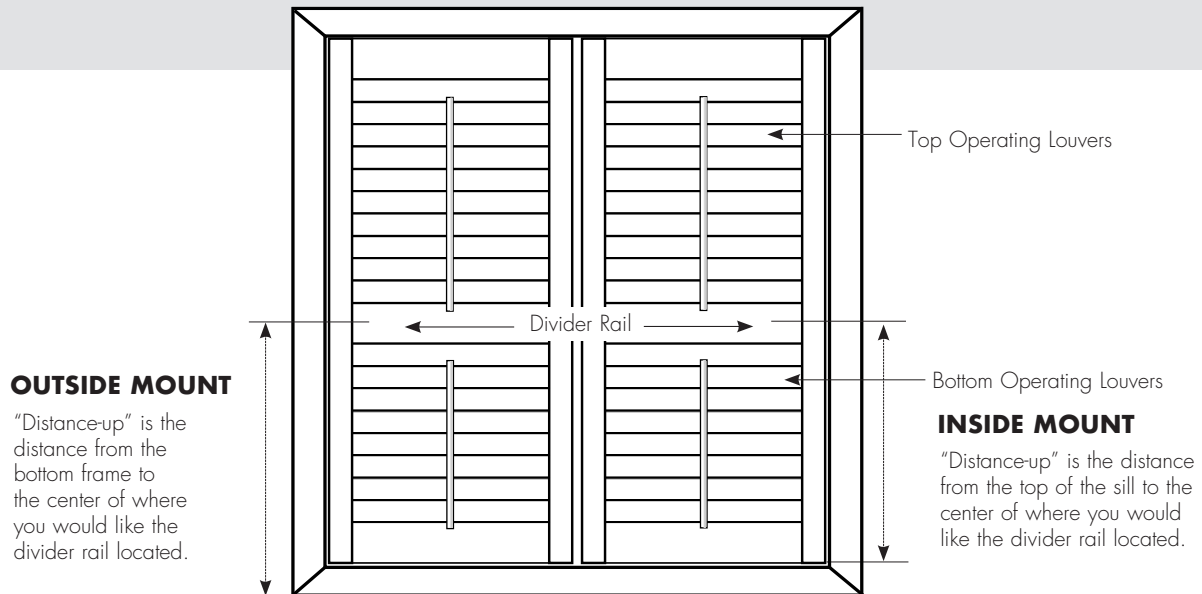
Note: *Center line location of divider rails may vary up or down by a maximum of 1 1/2". For adjacent openings to have same divider location the height must be same.*

Matching Divider Rail Locations
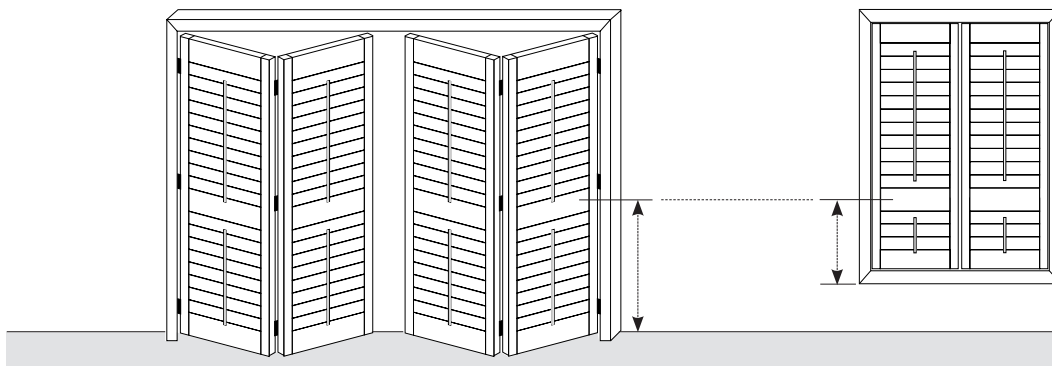
When divider rails are desired at a similar height from the floor, from window to window, or from room to room, measure height of center of divider rail from the floor up to the same point on the second window, then measure down to the bottom of the shutter. This measurement down is the "distance-up." If you require a specific divider rail location, please specify in the remarks section on the order form. If it is not possible, we will contact you with the options.

Divider Rail Width

- 2 5/8"

Louver sections
split here
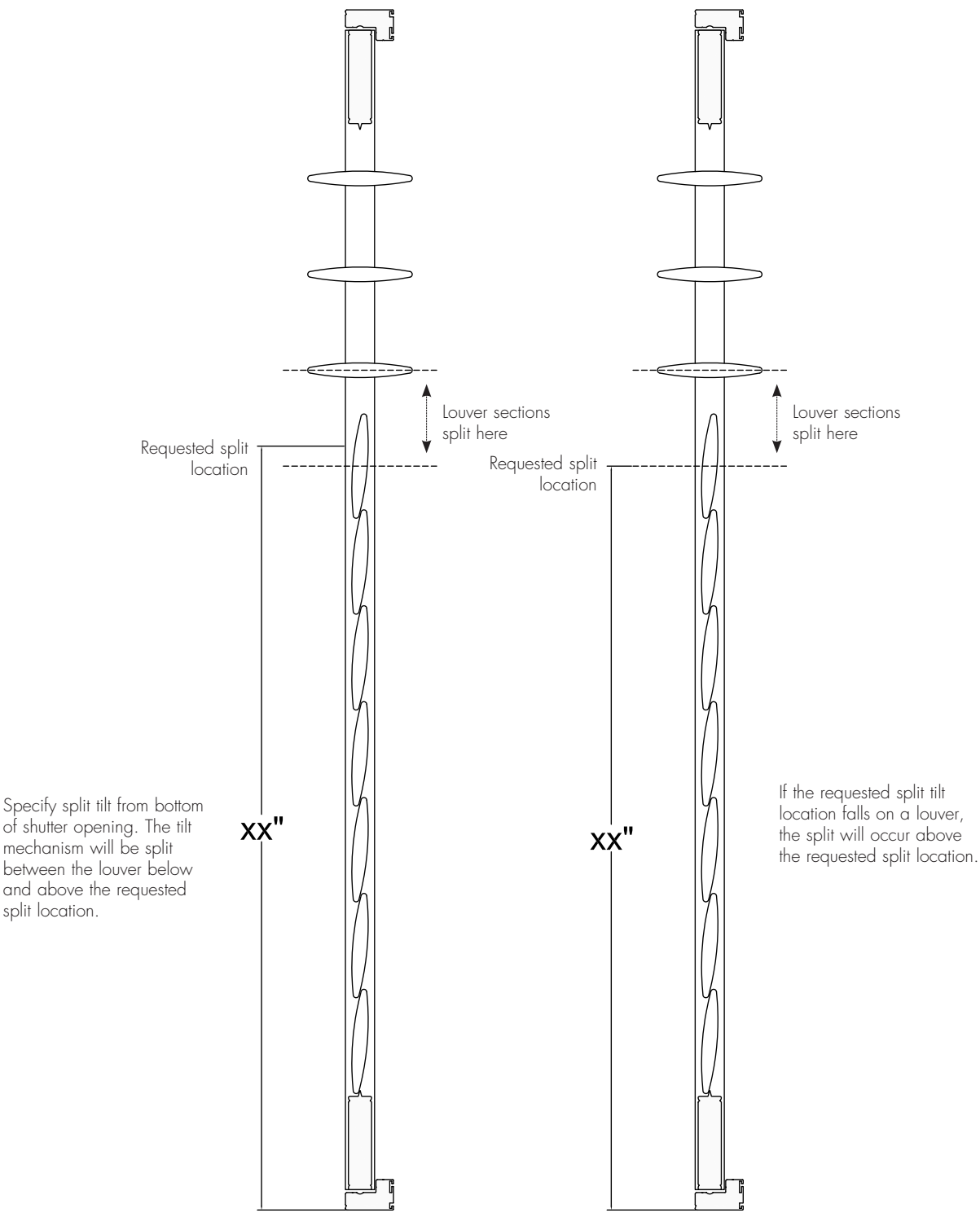
Requested split
location

Louver sections
split here

Requested split
location

Specify split tilt from bottom
of shutter opening. The tilt
mechanism will be split
between the louver below
and above the requested
split location.

If the requested split tilt
location falls on a louver,
the split will occur above
the requested split location.

XX"

XX"

** Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required
(see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.*

Two rail sizes are used for all shutters:

• Panel heights 36″ or less will have 2″ rails, but 4″ rails can be requested.

• Panel height greater than 36″ will always have 4″ rails.

• Specifications are slightly different for double hungs. Refer to page D7 for details.
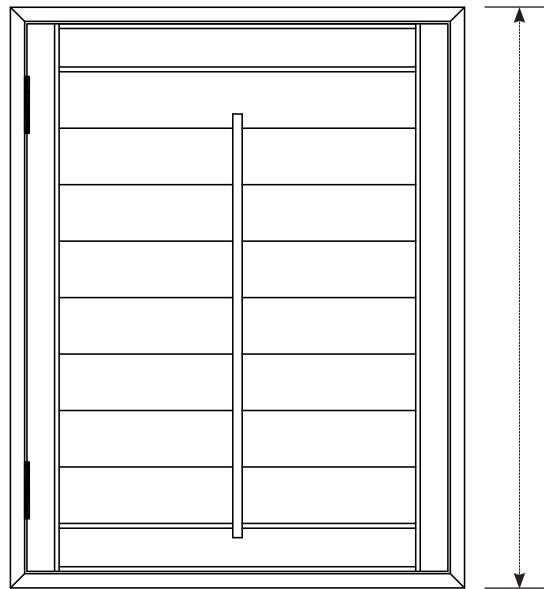
Panels 36″ in height or less have 2″ top and bottom rails.
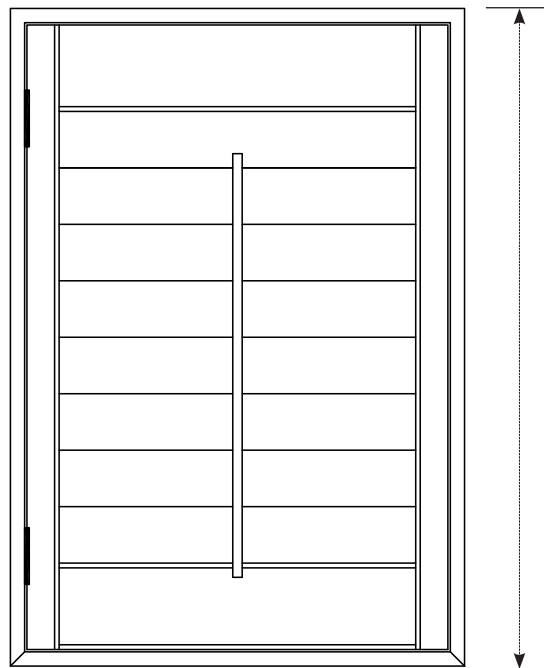
Panels over 36″ in height have 4″ top and bottom rails.

Double hung shutters are panels stacked vertically within a single framed shutter unit.

- Double hungs with no horizontal T-post include a 1/8″ gap between panels
- An optional 1 1/4″ horizontal T-post is available for added strength. (specify in the given space at the bottom right of the order form)
- Location of split between panels or the center of the horizontal T-post is required as is measured from bottom of opening.
- Minimum panel height is 16″ for both panels, which means the minimum split height is also 16″-20″ depending on frame type, T-post, etc.
- 2″ rails will be used at the top of the bottom panel and the bottom of the top panel. The remaining rails will be determined based on panel height. (over 36″ = 4″ rail or under 36″ = 2″ rail)

Top Panel

Approximate obstructed view with 2″ rails

1/8″ gap between panels

4″

5 1/2″

1 1/4″ Horizontal T-post

T-post blocks for installation

Bottom Panel
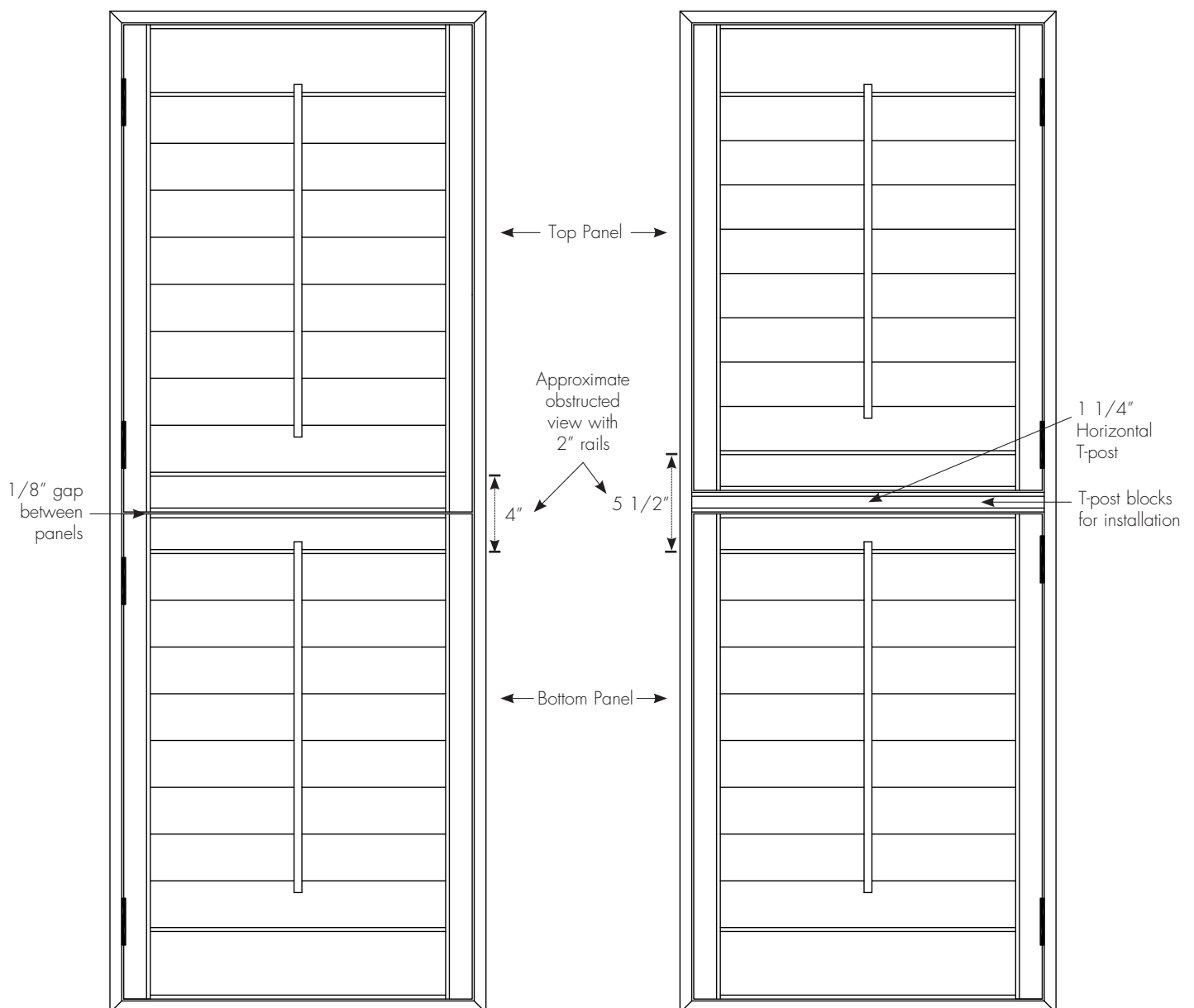
ECLIPSE®
SHUTTERS

MEASURING GUIDE

Z-Frame, Trim Frame, Bullnose Z Frame, Deluxe Trim Frame, L Frame, Mounting Strip or No Frame

1. CHOICE OF FRAME & LOUVER

- The appropriate frame will be affected by the mount type, depth clearance, existing trim, etc.
- Use samples panels, frames and color samples from the shop at home bag.
- Make sure that the chosen frame and louver size will function properly once installed into the opening.
- Ensure the chosen application will overcome any possible obstructions such as latches, cranks or windows that open into the room.
- Number of frame sides is based on the configuration and type of shutter. Four sided frames are recommended for most standard shutters.
- Frame Extensions are not available for inside mount applications.

2. INSIDE MOUNT vs. OUTSIDE MOUNT

- Check for squareness by measuring the diagonal and/or use a sample panel and place at each corner.
- If the diagonal measurements are not identical, a framed application is recommended for inside mounts. An unframed application will result in uneven light gaps.
- If the diagonal measurements are out more than 3/8″, then an outside mount is recommended.
- If the proper clearance is not available, an outside mount may be necessary for larger louvers and/or Rear Tilt.
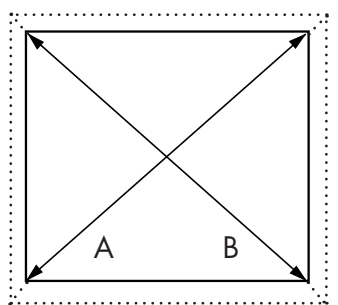
Diagonal Squareness Check

3. MEASURE INSIDE WIDTH

- Measure the width in three places (top, middle & bottom) and record the smallest measurement to 1/8″.
- For windows with vertical mullions, match the panel widths to each section of the window with or without T Posts. (See Page D2 for measuring instructions)

4. MEASURE INSIDE HEIGHT

- Measure the height in three places (left, middle & right) and record the smallest measurement to 1/8″.
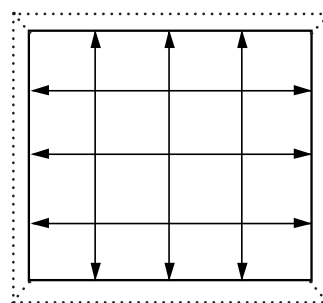
Inside Measurements

5. DIVIDER RAILS

- Measure from the bottom of the sill to the middle of the divider rail location.
- One divider rail is required for panels over 66″ in height with a maximum 66″ between the middle of the divider rail and either top or bottom rail.
- Two divider rails are required for panels over 96″ in height with a maximum 66″ between any two rails.
- Refer to Page D4 for additional divider rail measuring instructions.
- Due to excessive louver overlap that may occur, there should be no less than 18″ between dividers or a divider rail and top/bottom rail.

E1 ECLIPSE®
S H U T T E R S
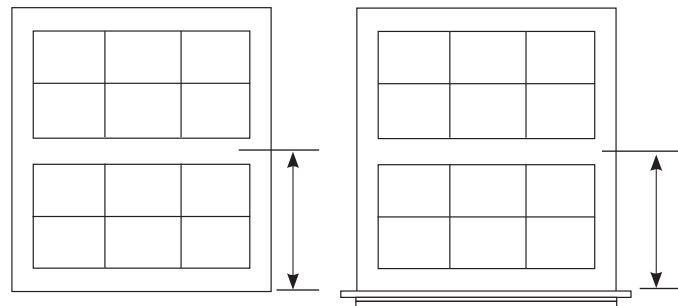
Casing Frame, S Frame or L Frame

1. CHOICE OF LOUVER & FRAME
- Use samples panels, frames and color samples from the shop at home bag.
- Make sure that the chosen frame and louver size will function properly once installed into the opening.
- Ensure the chosen application will overcome any possible obstructions such as latches, cranks or windows that open into the room.
- If windows include trim, outside mount shutters may be installed on top of, or next to the trim.
- If windows do not include trim, then the shutters are mounted where the trim would be.
- The minimum width of trim required for Casing Frame is 2 11/16", S Frame is 2", L Frame is 1 3/8". If the trim width is less than the frame width, then the frame should be extended outside of the trim, not inside the opening.
- Number of frame sides is based on the configuration and type of shutter. Four sided frames are recommended for most standard shutters.
- Depth clearance and obstructions can prevent louvers from operating properly. In order to overcome these obstacles, add the necessary frame extensions to the appropriate frame.
- Frame Extensions are available for outside mount applications. Up to (3) 1/2" extensions can be added to either frame for greater projection. (Up to (4) L Frame Extensions are available with French doors.)

2. MEASURE OUTSIDE WIDTH
If on top of trim
- Measure from outside of trim to outside of trim in three places (top, middle & bottom). Ensure the frame does not extend into the opening. Record the largest measurement to 1/8".
- If the chosen frame extends past the edge of the trim, then measure the width from outside of trim to outside of trim in three places (top, middle & bottom). Add it to the measurement that the frame extends past the trim on each side.
If no trim
- Measure the inside width in three places (top, middle & bottom). Take the largest measurement to 1/8" and add 1 3/8" per side for L Frame, 2" per frame side for S Frame, or 2 11/16" per side for Casing Frame.
if installing around trim
- Measure from outside of trim to outside of trim in three places (top, middle & bottom). Add 1 3/8" per frame side for L Frame, 2" per frame side for S Frame, or 2 11/16" per side for Casing Frame. Record the largest measurement to 1/8".

3. MEASURE OUTSIDE HEIGHT
If on top of trim
- Measure from outside of trim to outside of trim in three places (left, middle & right). Ensure the frame does not extend into the opening. Record the largest measurement to 1/8".
- If the chosen frame extends past the edge of the trim, then measure the height from outside of trim to outside of trim in three places (top, middle & bottom). Add it to the measurement that the frame extends past the trim on each side.
If no trim
- Measure the inside width in three places (top, middle & bottom). Take the largest measurement to 1/8" and add 1 3/8" per frame side for L Frame, 2" per frame side for S Frame, or 2 11/16" per side for Casing Frame.
If installing around trim
- Measure from outside of trim to outside of trim in three places (left, middle & right). Record the largest measurement to 1/8", add 1 3/8" per frame side for L Frame, 2" per frame side for S Frame, or 2 11/16" per side for Casing Frame
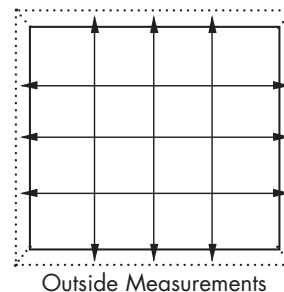
Outside Measurements

4. DIVIDER RAILS
- Measure from the bottom of the bottom frame to the middle of the divider rail location.
- One divider rail is required for panels over 66" in height with a maximum 66" between the middle of the divider rail and either top or bottom rail.
- Two divider rails are required for panels over 96" in height with a maximum 66" between any two rails.
- Refer to Page D4 for additional divider rail measuring instructions.
- Due to excessive louver overlap that may occur, there should be no less than 18" between dividers or a divider rail and top/bottom rail.

ECLIPSE® SHUTTERS E2
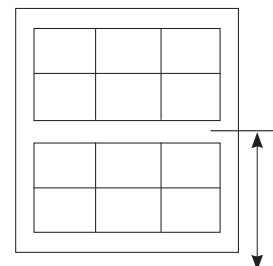
Inside Mount - Z-Frame, Trim Frame, Bullnose Z Frame, Deluxe Trim Frame, L Frame or without Frame

1. CHOICE OF LOUVER & FRAME
- Use samples panels, frames and color samples from the shop at home bag.
- Make sure that the chosen frame and louver size will function properly once installed into the opening.
- Ensure the chosen application will overcome any possible obstructions such as latches, cranks or windows that open into the room.
- The appropriate frame will be affected by the mount type, depth clearance, existing trim, etc.
- Number of frame sides is based on the configuration and type of shutter. A Patio Door does not include a bottom frame, so specify either 2 or 3 frame sides. If a four sided frame is needed, then it should be ordered as a standard shutter not a P4D.
- Four sided frames with Z Frame, Trim Frame, Bullnose Z Frame, or Deluxe Trim Frame should be specified with Sill Frame at the bottom. This should be ordered as a P4 – LLRR and not as a P4D – LLRR.

2. INSIDE MOUNT vs. OUTSIDE MOUNT
- Check for squareness by measuring the diagonal and/or use a sample panel and place at each corner.
- If the diagonal measurements are out more than 3/8", then an outside mount is recommended.
- If the proper clearance is not available, an outside mount may be necessary for larger louvers and/or the Rear Tilt system.

3. MEASURE INSIDE WIDTH
- Measure the width in three places (top, middle & bottom) and record the smallest measurement to 1/16".

4. MEASURE INSIDE HEIGHT
- Measure the height in three places (left, middle and right) and record the smallest measurement to 1/8".

5. DIVIDER RAILS
- Measure from the bottom of the sill to the middle of the divider rail location.
- One divider rail is required for panels over 66" in height with a maximum 66" between the middle of the divider rail and either top or bottom rail.
- Two divider rails are required for panels over 96" in height with a maximum 66" between any two rails.
- Refer to Page D4 for additional divider rail measuring instructions.

Patio door shutter will have 5/8" clearance along floor.
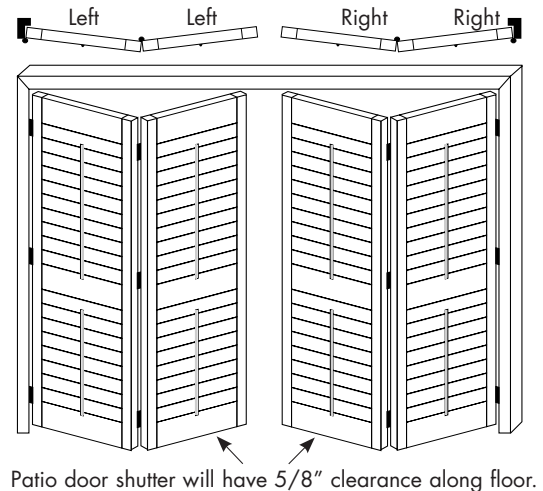
Outside Mount - L Frame, S Frame or Casing Frame

1. CHOICE OF LOUVER & FRAME

- Check for squareness by measuring the diagonal and/or use a sample panel and place at each corner.
- Use samples panels, frames and color samples from the shop at home bag.
- Make sure that the chosen frame and louver size will function properly once installed into the opening.
- Ensure the chosen application will overcome any possible obstructions such as latches, cranks or windows that open into the room.
- The appropriate frame will be affected by the mount type, depth clearance, existing trim, etc.
- The minimum width of trim required for Casing Frame is 2 11/16", S frame is 2", L Frame is 1 3/8". If the trim width is less than the frame width, then the frame should extended outside of the trim, not inside the opening.
- Number of frame sides is based on the configuration and type of shutter. Four sided frames are recommended for most standard shutters.
- Depth clearance and obstructions can prevent louvers from operating properly. In order to overcome these obstacles, add the necessary frame extensions to the appropriate frame.
- Frame Extensions are available for outside mount applications. Up to (3) 1/2" extensions can be added to either frame for greater projection. (Up to (4) L Frame Extensions available with French doors.)

2. MEASURE OUTSIDE WIDTH

- If the chosen frame can be mounted flush with the edge of the trim, then measure the width from outside of trim to outside of trim in three places (top, middle & bottom). Record the largest measurement to the 1/16".
- If the opening has no trim, then measure the inside width in three places (top, middle & bottom). Take the largest measurement to the 1/16" and add 1 3/8" per frame side for L Frame, 2" per frame side for S Frame or 2 11/16" per frame side for Casing Frame.

3. MEASURE OUTSIDE HEIGHT

- If the chosen frame can be mounted flush with the edge of the trim, then measure the height from outside of trim to the floor in three places (left, middle & right). Record the largest measurement to 1/8".
- If the opening has no trim, them measure the inside height in three places (left, middle & right). Take the largest measurement to the 1/8" and add 1 3/8" per frame side for L Frame, 2" per frame side for S Frame or 2 11/16" per frame side for Casing Frame.

4. DIVIDER RAILS

- Measure from the bottom of the sill to the middle of the divider rail location.
- One divider rail is required for panels over 66" in height with a maximum 66" between the middle of the divider rail and either top or bottom rail.
- Two divider rails are required for panels over 96" in height with a maximum 66" between any two rails.
- Refer to Page D4 for additional divider rail measuring instructions.

Patio door shutter will have 5/8" clearance along floor.

F

ECLIPSE®
S H U T T E R S

FRENCH DOOR SHUTTERS

French Door Cutout Diagram

Top Frame

Panel

Cutout Side
Upper
Frame

Hinge Side
Frame

Main Body
Cutout

Frame Plate

Cutout Side
Lower
Frame

Bottom Frame

Features:

- Available in 2 1/2", 3 1/2" and 4 1/2" louver sizes
- 4-sided L-frame only
- Optional divider rail centered on cutout
- Shutter may grow in height in order to ensure the cutout is located properly on the door handle
- Multiple frame plates to work with L-frame and multiple extensions

Dimensions:

- L-frame plate (front edge) 15 1/8"
- Main body (overall height varies based on configuration)
- Main body (width) 4 1/2"

ECLIPSE® S H U T T E R S

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

French Door with Cutout (No Divider Rail)

P1FD-L   **P1FD-R**
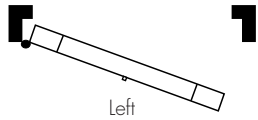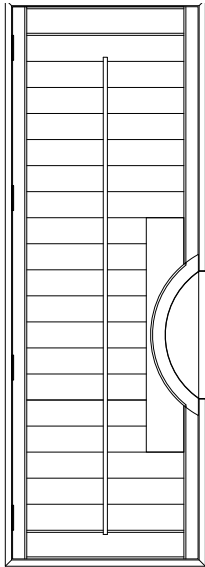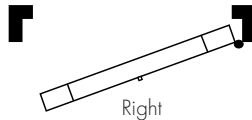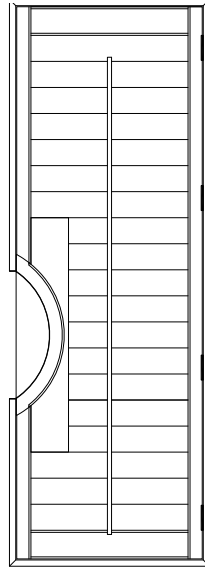
Left   Right

	2 1/2″	3 1/2″	4 1/2″
• Minimum Width:	18″	18″	18″
• Maximum Width:	36″	36″	36″
• Minimum Height:	36″	38″	40″
• Maximum Height:	96″	96″	96″
• Minimum Cutout Height:	17 ¾″	18 ¾″	19 ¾″

Notes: 4-sided frame only; Minimum Cutout Height measured from bottom of shutter frame.

French Door with Cutout (With Divider Rail)

P1FD-L   **P1FD-R**
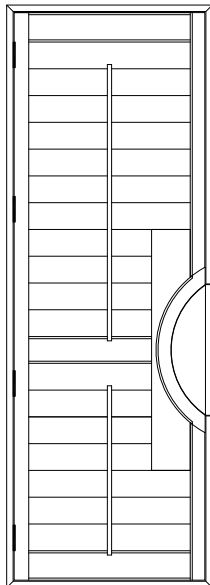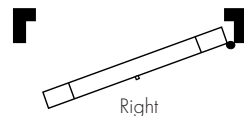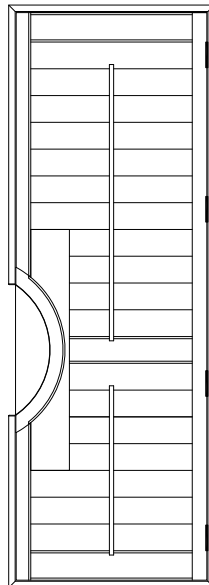
Left   Right

	2 1/2″	3 1/2″	4 1/2″
• Minimum Width:	18″	18″	18″
• Maximum Width:	36″	36″	36″
• Minimum Height:	36″	38″	40″
• Maximum Height:	96″	96″	96″
• Minimum Cutout Height:	17 ¾″	18 ¾″	19 ¾″

Notes: 4-sided frame only; Minimum Cutout Height measured from bottom of shutter frame.

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

ECLIPSE® SHUTTERS   F2

Outside Mount French Door With Cutout

Depth Clearance (No Molding Around Glass)

With Tilt Bar or Gear
2 1/2" Louver = (0) L Frame Extensions Required

With Rear Tilt
2 1/2" Louver = (1) L Frame Extension Required

L Frame &
0 Extensions

French Door

Vertical
Jamb

French
Door
Cutout

1/4" Clearance

L Frame &
1 Extensions

French Door

Vertical
Jamb

French
Door
Cutout

1/4" Clearance

F3 ECLIPSE®
SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Outside Mount French Door With Cutout

Depth Clearance (With Molding Around Glass)

With Tilt Bar or Gear
2 1/2" Louver = (1) L Frame Extension Required

With Rear Tilt
2 1/2" Louver = (2) L Frame Extensions Required

L Frame &
1 Extension

French Door

Vertical
Jamb

1/2"
Molding
Around
Glass

French
Door
Cutout

1/4" Clearance

L Frame &
2 Extensions

French Door

Vertical
Jamb

1/2"
Molding
Around
Glass

French
Door
Cutout

1/4" Clearance

ECLIPSE®
SHUTTERS
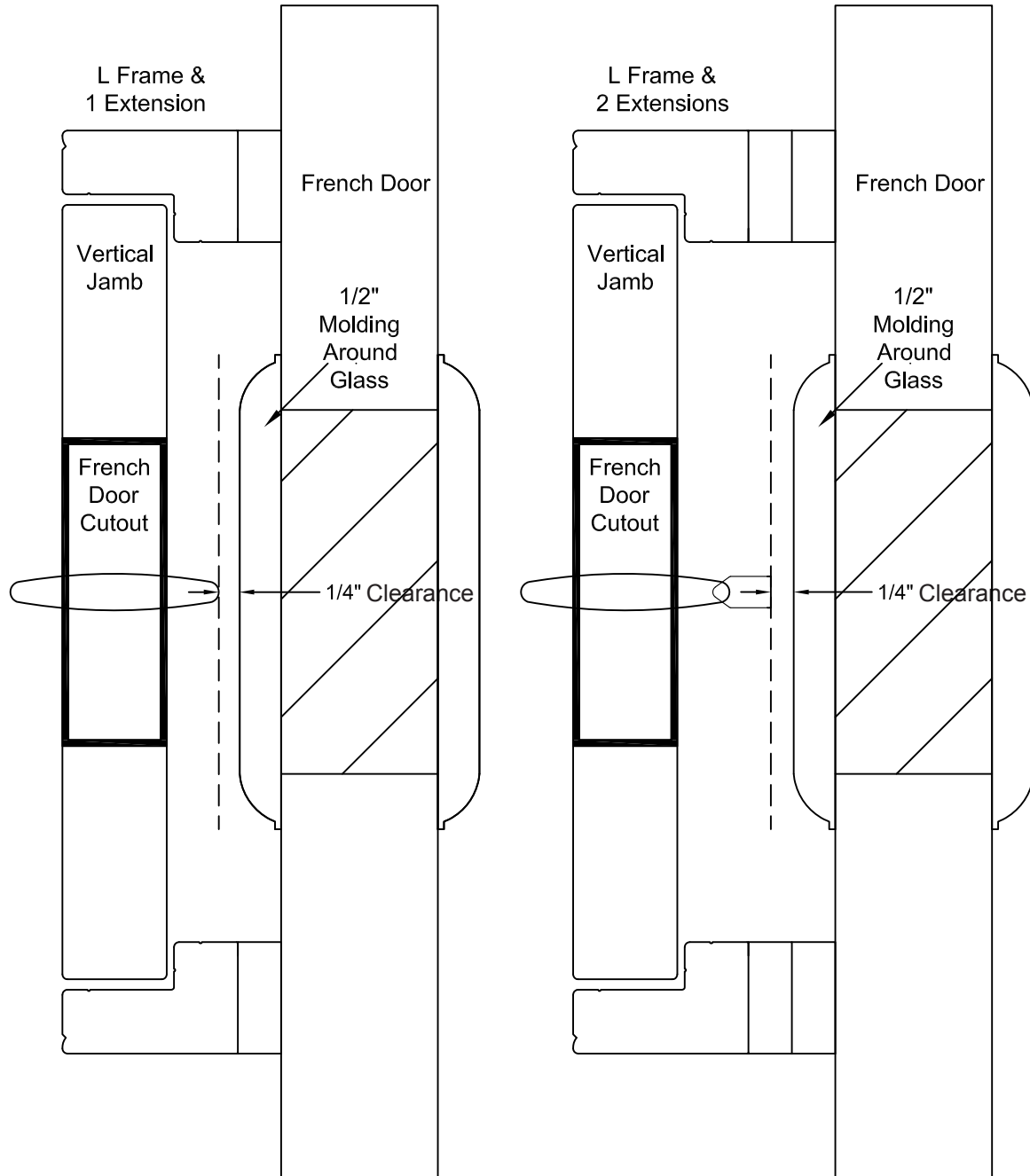
Outside Mount French Door With Cutout

Depth Clearance (No Molding Around Glass)

With Tilt Bar or Gear
3 1/2" Louver = (1) L Frame Extension Required

With Rear Tilt
3 1/2" Louver = (2) L Frame Extensions Required
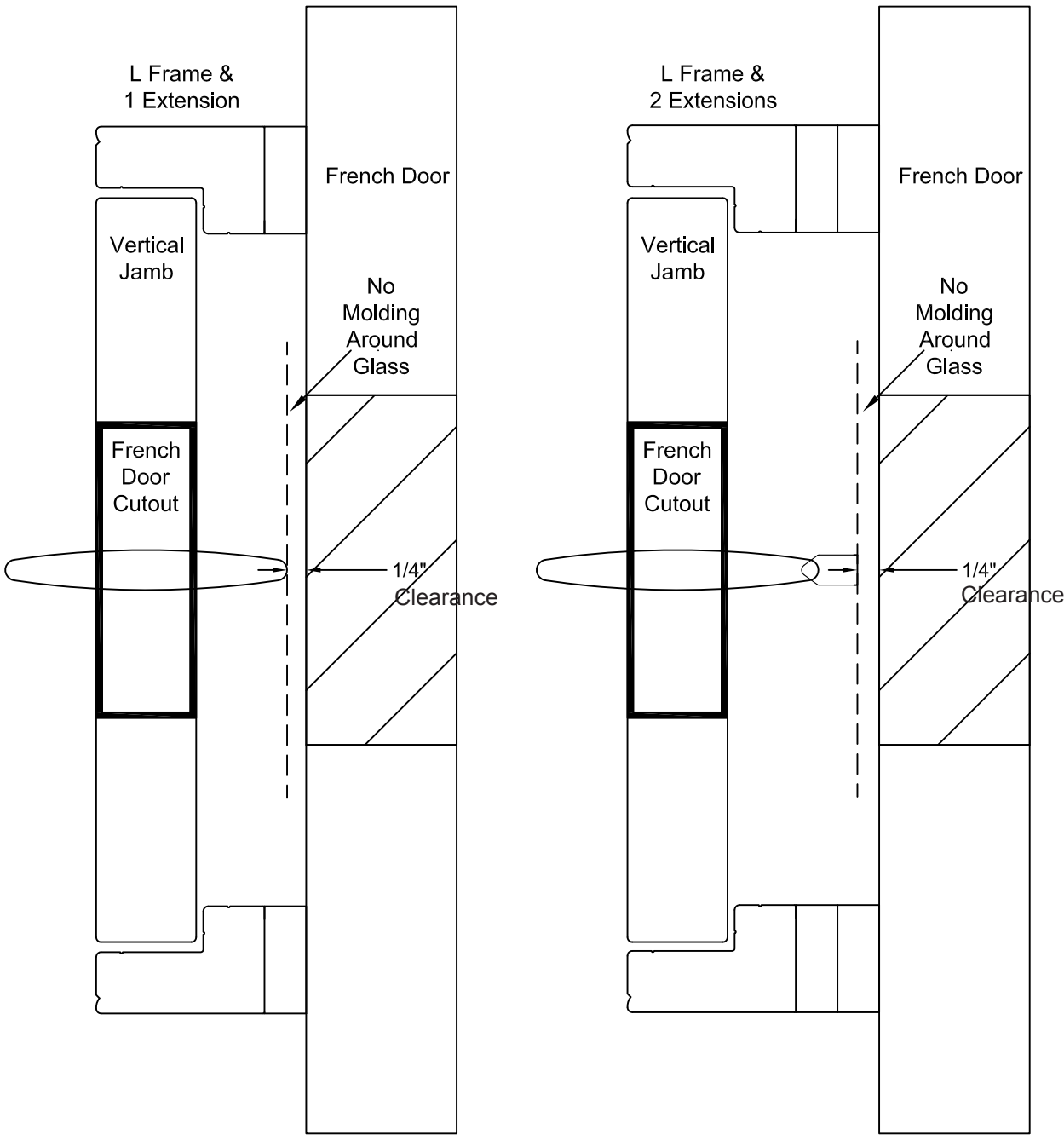
L Frame &
1 Extension

French Door

Vertical
Jamb

No
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

L Frame &
2 Extensions

French Door

Vertical
Jamb

No
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

ECLIPSE®
SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Outside Mount French Door With Cutout

Depth Clearance (With Molding Around Glass)

With Tilt Bar or Gear
3 1/2" Louver = (2) L Frame Extension Required

With Rear Tilt
3 1/2" Louver = (3) L Frame Extensions Required
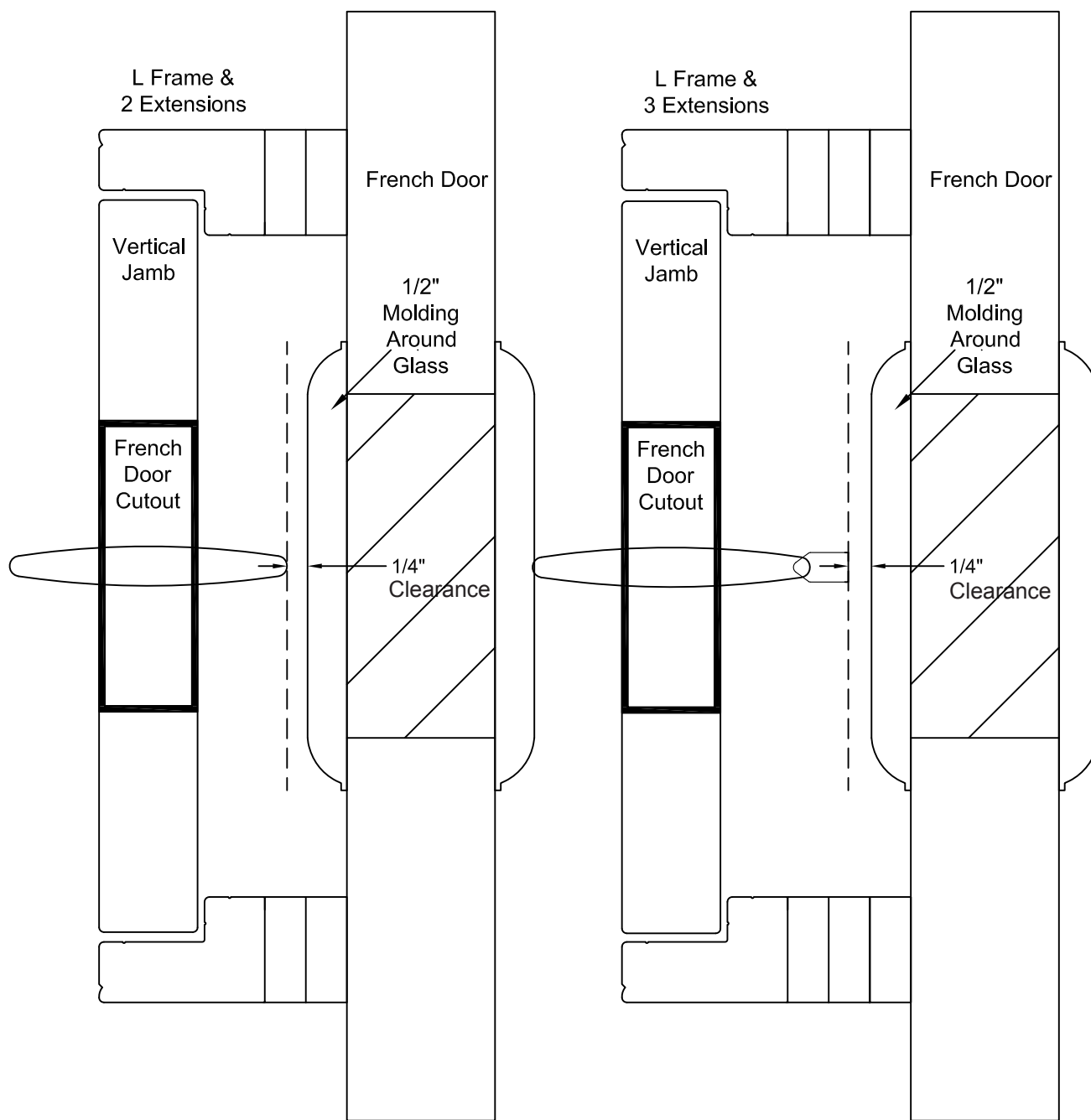
L Frame &
2 Extensions

Vertical
Jamb

French Door

1/2"
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

L Frame &
3 Extensions

Vertical
Jamb

French Door

1/2"
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Outside Mount French Door With Cutout

Depth Clearance (No Molding Around Glass)

With Tilt Bar or Gear
4 1/2″ Louver = (2) L Frame Extension Required

With Rear Tilt
4 1/2″ Louver = (3) L Frame Extensions Required
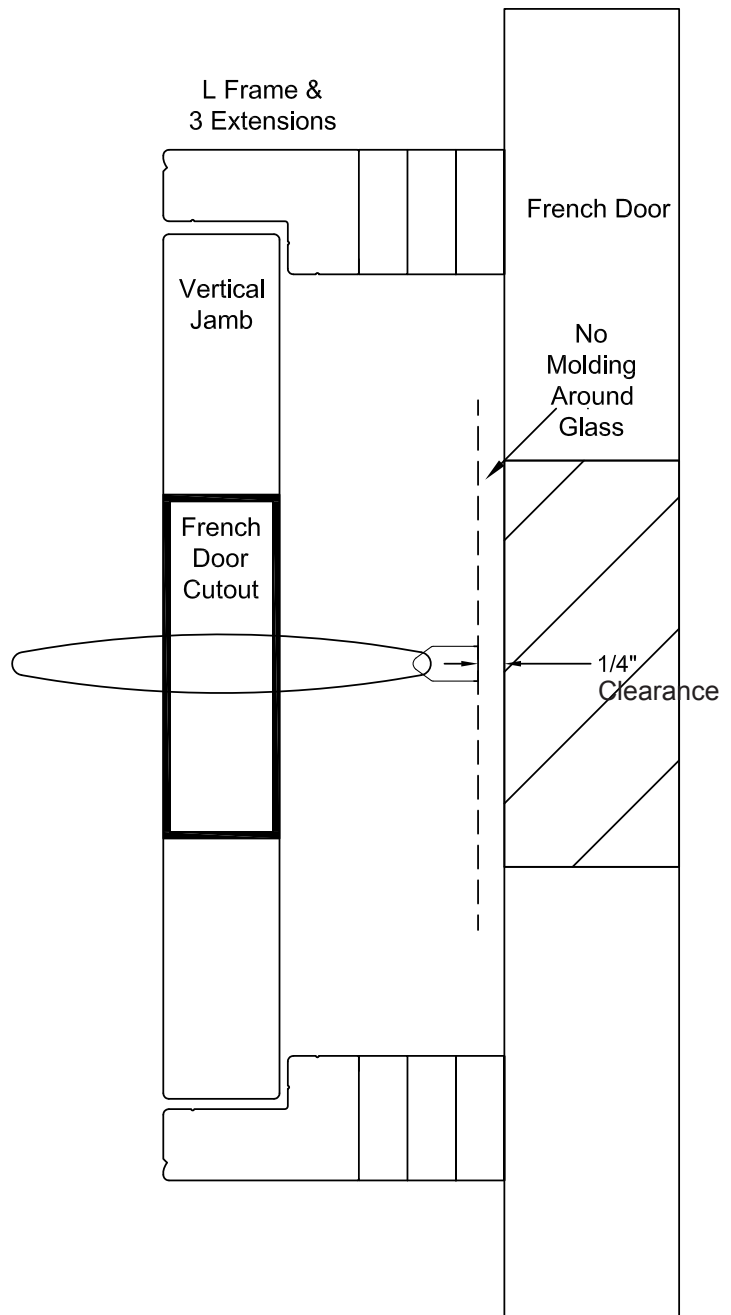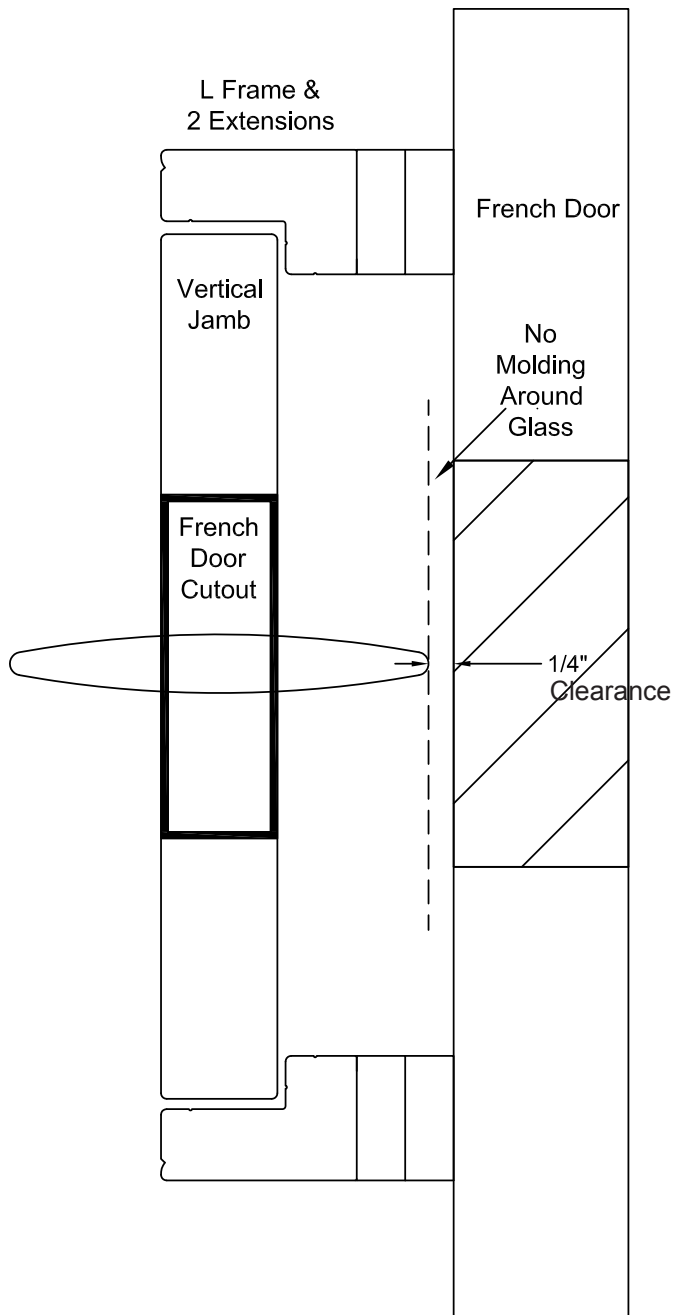
L Frame &
2 Extensions

French Door

Vertical
Jamb

No
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

L Frame &
3 Extensions

French Door

Vertical
Jamb

No
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

ECLIPSE®
SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Outside Mount French Door With Cutout

Depth Clearance (With Molding Around Glass)

With Tilt Bar or Gear
4 1/2" Louver = (3) L Frame Extension Required

With Rear Tilt
4 1/2" Louver = (4) L Frame Extensions Required

L Frame &
3 Extensions

French Door

Vertical
Jamb

1/2"
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

L Frame &
4 Extensions

French Door

Vertical
Jamb

1/2"
Molding
Around
Glass

French
Door
Cutout

1/4"
Clearance

ECLIPSE®
SHUTTERS

F8
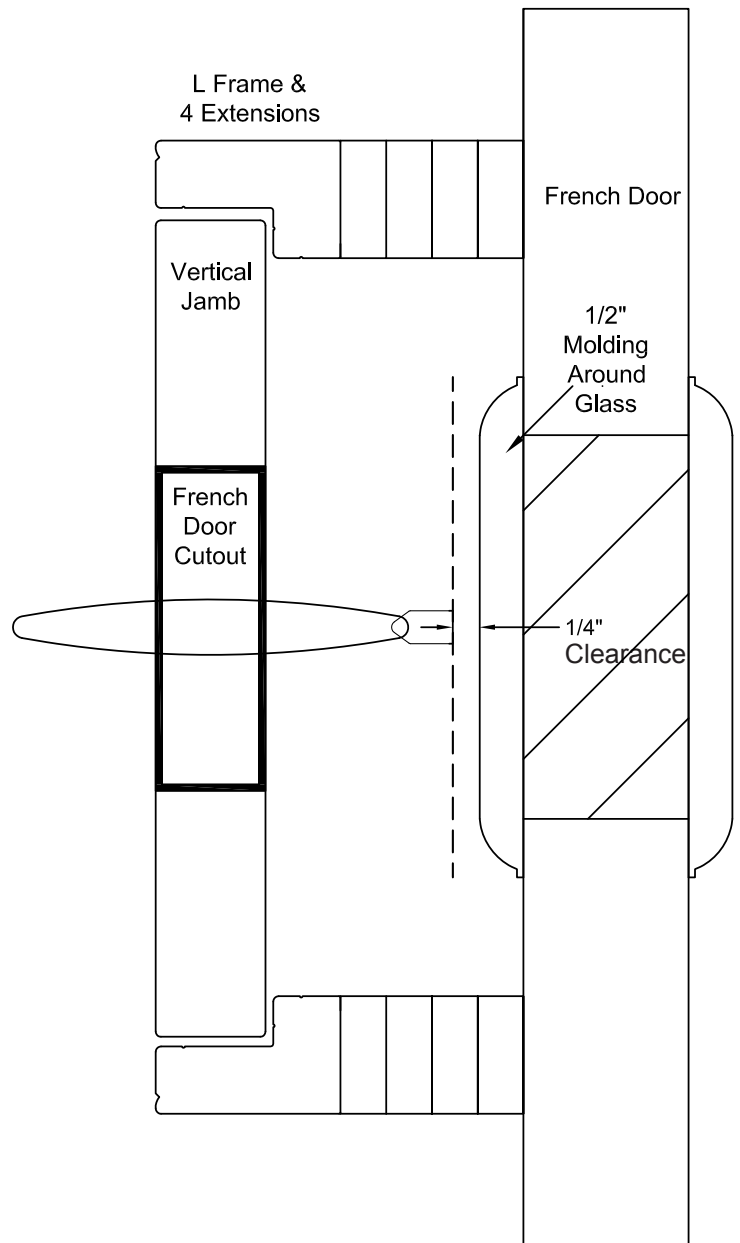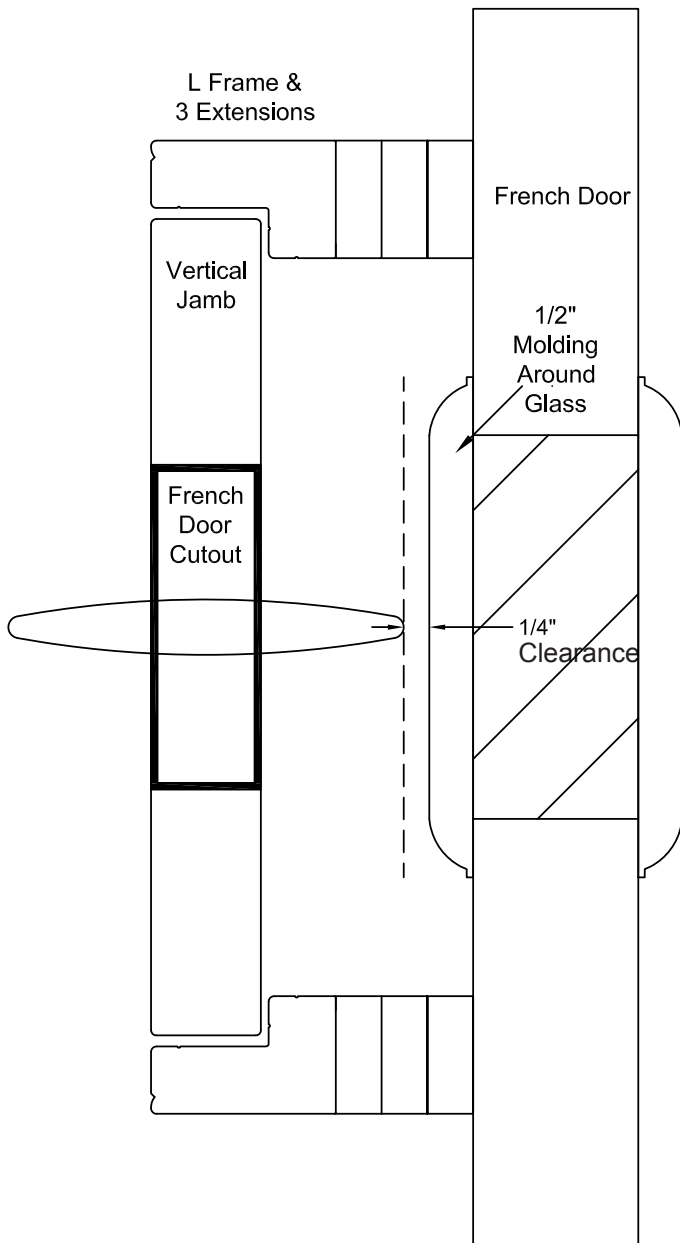
French Door Extension Requirement Summary

No Molding Around Glass

		P1FD-CR	P1FD-L	P1FD-R	P1FD-R	P1FD-L
2 1/2" Louver	Cutout	No	No	No	Yes	Yes
	Tilt Bar/Gear	0 Extensions	0 Extensions	0 Extensions	0 Extensions	0 Extensions
	Frame Plate	NA	NA	NA	L Frame + 0 Ext	L Frame + 0 Ext
	Cutout	No	No	No	Yes	Yes
	Rear Tilt	1 Extensions	1 Extensions	1 Extensions	1 Extensions	1 Extensions
	Frame Plate	NA	NA	NA	L Frame + 1 Ext	L Frame + 1 Ext
3 1/2" Louver	Cutout	No	No	No	Yes	Yes
	Tilt Bar/Gear	1 Extensions	1 Extensions	1 Extensions	1 Extensions	1 Extensions
	Frame Plate	NA	NA	NA	L Frame + 1 Ext	L Frame + 1 Ext
	Cutout	No	No	No	Yes	Yes
	Rear Tilt	2 Extensions	2 Extensions	2 Extensions	2 Extensions	2 Extensions
	Frame Plate	NA	NA	NA	L Frame + 2 Ext	L Frame + 2 Ext
4 1/2" Louver	Cutout	No	No	No	Yes	Yes
	Tilt Bar/Gear	2 Extensions	2 Extensions	2 Extensions	2 Extensions	2 Extensions
	Frame Plate	NA	NA	NA	L Frame + 2 Ext	L Frame + 2 Ext
	Cutout	No	No	No	Yes	Yes
	Rear Tilt	3 Extensions	3 Extensions	3 Extensions	3 Extensions	3 Extensions
	Frame Plate	NA	NA	NA	L Frame + 3 Ext	L Frame + 3 Ext

Molding Around Glass

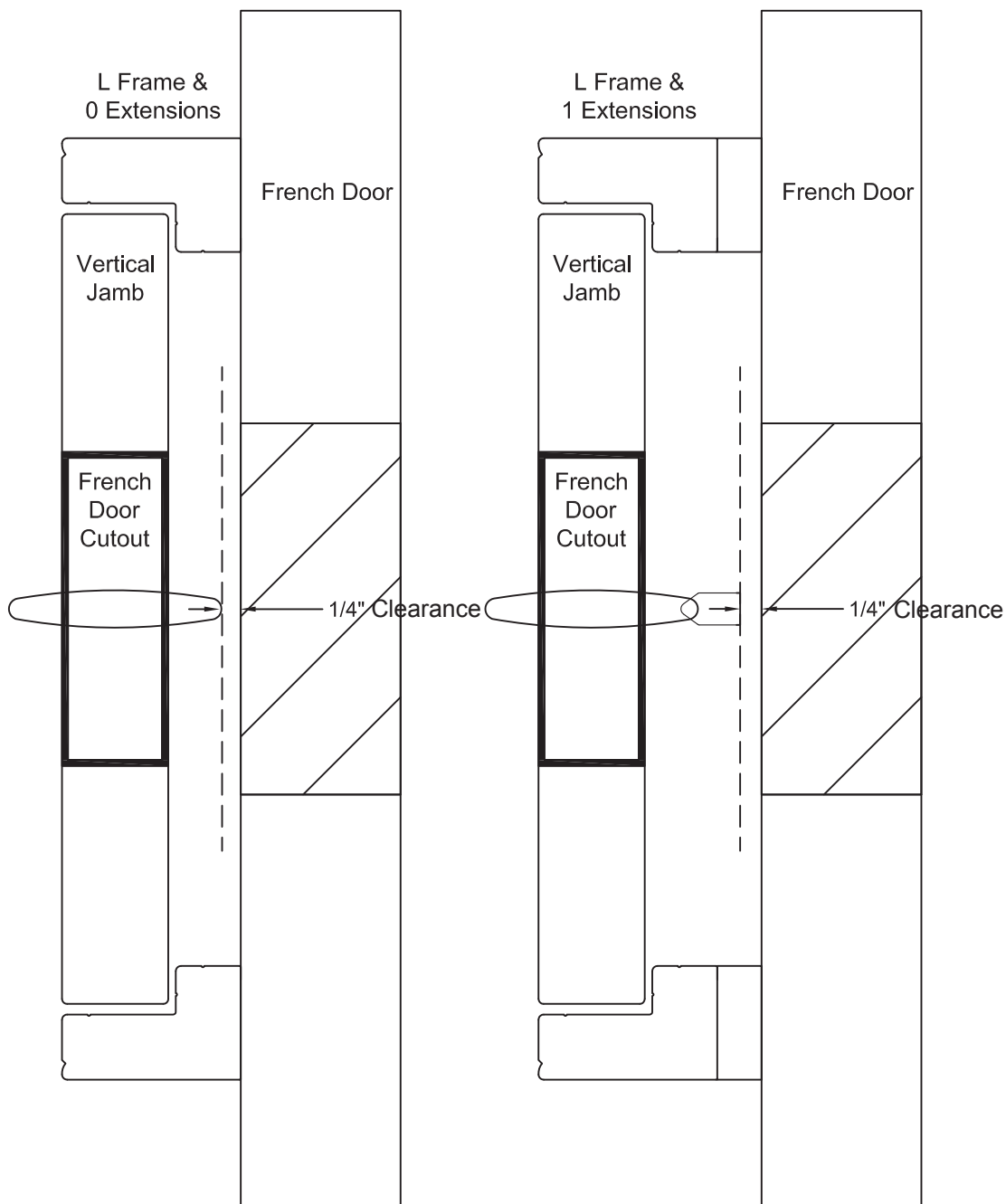|		P1FD-CR	P1FD-L	P1FD-R	P1FD-R	P1FD-L
2 1/2" Louver	Cutout	No	No	No	Yes	Yes
	Tilt Bar/Gear	1 Extensions	1 Extensions	1 Extensions	1 Extensions	1 Extensions
	Frame Plate	NA	NA	NA	L Frame + 0 Ext	L Frame + 0 Ext
	Cutout	No	No	No	Yes	Yes
	Rear Tilt	2 Extensions	2 Extensions	2 Extensions	2 Extensions	2 Extensions
	Frame Plate	NA	NA	NA	L Frame + 1 Ext	L Frame + 1 Ext
3 1/2" Louver	Cutout	No	No	No	Yes	Yes
	Tilt Bar/Gear	2 Extensions	2 Extensions	2 Extensions	2 Extensions	2 Extensions
	Frame Plate	NA	NA	NA	L Frame + 1 Ext	L Frame + 1 Ext
	Cutout	No	No	No	Yes	Yes
	Rear Tilt	3 Extensions	3 Extensions	3 Extensions	3 Extensions	3 Extensions
	Frame Plate	NA	NA	NA	L Frame + 2 Ext	L Frame + 2 Ext
4 1/2" Louver	Cutout	NA	NA	NA	Yes	Yes
	Tilt Bar/Gear	NA	NA	NA	3 Extensions	3 Extensions
	Frame Plate	NA	NA	NA	L Frame + 2 Ext	L Frame + 2 Ext
	Cutout	NA	NA	NA	Yes	Yes
	Rear Tilt	NA	NA	NA	4 Extensions	4 Extensions
	Frame Plate	NA	NA	NA	L Frame + 3 Ext	L Frame + 3 Ext

Note: Shutters with 3 or 4 extensions will require longer screws to be provided by installer.

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

Outside Mount - Four Sided L-Frame on Top or Around the Molding

1. CHOICE OF LOUVER & FRAME

- Use samples panels, frames and color samples from the shop at home bag.
- Make sure that the chosen frame and louver size will function properly once installed into the opening.
- Ensure the chosen application will overcome any possible obstructions.
- Four sided L-Frame is used for this French Door application.
- Depth clearance and obstructions can prevent louvers from operating properly. In order to overcome these obstacles, add the necessary number of L-Frame Extensions.
- L-Frame Extensions are available for outside mount applications only. Up to (4) 1/2" extensions can be added to the L-Frame.

2. MEASURE OUTSIDE WIDTH (A)

- If mounting on top of molding, then measure outside of molding to outside of molding in three places (top, middle & bottom). Molding should be a minimum of 1 3/8" so that it is wider than the shutter frame. Record the largest measurements to 1/8".
- If mounting around the molding, then measure the outside width of the molding. Add 2 3/4" to the width and record the measurements to 1/8".

3. MEASURE OUTSIDE HEIGHT (B)

- If mounting on top of molding, then measure outside of molding to outside of molding in three places (left, middle & right). Molding should be a minimum of 1 3/8" so that it is wider than the shutter frame. Record the largest measurements to 1/8".
- If mounting around the molding, then measure the outside width of the molding. Add 2 3/4" to the height and record the measurements to 1/8".

4. MEASURE HEIGHT OF MOLDING

- Measure the height or projection of the molding that protrudes from the door, and note on the order form.

5. CUTOUT HEIGHT (C or D)

- Measure from the bottom of the molding to the middle of the desired cutout location, then add 1 3/8" for the L Frame at the bottom of the shutter.
- The cutout can be centered on the door handle ("C") or centered between the door handle and the deadbolt ("D").
- An optional divider rail may be ordered. The divider rail will be positioned on center of the cutout.

6. FRAME EXTENSIONS

- Refer to the clearance charts for the appropriate number of extensions based on the louver size, tilt mechanism, and whether or not there is molding around the glass that protrudes into the room.
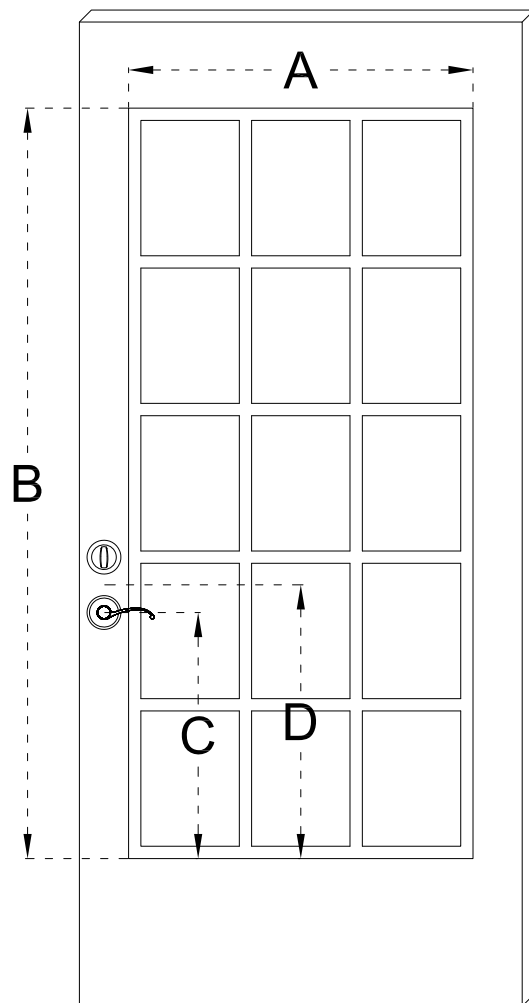
Note: Actual shutter height may be increased. This allows the shutter to be moved up or down in order to center the cutout as needed.

ECLIPSE® **F10**
SHUTTERS

French Door Shutters with Cutouts

1. FRAME ASSEMBLY
- In order to prevent shipping damage, the panel and frame should ship as a fully assembled unit.
- The frame will be completely assembled and ready to install, including the frame plate located on the cutout side of the shutter.

2. FRAME INSTALLATION
- Partially set an installation screw into the upper cutout side frame and upper hinge side frames.
- Set the frame against the door to check position of the frame and the alignment of the cutout to the handle or between the handle and the deadbolt.
- Level the top frame and set the cutout side screw. Ensure the centerline of the frame plate will align with the handle and the outside edge of the frame plate will cover the glass but not interfere with the handle.
- Set the top hinge side screw, making sure the top frame is level.
- Set the panel in the frame and verify location and operation. Move the bottom frame left or right to achieve best possible operation of the panel.
- Install screws on the lower frame side below the cutout and check operation of panel.
- Continue setting screws and checking operation of panel.
- Install button plugs once all screws have been set.
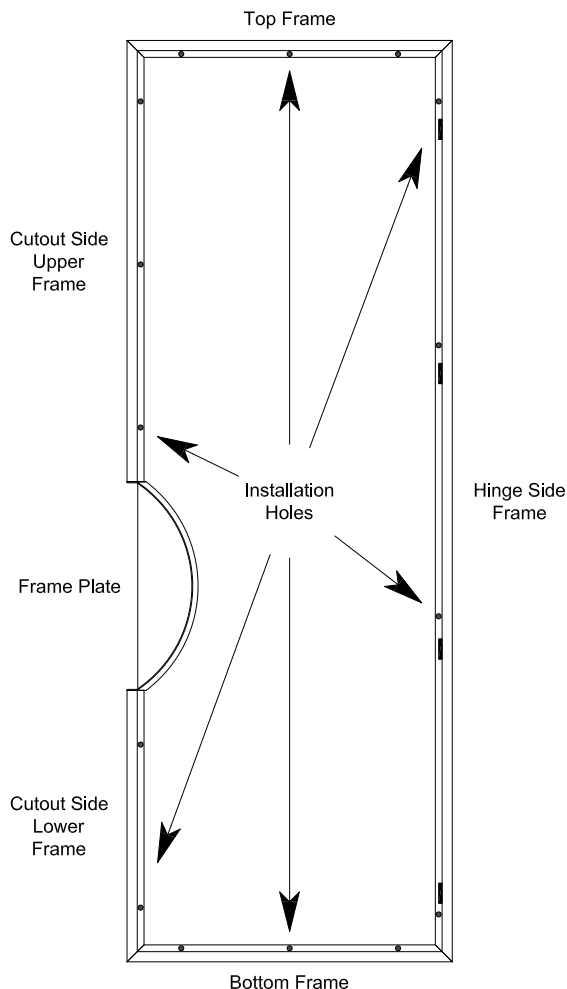
3. SIDE BY SIDE FRENCH DOORS
- The installation method remains the same for both shutters in a side by side installation.
- Begin by installing the shutter on the door with an operational handle. If both handles operate choose either door.
- Install the first shutter as described above.
- Once the first shutter is complete, place a long level on the top frame of the installed shutter. Allow the level to hang across the face of the second door.
- Begin installing the second frame and make sure the top frame aligns with the level, and thus the first shutter.
- Finish installing second shutter as described above.

Top Frame

Cutout Side Upper Frame

Frame Plate

Installation Holes

Hinge Side Frame

Cutout Side Lower Frame

Bottom Frame

Centerline

ECLIPSE® SHUTTERS
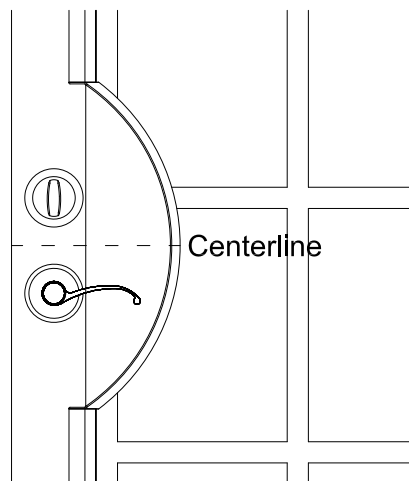
French Door with Catch Receivers (No Cutout)

P1FD-CR (2-sided Top and Bottom Frame)

L-Frame

Vertical
Jamb

Catch Receiver
Location
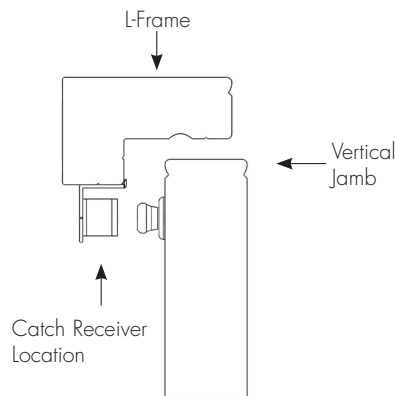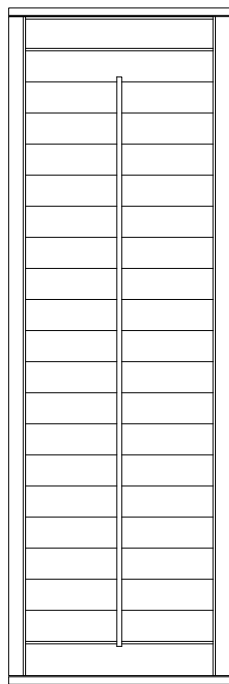
	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	7"	7"	7"
• Maximum Width:	36"	36"	36"
• Minimum Height:	16"	16"	16"
• Maximum Height:	96"	96"	96"

Note: PIFD-CR

- *For 2 1/2" louvers, one L-Frame extension is included unless otherwise requested.*
- *For 3 1/2" louvers, two L-Frame extensions are included unless otherwise requested.*

French Door Hinged (No Cutout)

P1FD-L

P1FD-R
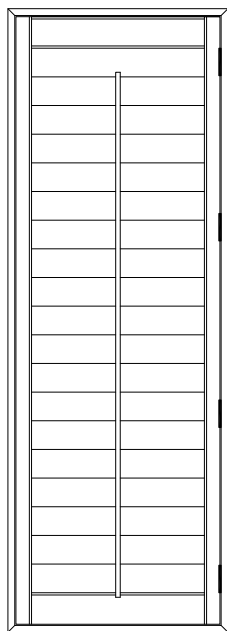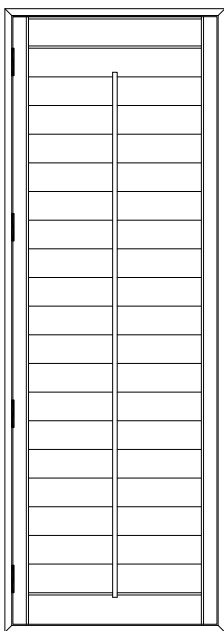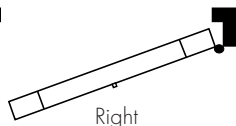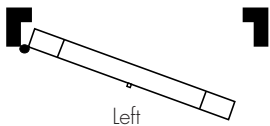
Left

Right

	2 1/2"	3 1/2"	4 1/2"
• Minimum Width:	7"	7"	7"
• Maximum Width:	36"	36"	36"
• Minimum Height:	16"	16"	16"
• Maximum Height:	120"	120"	120"

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

ECLIPSE®
SHUTTERS F12

Outside Mount French Door - Catch Receivers

Depth Clearance (No Molding Around Glass)

With Tilt Bar or Gear
2 1/2" Louver = (0) L Frame Extensions Required
3 1/2" Louver = (1) L Frame Extension Required
4 1/2" Louver = Not Available

With Rear Tilt
2 1/2" Louver = (1) L Frame Extension Required
3 1/2" Louver = (2) L Frame Extensions Required
4 1/2" Louver = Not Available

2 1/2" Louver

French Door

L Frame

Vertical Jamb

3/4" Mounting Strip

1/4" Clearance

3 1/2" Louver

French Door

L Frame + 1 Extension

Vertical Jamb

3/4" Mounting Strip

1/4" Clearance

Note: 3/4" x 3/4" Mounting Strip is included on the back side of each jamb. Additional Mounting Strip may be requested on the order, which can be used to fill any remaining light gap.

ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.
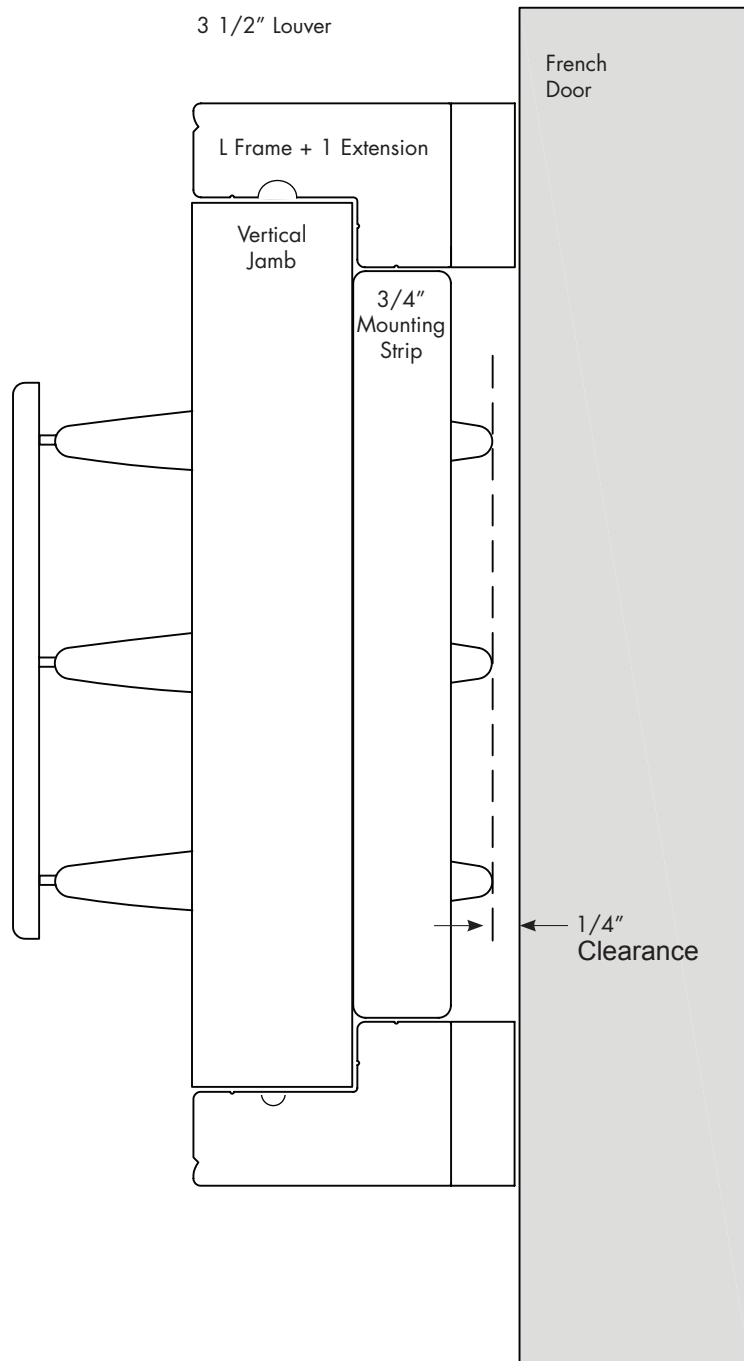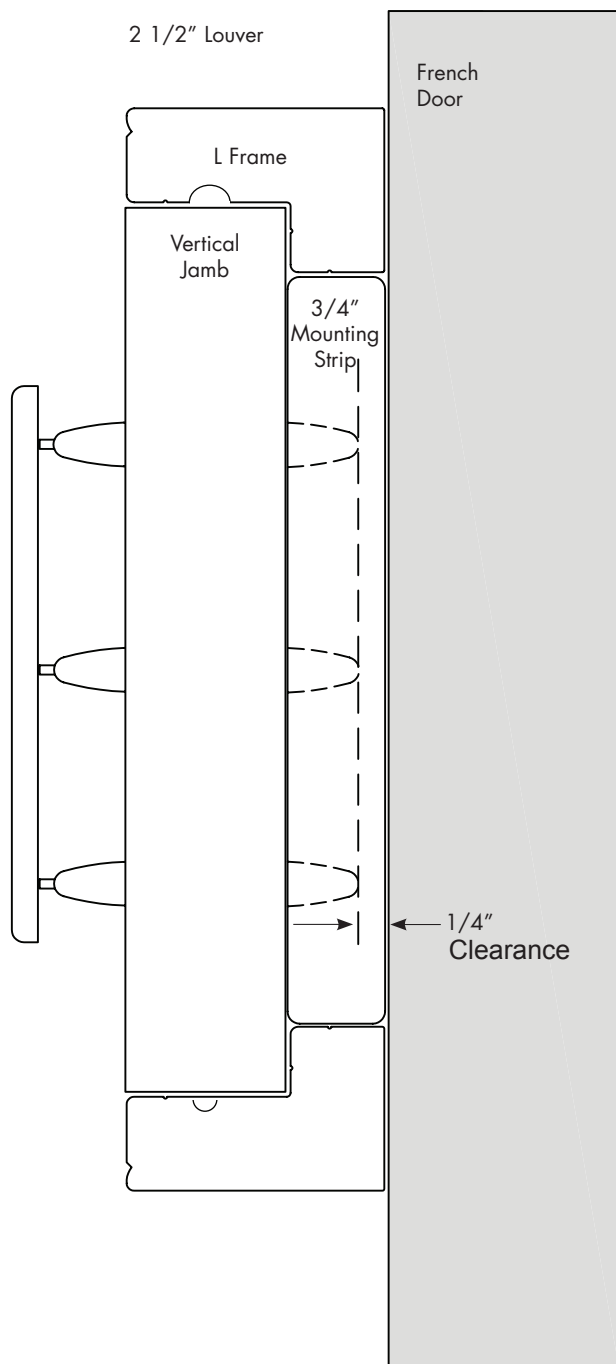
Outside Mount French Door - Catch Receivers

Depth Clearance (With Molding Around Glass)

With Tilt Bar or Gear
2 1/2" Louver = (1) L Frame Extension Required
3 1/2" Louver = (2) L Frame Extensions Required
4 1/2" Louver = Not Available

With Rear Tilt
2 1/2" Louver = (2) L Frame Extensions Required
3 1/2" Louver = (3) L Frame Extensions Required*
4 1/2" Louver = Not Available
 *Note: *Handle extension may be required*
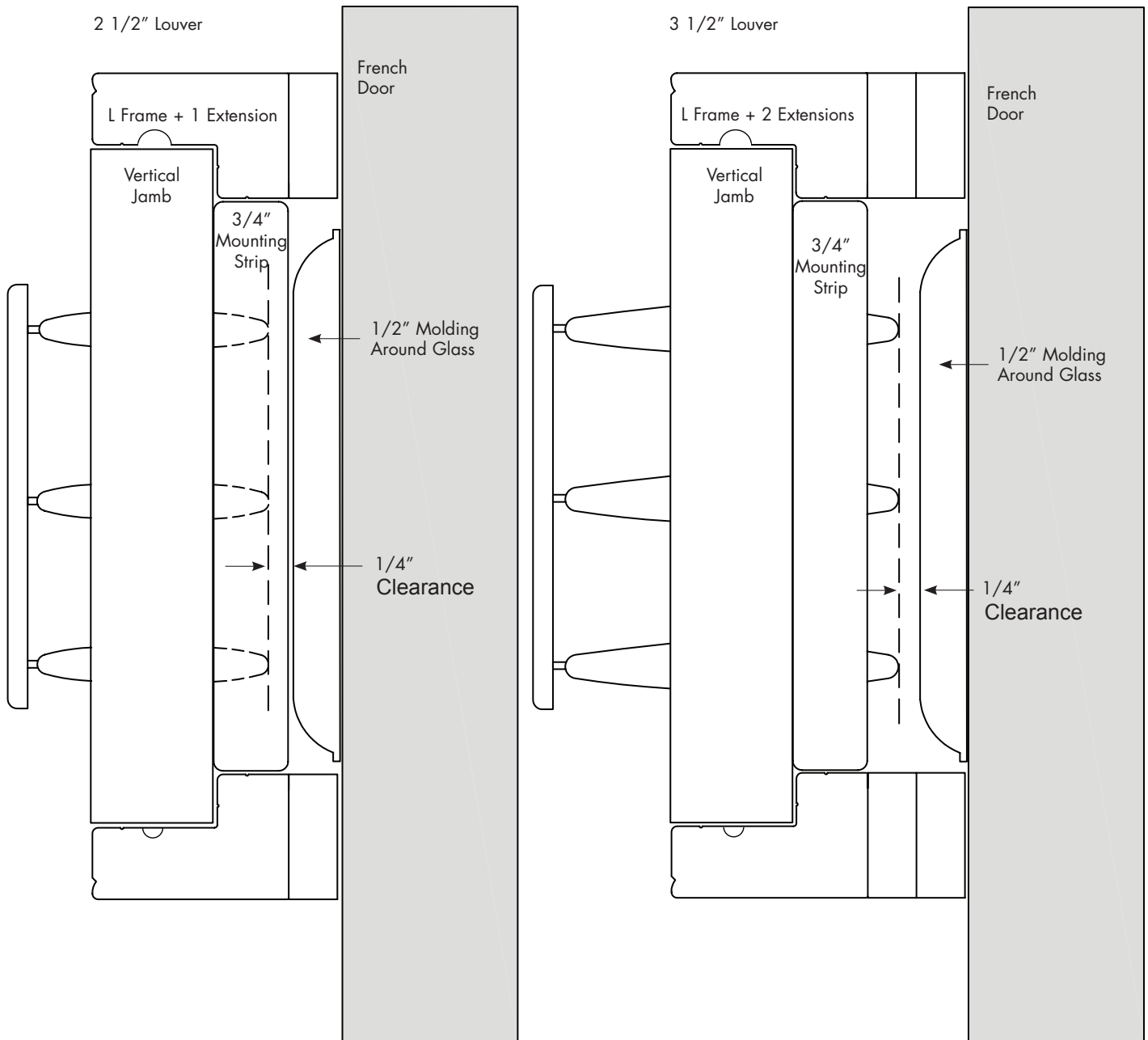
2 1/2" Louver

L Frame + 1 Extension

Vertical Jamb

French Door

3/4" Mounting Strip

1/2" Molding Around Glass

1/4" Clearance

3 1/2" Louver

L Frame + 2 Extensions

Vertical Jamb

French Door

3/4" Mounting Strip

1/2" Molding Around Glass

1/4" Clearance

Note: 3/4" x 3/4" Mounting Strip is included on the back side of each jamb. Additional Mounting Strip may be requested on the order, which can be used to fill any remaining light gap.

ECLIPSE® SHUTTERS **F14**

Outside Mount - Two Sided L-Frame with Catch Receivers Mounted Above and Below Trim or on Top of Trim (No Cutout)

1. CHOICE OF LOUVER & FRAME

- Check for squareness by measuring the diagonal and/or use a sample panel and place at each corner.
- Use samples panels, frames and color samples from the shop at home bag.
- Make sure that the chosen frame and louver size will function properly once installed into the opening.
- Ensure the chosen application will overcome any possible obstructions such as latches, cranks or windows that open into the room.
- Two sided L-Frame top and bottom is used for this French Door application.
- Depth clearance and obstructions can prevent louvers from operating properly. In order to overcome these obstacles, add the necessary number L-Frame Extensions.
- Frame Extensions are available for outside mount applications only. Up to (3) 1/2" extensions can be added to the L-Frame.

2. MEASURE OUTSIDE WIDTH

- Measure outside of molding to outside of molding in three places (top, middle, & bottom) and record the largest measurement to 1/8".
- It is recommended that 1/4" be added to the largest width measurement.
- The gap between the back of the shutter and top of the trim may be eliminated by gluing scribe to the edge of the panel or screwing mounting strip to the back of the panel. Order either in special instructions.

3. MEASURE OUTSIDE HEIGHT

- Measure outside of molding to outside of molding in three places (left, middle & right). If above or below trim, add 2 3/4" to the largest measurement to 1/8" and record on a Regular Order Form.
- If mounting on top of molding, then measure outside of molding to outside of molding in three places and record the largest measurement to 1/8".

4. DIVIDER RAILS

- Measure from the bottom of the sill to the middle of the divider rail location.
- One divider rail is required for panels over 66" in height with a maximum 66" between the middle of the divider rail and either top or bottom rail.
- Two divider rails are required for panels over 96" in height with a maximum 66" between any two rails.
- Refer to Page D4 for additional divider rail measuring instructions.
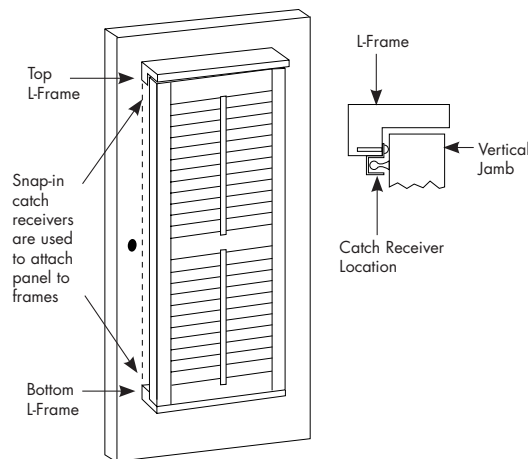
Note: Divider rail must be used on panels 66" and over in height. Two divider rails must be used on panels 96" and over in height, with less than 66" between rails. For specific divider rail location, see page D4.

Outside Mount - Four Sided L-Frame on Top or Around the Molding

1. CHOICE OF LOUVER & FRAME

- Use samples panels, frames and color samples from the shop at home bag.
- Make sure that the chosen frame and louver size will function properly once installed into the opening.
- Ensure the chosen application will overcome any possible obstructions such as latches, cranks or windows that open into the room.
- Four sided L-Frame is used for this French Door application.
- Depth clearance and obstructions can prevent louvers from operating properly. In order to overcome these obstacles, add the necessary number of L-Frame Extensions.
- L-Frame Extensions are available for outside mount applications only. Up to (4) 1/2" extensions can be added to the L-Frame.

2. MEASURE OUTSIDE WIDTH

- If mounting on top of molding, then measure outside of molding to outside of molding in three places (top, middle & bottom). Molding should be a minimum of 1 3/8". Record the largest measurements to 1/8".
- If mounting around the molding, then measure the outside width of the molding. Add 2 3/4" to the width and record the measurements to 1/8".

3. MEASURE OUTSIDE HEIGHT

- If mounting on top of molding, then measure outside of molding to outside of molding in three places (left, middle & right). Molding should be a minimum of 1 3/8". Record the largest measurements to 1/8".
- If mounting around the molding, then measure the outside width of the molding. Add 2 3/4" to the height and record the measurements to 1/8".

4. DIVIDER RAILS

- Measure from the bottom of the molding to the middle of the divider rail location.
- One divider rail is required for panels over 66" in height with a maximum 66" between the middle of the divider rail and either top or bottom rail.
- Two divider rails are required for panels over 96" in height with a maximum 66" between any two rails.
- Refer to Page D4 for additional divider rail measuring instructions.

Hinges are used.

ECLIPSE® F16
SHUTTERS
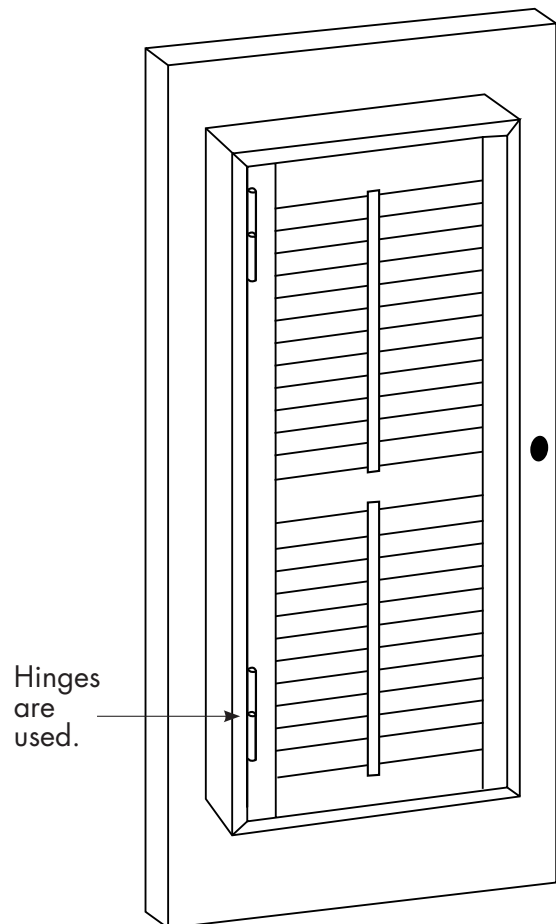
French Door Shutters with No Cutouts

2 SIDED FRAME (TOP & BOTTOM)
1. FRAME ASSEMBLY
- No frame assembly required.

2. FRAME & CATCH RECEIVER INSTALLATION
- Partially set an installation screw into the bottom frame.
- Set the bottom frame on the door below the glass to determine proper position of the frame and mark the position with a pencil.
- Make sure the bottom frame is level and positioned left and right so the panel will not interfere with the door knob.
- Attach the bottom frame.
- Carefully set the panel on the bottom frame and locate the position of the top frame. Then mark this location and remove panel.
- Begin attaching the top frame making sure it is level and aligned properly with the bottom frame.
- Install button plugs once all screws have been set.
- Install each receiver 7/8" from the edge of each frame
- Insert catch into the receiver so the screw is sticking out into the room
- Carefully place the panel into position
- Press the panel against the screws to indent the panel
- Remove the panel
- Remove catches from the receivers
- Screw the catches into the indent on the panel
- Place the panel into position, lining up catch and receiver
- Tap panel front until catch goes into receiver at each corner

3 AND 4 SIDED FRAME
1. FRAME ASSEMBLY
- Remove lock tabs from the supplier corner keys, then glue into each mitered corner. Allow the glue to set before installing the frame.
- For 3 sided frame, glue frame caps onto the straight cut ends of the top and bottom frames, if not already done.

2. FRAME INSTALLATION (3 SIDED FRAME)
- Partially set an installation screw in the top hinge side frame.
- Set the frame against the door to check position of the frame and the alignment of the shutter to the glass and the door knob. Note: Care should be taken when handling the frame since the corners are only glued together.
- Set the top and bottom screws of the hinge side frame making sure the frame is plumb.
- Hang the panel and then move the bottom frame into proper position. Open or remove panel, then set installation screws to secure bottom frame.
- Repeat the above step for the top frame.
- If panel locks are being used, ensure there is sufficient engagement between the frame and panel so the panel will not open while the door is being opened or closed.
- Install button plugs once all screws have been set.

3. FRAME INSTALLATION (4 SIDED FRAME)
- Installation of a 4 sided French Door shutter is the same as installing a standard outside mount shutter.
- The key is to make sure the frame is located properly around the glass while leaving enough room to operate the door knob. If this is not possible, then a different shutter configuration is required.

ECLIPSE®
SHUTTERS

Completing the Order Form

1. Line Number

2. Room – enter the room location for each French Door

3. French Door Type – French Doors can be ordered as a standard shutter or specified as an "FD" (P1 or P1FD)

4. Hinge Style – select the desired hinge configuration (Hinge Left-Cutout Right, Hinge Right-Cutout Left, or Catch Receivers)

5. Width – measure the width in inches to the 1/8"

6. Height – measure the height in inches to the 1/8"

7. Louver Size – select louver size (2 ½", 3 ½", or 4 ½")

8. Color – select from one of three colors (Cotton, Pearl, or Vanilla)

9. Tilt – select the appropriate tilt mechanism: Tilt Bar **(TB)**, Rear Tilt **(CV)**, OR Gear **(G)**

10. Frame Type (L Frame, S Frame (NA for cutout), Casing Frame (NA for cutout), or Casing Sill Frame (NA for cutout))

11. Number of Frame Sides – (2, 3, or 4 (4 sided only option for cutout))

12. Panel Lock – select YES for panel lock or NO for magnets

13. Frame Extensions – select from 0 to 4 extensions

14. Protruding Molding – mark YES, if there is molding around the glass that impacts the depth clearance of the louvers

15. Cutout height – enter the distance up in inches from bottom of frame to center of where the cutout will be located

16. Divider Rail – select YES to include a divider rail (divider rails will be centered when the panel includes a cutout)

17. Divider Rail Type – select either standard divider rail or deluxe divider rail

18. Hinge Color – select the desired hinge color to coordinate with the shutter or room decor

20. Notes – enter any special instructions that need to be added

21. Submit French Door Order Form and Shutter Order Form together

Line	Room	Type	Hinge Style	Width (A) x Height (B)	Louver Size	Color	Tilt	Frame	# Frame Sides	Panel Lock	Frame Ext	Protruding Molding	Cutout Height (C or D)	Divider Rail	Divider Rail Type	Hinges
		P1FD	**R** (Right hinge) **L** (Left hinge)	Outside Mount = Largest Opening Size	2 1/2˝ 3 1/2˝ 4 1/2˝	**Cotton** (5136) **Pearl** (5151) **Vanilla** (5140)	Tilt Bar (T) Rear Tilt (CV) Gear (G)	**L**	4 ☐	Yes or No	0 1 2 3	Yes or No	Distance up in inches	Yes or No	Standard or Deluxe	**P** (Painted) **B** (Brass) **S** (Stainless Steel)
1	**2**	**3**	**4**	**5** x **6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**

French Door Shutters - Order Form

ECLIPSE® SHUTTERS

FRENCH DOOR CUTOUT ORDER FORM

Account Name:	Account #:	Page _____ of _____
Ship to:	Phone:	Date:
Address:	Email:	Sidemark:
City, State, Zip:	Ordered By:	P.O. #:	Reference #:

Line	Room	Type	Hinge Style	Width (A) × Height (B)	Louver Size	Color	Tilt	Frame	# Frame Sides	Panel Lock	Frame Ext	Protruding Molding	Cutout Height (C or D)	Divider Rail	Divider Rail Type	Hinges
		PIFD	R (Right hinge) L (Left hinge)	Outside Mount = Largest Opening Size	2 1/2" 3 1/2" 4 1/2"	Cotton (5136) Pearl (5151) Vanilla (5140)	Tilt Bar (T) Rear Tilt (CV) Gear (G)	L	4 ☐	Yes or No	0 1 2 3	Yes or No	Distance up in inches	Yes or No	Standard or Deluxe	C (Cotton) P (Pearl) B (Brass) SS (Stainless Steel)
1				×												
2				×												
3				×												
4				×												
5				×												

NOTES/REMARKS

1	
2	
3	
4	
5	

Only complete, signed orders will be processed.

Name: _____ Signature: _____

ECLIPSE® SHUTTERS

* Void Warranty authorization is required if panels are ordered over the maximum widths, heights, or divider rails not used when required (see page D4). Eclipse® reserves the right to refuse to manufacture out-of-spec, or void warranty product.

STANDARD AND OPEN BY-PASS TRACK SYSTEM

6 1/4"

5"

1 1/4"

Frame Bracket

Valance Bracket

2 1/4"

3/4"

3 1/2" Standard Valance

*Louvers must be in the closed position in order to operate panels.

Shutter Panel

5/8" Bottom Clearance

Small Floor Guide

G1 ECLIPSE®
SHUTTERS

6 3/8"

5"

1 3/8"

Frame Bracket

Valance Bracket

2 1/4"

5" Crown Valance
(Optional)

3/4"

*Louvers must be in the
closed position in order
to operate panels.

Shutter Panel

5/8" Bottom
Clearance

Small Floor Guide

ECLIPSE®
SHUTTERS

G2

9 5/8"

8 3/8"

1 1/4"

Frame Bracket

Valance Bracket

2 1/4"

3/4"

3 1/2" Standard Valance

Shutter Panels

*Panels will operate with the louvers in the open position.

5/8" Bottom Clearance

Large Floor Guide

G3 ECLIPSE®
SHUTTERS

9 3/4"

8 3/8"

1 3/8"

Frame Bracket

Valance Bracket

2 1/4"

3/4"

5" Crown Valance
(Optional)

Shutter Panels

*Panels will operate with
 the louvers in the open
 position.

5/8" Bottom
Clearance

Large Floor Guide

ECLIPSE®
SHUTTERS

G4

Two Panel By-Pass

P2BP-L

P2BP-R
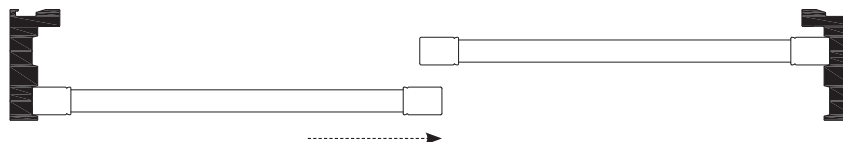
P2OB-L
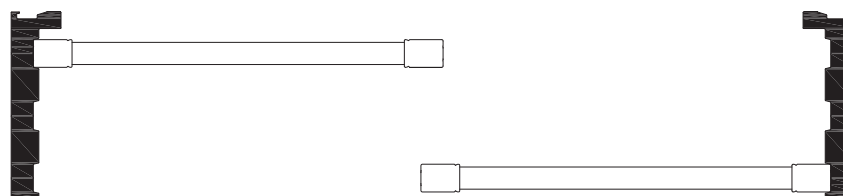
P2OB-R
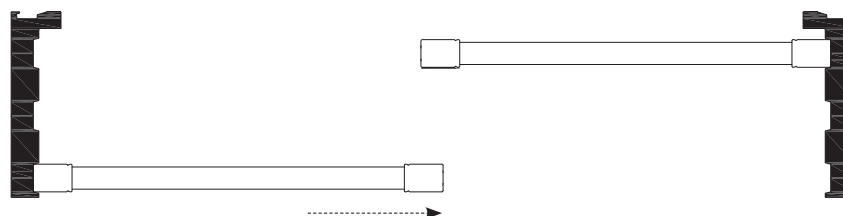
- Minimum Width: 24"
- Maximum Width: 72"
- Minimum Height: 20"
- Maximum Height: 120"
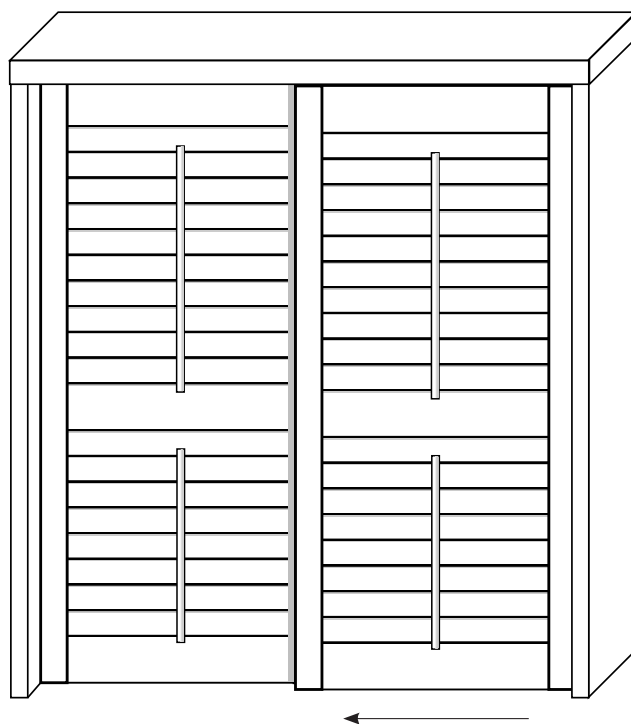
Note: Both panels will operate allowing access to the window or door.

G5 ECLIPSE®
S H U T T E R S
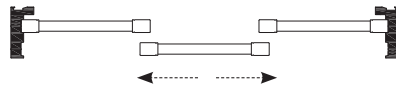
P3BP-LCR   P3OB-LCR
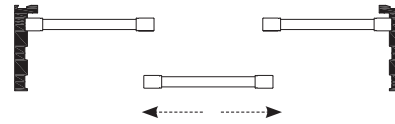
Center panel opens over left or right panel.
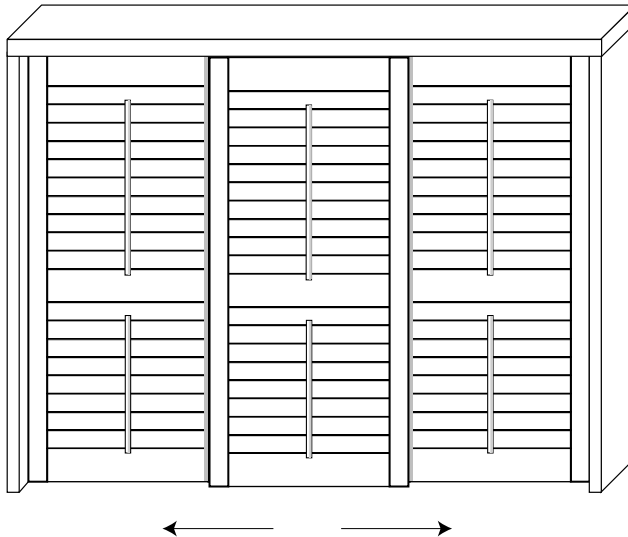
- Minimum Width: 36″
- Maximum Width: 107.25″
- Minimum Height: 20″
- Maximum Height: 120″
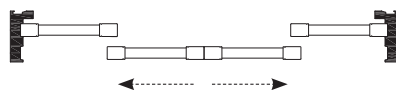
P4BP-LCCR   P4OB-LCCR
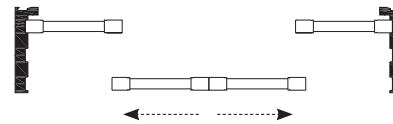
Left center panel opens over left panel, Right center panel opens over right panel.
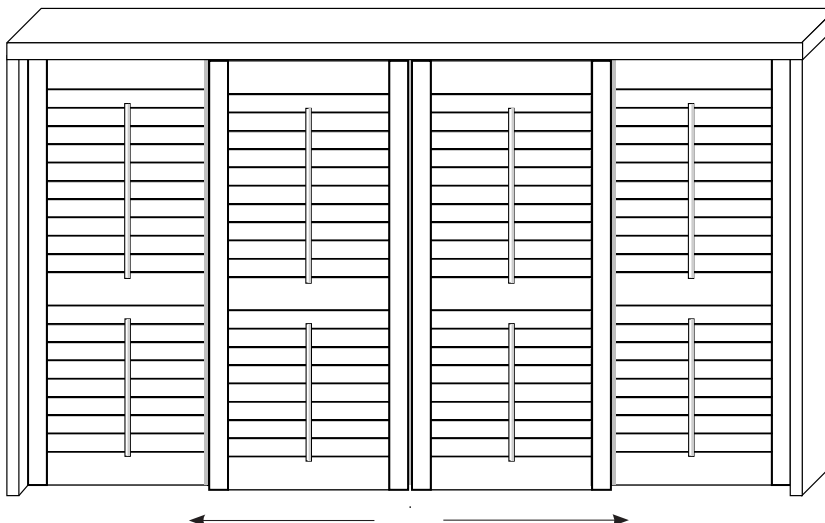
- Minimum Width: 48″
- Maximum Width: 143.25″
- Minimum Height: 20″
- Maximum Height: 120″

ECLIPSE® SHUTTERS G6
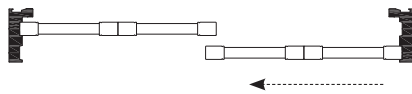
P4BP-2L2R

P4OB-2L2R
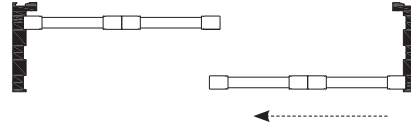
Two right panels open over two left panels.
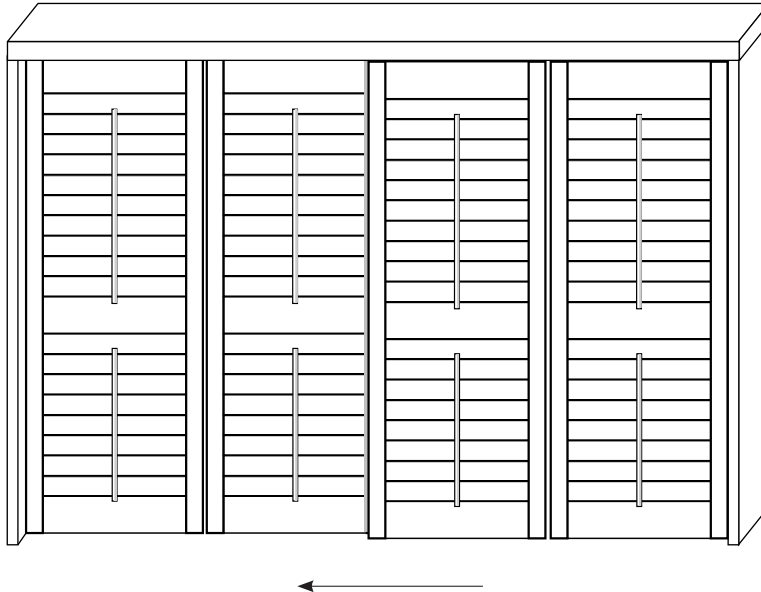
- Minimum Width: 48"
- Maximum Width: 144"
- Minimum Height: 20"
- Maximum Height: 120"

P4BP-2R2L
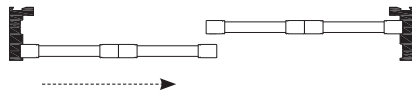
P4OB-2R2L
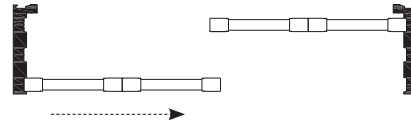
Two left panels open over two right panels.
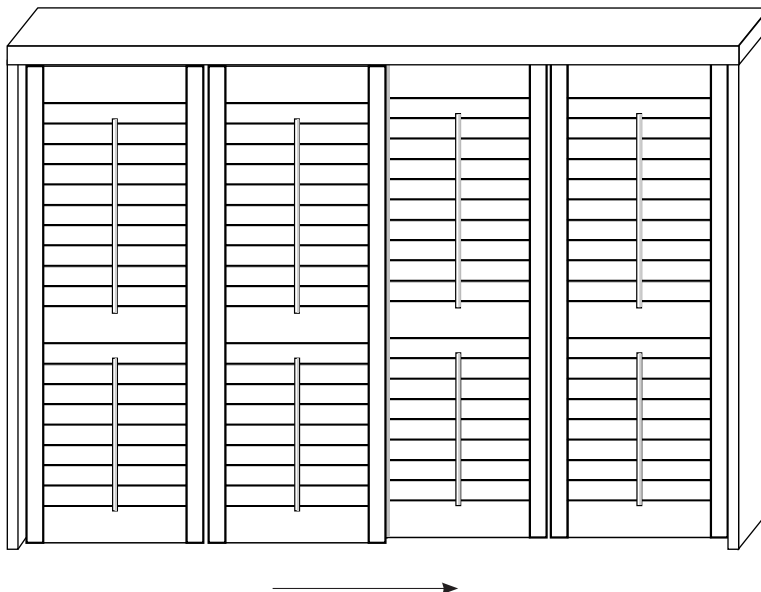
- Minimum Width: 48"
- Maximum Width: 144"
- Minimum Height: 20"
- Maximum Height: 120"

G7 ECLIPSE® SHUTTERS

P6BP-2L2C2R
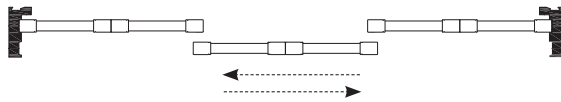
P6OB-2L2C2R

Two center panels, open over either two left or two right panels.
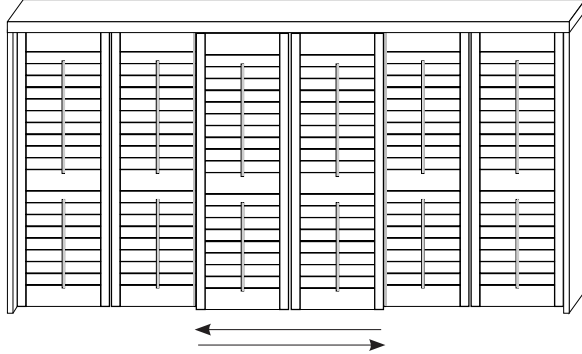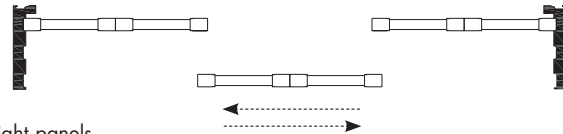
- Minimum Width: 72"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"

P6BP-2LCC2R
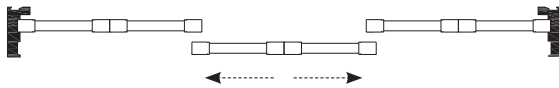
P6OB-2LCC2R

Two center panels, not joined, open over either two left or two right panels.
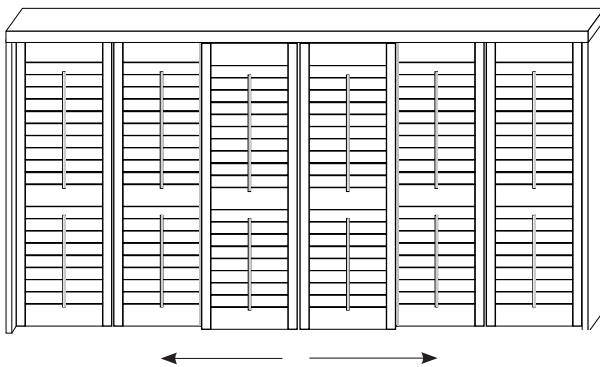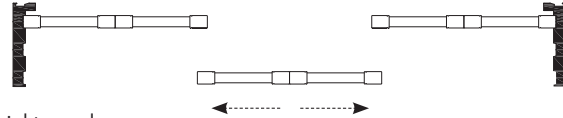
- Minimum Width: 72"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"

P8BP-2L2C2C2R
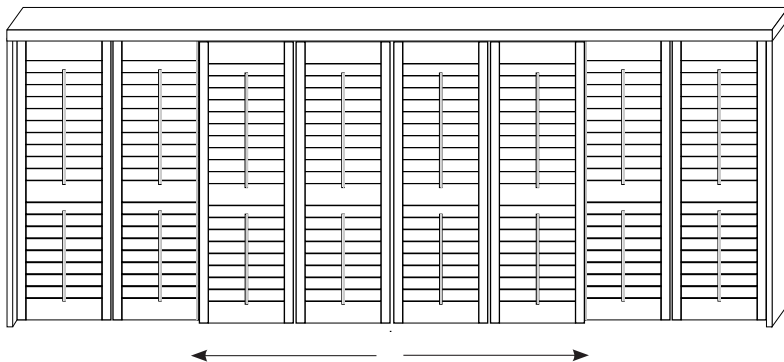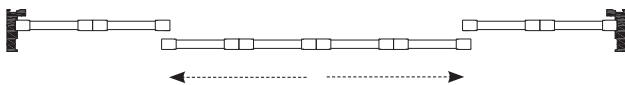
P8OB-2L2C2C2R
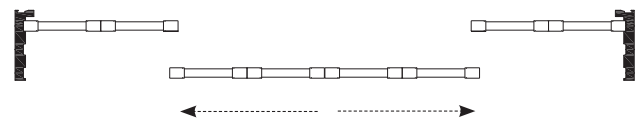
Two left center panels open over two left panels,
two right center panels open over two right panels.

- Minimum Width: 96"
- Maximum Width: 192"
- Minimum Height: 20"
- Maximum Height: 120"

ECLIPSE® SHUTTERS   G8

By-Pass Clearance Chart
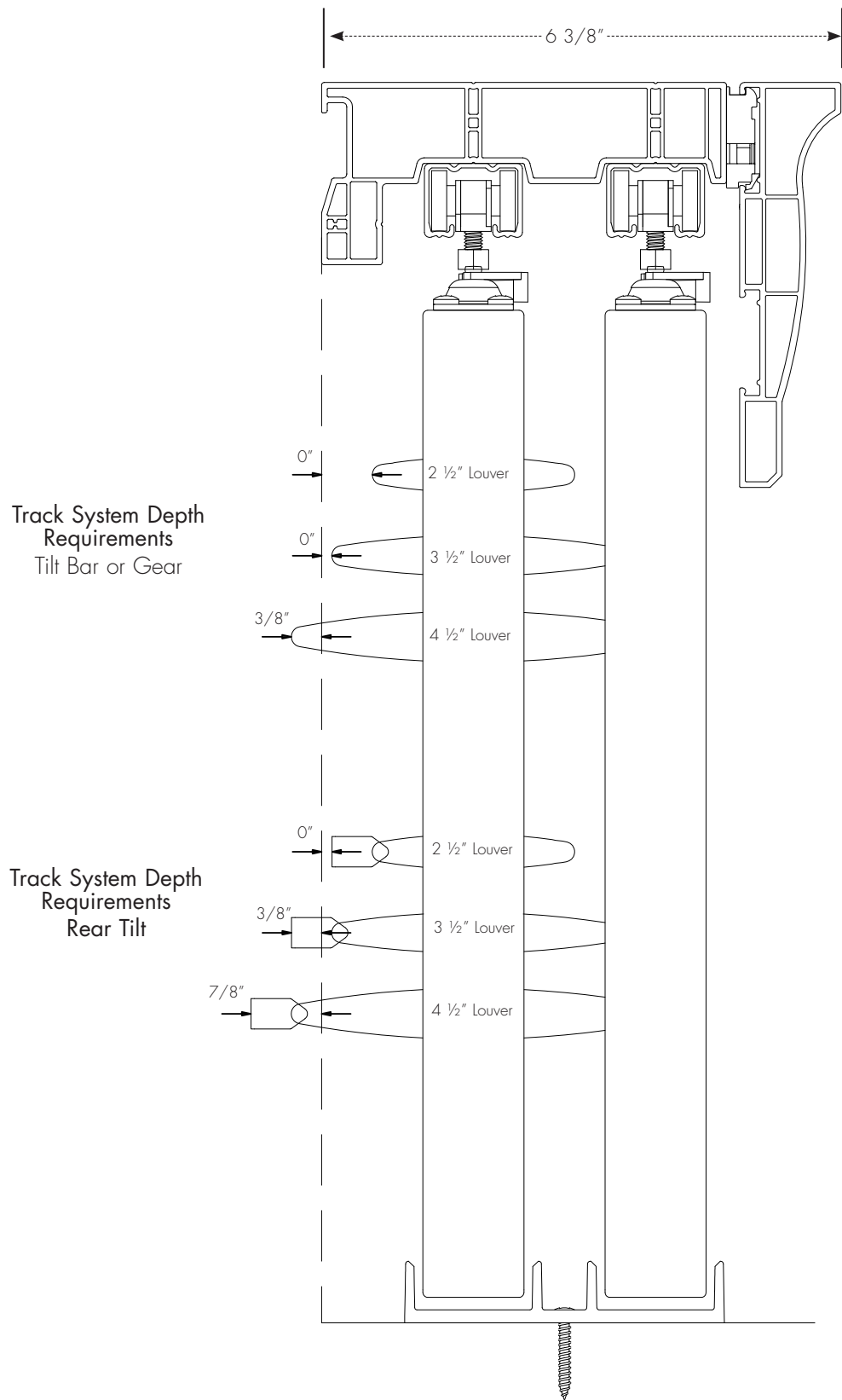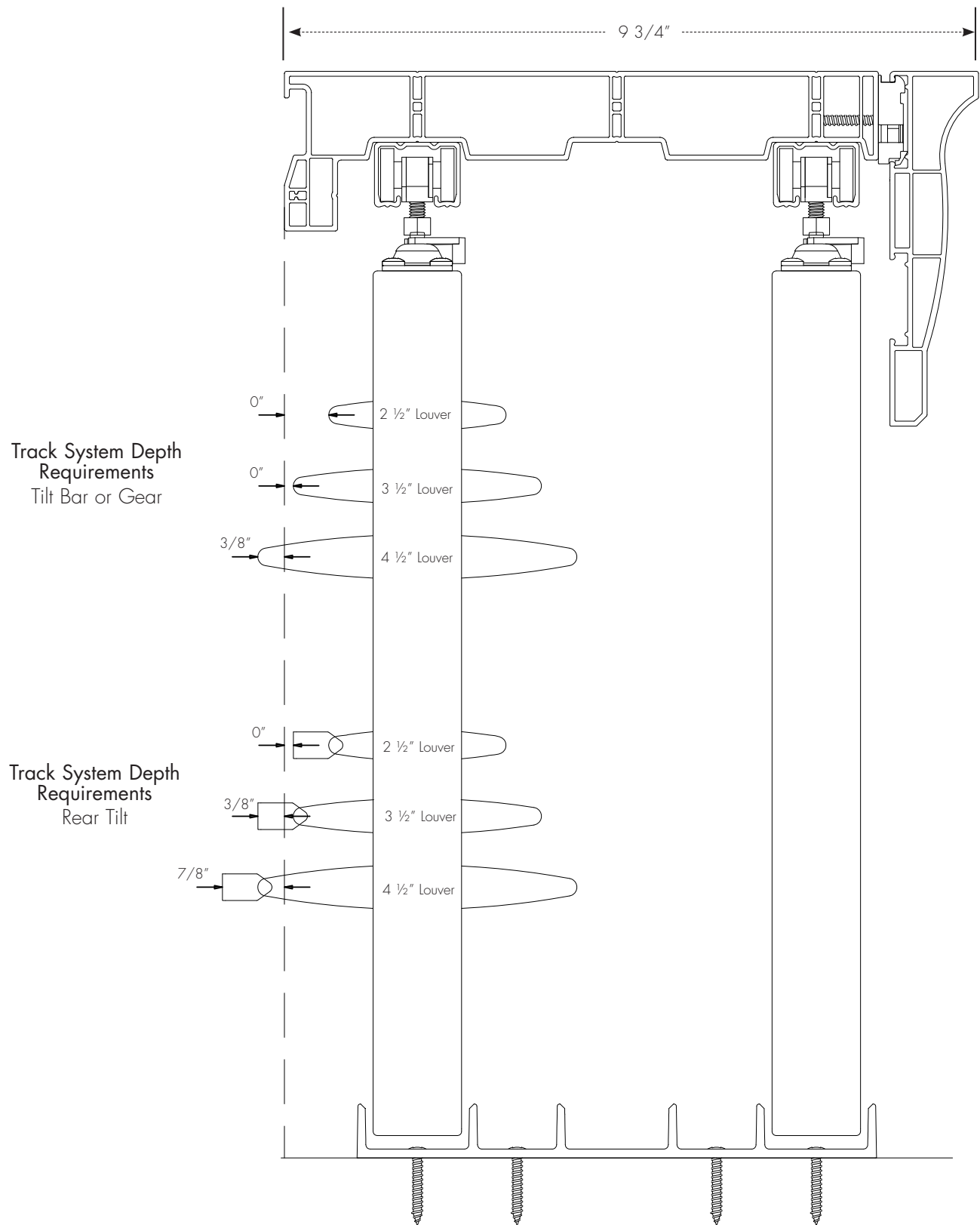
6 3/8"

Track System Depth
Requirements
Tilt Bar or Gear

0" — 2 ½" Louver

0" — 3 ½" Louver

3/8" — 4 ½" Louver

Track System Depth
Requirements
Rear Tilt

0" — 2 ½" Louver

3/8" — 3 ½" Louver

7/8" — 4 ½" Louver

G9 ECLIPSE®
SHUTTERS

9 3/4"

Track System Depth
Requirements
Tilt Bar or Gear

0" 2 ½" Louver

0" 3 ½" Louver

3/8" 4 ½" Louver

Track System Depth
Requirements
Rear Tilt

0" 2 ½" Louver

3/8" 3 ½" Louver

7/8" 4 ½" Louver

ECLIPSE®
SHUTTERS G10

- Inside mounts must have a jamb depth of 2″.
- Inside mounts may be ordered without side frames (jamb depth must be 4″ minimum).
- Outside mount standard by-pass will project 6 3/8″ (including Crown valance) from the wall and open louver by-pass will project 9 3/4″ (including crown valance) from the wall.

Note: Shutter louvers cannot open when panels are in front of one another, unless open louver by-pass is ordered.

Diagram A
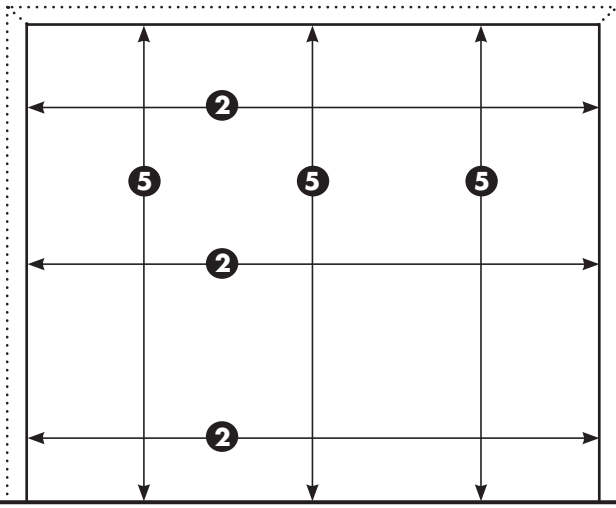
Diagram B
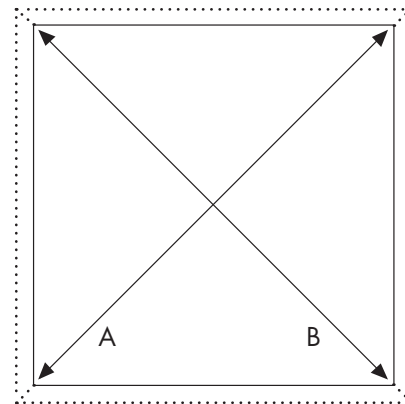
❸ Diagonal squareness check

❶ CHOICE OF FRAME SIDES AND LOUVER

Use the sample shutter panels to determine proper louver rotation. Check that your chosen louver will overcome any obstruction by placing the frame and panel in front of the obstructions. It is recommended that an inside mount have a minimum jamb depth of 2″. A one sided frame (top) can be ordered for this application. Indicate BP (Standard By-Pass) or OB (Open By-Pass) in the frame options section of the Order Form. If additional projection is required, request BP extension. Each extension is 3/4″.

❷ CHECK FOR SQUARENESS

Measure on the diagonal (see Diagram B). If the diagonal measurements are not identical, an inside mount is not recommended. An alternative way to check for a perfectly square window, simply place your panel in each of the four corners. If you find the panels are not flush in all corners, the window opening is not square.

❸ MEASURE INSIDE WIDTH

Measure in three places (top, middle, bottom) and record the smallest measurement onto a Eclipse Order Form if the application is for an inside mount. For an outside mount, a minimum of 2 1/4″ is required to be added to each side that a frame is required.

❹ MEASURE INSIDE HEIGHT

Measure in three places (left, middle, right) and record the smallest measurement onto a Eclipse Order Form if the application is for an inside mount. For an outside mount a minimum of 2 1/4″ is required to be added to the top and/or bottom that a frame is required.

❺ ONLY IF A DIVIDER RAIL IS BEING USED

The measurement recorded is determined from the bottom sill to the middle of where the divider rail is to be located. One divider rail is required for panels over 66″ with a maximum 66″ between the middle of the divider rail and either top or bottom rail. Two divider rails are required for panels over 96″ in height with a maximum 66″ between any two rails.

❻ CHOICE OF PANEL CONFIGURATION

Determine from pages H5 to H8. Complete the remainder of the Order Form. Sill Frames and Double Hungs are not applicable with the By-pass Systems.

❼ ORDER VALANCE

Choose between the 3 1/2″ Standard Valance or 5″ Crown Valance and select the appropriate valance returns on the track system order form. See page H17-18.

1. FRAME ASSEMBLY

Set the provided 3" screws into the assembly holes in the top frame. Aline the screws with the screw ports inside the side frames (fasten tightly).

2. FRAME SPACERS

Spacers are placed at the ends of any top frame in which side frames are present. The spacers are located in the panel/track recesses of the top frame. The assembly screws will pass through the spacer and into the side frames.

3. INSTALLATION HOLES

Once the frames are assembled, installation holes are required by using a 3/8" drill bit (if not pre-drilled).

A) For an inside mount, drill a 3/8" hole through the first layer of Polyresin 3, within the mounting area every 10" starting at each end of the frame.

B) For an outside mount, drill a 3/8" hole through the first layer of Polyresin 3 at the front edge of the reveal of the frame every 10".

4. FRAME INSTALLATION

A) For an inside mount, fasten the top frame to the opening, making sure it is level; shim to level if necessary.

B) For an outside mount, set the frame against the wall. Level the top and fasten the top frame to the wall with the provided installation screws

5. WHEEL CARRIERS

Insert wheel carriers inside each aluminum track. Two carriers are assigned to each panel so check the panel configuration to determine the correct number of carriers in each track.

6. ALUMINUM TRACKS

Mount aluminum tracks to the extreme left of the opening of the frame by screwing through the pre-drilled holes in the track to the extrusion indicator lines on the underside of the top frame.

7. ATTACH OPTIONAL LIGHTBLOCK BETWEEN PANELS

A) For Standard By-pass, one piece of ¾" x ¾" mounting strip is mounted at the back of the interior edge of each front panel.

B) For Open By-pass, two pieces of vertical jamb are used as lightblock between panels. One piece of vertical jamb is mounted at the back of the interior edge of the front panel, while the second piece is mounted at the front interior edge of the rear panel.

For either option, drill a 3/8" hole starting at the top, every 20" through the first two layers of Polyresin 3. Screw the mounting strip or the vertical jamb to the panel and cap holes with button plugs.

Note: Mounting strips/vertical jambs are 1" shorter than the panels so there is no interference with the floor guides.

Note: For Open By-pass shutters, a gap of 7/8" will remain once vertical jambs have been installed.

8. HANG SHUTTERS

Push the door plates onto the adjustable nut of the wheel carriers. Lock the panels in place by rotating the plastic slide around the neck of the wheel carrier adjustable nut. To level the panels, turn the adjustable nut of the wheel carrier with the provided wrench tool.

9. ATTACH DOUBLE PANELS IF APPLICABLE

When two panels are to be attached, they are connected using hinges. Push the panels together and make sure the hinges align (adjust panels heights as needed). Open louvers and reach through to set hinge pins to connect panels or open the door and insert the hinge pins from the back side of the panels.

10. SECURE SIDE FRAMES IF APPLICABLE

Mount each side frame with the mounting screws provided so that the frames are plumb to the hanging panel. Cover the 3/8" holes with the button plugs.

11. ATTACH VALANCE IF APPLICABLE

Attach valance brackets to the front of the frame using the included #6 x 3/4" screws, the installation holes should be pre-drilled. Once all brackets are secure, position the channel on the back of the valance so that it rests on the bracket. The valance will need to be on a 45° angle, with the bottom of the valance farther into the room. Rotate the valance down to a vertical orientation until locked into all brackets. If the bottom of the valance with returns tilts upward, then add hinge shims behind each valance bracket. Loosen each bracket and position a shim behind the bracket, above the screw and re-tighten screw.

12. OPTIONAL FLOOR GUIDE(S)

Install floor guide(s) in-between each set of moving panels. The guides prevent the doors from swinging forward into the room or back into the opening. Two sizes are available depending on type of by-pass.

Diagram C - Frame Assembly

1 Insert the provided 3″ screws though the top frame

2 Line up the screw through the screw ports inside the side frames (fasten tightly)

Screw Indicator Lines

1/2″

Top Frame

1/2″

1

Location for outside mount
3/8″ diameter hole for
installation screws

Location for inside mount
3/8″ diameter hole for
installation screws

Track/Frame
Spacer

3″ Screws (4)

2

Screw Indicator Lines

5″

Side Frame

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SHUTTERS

Wheel Carrier

Wheel Carrier

Track

Door Bracket ┄┄► Adjustment Bolt

Adjustment Bolt ┄┄► Door Bracket

Individual By-Pass Panel

Floor Guide

Wheel Carrier

Wheel Carriers

Wheel Carrier

Track

Door Bracket ┄┄► Adjustment Bolts

Adjustment Bolts ┄┄► Door Bracket

Hinge on Rear of Panels

Joined/Coupled By-Pass
Panel 1

Joined/Coupled By-Pass
Panel 2

Hinge on Rear of Panels

Floor Guide

ECLIPSE® G14
SHUTTERS

Diagram D - Inside Mount Application

3″ Installation Screws

Standard 5″ By-Pass Frame

Panel/Track Recesses

Valance Bracket

Wheel Carrier

Aluminum Track

Adjustment Belts

Door Bracket

Optional 5″ Crown Valance

Shutter Panels

Note: With track secured to the frame, remove every other track screw. Replace each with a #8 x 3″ screw.

Small Floor Guide

Floor Guide Installation Screw

G15 ECLIPSE®
SHUTTERS

Diagram E - Inside Mount Application

3″ Installation Screws

Panel/Track Recesses

Panel/Track Recesses

Valance Bracket

Triple/Open By-Pass Frames

Wheel Carriers and Track

Aluminum Track

Adjustment Bolts

Door Brackets

Optional 5″ Crown Valance

Shutter Panels

Note: With track secured to the frame, remove every other track screw. Replace each with a #8 x 3″ screw.

Large Floor Guide

Floor Guide Installation Screws

ECLIPSE® SHUTTERS G16

Diagram F - Outside Mount Application

Bracket Screws

Small OM Frame Support Bracket

Standard 5″ By-Pass Frame

Panel/Track Recesses

Installation Screws

Valance Bracket

Aluminum Track

Adjustment Bolts

Wheel Carriers

Optional 5″ Crown Valance

Door Bracket

Shutter Panels

Small Floor Guide

Floor Guide Installation Screw

G17 ECLIPSE®
SHUTTERS

Diagram G - Outside Mount Application

Bracket Screws

Large OM Frame Support Bracket

Triple/Open By-Pass Frame

Panel/Track Recesses

Panel/Track Recesses

Valance Bracket

Installation Screws

Track/Frame Spacer

Tracks

Wheel Carriers

Adjustment Bolts

Door Brackets

5" Crown Valance (Optional)

Shutter Panels

Large Floor Guide

Floor Guide Installation Screws

ECLIPSE® SHUTTERS G18
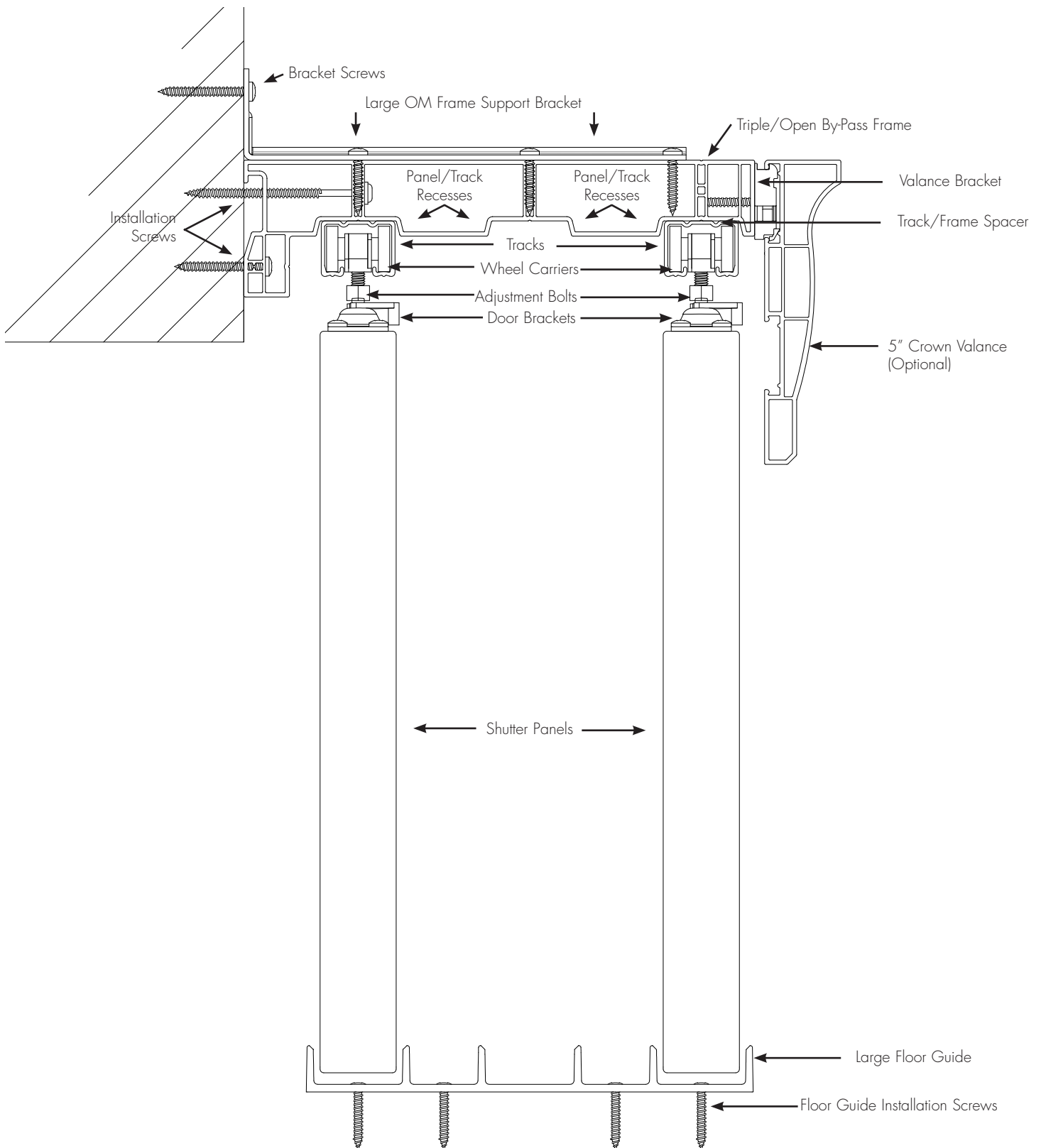
Diagram H - Frame Extension

1. The Track Frame Extension is used for By-Pass, Triple By-Pass and Bi-Fold frame systems.
2. Track Frame Extension increases the projection of the shutter by ¾".
3. Orient the extension so that it mates with the back of the frame. Use an installation screw to attach the extension to the frame, as shown below

By-Pass Frame Extension increases the projection of the frame by 3/4".

2 1/4"

3/4"

Open By-Pass Frame with Extension

2 1/4"

3/4"
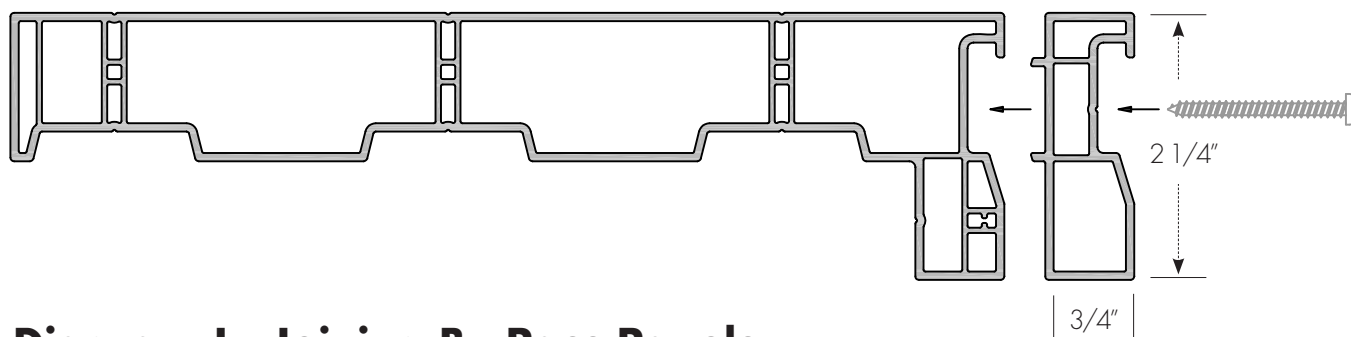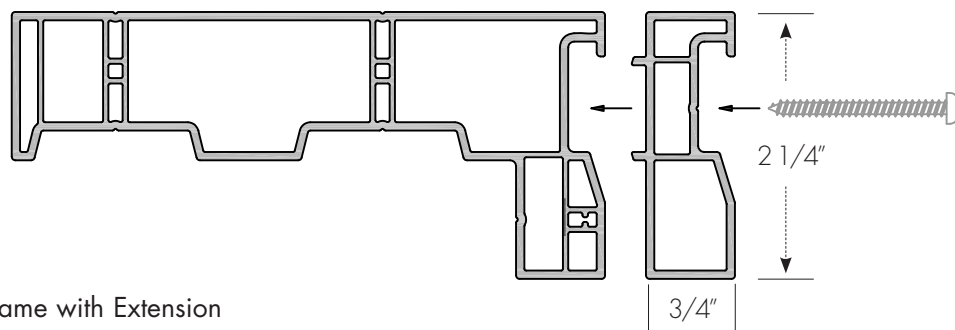
Diagram I - Joining By-Pass Panels
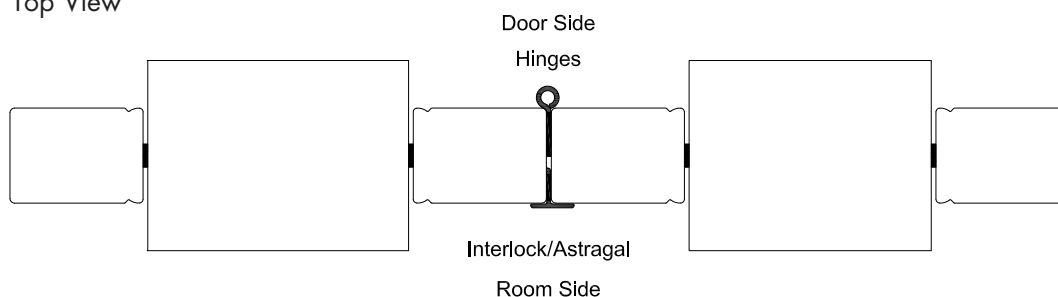
Top View

Door Side

Hinges

Interlock/Astragal

Room Side

Joining By-Pass Panels: Hang each panel individually. Adjust both panels, making sure they are level with each other. Push the panels together and insert hinge pins into hinges located on the back side of the panels. This may require reaching between the louvers or opening the door and approach from the back of the shutter.

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SHUTTERS

Diagram J - Light Block Between Panels

Standard or Triple By-Pass
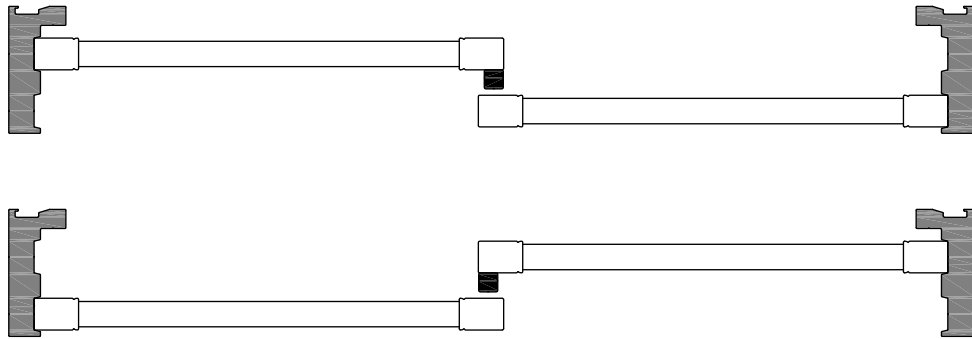
Note: Optional light block installs to the front of the rear panel(s) to prevent interference with the tilt bar.

Open By-Pass
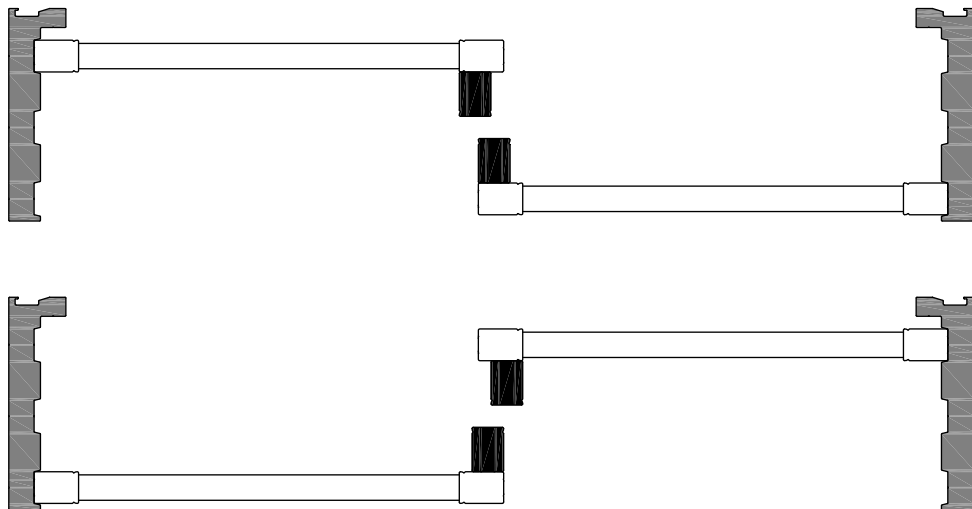
Diagram K - Assembly of Light Block Between Panels

Top view - assembly of light block
between Open By-Pass panels

1. Orient the vertical jamb as shown (left)
2. Drill 3/8" holes every 20" from the top through the first two layers
3. Set #8 x 1" By-pass screws
4. Cap holes with button plugs

ECLIPSE® SHUTTERS G20

1. Line #:
Indicated by numeric sequence. The line number is shown on all product labels to make installation easier.

2. Room:
Room location where the product is to be installed.

3. Type and Style:
Choose the applicable shutter Type & Hinge Style (panel configuration) and copy onto the Track System Order Form.

4. Width and Height:
The smallest increment acceptable for width is 1/16" and height is 1/8".

5. Louver Size:
Three sizes are available – California 2 1/2", Plantation 3 1/2", and 4 1/2".

6. Color:
Color options include Cotton, Pearl or Vanilla.

7. Tilt
A) Tilt Bar ("TB") is positioned in the front middle of the panel unless otherwise requested. Indicate "OFFSET TILT BAR" in the "Remarks" section.

B) Rear Tilt ("CV") is an optional rear tilt system and will always be offset on the back of the back edge of the louvers.

C) Gear ("G") is an optional gear system that is completely enclosed within the shutter panel.

8. Mount:
I.M. indicates an inside mount that can be within the opening, fully or partially recessed.

O.M. indicates an outside mount in which the frame is attached to the face of the wall or trim.

9. Frame
There are specific frames used for each of the various track systems. The By-pass Frame (BP) is 5" deep and can be inside or outside mount. The Open/Triple By-pass Frame (TB) is 8 3/8" deep and is used for both Triple By-pass and Open By-pass systems. This frame can be mounted inside or outside for either system.

10. Number of Frame Sides:
Enter the number of frame sides for each shutter. Each tracks system is available with 1, 3 or 4-sided frame.

11. Number of Extensions:
Extends the frame into the room for outside mount only. The Track Frame extension is 3/4". Enter the number of frame extensions required (0-3), to gain the proper depth clearance based on the louver size and tilt option.

12. Divider Rail:
Adds support to the panel to prevent sagging. Page A10 shows the specifications to decide on rails and D4 informs how to calculate distance up.

13. Valance Type:
3 ½" Standard Valance is the default for all By-pass Track Systems. A 5" Crown valance is optional.

14. Valance Return:
Valance can be "square" cut (no returns needed) if the frame and valance are mounted inside the opening. Standard returns for outside mounts are cut so they are in line with the back of the frame. If the returns need to be reduced by a specific amount, then note Custom on the order form.

15. Custom Return Length:
Enter the amount to be deducted from the standard return length. This is calculated by measuring the amount the frame will be recessed inside the opening. See pages J5-7.

16. Hinges:
Hinges are available in 4 color choices: Cotton, Pearl, Brass and Stainless Steel.

17. Lightblock Between Panels:
Lightblock between panels is not standard but is available upon request. Note "YES" if lightblock is needed based on the type of system being ordered.

18. Notes/Remarks:
Enter special instructions or notes regarding the order.

ECLIPSE® SHUTTERS

TRACK SYSTEM ORDER FORM

Account Name:		Page _____ of _____	Reference #:
Ship to:		Date:	
Address:		Sidemark:	
City, State, Zip:		P.O. #:	
Account #:	Phone:	Email:	Ordered By:

Line	Room	Type	Hinge Style	Width × Height	Louver Size	Color	Tilt	Mount	Frame	# Frame Sides	Frame Ext	Divider Rail	Valance Type	Custom Return Length	Hinges
		P2BP / P2OB / P2BF / P4BP / P4OB / P4TB	L / R / 2L / 2R / 2L2R	Inside Mount = Smallest Opening Size; Outside Mount = Largest Opening Size	2 1/2" / 3 1/2" / 4 1/2"	Cotton (5136) / Pearl (5151) / Vanilla (5140)	Tilt Bar (T) / Rear Tilt (CV) / Gear (G)	IM (Inside Mount) / OM (Outside Mount)	BP (By-pass) / TB (Triple By-pass) / OB (Open By-pass) / BF (Bi-fold)	1 / 3 / 4	0 / 1 / 2 / 3	Standard or Deluxe; Distance up in inches	Bi-Fold / Bypass / Decorative	Amount of deduction from standard return length	C (Cotton) / P (Pearl) / B (Brass) / SS (Stainless Steel)
1				×											
2				×											
3				×											
4				×											
5				×											
6				×											

LIGHTBLOCK BETWEEN PANELS (BY-PASS ONLY)

Line	3/4" X 3/4" STANDARD/TRIPLE BY PASS	1 1/4" X 1 3/4" OPEN BY PASS
1		
2		
3		
4		
5		
6		

NOTES/REMARKS

1	
2	
3	
4	
5	
6	

Only complete, signed orders will be processed.

Name: _____   Signature: _____

ECLIPSE® SHUTTERS   G22

TRIPLE BY-PASS TRACK SYSTEM

Triple By-Pass Track System Diagram - 3 1/2" Standard Valance

9 5/8"

8 3/8"

1 1/4"

Large OM Frame Support Bracket

Bracket Screws

Valance Bracket

2 1/4"

3/4"

3 1/2"
Standard Valance

*Louvers must be in the
closed position in order
to operate panels.

Shutter Panels

5/8" Bottom
Clearance

Large Floor Guide

H1 ECLIPSE®
SHUTTERS

9 3/4"

8 3/8"

1 3/8"

Large OM Frame Support Bracket

Bracket Screws

Valance Bracket

2 1/4"

3/4"

5" Crown Valance (Optional)

*Louvers must be in the closed position in order to operate panels.

Shutter Panels

5/8" Bottom Clearance

Large Floor Guide

ECLIPSE® SHUTTERS H2

Three Panel By-Pass

P3TB-1L1M1R
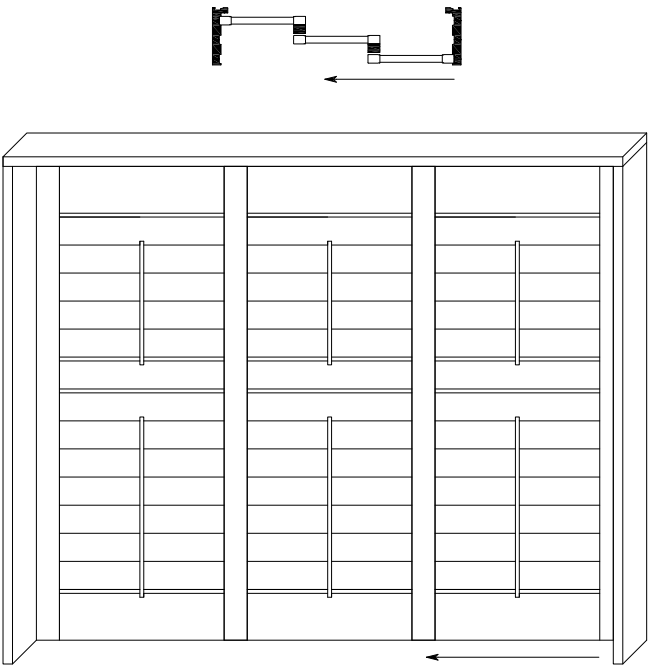
- Minimum Width: 36"
- Maximum Width: 108"
- Minimum Height: 20"
- Maximum Height: 120"

Four Panel By-Pass

P4TB-1L2M1R

- Minimum Width: 48"
- Maximum Width: 144"
- Minimum Height: 20"
- Maximum Height: 120"

H3 ECLIPSE® SHUTTERS
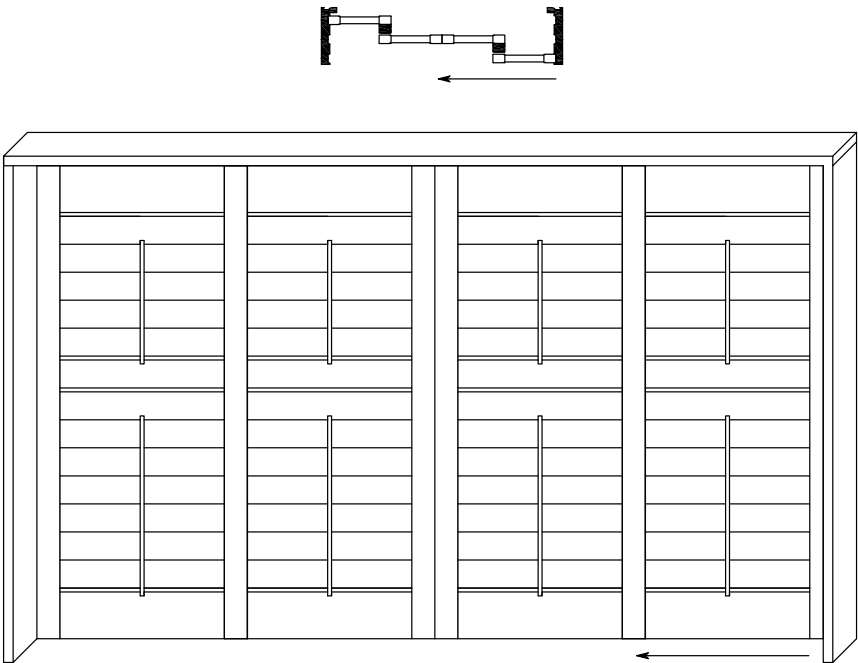
P5TB-1L1M1C1M1R
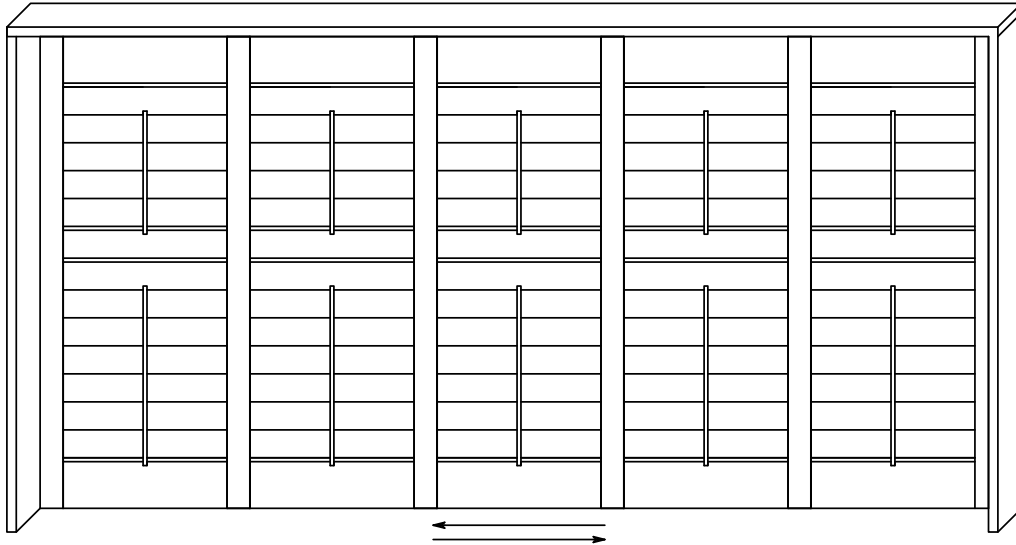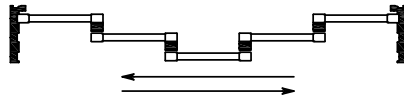
- Minimum Width: 60"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"

P6TB-1L1M2C1M1R

- Minimum Width: 72"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"

ECLIPSE®
SHUTTERS H4
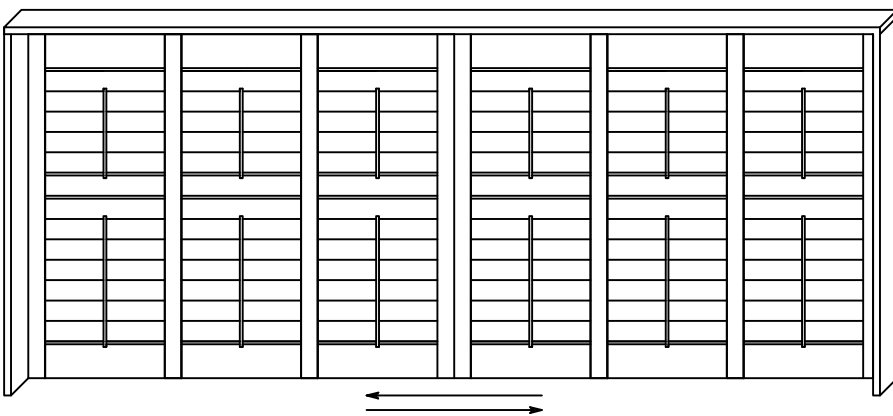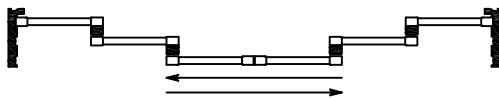
P6TB-2L2M2R
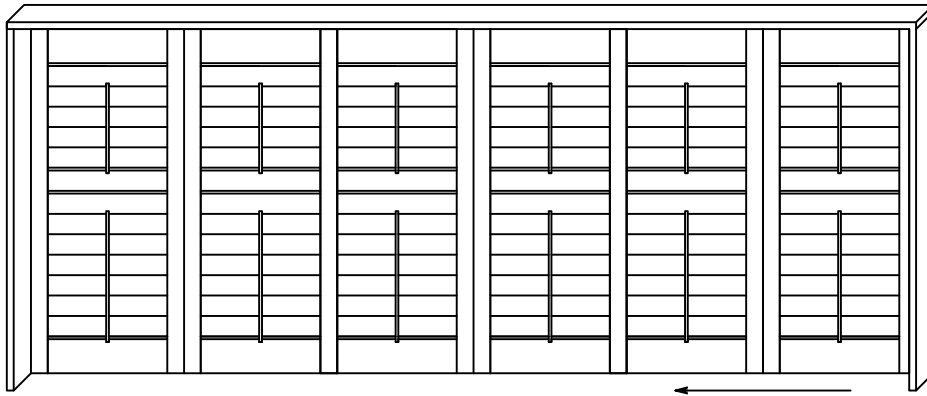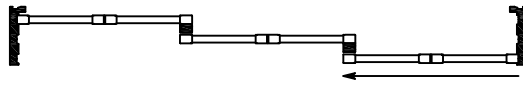
- Minimum Width: 72"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"

P6TB-1L1M1C1C1M1R
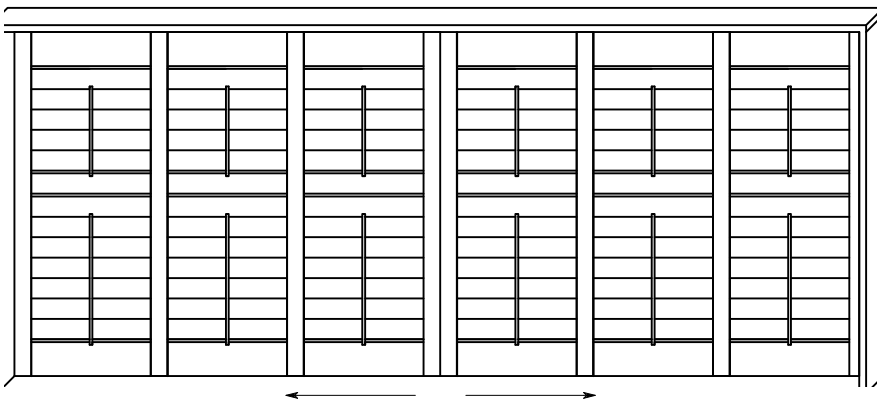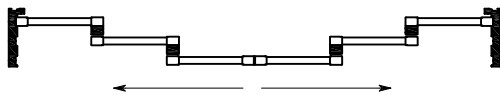
- Minimum Width: 72"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"

H5 ECLIPSE®
SHUTTERS

P7TB-2L1M1C1M2R
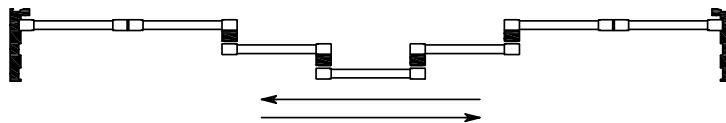
- Minimum Width: 84"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"
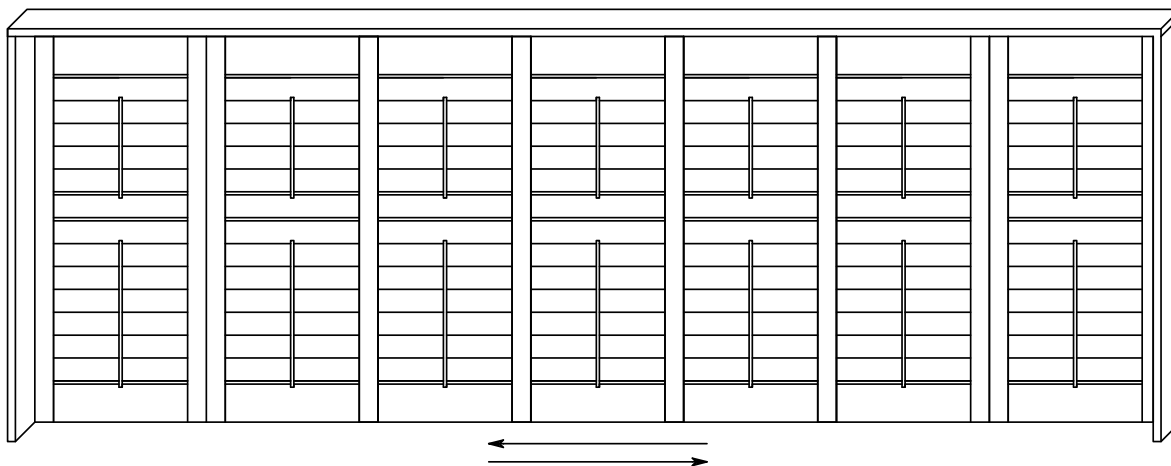
P7TB-1L2M1C2M1R
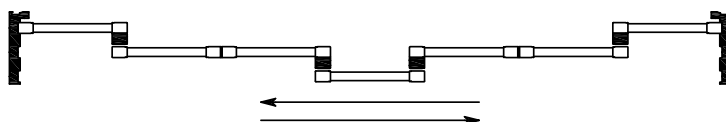
- Minimum Width: 84"
- Maximum Width: 180"
- Minimum Height: 20"
- Maximum Height: 120"

ECLIPSE® SHUTTERS H6
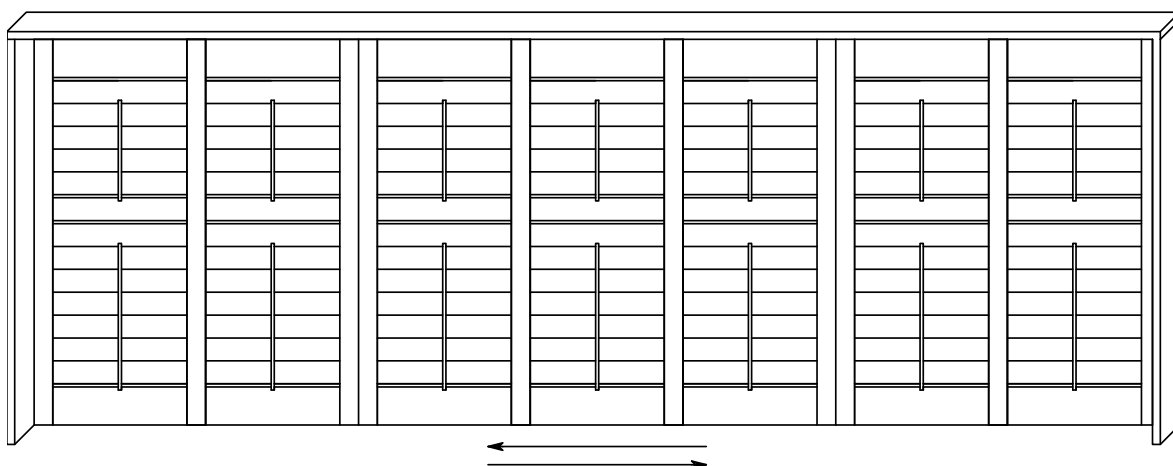
P8TB-1L2M2C2M1R
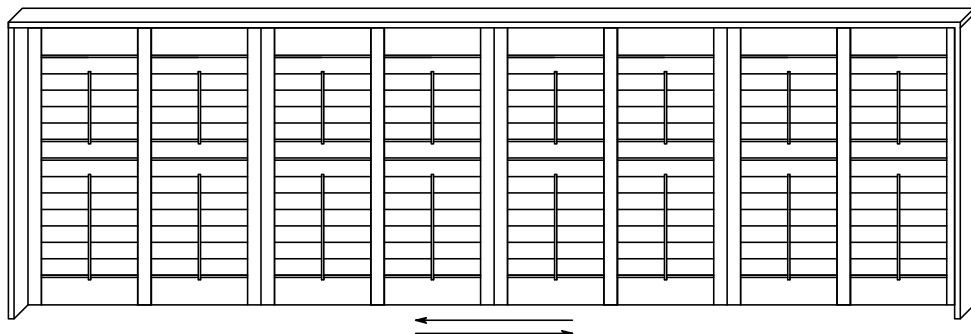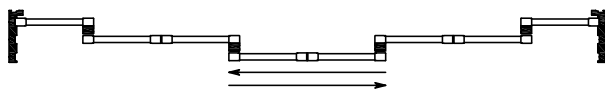
- Minimum Width: 96"
- Maximum Width: 192"
- Minimum Height: 20"
- Maximum Height: 120"

P8TB-2L1M2C1M2R
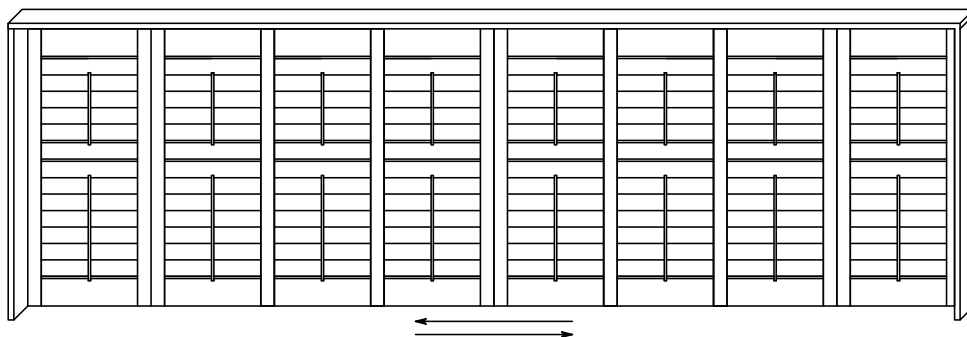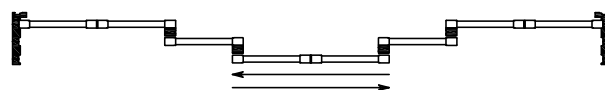
- Minimum Width: 96"
- Maximum Width: 192"
- Minimum Height: 20"
- Maximum Height: 120"

P8TB-1L1M2C2C1M1R
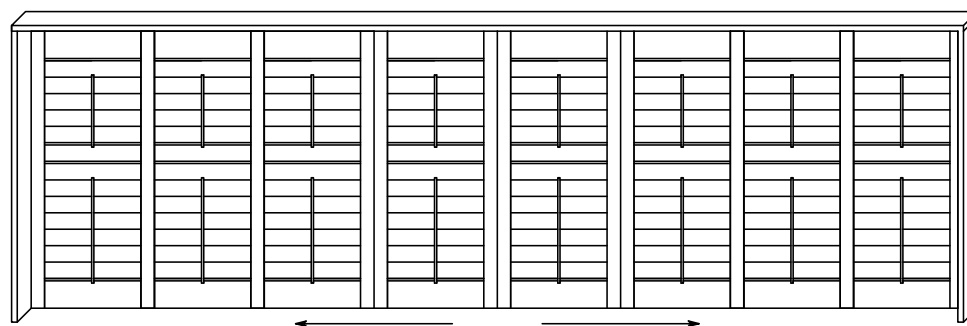
- Minimum Width: 96"
- Maximum Width: 192"
- Minimum Height: 20"
- Maximum Height: 120"

H7 ECLIPSE®
S H U T T E R S

9 3/4"

Track System Depth Requirements
Tilt Bar or Gear

0" 2 ½" Louver

0" 3 ½" Louver

3/8" 4 ½" Louver

Track System Depth Requirements
Rear Tilt

0" 2 ½" Louver

3/8" 3 ½" Louver

7/8" 4 ½" Louver

ECLIPSE®
SHUTTERS H8
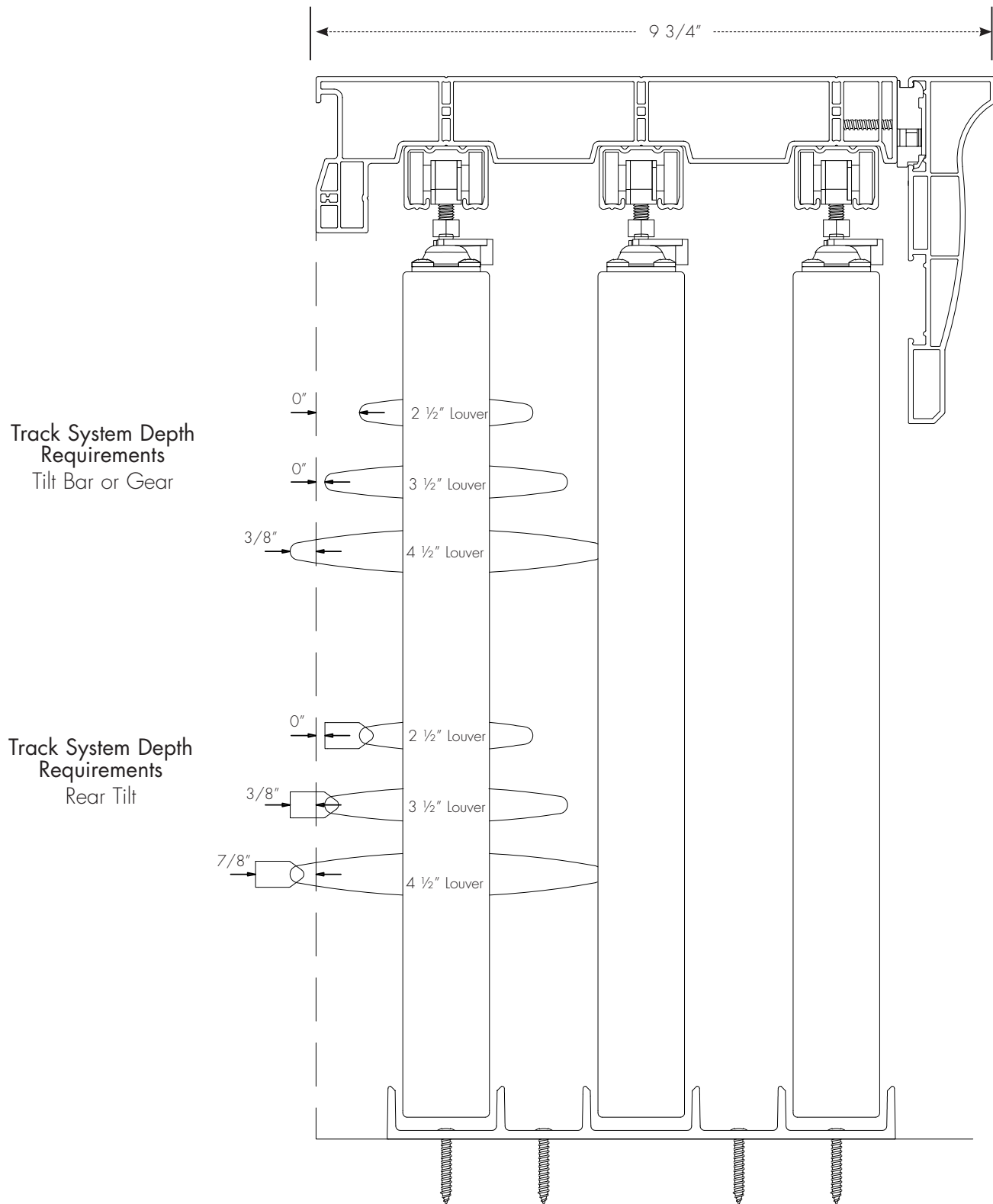
- Inside mounts must have a jamb depth of 2″.
- Inside mounts may be ordered without side frames (jamb depth must be 4″ minimum).
- Outside mount will project 9 3/4″ (including Crown valance) from wall.

Note: Shutter louvers cannot open when panels are in front of one another.

Diagram A
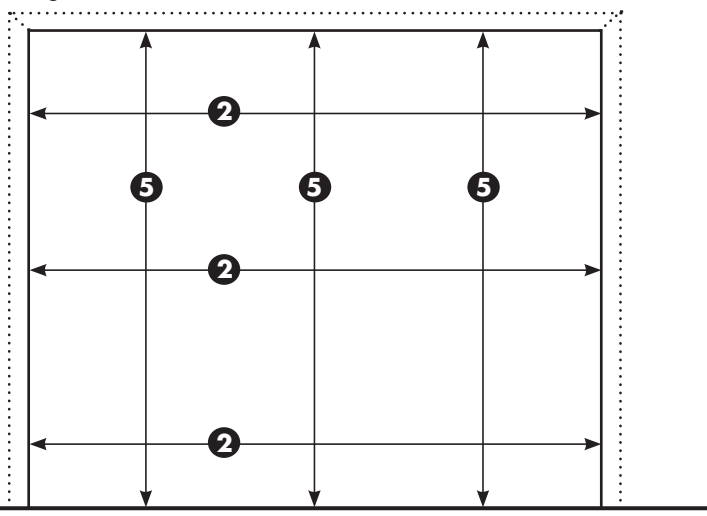
Diagram B
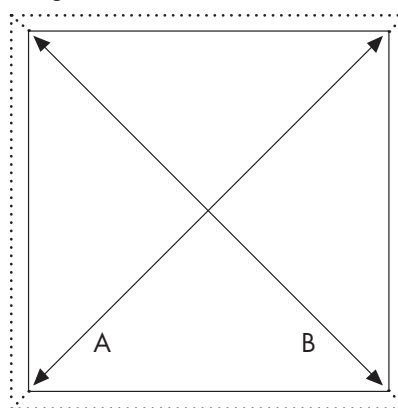
❸ Diagonal squareness check

❶ CHOICE OF FRAME SIDES AND LOUVER

Use the sample shutter panels to determine proper louver rotation. Check that your chosen louver will overcome any obstruction by placing the frame and panel in front of the obstructions. It is recommended that an inside mount have a minimum jamb depth of 2″. A one sided frame (top) can be ordered for this application. Indicate TB in the frame options section of the Order Form. If additional projection is required, request extension. Each extension is 3/4″.

❷ CHECK FOR SQUARENESS

Measure on the diagonal (see Diagram B). If the diagonal measurements are not identical, an inside mount is not recommended. An alternative way to check for a perfectly square window, simply place your panel in each of the four corners. If you find the panels are not flush in all corners, the window opening is not square.

❸ MEASURE INSIDE WIDTH

Measure in three places (top, middle, bottom) and record the smallest measurement onto a Eclipse™ Order Form if the application is for an inside mount. For an outside mount, a minimum of 2 1/4″ is required to be added to each side that a frame is required.

❹ MEASURE INSIDE HEIGHT

Measure in three places (left, middle, right) and record the smallest measurement onto a Eclipse™ Order Form if the application is for an inside mount. For an outside mount a minimum of 2 1/4″ is required to be added to the top and/or bottom that a frame is required.

❺ ONLY IF A DIVIDER RAIL IS BEING USED

The measurement recorded is determined from the bottom sill to the middle of where the divider rail is to be located. One divider rail is required for panels over 66″ with a maximum 66″ between the middle of the divider rail and either top or bottom rail. Two divider rails are required for panels over 96″ in height with a maximum 66″ between any two rails.

❻ CHOICE OF PANEL CONFIGURATION

Determine from pages H3 to H7. Complete the remainder of the Order Form. Sill Frames and Double Hungs are not applicable with the By-pass System.

❼ ORDER VALANCE

Choose between the 3 1/2″ Standard Valance or 5″ Crown Valance and select the appropriate valance returns on the track system order form. See page J5-7.

H9 ECLIPSE® SHUTTERS

1. FRAME ASSEMBLY (for 3 or 4 sided applications)

Set the provided 3″ screws into the assembly holes in the top frame. Align the screws with the screw ports inside the side frames (fasten tightly).

2. FRAME SPACERS

Spacers are placed at the ends of any top frame in which side frames are present. The spacers are located in the panel/track recesses of the top frame. The assembly screws will pass through the spacer and into the side frames.

3. INSTALLATION HOLES

Once the frames are assembled, installation holes are required by using a 3/8″ drill bit (if not pre-drilled).

A) For an inside mount, drill a 3/8″ hole through the first layer of Polyresin 3, within the mounting area every 10″ starting at each end of the frame.

B) For an outside mount, drill a 3/8″ hole through the first layer of Polyresin 3 at the front edge of the reveal of the frame every 10.

4. FRAME INSTALLATION

A) For an inside mount, fasten the top frame to the opening, making sure it is level; shim to level if necessary.

B) For an outside mount, set the frame against the wall. Level the top and fasten the top frame to the wall with the provided installation screws.

5. WHEEL CARRIERS

Insert wheel carriers inside each aluminum track. Two carriers are assigned to each panel so check the panel configuration to determine the correct number of carriers in each track.

6. ALUMINUM TRACKS

Mount aluminum tracks to the extreme left of the opening of the frame by screwing through the pre-drilled holes in the track to the extrusion indicator lines on the underside of the top frame.

7. ATTACH OPTIONAL LIGHTBLOCK BETWEEN PANELS

For Triple By-pass, one piece of ¾″ x ¾″ mounting strip is mounted at the back of the interior edge of each front panel. Drill a 3/8″ holes starting at the top, every 20″ through the first two layers of Polyresin 3. Screw the mounting strip to the panel and cap holes with button plugs.

Note: Mounting strips are 1″ shorter than the panels so there is no interference with the floor guides

.

8. HANG SHUTTERS

Push the door plates onto the adjustable nut of the wheel carriers. Lock the panels in place by rotating the plastic slide around the neck of the wheel carrier adjustable nut. To level the panels, turn the adjustable nut of the wheel carrier with the provided wrench tool.

9. ATTACH DOUBLE PANELS IF APPLICABLE

When two panels are to be attached, they are connected using hinges. Push the panels together and make sure the hinges align (adjust panels heights as needed). Open louvers and reach through to set hinge pins to connect panels or open the door and insert the hinge pins from the back side of the panels.

10. SECURE SIDE FRAMES IF APPLICABLE

Mount each side frame with the mounting screws provided so that the frames are plumb to the hanging panel. Cover the 3/8″ holes with the button plugs.

11. ATTACH VALANCE IF APPLICABLE

Attach valance brackets to the front of the frame using the included #6 x 3/4″ screws, the installation holes should be pre-drilled. Once all brackets are secure, position the channel on the back of the valance so that it rests on the bracket. The valance will need to be on a 45° angle, with the bottom of the valance farther into the room. Rotate the valance down to a vertical orientation until locked into all brackets. If the bottom of the valance with returns tilts upward, then add hinge shims behind each valance bracket. Loosen each bracket and position a shim behind the bracket, above the screw and re-tighten screw.

12. OPTIONAL FLOOR GUIDE(S)

Install floor guide(s) in-between each set of moving panels. The guides prevent the doors from swinging forward into the room or back into the opening. Large floor guides are used for triple by-pass shutters.

Diagram C - Frame Assembly

1 Insert the provided 3″ screws though the top frame

2 Line up the screw through the screw ports inside the side frames (fasten tightly)

Top Frame

Assembly
1 Holes

2 1/4″

Track/
Frame
Spacer

Location for inside mount
installation screws

Location for outside mount
installation screws

3″ Assembly
Screws

2

Screw
Ports

Panel Recess
Channels

Side Frame

8 3/8″

1 1/4″

H11 ECLIPSE®
S H U T T E R S

Wheel Carrier

Wheel Carrier

Track

Door Bracket ┈┈┈► ◄┈┈┈ Adjustment Bolt

Adjustment Bolt ┈┈┈► ◄┈┈┈ Door Bracket

Individual By-Pass Panel

Floor Guide

Wheel Carrier

Wheel Carriers

Wheel Carrier

Track

Door Bracket ┈┈┈► ◄┈┈┈ Adjustment Bolts ┈┈┈►

◄┈┈┈ Adjustment Bolts ┈┈┈► ◄┈┈┈ Door Bracket

Hinge on Rear of Panels

Joined/Coupled By-Pass
Panel 1

Joined/Coupled By-Pass
Panel 2

Hinge on Rear of Panels

Floor Guide

ECLIPSE® H12
SHUTTERS

Diagram D - Inside Mount Application

3″ Installation Screws

Valance Bracket

Triple/Open By-Pass Frame

Panel/Track Recesses

Panel/Track Recesses

Track

Wheel Carriers

Aluminum Track

Adjustment Bolts

Door Brackets

Optional 5″ Crown Valance

Shutter Panels

Note: With track secured to the frame, remove every other track screw. Replace each with a #8 x 3″ screw.

Large Floor Guide

Floor Guide Installation Screws

H13 ECLIPSE®
SHUTTERS

Diagram E - Outside Mount Application

Bracket Screws

Triple/Open
By-Pass Frame

Valance Bracket

Large OM Frame Support Bracket

Panel/Track
Recesses

Panel/Track
Recesses

Installation
Screws

Aluminum Track

Adjustment
Bolts

Optional
5" Crown Valance

Wheel Carriers

Door
Brackets

Shutter Panels

Large Floor Guide

Floor Guide Installation Screws

ECLIPSE® H14
SHUTTERS
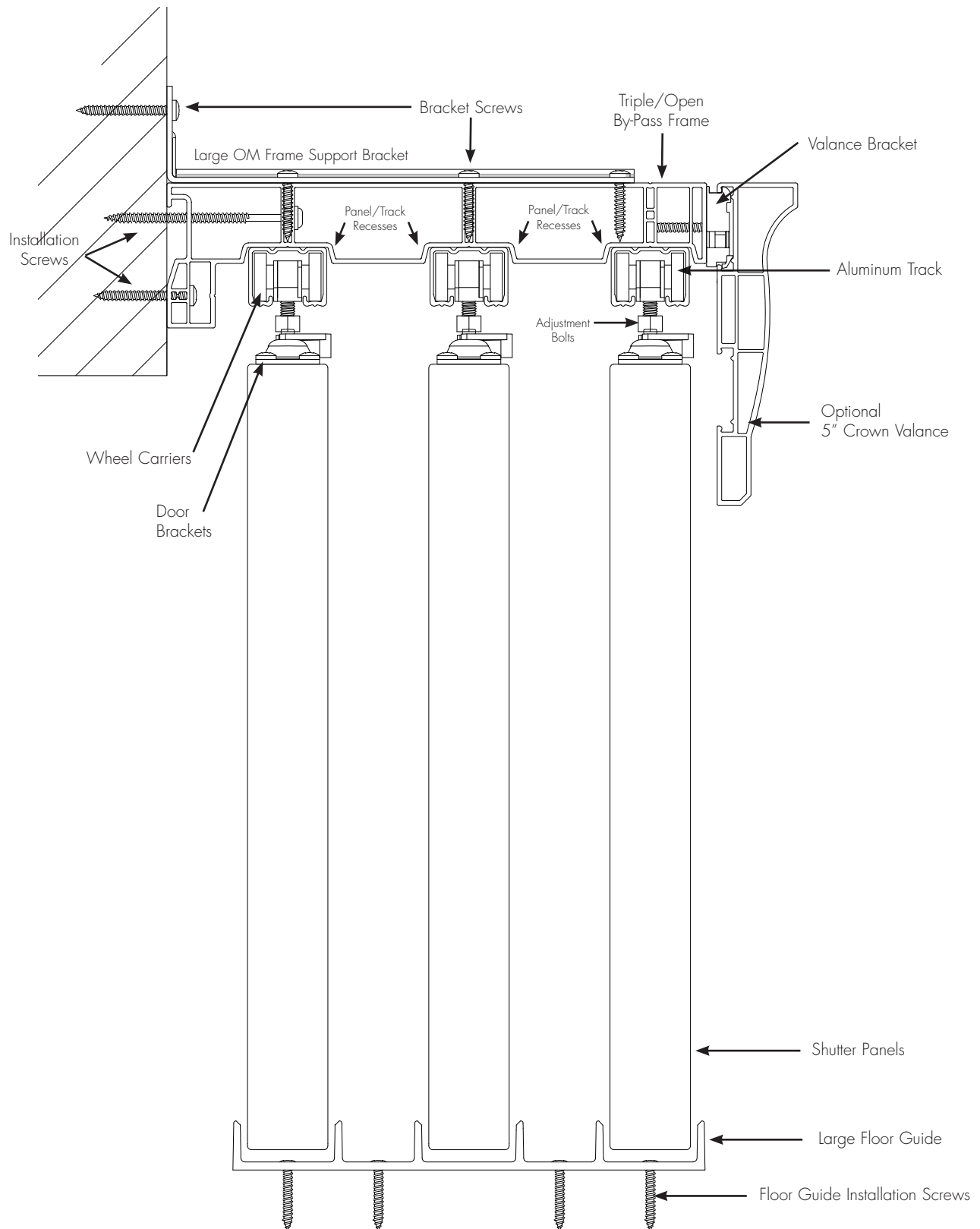
Diagram F - Frame Extension

1. The Track Frame Extension is used for By-Pass, Triple By-Pass and Bi-Fold frame systems.
2. Track Frame Extension increases the projection of the shutter by ¾".
3. Orient the extension so that it mates with the back of the frame. Use an installation screw to attach the extension to the frame, as shown below.

Triple By-Pass Frame Extension increases the projection of the frame by 3/4".

3/4"
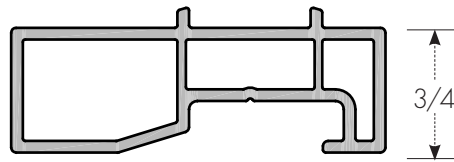
Triple By-Pass Frame with Extension

2 1/4"

3/4"
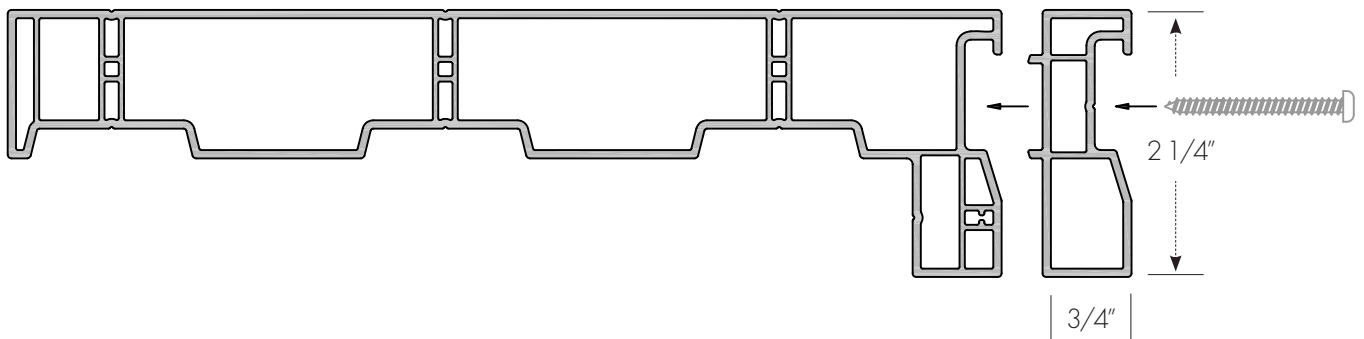
Diagram G - Joining By-Pass Panels
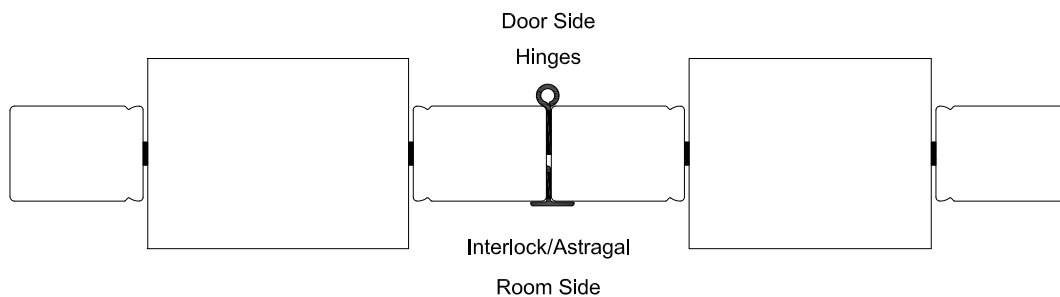
Top View

Door Side

Hinges

Interlock/Astragal

Room Side

Joining By-Pass Panels: Hang each panel individually. Adjust both panels, making sure they are level with each other. Push the panels together and insert hinge pins into hinges located on the back side of the panels. This may require reaching between the louvers or opening the door and approach from the back of the shutter.

Diagram H - Light Block Between Panels

Top view - assembly of light block
between Triple By-Pass panels
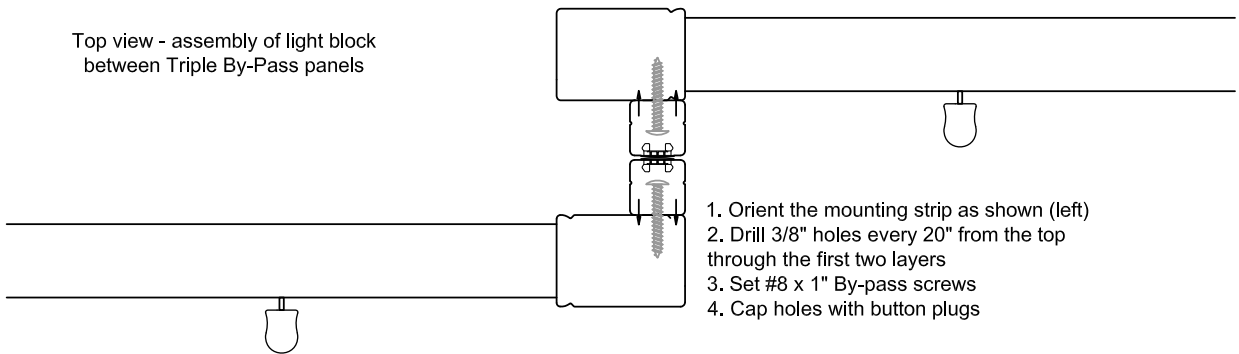
1. Orient the mounting strip as shown (left)
2. Drill 3/8" holes every 20" from the top
through the first two layers
3. Set #8 x 1" By-pass screws
4. Cap holes with button plugs

ECLIPSE® H16
SHUTTERS

1. Line #:
Indicated by numeric sequence. The line number is shown on all product labels to make installation easier.

2. Room:
Room location where the product is to be installed.

3. Type and Style:
Choose the applicable shutter Type & Hinge Style (panel configuration) and copy onto the Track System Order Form.

4. Width and Height:
The smallest increment acceptable for width is 1/16" and height is 1/8".

5. Louver Size:
Three sizes are available – California 2 1/2", Plantation 3 1/2", and 4 1/2".

6. Color:
Color options include Cotton, Pearl or Vanilla.

7. Tilt
A) Tilt Bar ("TB") is positioned in the front middle of the panel unless otherwise requested. Indicate "OFFSET TILT BAR" in the "Remarks" section.

B) Rear Tilt ("CV") is an optional rear tilt system and will always be offset on the back of the back edge of the louvers.

C) Gear ("G") is an optional gear system that is completely enclosed within the shutter panel.

8. Mount:
I.M. indicates an inside mount that can be within the opening, fully or partially recessed.

O.M. indicates an outside mount in which the frame is attached to the face of the wall or trim.

9. Frame
There are specific frames used for each of the various track systems. The By-pass Frame (BP) is 5" deep and can be inside or outside mount. The Open/Triple By-pass Frame (TB) is 8 3/8" deep and is used for both Triple By-pass and Open By-pass systems. This frame can be mounted inside or outside for either system.

10. Number of Frame Sides:
Enter the number of frame sides for each shutter. Each tracks system is available with 1, 3 or 4-sided frame.

11. Number of Extensions:
Extends the frame into the room for outside mount only. The Track Frame extension is 3/4". Enter the number of frame extensions required (0-3), to gain the proper depth clearance based on the louver size and tilt option.

12. Divider Rail:
Adds support to the panel to prevent sagging. Page A10 shows the specifications to decide on rails and D4 informs how to calculate distance up.

13. Valance Type:
3 ½" Standard Valance is the default for all By-pass Track Systems. A 5" Crown valance is optional.

14. Valance Return:
Valance can be "square" cut (no returns needed) if the frame and valance are mounted inside the opening. Standard returns for outside mounts are cut so they are in line with the back of the frame. If the returns need to be reduced by a specific amount, then note Custom on the order form.

15. Custom Return Length:
Enter the amount to be deducted from the standard return length. This is calculated by measuring the amount the frame will be recessed inside the opening. See pages J5-7.

16. Hinges:
Hinges are available in 4 color choices: Cotton, Pearl, Brass and Stainless Steel.

17. Lightblock Between Panels:
Lightblock between panels is not standard but is avail¬able upon request. Note "YES" if lightblock is needed based on the type of system being ordered.

18. Notes/Remarks:
Enter special instructions or notes regarding the order.

ECLIPSE SHUTTERS
TRACK SYSTEM ORDER FORM

Account Name:		Page _____ of _____	Reference #:
Ship to:		Date:	
Address:		Sidemark:	
City, State, Zip:		P.O. #:	
Account #:			
Phone:			
Email:			
Ordered By:			

Line	Room	Type	Hinge Style	Width × Height	Louver Size	Color	Tilt	Mount	Frame	# Frame Sides	Frame Ext	Divider Rail	Valance Type	Custom Return Length	Hinges
		P2BP P2OB P2BF P4BP P4OB P4TB	L R 2L 2R 2L2R	Inside Mount = Smallest Opening Size / Outside Mount = Largest Opening Size	2 1/2" 3 1/2" 4 1/2"	Cotton (5136) Pearl (5151) Vanilla (5140)	Tilt Bar (T) Rear Tilt (CV) Gear (G)	IM (Inside Mount) OM (Outside Mount)	BP (By-pass) TB (Triple By-pass) OB (Open By-pass) BF (Bi-fold)	1 — 3 ☐ 4 ☐	0 1 2 3	Standard or Deluxe / Distance up in inches	Bi-Fold Bypass Decorative	Amount of deduction from standard return length	C (Cotton) P (Pearl) B (Brass) SS (Stainless Steel)
1				×											
2				×											
3				×											
4				×											
5				×											
6				×											

LIGHTBLOCK BETWEEN PANELS (BY-PASS ONLY)

Line	3/4" X 3/4" STANDARD/TRIPLE BY PASS	1 1/4" X 1 3/4" OPEN BY PASS
1		
2		
3		
4		
5		
6		

NOTES/REMARKS

Line	
1	
2	
3	
4	
5	
6	

Only complete, signed orders will be processed.

Name: _____

Signature: _____

ECLIPSE SHUTTERS H18

BI-FOLD
TRACK SYSTEM

4 1/8"

3"

1 1/8"

2 1/4"

3/4"

Valance Bracket

2 1/2" Standard Valance

Shutter Panel

5/8" Bottom Clearance

ECLIPSE®
SHUTTERS

4 3/8"

3"

1 3/8"

2 1/2"

2 1/4"

3/4"

Valance Bracket

Optional 5" Crown Valance

Shutter Panel

5/8" Bottom Clearance

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SHUTTERS

12

Two Panel Bi-Fold

P2BF-2L

P2BF-2R
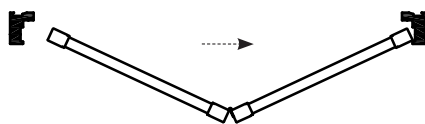
- Minimum Width: 24″
- Maximum Width: 48″
- Minimum Height: 20″
- Maximum Height: 120″

ECLIPSE®
SHUTTERS
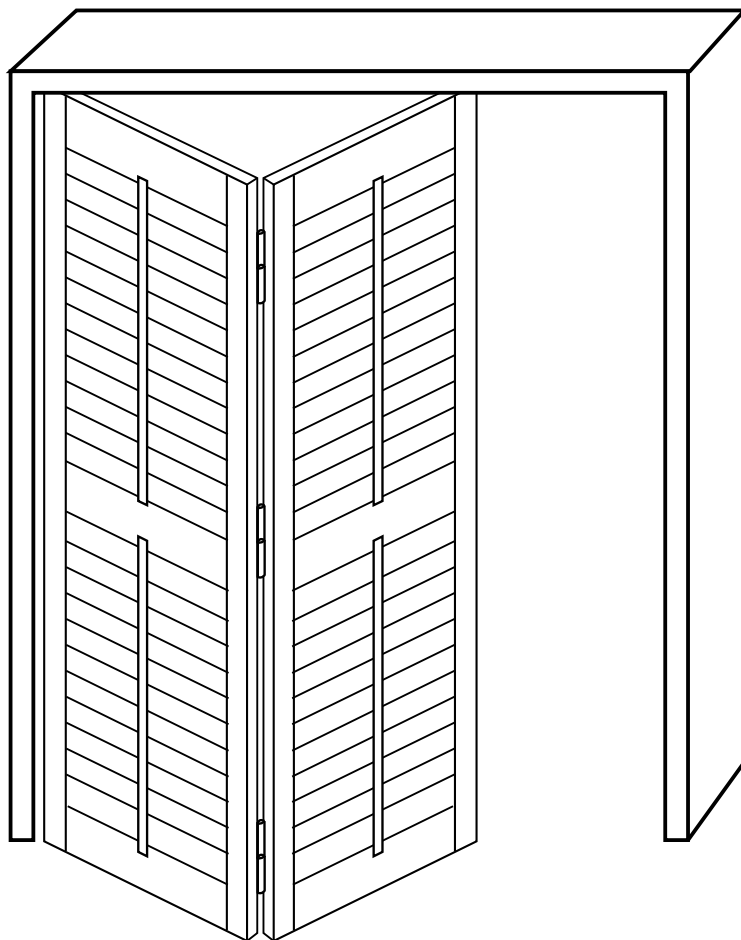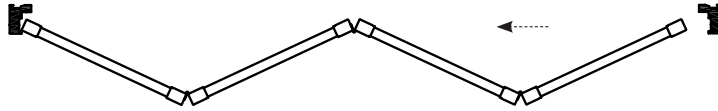
P4BF-4L

P4BF-4R
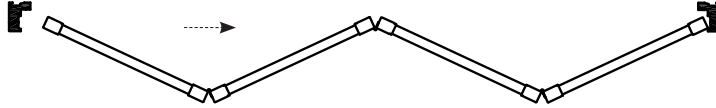
P4BF-2L2R

- Minimum Width: 48″
- Maximum Width: 96″
- Minimum Height: 20″
- Maximum Height: 120″
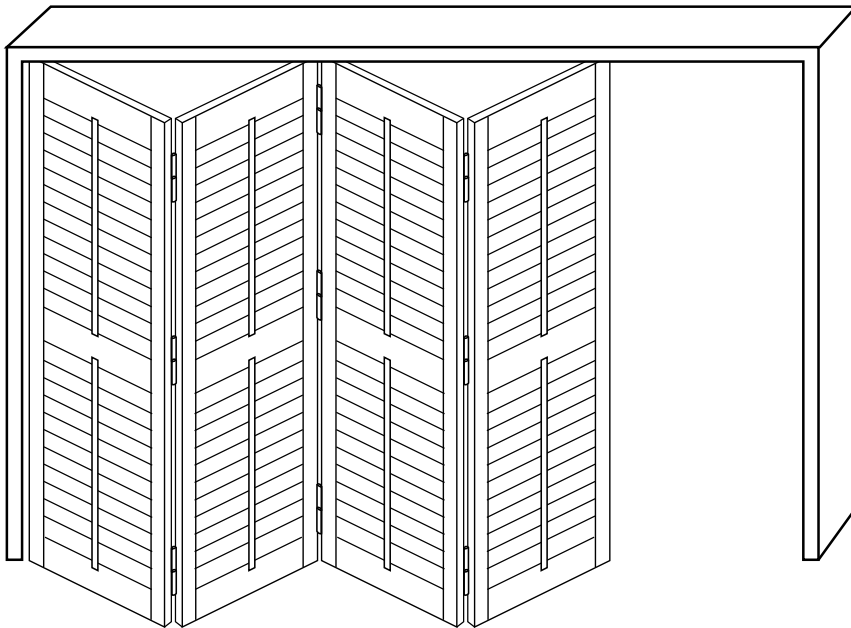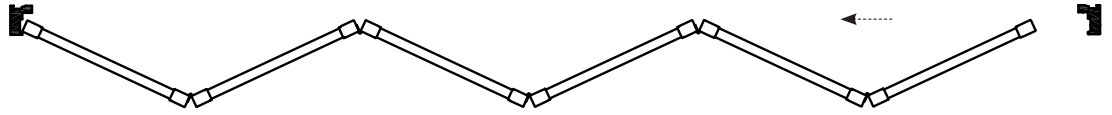
P6BF-6L

P6BF-6R
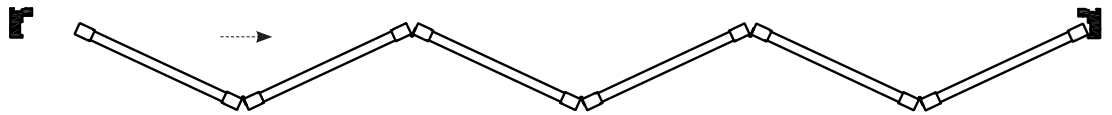
P6BF-4L-2R
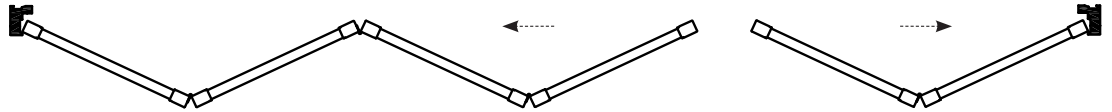
P6BF-2L-4R
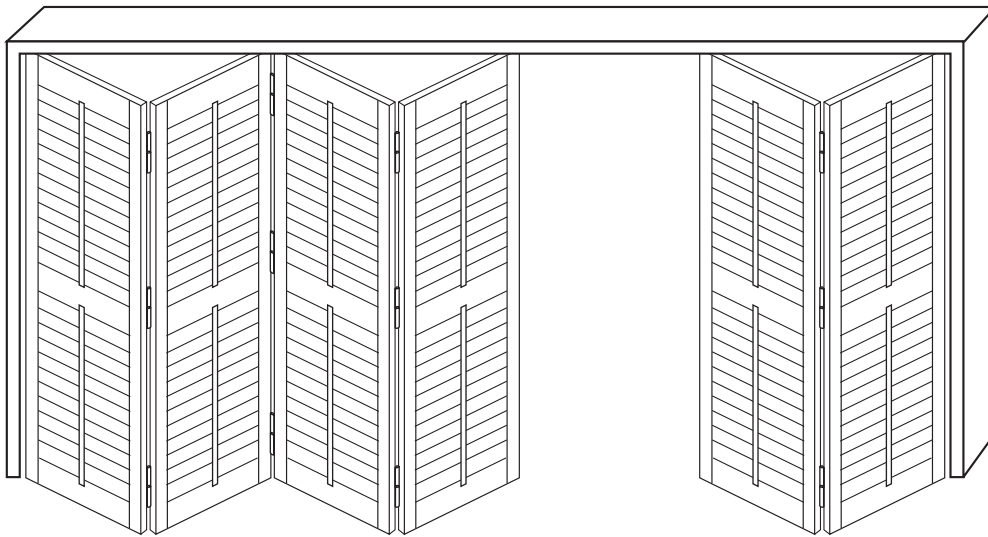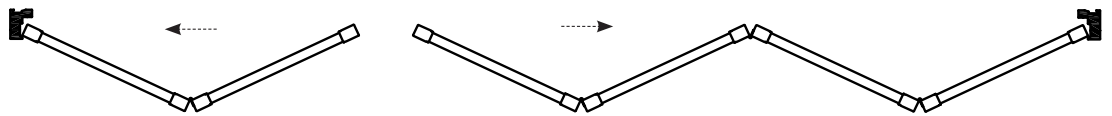
- Minimum Width: 72"
- Maximum Width: 144"
- Minimum Height: 20"
- Maximum Height: 120"

P8BF-4L-4R

P8BF-6L-2R
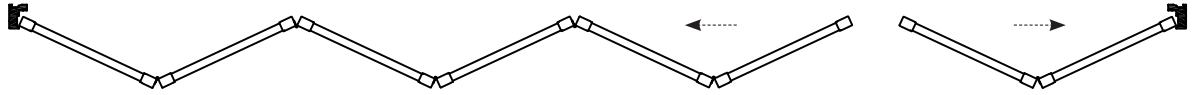
P8BF-2L-6R
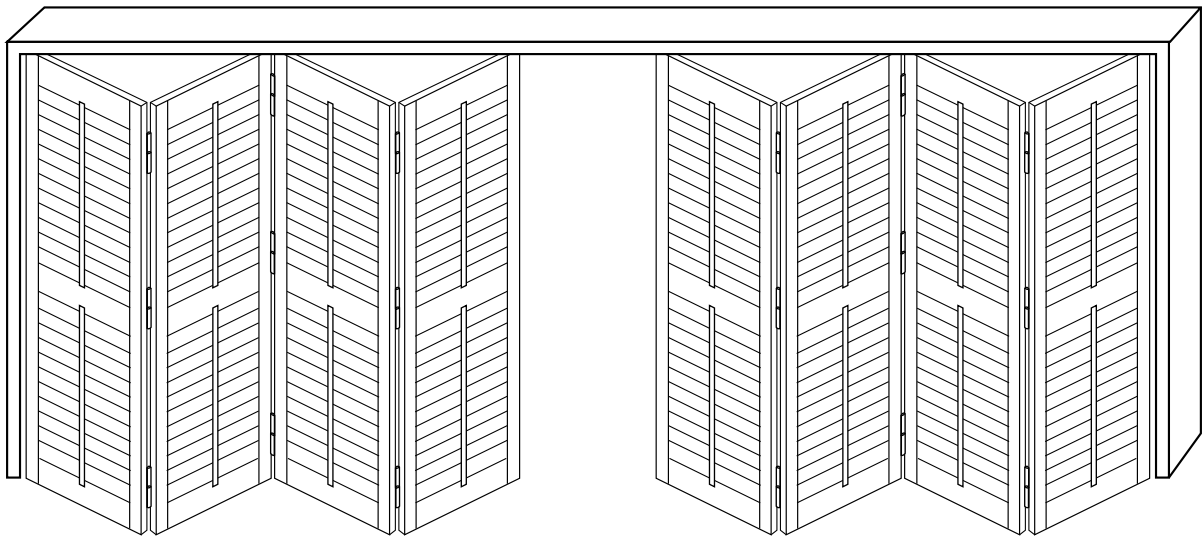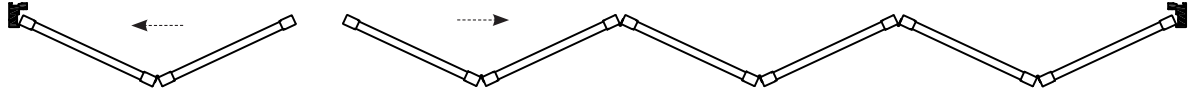
- Minimum Width: 96"
- Maximum Width: 192"
- Minimum Height: 20"
- Maximum Height: 120"

3"

**Track System Depth
Requirements**
Tilt Bar or Gear

0"   2 ½" Louver

0"   3 ½" Louver

3/16"   4 ½" Louver

**Track System Depth
Requirements**
Rear Tilt

0"   2 ½" Louver

3/16"   3 ½" Louver

11/16"   4 ½" Louver

ECLIPSE®
SHUTTERS
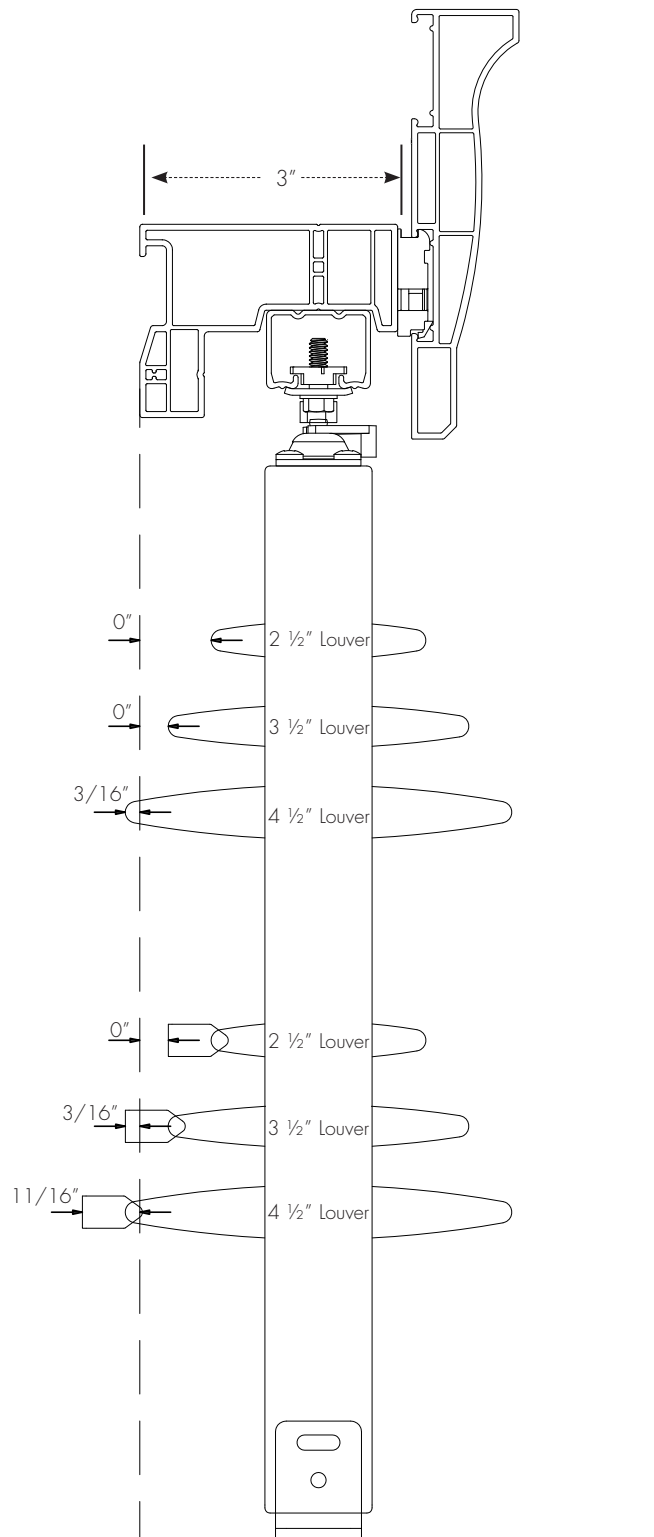
- Inside mounts must have a depth of 2″ minimum.
- Outside mount will project 4 3/8″ from wall (includes Crown Valance).

Diagram A
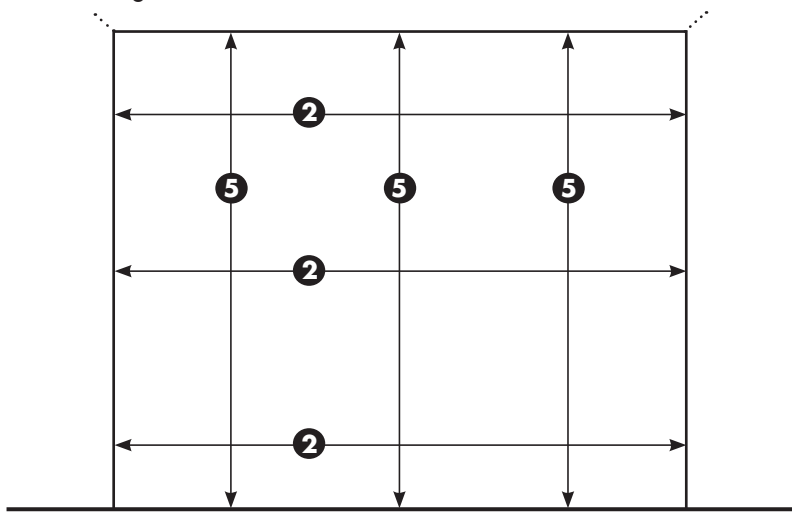
Diagram B
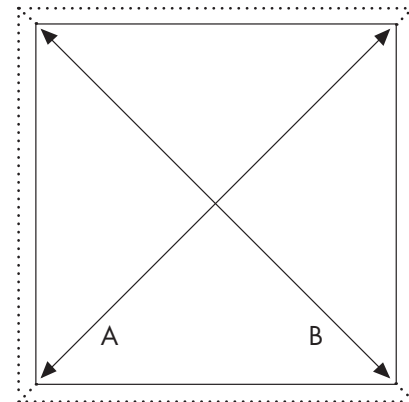
③ Diagonal squareness check

❶ CHOICE OF FRAME SIDES AND LOUVER

Use the shutter panels to determine proper louver rotation. Check that your chosen louver will overcome any obstruction by placing the frame and panel in front of the obstructions. It is recommended that an inside mount have a minimum jamb depth of 2″. A one sided frame (top) can be ordered for this application, however, a 3 or 4 sided frame is recommended for light gap control. Indicate BF in the frame options section of the Order Form. If additional projection required, request BF extension for outside mount only. Each extension is 3/4″.

❷ CHECK FOR SQUARENESS

Measure on the diagonal (see Diagram B). If the diagonal measurements are not identical, an inside mount is not recommended. An alternative way to check for a perfectly square window, simply place your panel in each of the four corners. If you find the panels are not flush in all corners, the window opening is not square.

❸ MEASURE INSIDE WIDTH

Measure in three places (top, middle, bottom) and record the smallest measurement onto an Eclipse Order Form if the application is for an inside mount. For an outside mount, a minimum of 2 3/8″ is required to be added to each side where a frame is required, or measure from outside edge of trim to outside edge of trim.

❹ MEASURE INSIDE HEIGHT

Measure in three places (left, middle, right) and record the smallest measurement onto an Eclipse Order Form if the application is for an inside mount. For an outside mount, a minimum of 2 3/8″ is required to be added to the top and/or bottom that a frame is required, or measure from outside edge of trim.

❺ BEING USED

The measurement recorded is determined from the bottom sill to the middle of where the divider rail is to be located. One divider rail is required for panels over 66″ with a maximum 66″ between the middle of the divider rail and either top or bottom rail. Two divider rails are required for panels over 96″ in height with a maximum 66″ between any two rails.

❻ CHOICE OF PANEL CONFIGURATION

Determine from pages I3-7, and complete the Order Form. Sill Frames and Double Hung are not applicable.

❼ ORDER VALANCE

Choose between the 2 1/2″ Standard Valance or 5″ Crown Valance and select the appropriate valance returns on the track system order form. See page J5-7.

Note: 5″ Crown Valance will not work if used on a flush inside mount bi-fold system.

ONLY IF A DIVIDER RAIL IS

ECLIPSE® SHUTTERS I8

1. FRAME ASSEMBLY (for 3 or 4 sided applications)

Set the provided 3″ screws into the assembly holes in the top frame. Align the screws with the screw ports inside the side frames (fasten tightly).

2. FRAME SPACERS

Spacers are placed at the ends of any top frame in which side frames are present. The spacers are located in the panel/track recesses of the top frame. The assembly screws will pass through the spacer and into the side frames.

3. INSTALLATION HOLES

Once the frames are assembled, installation holes are required by using a 3/8″ drill bit (if not pre-drilled).

A) For an inside mount, drill a 3/8″ hole through the first layer of Polyresin 3, within the mounting area every 10″ starting at each end of the frame.

B) For an outside mount, drill a 3/8″ hole through the first layer of Polyresin 3 at the front edge of the reveal of the frame every 10″.

4. FRAME INSTALLATION

A) For an inside mount, fasten the top frame to the opening, making sure it is level; shim to level if necessary. Plumb the side frames and fasten with screws provided.

B) For an outside mount, set the frame against the wall. Level the top and fasten the top frame to the wall with the provided installation screws.

5. INSERT AND ATTACH TRACK COMPONENTS

A) One Way Stacking Bi-Folds

Determine pivot or stacking side. Install Top Pivot at that end of the track. Tighten to the point it will not fall out of the track. Insert all the carriers. Insert snugger with the bumper towards the center of the track. Tighten to the point it will not fall out of the track.

B) Center Close

Install Top Pivot at the left end of the track. Tighten to the point it will not fall out of the track. Insert half of the carriers, then insert two snuggers back to back. Tighten to the point it will not fall out of the track. Insert the remaining carriers and the Top Pivot at the right end of the track and tighten to the point it will not fall out of the track

6. ALUMINUM TRACK

Mount the track with all components installed by placing the track in the recessed channel of the frame and attach provided installation screws. For inside mounts, leave out every other track screw. Installation screws will be set through the track, through the frame and into the opening.

7. MOUNT BOTTOM PIVOT(S)

Mount on the side frame or the window jamb, tight to the floor in line with indicator line on same side as top pivot. One way close will include one bottom pivot and center close will include two pivots.

8. HANG PIVOTING PANELS

First, insert the bottom pin into the bottom pivot bracket. Push the top door plate onto the adjustable nut of the top pivot. To plumb the panels, loosen the set nut on the top pivot. Move the panel until plumb then tighten set nut. The bottom pivot is also adjustable as needed.

9. HANG REMAINING PANELS

Hang panels from the pivoting panels and push remaining top door plates onto the adjustable nut of the wheel carriers. Lock the panels in place by rotating the plastic slide around the neck of each adjustable nut. Insert all hinge pins. Adjust the wheel carriers to level by using the enclosed wrench.

10. SNUGGERS

The snuggers are used to provide tension on Bi-Folding panels, so that the panels remain in position when closed. Once the panels are fully installed, loosen the set screw of the snugger and position so that the wheel carrier will slightly press against the rubber bumper.

11. ATTACH VALANCE

Attach valance brackets to the front of the frame using the included #6 x 3/4″ screws, the installation holes should be pre-drilled. Once all brackets are secure, position the channel on the back of the valance so that it rests on the bracket. The valance will need to be on a 45° angle, with the bottom of the valance farther into the room. Rotate the valance down to a vertical orientation until locked into all brackets. If the bottom of the valance with returns tilts upward, then add hinge shims behind each valance bracket. Loosen each bracket and position a shim behind the bracket, above the screw and re-tighten screw.

Diagram C - Frame Assembly

1 Insert the provided 3″ screws though the top frame

2 Line up the screw through the screw ports inside the side frames (fasten tightly)

Screw Indicator Line

Top Frame

1

(location for outside mount) 3/8″ Diameter Hole for Installation Screws

3/8″ Hole Location for Inside Mount

1/2″

2

2 1/4″

Track/Frame Spacer

Panel Guide

Screw Indicator Line

3/4″

1 1/4″

Side Frame

3″

ECLIPSE®
SHUTTERS   110

Diagram D

Pivot Point

Wheel Carrier

Track

Top Pivot with
Set Screw

Adjustment Bolt

Adjustment Bolt

Snugger with
Set Screw

Door Bracket

Door Bracket

Pane #1

Panel #2

Pivot Pin

Bottom Pivot

Adjustment Screw

Snuggers with
Set Screw

Pivot Point

Wheel Carrier

Wheel Carrier

Pivot Point

Top Pivot with
Set Screw

Track

Adjustment Bolts

Adjustment Bolts

Top Pivot with
Set Screw

Door Bracket

Door Bracket

Panel #1

Panel #2

Panel #3

Panel #4

Pivot Pin

Pivot Pin

Bottom Pivot

Bottom Pivot

Adjustment Screw

Adjustment Screw

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S H U T T E R S

Diagram E - Inside Mount

Installation Screw

5" Crown Valance
(Optional)

Panel/Track Recess

Valance Bracket

Bi-Fold Frame

Aluminum Track

Top Pivot Assembly

Door Bracket

Shutter Panel

Bottom Pivot Bracket

5/8" Bottom Clearance

Snugger

Top Pivot

Bottom Pivot

Panel Guide

Diagram F - Outside Mount

Center Line
of Pivot

Bi-Fold Frame

5" Crown Valance
(Optional)

Valance Bracket

Installation Screws

Aluminum Track

Top Pivot Assembly

Door Bracket

3/4" Top Reveal

3/8" Diameter Hole
for Installation Screws,
Capped with Button Plugs

Shutter Panel

Bottom Pivot Bracket

5/8" Bottom Clearance

Snugger

Top Pivot

Bottom Pivot

Panel Guide

113 ECLIPSE®
SHUTTERS
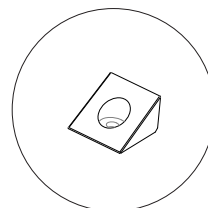
Diagram G - Frame Extension

Bi-Fold with Extension
Bi-Fold Frame Extension increases the projection of the frame by 3/4″.

2 1/4″

◄----3/4″----►

Orient the extension so that it mates with the back of the frame. Use an installation screw to attach the extension to the frame.

1. Line #:
Indicated by numeric sequence. The line number is shown on all product labels to make installation easier.

2. Room:
Room location where the product is to be installed.

3. Type and Style:
Choose the applicable shutter Type & Hinge Style (panel configuration) and copy onto the Track System Order Form.

4. Width and Height:
The smallest increment acceptable for width is 1/16" and height is 1/8".

5. Louver Size:
Three sizes are available – California 2 1/2", Plantation 3 1/2", and 4 1/2".

6. Color:
Color options include Cotton, Pearl or Vanilla.

7. Tilt
A) Tilt Bar ("TB") is positioned in the front middle of the panel unless otherwise requested. Indicate "OFFSET TILT BAR" in the "Remarks" section.

B) Rear Tilt ("CV") is an optional rear tilt system and will always be offset on the back of the back edge of the louvers.

C) Gear ("G") is an optional gear system that is completely enclosed within the shutter panel.

8. Mount:
I.M. indicates an inside mount that can be within the opening, fully or partially recessed.

O.M. indicates an outside mount in which the frame is attached to the face of the wall or trim.

9. Frame
Only one frame is available for Bi-Fold Tracks. The Bi-fold Frame (BF) is 3" deep and can be inside or outside mount.

10. Number of Frame Sides:
Enter the number of frame sides for each shutter. Bi-Fold Track systems are available with 1, 3, or 4-sided frame.

11. Number of Extensions:
Extends the frame into the room for outside mount only. The Track Frame extension is 3/4". Enter the number of frame extensions required (0-3), to gain the proper depth clearance based on the louver size and tilt option.

12. Divider Rail:
Adds support to the panel to prevent sagging. Page A10 shows the specifications to decide on rails and D4 informs how to calculate distance up.

13. Valance Type:
2 ½" Standard valance is the default for Bi-fold Track Systems. A 5" Crown valance is optional.

14. Valance Return:
Valance can be "square" cut (no returns needed) if the frame and valance are mounted inside the opening. Standard returns for outside mounts are cut so they are in line with the back of the frame. If the returns need to be reduced by a specific amount, then note Custom on the order form.

15. Custom Return Length:
Enter the amount to be deducted from the standard return length. This is calculated by measuring the amount the frame will be recessed inside the opening. See pages J5-7.

16. Hinges:
Hinges are available in 4 color choices: Cotton, Pearl, Brass and Stainless Steel.

17. Notes/Remarks:
Enter special instructions or notes regarding the order.

ECLIPSE® SHUTTERS

TRACK SYSTEM ORDER FORM

Account Name:		Page ____ of ____	Reference #:
Ship to:		Date:	
Address:		Sidemark:	
City, State, Zip:		P.O. #:	
	Account #:		
	Phone:		
	Email:		
	Ordered By:		

Line	Room	Type	Hinge Style	Width × Height	Louver Size	Color	Tilt	Mount	Frame	# Frame Sides	Frame Ext	Divider Rail		Valance Type	Custom Return Length	Hinges
		P2BP P2OB P2BF P4BP P4OB P4TB	L R 2L 2R 2L 2R	Inside Mount = Smallest Opening Size Outside Mount = Largest Opening Size	2 1/2" 3 1/2" 4 1/2"	Cotton (5136) Pearl (5151) Vanilla (5140)	Tilt Bar (T) Rear Tilt (CV) Gear (G)	IM (Inside Mount) OM (Outside Mount)	BP (By-pass) TB (Triple By-pass) OB (Open By-pass) BF (Bi-fold)	1 3 4	0 1 2 3	Standard or Deluxe	Distance up in inches	Bi-Fold Bypass Decorative	Amount of deduction from standard return length	C (Cotton) P (Pearl) B (Brass) SS (Stainless Steel)
1				×												
2				×												
3				×												
4				×												
5				×												
6				×												

LIGHTBLOCK BETWEEN PANELS (BY-PASS ONLY)

Line	3/4" X 3/4" STANDARD/TRIPLE BY PASS	1 1/4" X 1 3/4" OPEN BY PASS
1		
2		
3		
4		
5		
6		

NOTES/REMARKS

1	
2	
3	
4	
5	
6	

Only complete, signed orders will be processed.

Name:

Signature:

ECLIPSE® SHUTTERS **116**

TRACK SYSTEM VALANCES

Left Valance
Return

Valance Brackets

Right Valance
Return

Front Valance
(5" Crown Valance Shown)

Optional
Corner Key

FEATURES AND BENEFITS

1. Three valance options available:

   • 5" Crown Valance
   • By-pass Valance (3 1/2")
   • Bi-Fold Valance (2 1/2")

2. Corner keys can be used to assist in the assembly of valance returns.
3. Valance brackets used to attached valance assembly to frame.

VALANCE RETURN OPTIONS

1. Square cut no returns.
2. Standard valance return extends to back of frame.
3. Custom valance return (provide amount to be deducted from standard valance return length).
See pages J5-7 for additional details and dimensions.

5" Crown Valance
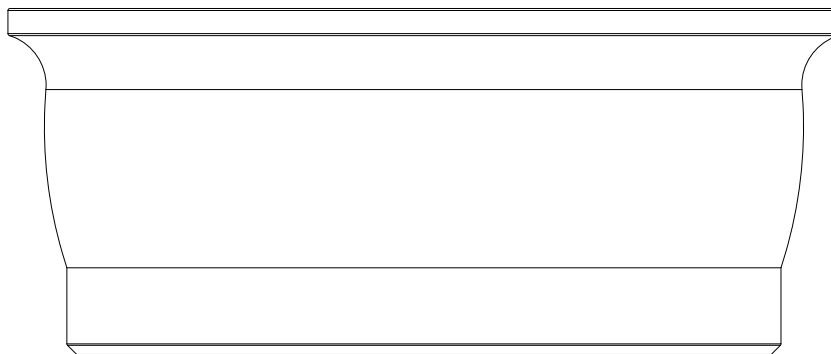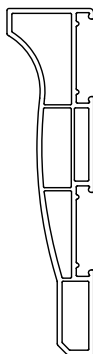
Optional for all track systems

3 1/2" Standard Valance
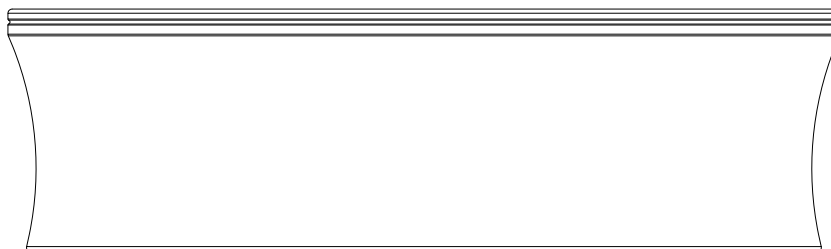
Standard for all by-pass track systems

2 1/2" Standard Valance
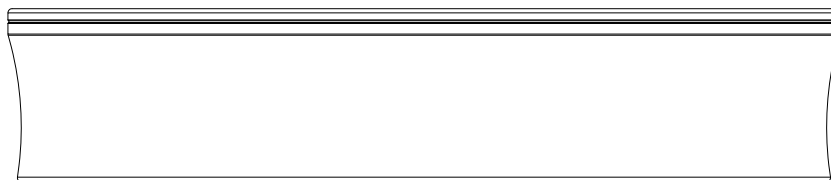
Standard for all bi-fold track systems

1. Attach valance brackets to the front of the frame using the included #6 x 3/4" bypass screws, the installation holes should be pre-drilled. Brackets should be 6" from each end of the frame and spaced no more than 18" apart.
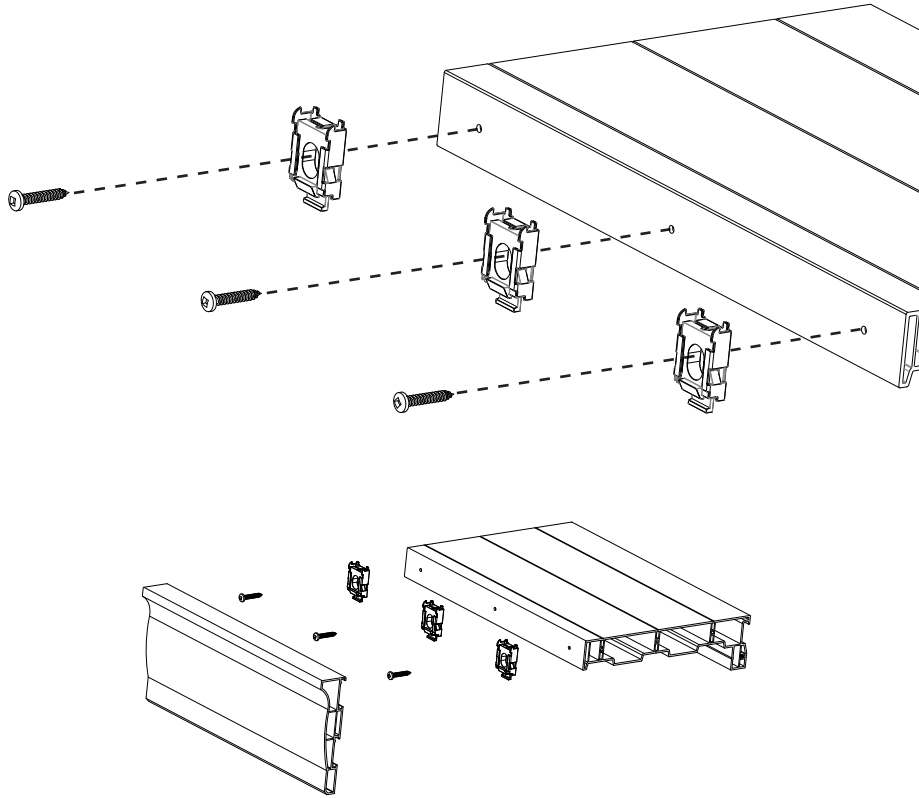
2. Once all brackets are secure, position the channel on the back of the valance so that it rests on the bracket. If using the optional 5" Crown Valance, the top channel is for By-Pass Track while the bottom channel is for Bi-Fold Track. The valance will need to be on a 45 degree angle (the bottom of the valance farther into the room).

J3 ECLIPSE®
SHUTTERS
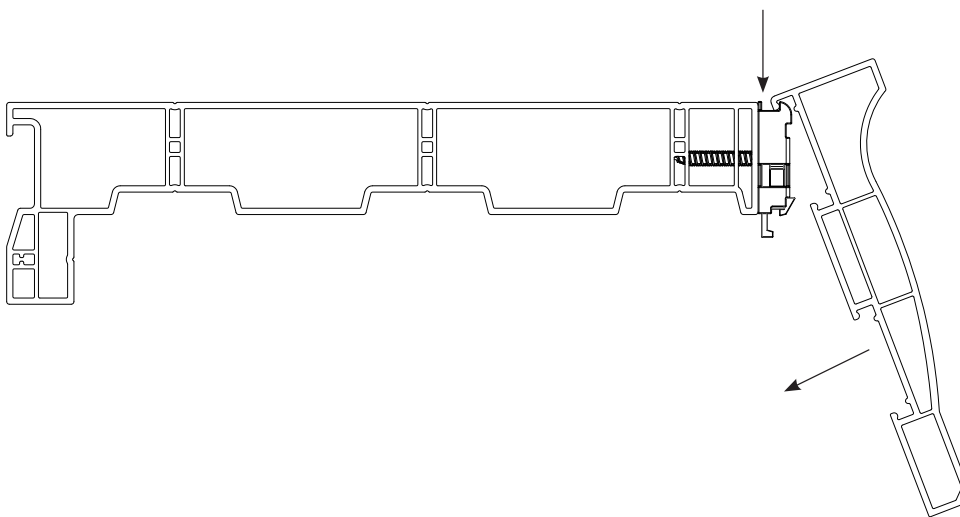
3. Rotate the bottom of the valance down and back to a vertical orientation until locked into all brackets.
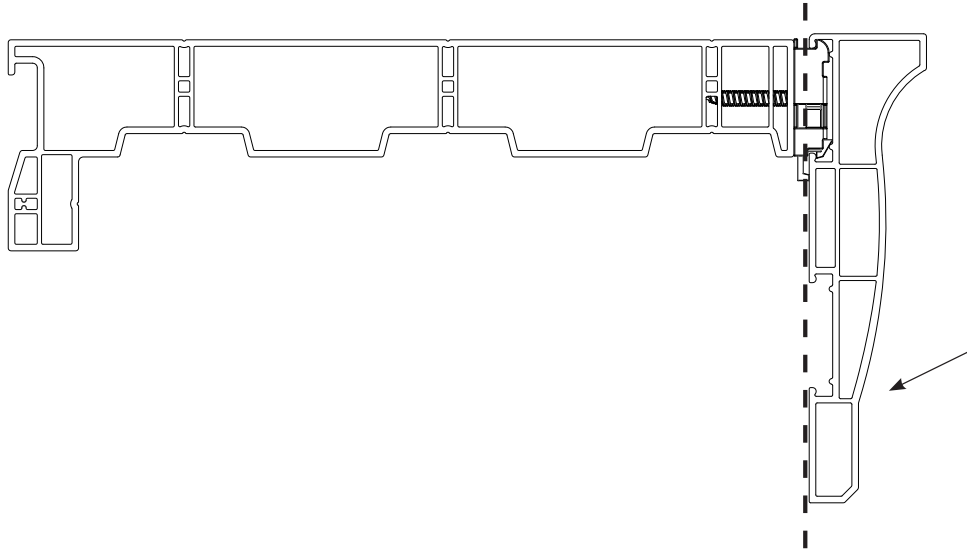
If the bottom of the valance with returns tilts upward, then add hinge shims behind each valance bracket.
Loosen each bracket and position a shim behind the bracket, above the screw and re-tighten screw.

4. To remove the valance, use a flat head screwdriver or similar, push up on the plastic tab located at the bottom of the valance bracket. Repeat this for each bracket while holding the valance. Once all brackets are released, rotate the valance up and out to remove.

ECLIPSE® SHUTTERS J4
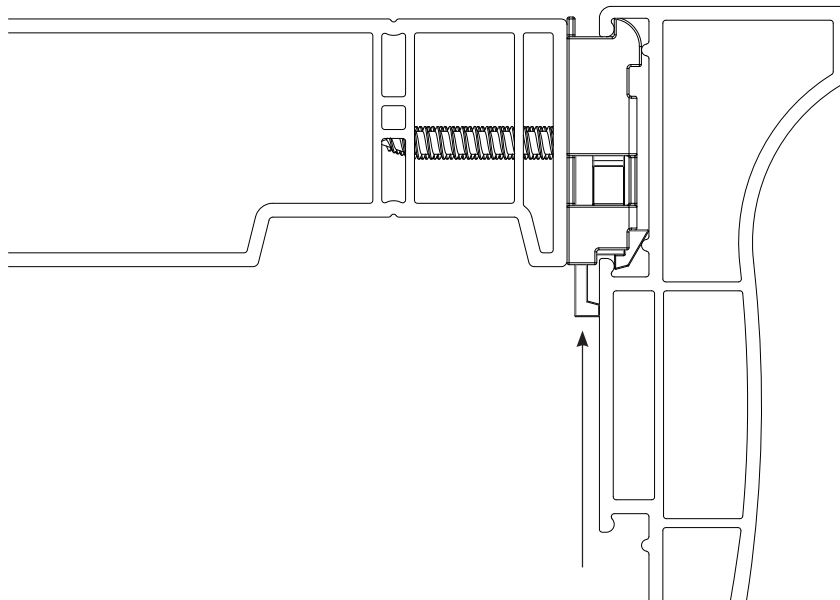
Inside Mount
Fully recessed frame - square cut valance

Bi-fold Frame

3.00"
4.125"

3.00"
4.375"

1.00"   2 1/2" Standard Valance

5" Crown Valance   1.25"

By-pass Frame

5.00"
6.25"

5.00"
6.375"

1.125"   3 1/2" Standard Valance

5" Crown Valance   1.25"

Triple/Open By-pass Frame

8.375"
9.625"

8.375"
9.75"

1.125"   3 1/2" Standard Valance

5" Crown Valance   1.25"
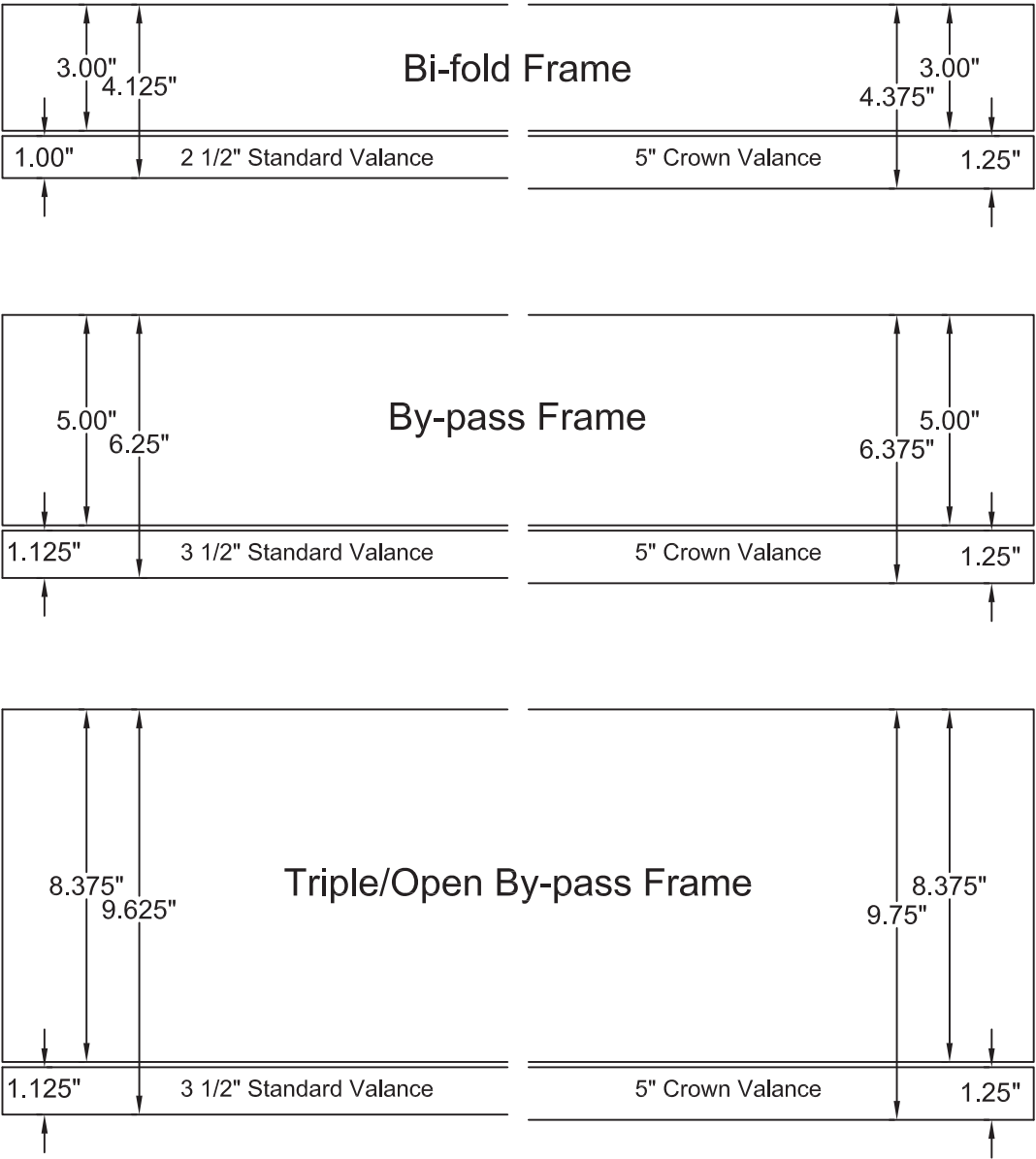
ECLIPSE®
S H U T T E R S

Outside Mount
Standard full length valance returns

Bi-fold Frame

3.00"
4.125"

3.00"
4.375"

1.00"   2 1/2" Standard Valance   5" Crown Valance   1.25"

By-pass Frame

5.00"
6.25"

5.00"
6.375"

1.125"   3 1/2" Standard Valance   5" Crown Valance   1.25"

Triple/Open By-passFrame

8.375"
9.625"

8.375"
9.75"

1.125"   3 1/2" Standard Valance   5" Crown Valance   1.25"

ECLIPSE® SHUTTERS   J6
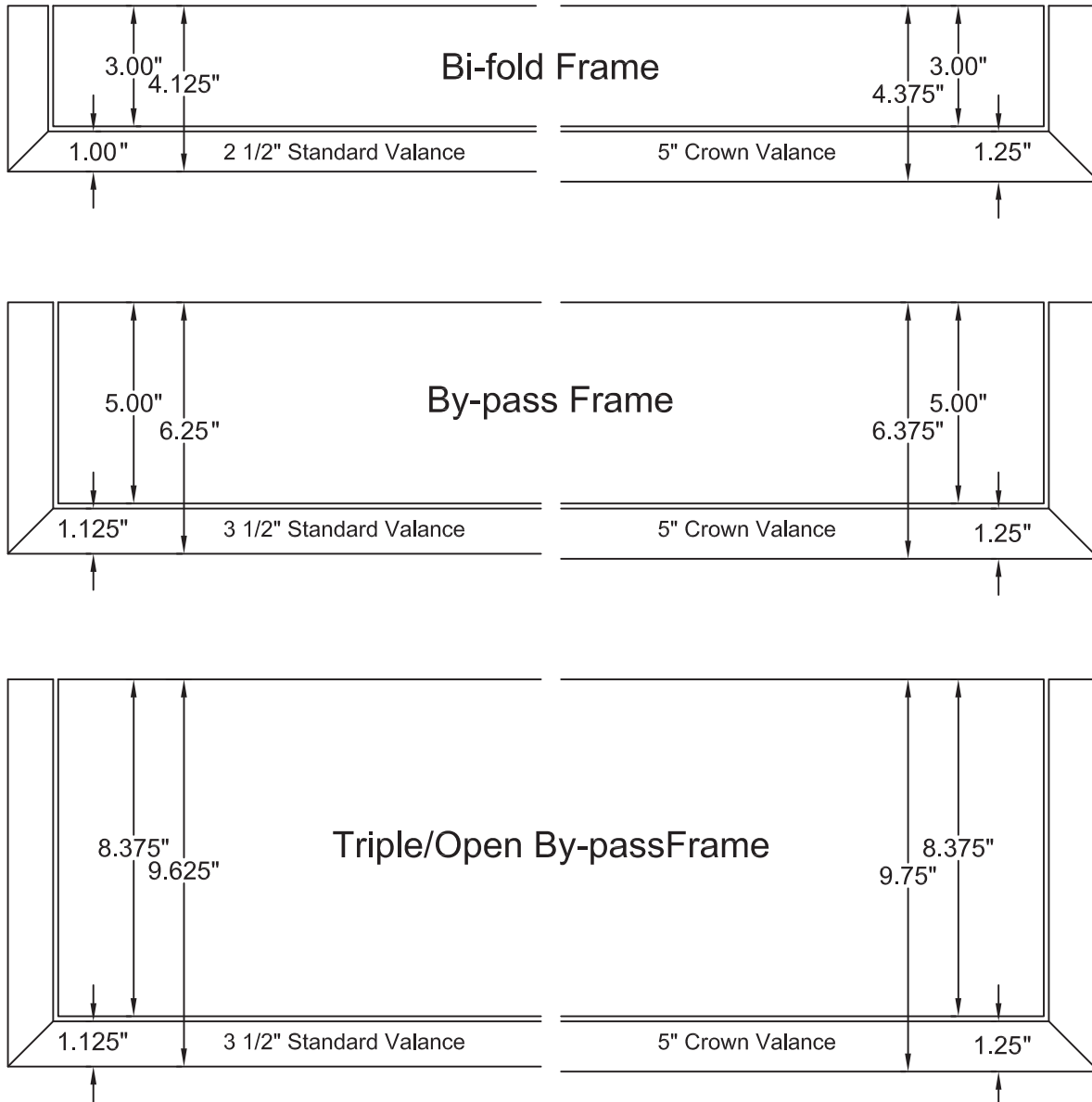
Custom Returns
Optional for IM or OM Track Systems

Deduction

Bi-fold Frame

4.125"

4.375"

Deduction

2 1/2" Standard Valance

5" Crown Valance

Deduction

By-pass Frame

6.25"

6.375"

Deduction

3 1/2" Standard Valance

5" Crown Valance

Deduction

By-pass Frame

9.625"

9.75"

Deduction

3 1/2" Standard Valance

5" Crown Valance
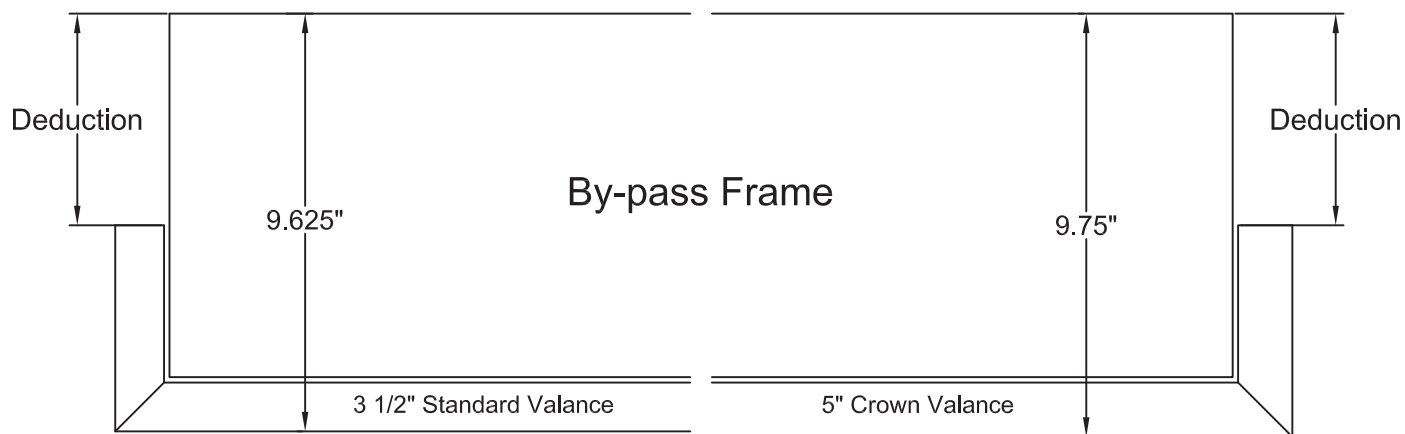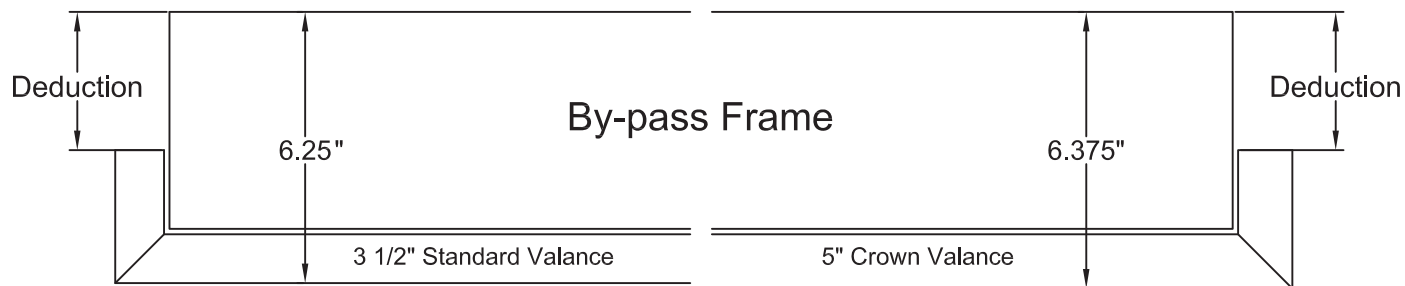
Note the amount to deduct for custom return length on
the Eclipse Shutters Track System Order Form

J7 ECLIPSE®
SHUTTERS

SPECIALTY SHAPES

The Eclipse Specialty Shapes (U.S. Patent # U58, 205, 384 B2) have been uniquely designed to incorporate horizontal louvers which provides a consistent look with the shutters below. Vertical supports divide larger arches into multiple sections which can also match the shutter below. By using the same frames, louvers, and tilt control as our traditional shutters, the result is a stunning, seamless look.

Labels (diagram): Vertical Support · Off Set Tilt Bar · Panel Lock · Frame · Bottom Spacer · Hinge · Arch Base · Sill Frame · Hinge · Off Set Tilt Bar · Louvers · Louver Support Blocks · Hinge
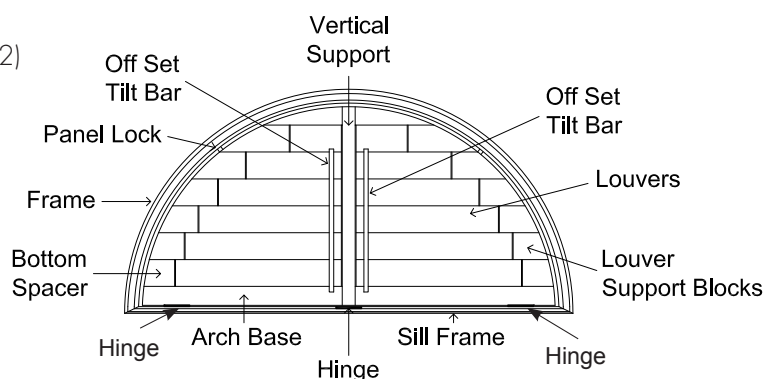
LOUVER OPTIONS

Louvers operate freely in both directions

- 2½"
- 3½"

Note: 4½" Louver not available

2½"

3½"

COLORS

- Cotton   - Pearl   - Vanilla

FRAME OPTIONS

- Deluxe Trim Frame (Inside Mount Only)
- Trim Frame (Inside Mount Only)
- Z Frame (Inside Mount Only)
- Bullnose Z Frame (Inside Mount Only)
- L Frame (Inside or Outside Mount)
- Casing Frame (Outside Mount Only)
- Casing Sill Frame (Inside or Outside Mount)
- S Frame (Outside Mount Only)
- No Frame (Magnet Attachment)

Deluxe Trim   Trim   Z   Bullnose Z

L   Casing   Casing Sill   S
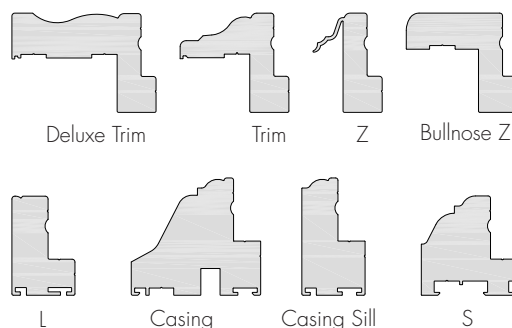
PRICING

Arch pricing is based on either the width or height, which ever is greater (rounded up to the next full inch). Shipping charges apply. Linear Width (in Inches) x Price Per Linear Inch = Arch Price + Shipping Charges or Linear Height (in Inches) x Price Per Linear Inch = Arch Price + Shipping Charges

TEMPLATES

Templates are not required unless the radius is inconsistent (see page K23 for details). The order form has been designed to capture the information required for building an arch. It may be necessary to provide a sketch that contains all dimensions of the opening (see page K17-18 for details).

TILT OPTIONS

- Tilt Bar - Available for any arch, either front or rear center or front off set.
- Rear Tilt - Available only if the arch has a full length straight side or a vertical support.
- Gear - Not available.

The size and configuration of the shutter will, in many cases, determine the tilt mechanism.

Example: A half-circle with no vertical support would have a tilt bar (either front or rear), but a half-circle with 1 vertical support could have either Rear Tilt on each section or an off-set tilt bar. See the diagrams below.

Half-Circle with Tilt Bar (Front Center)
No Vertical Support

Half-Circle with Tilt Bar (Off Set)
One Vertical Support

Half-Circle with Tilt Bar
Two Vertical Supports

Half-Circle with Tilt Bar
Three Vertical Supports

Half-Circle with Rear Tilt
One Vertical Support

Half-Circle with Rear Tilt
Two Vertical Supports

Half-Circle with Rear Tilt
Three Vertical Supports
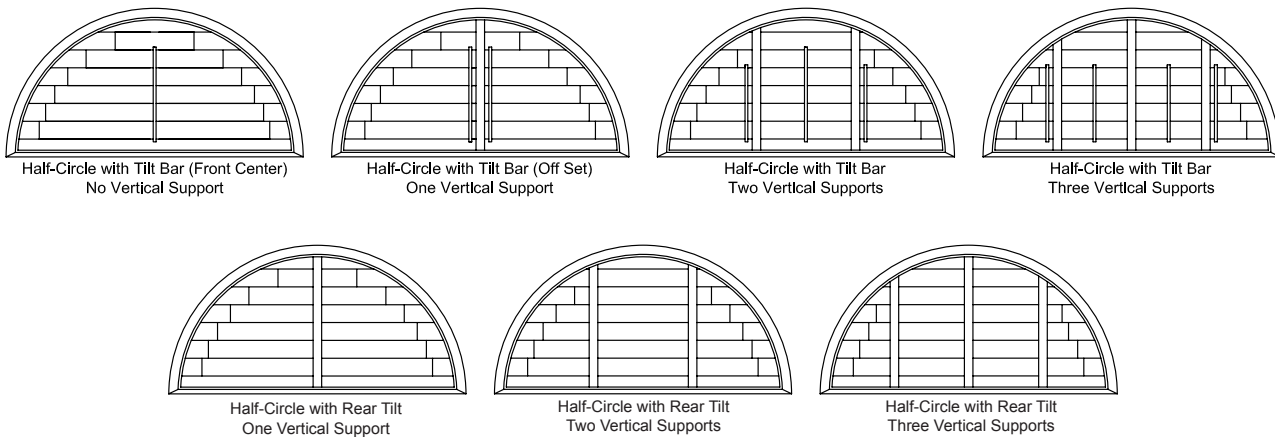
Each section of an arch includes its own set of louvers and a tilt mechanism (Tilt Bar or Rear Tilt).

ARCH PANEL ATTACHMENT

- Once the frame is installed, the panel snaps into place. Magnets will be supplied to ensure the panel is secure.
- Magnets are used for no frame mounts.
- Hinges will be installed on all shapes with a straight bottom to connect the panel to the frame.
- Panel Lock – spring loaded plungers, lock into a groove in the frame. These are used for all curved frames.

Hinges Attach
Panels To Frames

Panel

Bottom Frames

Hinges

ECLIPSE® SHUTTERS K2
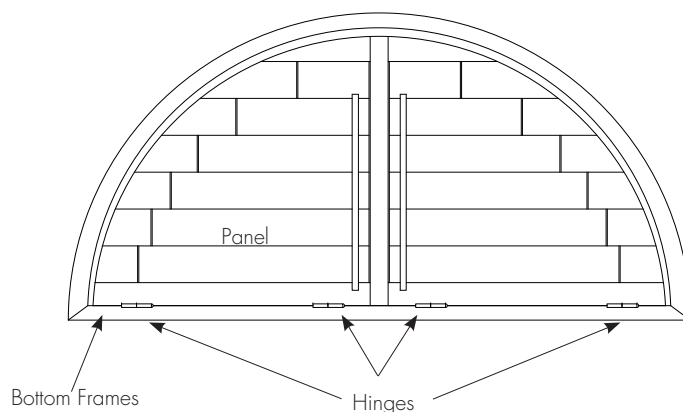
Shapes and Specifications

QUARTER-CIRCLE LEFT
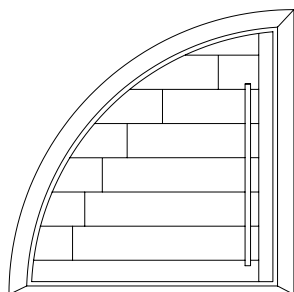
Quarter-Circle Left with Tilt Bar
& No Vertical Support
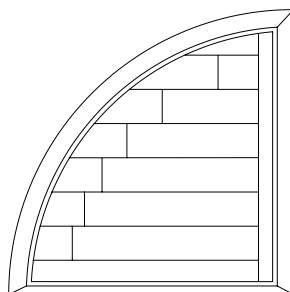
Quarter-Circle Left with Rear Tilt
& No Vertical Support

Quarter-Circle Left with Tilt Bar
& 1 Vertical Support

Quarter-Circle Left with Rear Tilt
& 1 Vertical Support
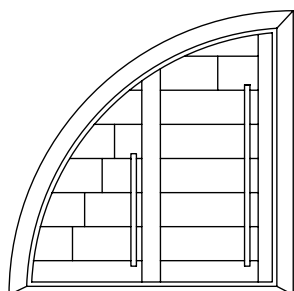
Specifications - No Vertical Support
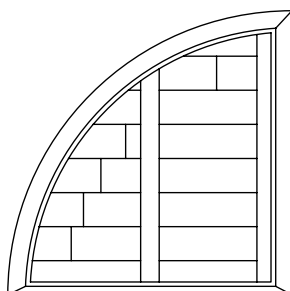
Minimum Width:	12"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	30"

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	40"
Minimum Height:	24"
Maximum Height:	40"

QUARTER-CIRCLE RIGHT
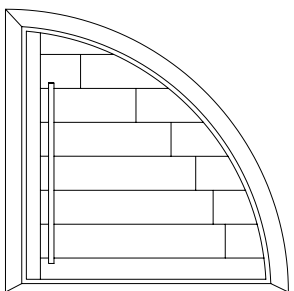
Quarter-Circle Right with Tilt Bar
& No Vertical Support
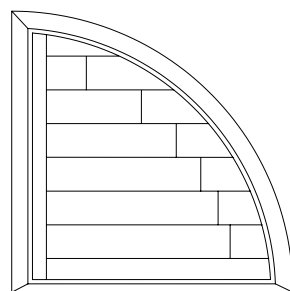
Quarter-Circle Right with Rear Tilt
& No Vertical Support
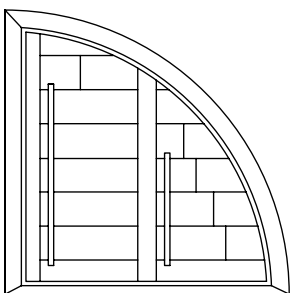
Quarter-Circle Right with Tilt Bar
& 1 Vertical Support

Quarter-Circle Right with Rear Tilt
& 1 Vertical Support

Specifications - No Vertical Support
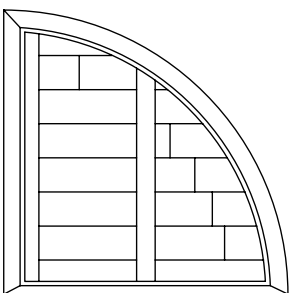
Minimum Width:	12"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	30"

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	40"
Minimum Height:	24"
Maximum Height:	40"

Note: The height of a quarter-circle equals the width.

K3 ECLIPSE®
SHUTTERS

HALF-CIRCLE

Half-Circle with Tilt Bar & No Vertical Support

Half-Circle with Rear Tilt & 1 Vertical Support

Half-Circle with Tilt Bar, and 2 Vertical Supports

Half-Circle with Rear Tilt & Tilt Bar, and 3 Vertical Supports

Specifications - No Vertical Support

Minimum Width:	24"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	15"

*Rear Tilt **not** available*

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	60"
Minimum Height:	12"
Maximum Height:	30"

Rear Tilt or off-set tilt bar optional

Specifications - Two Vertical Supports

Minimum Width:	24"
Maximum Width:	72"
Minimum Height:	12"
Maximum Height:	36"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

Specifications - Three Vertical Supports

Minimum Width:	24"
Maximum Width:	92"
Minimum Height:	12"
Maximum Height:	46"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

Note: The height of a half circle measures 1/2 the width. If the height measures more than 1" over half the width, then specify a tunnel. If the height measures 1" less than half the width, then specify an elliptical.

See Page K2 for available tilt options.

ECLIPSE®
SHUTTERS **K4**

Shapes and Specifications

ELLIPTICAL
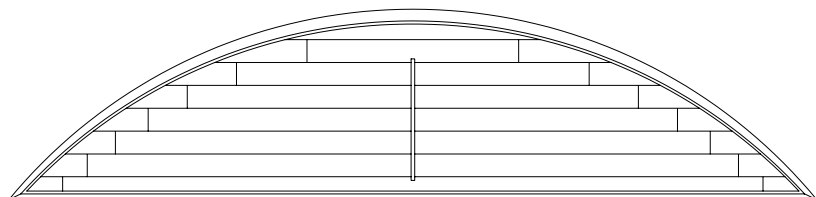
Elliptical with Tilt Bar & No Vertical Support

Specifications - No Vertical Support

Minimum Width:	24"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	15"

*Rear Tilt **not** available*
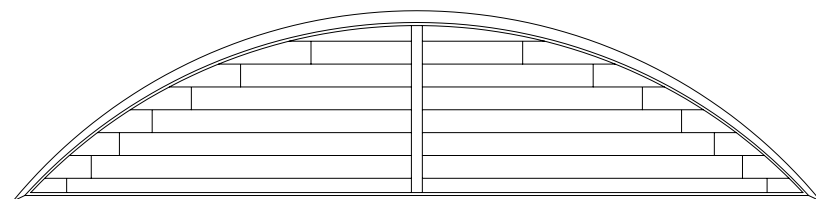
Elliptical with Rear Tilt & 1 Vertical Support

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	60"
Minimum Height:	12"
Maximum Height:	30"

Rear Tilt or off-set tilt bar optional
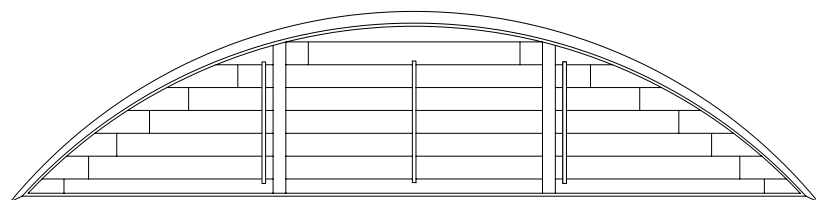
Elliptical with Tilt Bar, and 2 Vertical Supports

Specifications - Two Vertical Supports

Minimum Width:	24"
Maximum Width:	72"
Minimum Height:	12"
Maximum Height:	36"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)
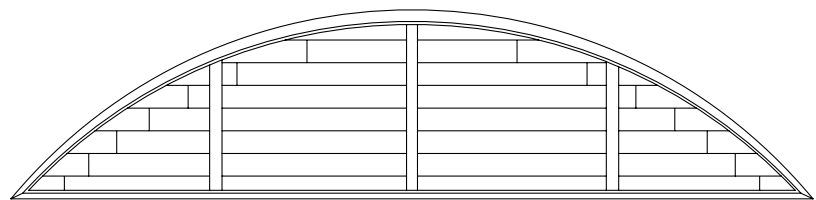
Elliptical with Rear Tilt & Tilt Bar, and 3 Vertical Supports

Specifications - Three Vertical Supports

Minimum Width:	24"
Maximum Width:	92"
Minimum Height:	12"
Maximum Height:	46"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

ECLIPSE®
SHUTTERS
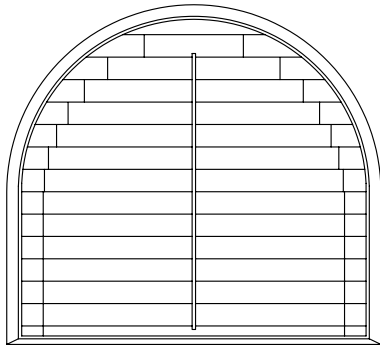
TUNNEL

Tunnel with Tilt Bar & No Vertical Support
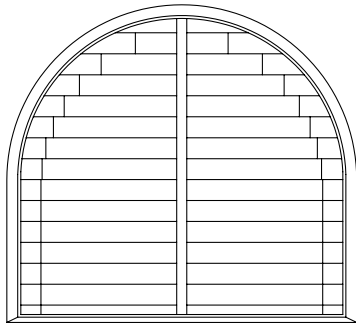
Tunnel with Rear Tilt & 1 Vertical Support
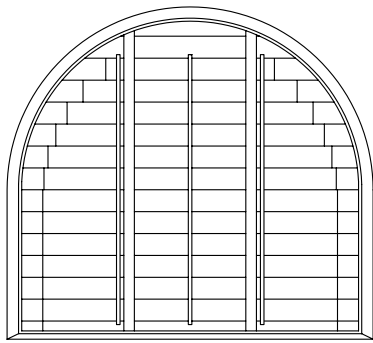
Tunnel with Tilt Bar and Rear Tilt, and
2 Vertical Supports

Tunnel with Rear Tilt, and
3 Vertical Supports

Specifications - No Vertical Support

Minimum Width:	24"
Maximum Width:	30"
Minimum Height:	16"
Maximum Height:	39"
Minimum Leg Length:	3.5"
Maximum Leg Length:	24"

*Rear Tilt **not** available*

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	39"
Minimum Height:	16"
Maximum Height:	39"
Minimum Leg Length:	3.5"
Maximum Leg Length:	24"

Rear Tilt or off-set tilt bar optional

Specifications - Two Vertical Supports

Minimum Width:	24"
Maximum Width:	48"
Minimum Height:	16"
Maximum Height:	39"
Minimum Leg Length:	3.5"
Maximum Leg Length:	24"

*Rear Tilt and tilt bar optional (tilt bar on
outside sections will be off-set only)*

Specifications - Three Vertical Supports

Minimum Width:	24"
Maximum Width:	48"
Minimum Height:	16"
Maximum Height:	39"
Minimum Leg Length:	3.5"
Maximum Leg Length:	24"

*Rear Tilt and tilt bar optional (tilt bar on
outside sections will be off-set only)*

*Note: A Tunnel is an extended Half Circle. The height minus the leg height should
equal 1/2 of the width. See Page K2 for available tilt options.*

ECLIPSE®
SHUTTERS K6

Shapes and Specifications

EYEBROW
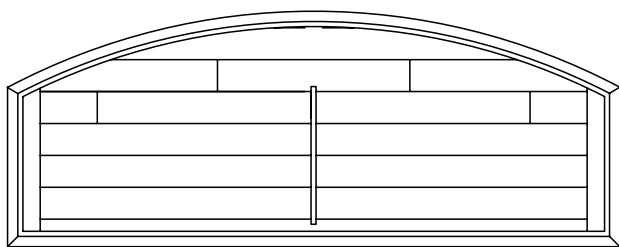
Eyebrow with Tilt Bar & No Vertical Support

Specifications - No Vertical Support

Minimum Width:	24"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	36"
Minimum Leg Length:	7"
Maximum Leg Length:	24"

*Rear Tilt **not** available*
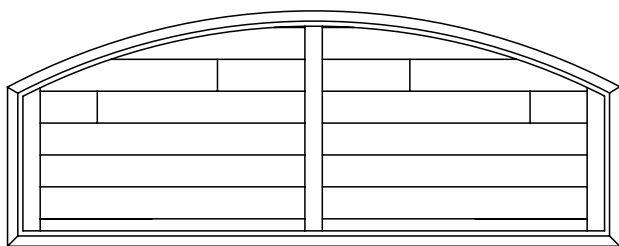
Eyebrow with Rear Tilt & 1 Vertical Support

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	60"
Minimum Height:	12"
Maximum Height:	36"
Minimum Leg Length:	7"
Maximum Leg Length:	24"

Rear Tilt or off-set tilt bar optional

Eyebrow with Tilt Bar, and 2 Vertical Supports

Specifications - Two Vertical Supports

Minimum Width:	24"
Maximum Width:	72"
Minimum Height:	12"
Maximum Height:	36"
Minimum Leg Length:	7"
Maximum Leg Length:	24"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

Eyebrow with Rear Tilt, and 3 Vertical Supports

Specifications - Thee Vertical Supports

Minimum Width:	24"
Maximum Width:	108"
Minimum Height:	12"
Maximum Height:	36"
Minimum Leg Length:	7"
Maximum Leg Length:	24"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

K7 ECLIPSE® SHUTTERS

FULL RAKE

Full Rake with Tilt Bar & No Vertical Support

Specifications - No Vertical Support

Minimum Width:	24"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	48"
Minimum Leg Length:	7"
Maximum Leg Length:	24"

*Rear Tilt **not** available*
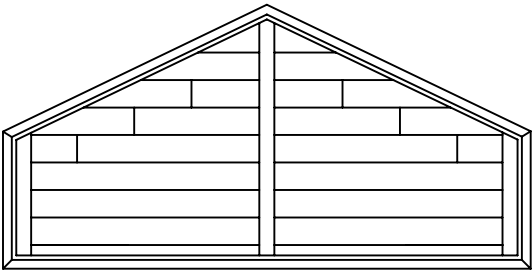
Full Rake with Rear Tilt & 1 Vertical Support

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	60"
Minimum Height:	12"
Maximum Height:	48"
Minimum Leg Length:	7"
Maximum Leg Length:	24"

Rear Tilt or off-set tilt bar optional

Full Rake with Tilt Bar, and 2 Vertical Supports
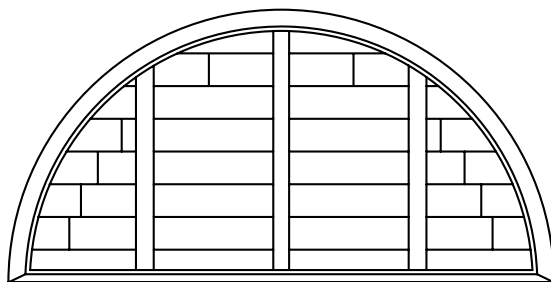
Specifications - Two Vertical Supports

Minimum Width:	24"
Maximum Width:	72"
Minimum Height:	12"
Maximum Height:	48"
Minimum Leg Length:	7"
Maximum Leg Length:	24"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

Note: A Tunnel is an extended Half Circle. The height minus the leg height should equal 1/2 of the width. See Page K2 for available tilt options.

ECLIPSE® SHUTTERS K8

Shapes and Specifications

HALF RAKE (LEFT & RIGHT)
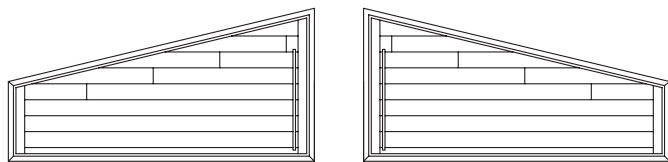
Half Rake with Tilt Bar & No Vertical Support
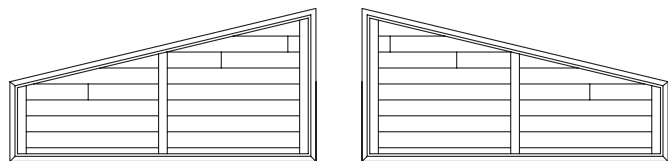
Half Rake with Rear Tilt and 1 Vertical Support
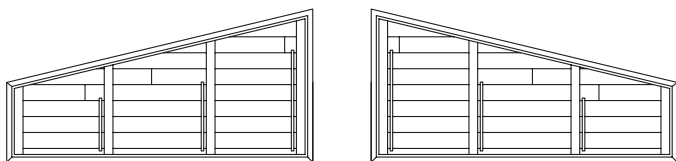
Half Rake with Tilt Bar, and 2 Vertical Supports

Specifications - No Vertical Support

Minimum Width:	24"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	30"
Minimum Leg Length:	7"
Maximum Leg Length:	30"

*Rear Tilt **not** available*

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	60"
Minimum Height:	12"
Maximum Height:	40"
Minimum Leg Length:	7"
Maximum Leg Length:	40"

Rear Tilt or off-set tilt bar optional

Specifications - Two Vertical Supports

Minimum Width:	24"
Maximum Width:	72"
Minimum Height:	12"
Maximum Height:	60"
Minimum Leg Length:	7"
Maximum Leg Length:	60"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

SYMMETRICAL ANGLE TOP
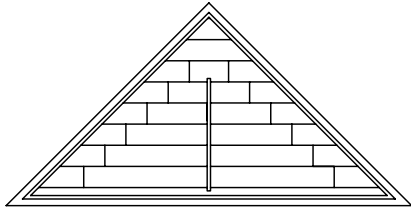
Symmetrical Angle Top with Tilt Bar & No Vertical Support

Specifications - No Vertical Support
Minimum Width:	24"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	15"

*Rear Tilt **not** available*
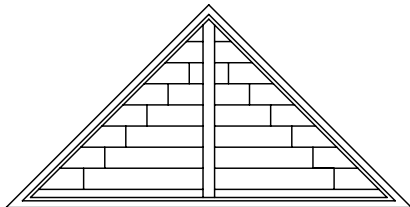
Symmetrical Angle Top with Rear Tilt and
1 Vertical Support

Specifications - One Vertical Support
Minimum Width:	24"
Maximum Width:	60"
Minimum Height:	12"
Maximum Height:	30"

Rear Tilt or off-set tilt bar optional
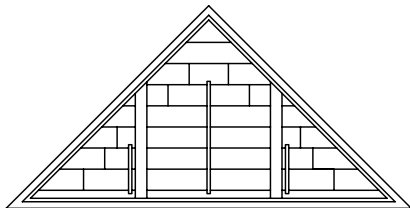
Symmetrical Angle Top with Tilt Bar, and
2 Vertical Supports

Specifications - Two Vertical Supports
|	
Minimum Width:	24"
Maximum Width:	72"
Minimum Height:	12"
Maximum Height:	36"

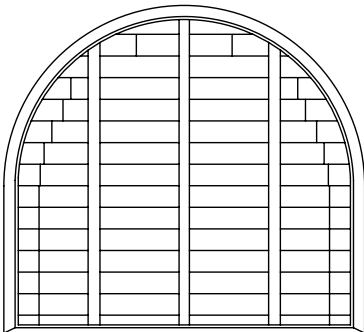*Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)*

Shapes and Specifications

ANGLE TOP (LEFT & RIGHT)
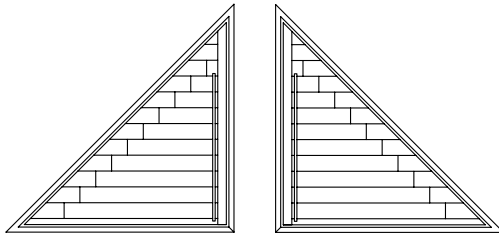
Angle Top with Tilt Bar & No Vertical Support

Specifications - No Vertical Support

Minimum Width:	12"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	30"

*Rear Tilt **not** available*
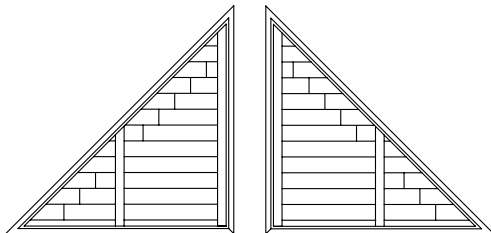
Angle Top with Rear Tilt and 1 Vertical Support

Specifications - One Vertical Support

Minimum Width:	24"
Maximum Width:	40"
Minimum Height:	24"
Maximum Height:	40"

Rear Tilt or off-set tilt bar optional
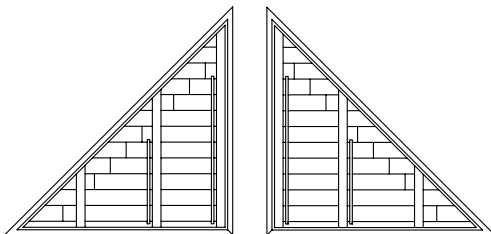
Angle Top with Tilt Bar, and 2 Vertical Supports

Specifications - Two Vertical Supports

Minimum Width:	24"
Maximum Width:	60"
Minimum Height:	24"
Maximum Height:	60"

Rear Tilt and tilt bar optional (tilt bar on outside sections will be off-set only)

K11 ECLIPSE® SHUTTERS
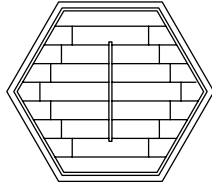
HEXAGON

Hexagon with No Vertical Support

Hexagon with 1 Vertical Support

Specifications - No Vertical Support

Minimum Width:	12″
Maximum Width:	30″
Minimum Height:	12″
Maximum Height:	30″

*Rear Tilt **not** available*
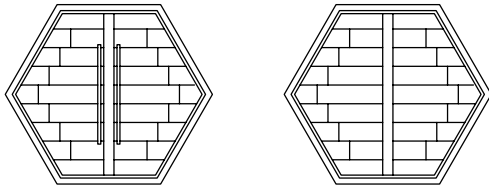
Specifications - One Vertical Support

Minimum Width:	30″
Maximum Width:	40″
Minimum Height:	30″
Maximum Height:	40″

Rear Tilt or off-set tilt bar optional

Shapes and Specifications

OCTAGON
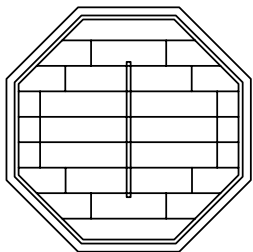
Octagon with No Vertical Support

Specifications - No Vertical Support

Minimum Width:	12"
Maximum Width:	30"
Minimum Height:	12"
Maximum Height:	30"

*Rear Tilt **not** available*
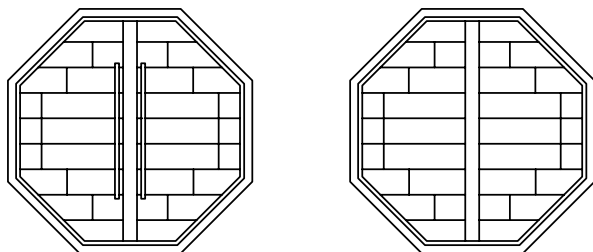
Octagon with 1 Vertical Support

Specifications - One Vertical Support

Minimum Width:	30"
Maximum Width:	40"
Minimum Height:	30"
Maximum Height:	40"

Rear Tilt or off-set tilt bar optional

ECLIPSE® SHUTTERS

A Vertical Support is the vertical member of the arch that divides the arch into multiple sections and provides strength and rigidity. Smaller arches (less than 30") do not require Vertical Supports but may be ordered with them. Vertical Supports are required based on width. The specifications are listed below.

VERTICAL SUPPORT REQUIREMENTS

- 0 Vertical Supports = 0" - 30"
- 1 Vertical Support = 30 1/8" - 60"
- 2 Vertical Supports = 60 1/8" - 72"
- 3 Vertical Supports = 72 1/8" - 108"

Vertical Support

Rear Tilt (Located on backside)

Rear Tilt (Located on backside)

Section 1   Section 2

Vertical Support   Tilt Bar   Vertical Support

Off Set Tilt Bar

Off Set Tilt Bar

Section 1   Section 2   Section 3
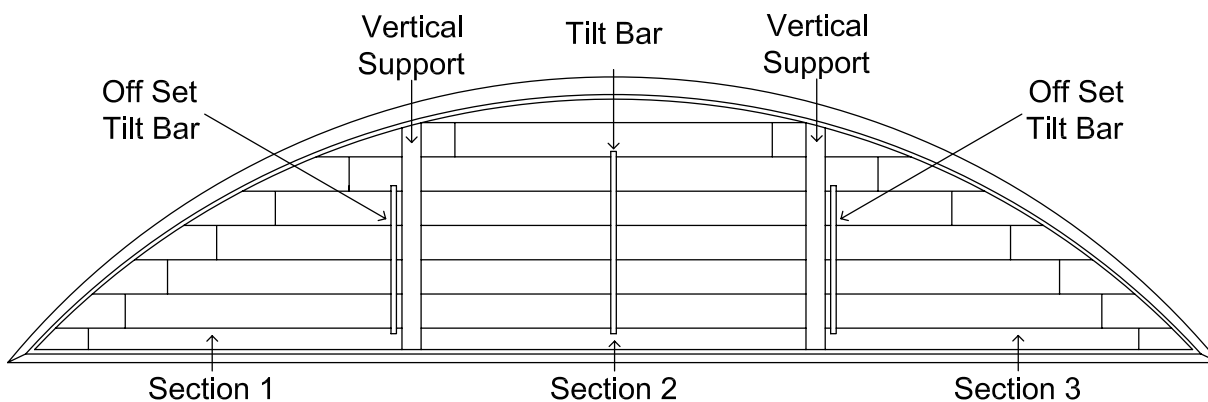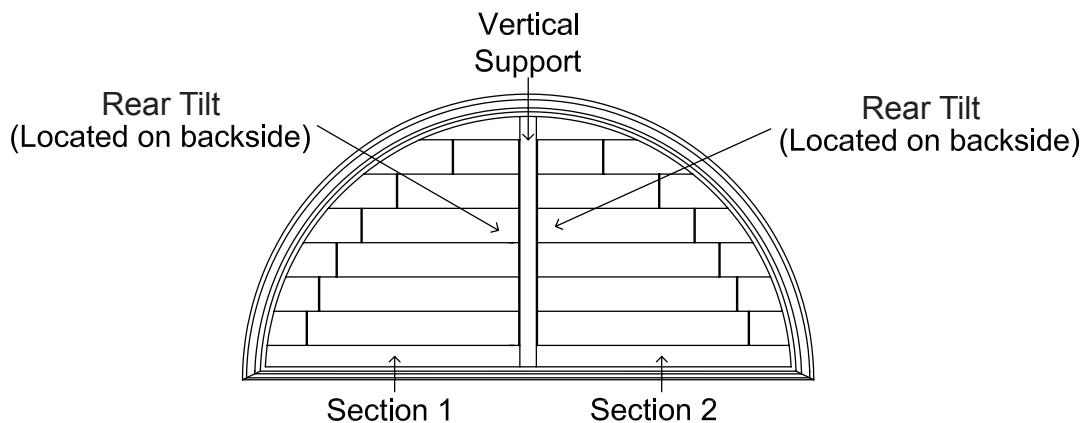
Vertical Support

When ordering larger shutters that require Vertical Supports or when adding Vertical Supports to smaller shutters, it is important to remember that there will be a size difference between the Vertical Support, Vertical Jambs, and the T Posts in the shutter below.

Vertical Support Width = 1 3/4"
(2) Vertical Jamb Widths = 3 1/2"
(2) Vertical Jamb Widths + T Post = 4 3/4"

Example: See diagram below. The two panel shutter has a two section arch above. The Vertical Support in the arch is half the size of the jambs but is in alignment with the vertical jambs of the panel below.

Note: In order to achieve a consistent look, order the shutter below and the arch above with the same number of panels and sections. Submit the shutter and arch orders together.

K15 ECLIPSE® SHUTTERS
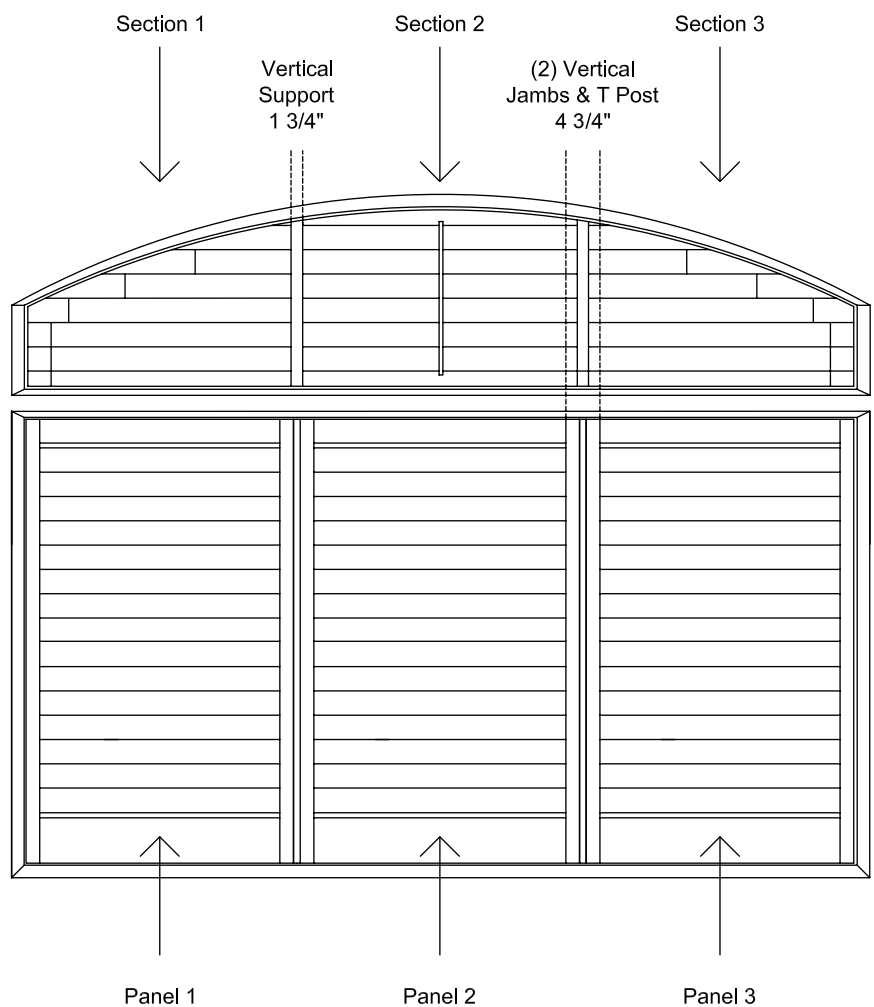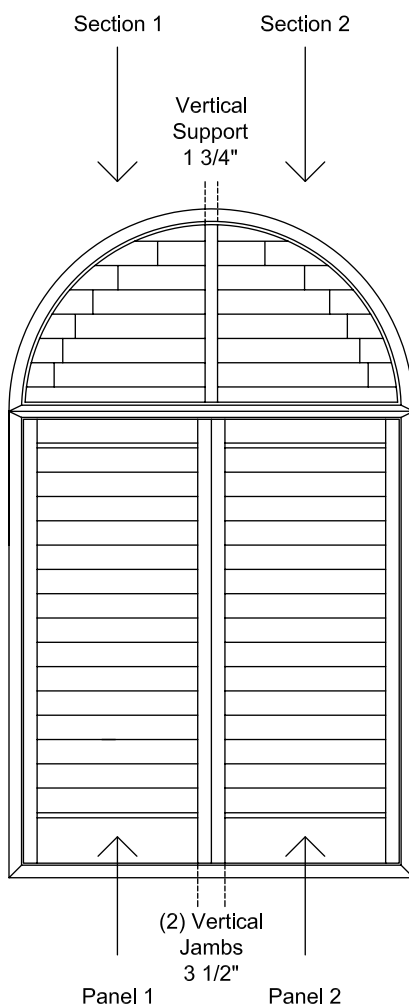
UNEVEN VERTICAL SUPPORT LOCATIONS

Inside Mount

1. Record the number of sections on the Eclipse Specialty Shape Order Form

2. Measure from the left inside edge of the opening to the center of the first Vertical Support location

3. Record this measurement on the order form under Vertical Support locations

4. Repeat steps 2 and 3 measuring from the left edge of the opening to the center of the second Vertical Support

5. Submit the shutter and arch orders together

Note: When 3 vertical supports are ordered without specific locations, the middle vertical support will be in the center of the arch.
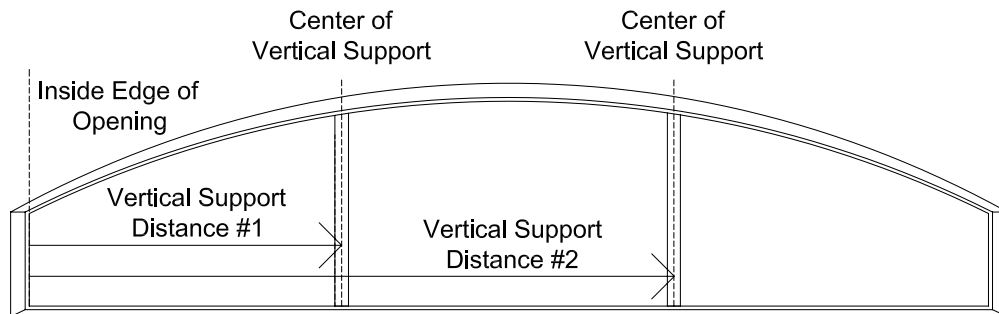
Outside Mount

1. Record the number of sections on the Eclipse Specialty Shape Order Form

2. Measure from the left outside edge of where the arch is to be installed to the center of each Vertical Support location

3. Record this measurement on the order form under Vertical Support locations

4. Repeat steps 2 and 3 measuring from the left edge of the opening to the center of the second Vertical Support

5. Submit the shutter and arch orders together

Note: When 3 vertical supports are ordered without specific locations, the middle vertical support will be in the center of the arch.
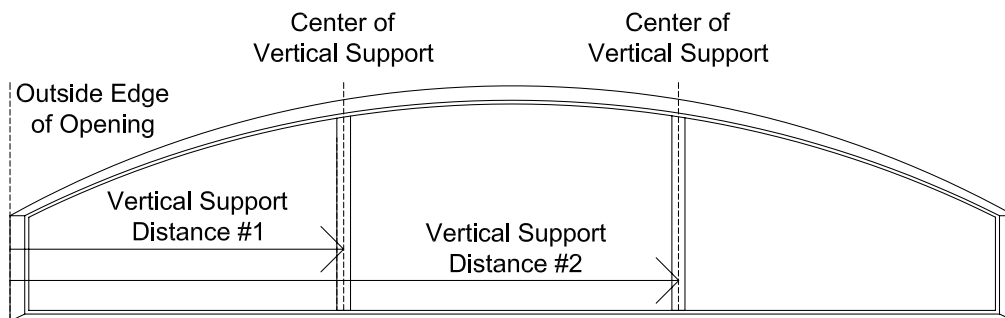
Note: The maximum distance between vertical supports is 32 ½".

INSIDE MOUNT

1. Measure the width - measure the inside width of the window frame along
   the bottom of the opening (A)
2. Measure the height
   - A) Measure the inside height of the window frame at the center to
      the highest vertical point (E)
   - B) From center point E, measure out every 10" and make a mark
      (as instructed on the order form)
   - C) At each mark, measure vertically to the edge of the opening
   - D) Note each vertical dimension on the order form or supply sketch and
      include all dimensions
   - E) See page K18 for details
3. Measure legs
   - A) Measure from the bottom of where the arch will be located to the point
      at which the radius or angle begins (C & D)
   - B Measure both sides and record the smallest measurement.
4. Depth clearance - ensure there is enough depth clearance to install the arch
   and enough room to operate the louvers (specialty shape clearances are the same as standard shutters)
5. Create template for any specialty shape that does not have a consistent radius
6. Framed arch mounted to framed shutter
   - A) The width of the arch and the width of the shutter below
      must be the same dimension
   - B) Measure the shutter opening to first determine the width
   - C) Measure the shutter opening and determine the height of the
      shutter, mark this point since this will be the measuring
      point for the arch
   - D) Measure the width of the arch from the top of the shutter to the
      top of the opening
   - E) When using the Trim Frame, Deluxe Trim Frame, Bullnose Z, or
      Z Frame, the arch must include Sill Frame at the bottom and the shutter
      must include Sill Frame at the top.
   - F) If needed, decrease the dimension of the shutter below to allow for proper
      fit of the arch
   - G) Trim Frame and Deluxe Trim, or Bullnose Z Frame are recommended due to the size of the flanges which allows
      the shutter to be undersized slightly but ensures the frame will cover the increased gap between the frame and
      the opening
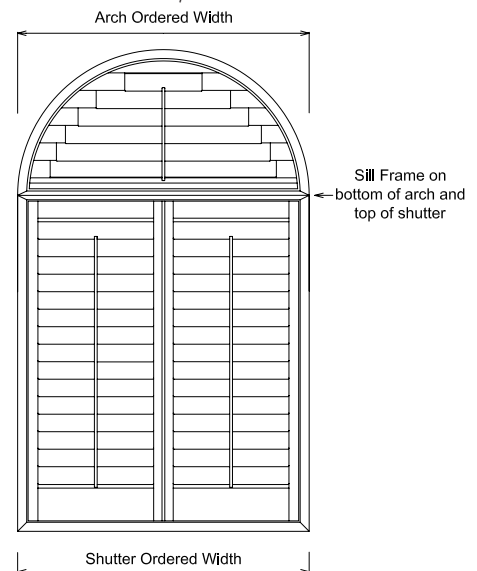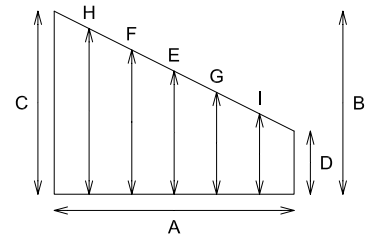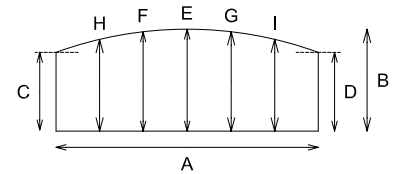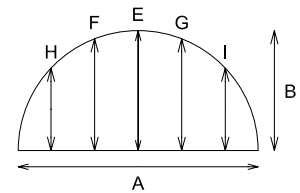
INSIDE MOUNT - INTERMEDIATE HEIGHTS

1. Determine center point across the width of the opening

2. Measure out from the center point every 10" in both directions and make a mark (as instructed on the order form)

3. At each mark, measure vertically to the edge of the opening (If the measurement is not perpendicular to the base, the actual dimensions will be inacurate.)

4. Make sure that the corresponding dimensions are the same or very similar (Ex: Measurements F and G should be the same, H and I the same, etc.)

5. The specialty shape shutter will be built to fit the smallest measurement provided.

6. If the order form does not contain enough blanks to provide all necessary information, then please supply a sketch with all dimensions. Submit sketch along with the specialty shape order form.
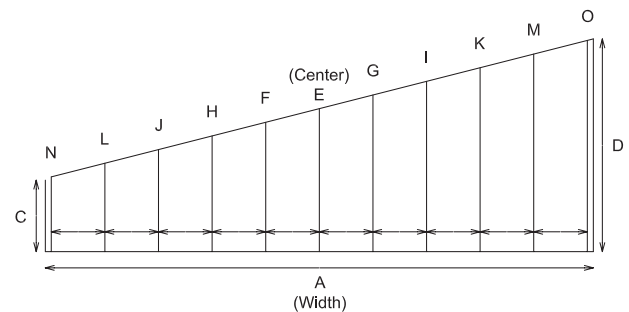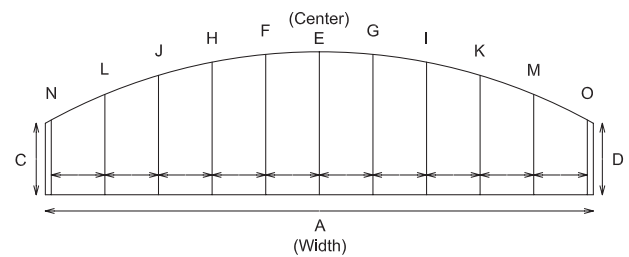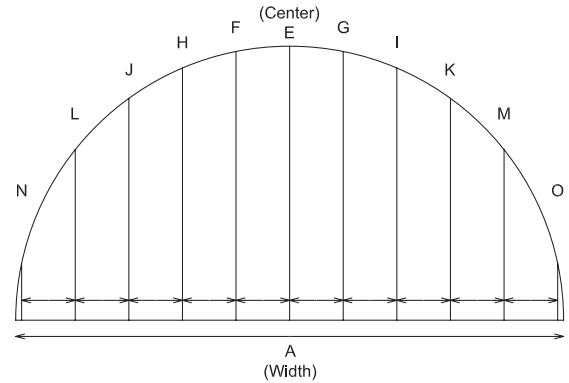
OUTSIDE MOUNT

1. Measure the width - measure to the outermost desired point to which the arch frame will extend across the bottom of the opening (A)
2. Measure the height - measure from where the outside bottom of the arch will be to the highest point at the center of the opening (B)
3. Measure legs
   A) Measure from the bottom of where the arch will be located to the point at which the radius or angle begins (C & D)
   B) For Tunnels and Eyebrows, measure both sides and split the difference if any
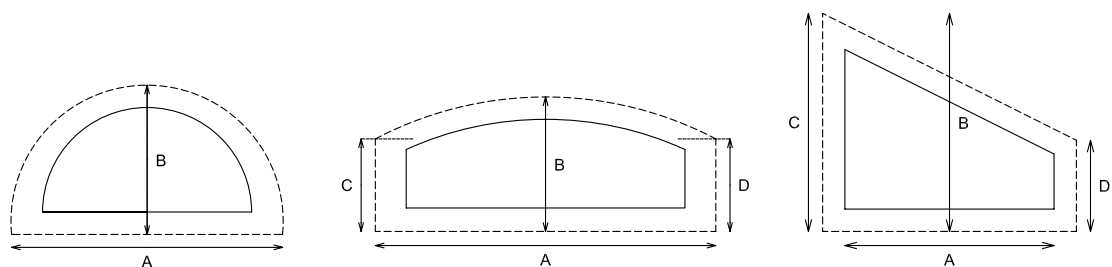
4. Depth clearance - ensure there is enough depth clearance to install the arch and enough room to operate the louvers (specialty shape clearances are the same as standard shutters)
5. Create template for any specialty shape that does not have a consistent radius.
6. Framed arch mounted to framed shutter
   A) The width of the arch and the width of the shutter below must be the same dimension
   B) Measure the shutter to first determine the width
   C) Measure the shutter and determine the height of the shutter, mark this point since this will be the measuring point for the bottom of the arch
   D) Measure the height of the arch from the mark indicating the top of the shutter
   E) If needed, adjust the dimension of the shutter below to allow for proper fit of the arch

Arch Ordered Width

Sill Frame on bottom of arch and top of shutter

Shutter Ordered Width

K19 ECLIPSE® SHUTTERS
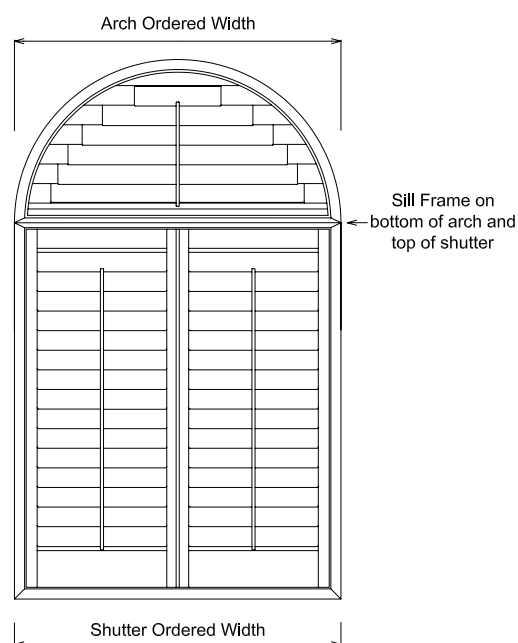
COMPLETING THE ORDER FORM

1. Line Number

2. Room – enter the room location for each arch

3. Arch Type – enter the desired arch type. Select from one of the 11 available shapes.

4. Width – measure in inches across the bottom of the opening, make sure this matches the shutter below if applicable

5. Height – measure the height in inches from the base of the opening to the highest point of the arch

6. Louver Size – select louver size

   A) 2 ½"   B) 3 ½"

7. Color – select from one of three colors

   A) Cotton   B) Pearl   C) Vanilla

8. Tilt Bar – tilt control is determined by the type of arch, configuration, size and vertical support

   A) Tilt Bar   B) Rear Tilt

9. Tilt Bar Location – select the location of the Tilt Bar

   A) Front   B) Rear

10. Mount – select either Inside Mount or Outside Mount

11. Frame Type

    A) Deluxe Trim Frame B) Trim Frame C) Z Frame D) Bullnose Z Frame E) L Frame

    F) Casing Frame G) Casing Sill Frame H) S Frame I) No Frame (magnets only)

12. Sill Frame– select (Yes or No) if arch will sit on top of a framed shutter or a protruding sill

13. Sill Frame Location - select from Top, Bottom, Left or Right (or select a combination of sill locations)

14. Frame Extensions - L Frame, S Frame and Casing Frame are each available with either none or one frame extension

15. Vertical Support (Yes or No) – creates multiple louvers sections horizontally within the arch, the size of the arch will also dictate the number of vertical supports required

16. Quantity of Vertical Supports – vertical supports can be added to an arch that does not require them, or a second vertical support can be added to an arch that only requires one (limit of 3 per arch)

17. Arch Attached or Aligns with Shutter - select "Yes" if the arch is to be attached to the shutter below or if the width must align with the shutter below

18. Measure Straight Side – measure from the bottom of the opening up the straight side to the point at which the radius or angle begins.

19. Vertical Support Locations - enter the distance from the left of the opening to the center of where the first vertical support should be, repeat for the second vertical support (See page K17)

20. Notes – enter any special instructions that need to be added

21. Submit Specialty Shape Order Form and Shutter Order Form together to ensure a consistent look between the shutter and the arch above

Line #	Room	Arch Type	Width	x	Height	Louver Size	Color	Tilt Bar	Tilt Bar Location	Mount	Frame Type	Sill Frame	Sill Frame Location	Frame Extension	Vertical Support	No. of Vertical Supports	Arch Attached or Aligns with Shutter
		Quarter-Circle L Quarter-Circle R Half-Circle Elliptical Eyebrow Tunnel	Inside Mount - Smallest Opening Size Outside Mount - Largest Opening Size			2½" 3½"	Cotton (5136) Pearl (5151) Vanilla (5140)	Yes No Note: Vertical Support required for REAR TILT option	Front Rear	IM (Inside) OM (Outside)	BZ (Bullnose Z) C (Casing) CAF (Deluxe Trim) CS (Casing Sill) L S (S Frame) Y (Trim Frame) Z	Yes No	Top Bottom Left Right Etc.	Yes No	Yes No	0 1 2 3 Note: Vertical Supports required for shapes over 30" wide	Yes No
①	②	③	④	x	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰

ECLIPSE®
S H U T T E R S

SPECIALTY SHAPES ORDER FORM

To be completed by the dealer

Acct No.:	Acct Name:
Address:	
City:	State:	Zip:
P.O.:	Sidemark:

Ordered by:
Deliver/Ship to:
Address:

Check One: ☐ Deliver ☐ Ship ☐ Will Call

City: State: Zip:
Phone #: Fax #:

To be completed by the fabricator

Date Received:	Date Entered:
Projected Completion Date:	
Reference No.:	
Page of	Pages	Units this page:	Total Units this Orders:

SPECIAL INSTRUCTIONS

Line #	Room	ARCH TYPE	WIDTH	X	HEIGHT	LOUVER SIZE	COLOR	TILT BAR	TILT BAR LOCATION	MOUNT	FRAME TYPE	SILL FRAME	SILL FRAME LOCATION	FRAME EXTENSION	VERTICAL SUPPORT	NO. OF VERTICAL SUPPORTS	ATTACH OR ALIGN WITH SHUTTER

ARCH TYPE: Quarter-Circle Left, Quarter-Circle Right, Half Circle, Tunnel, Elliptical, Eyebrow, Angle Top Left, Angle Top Right, Symmetrical Angle Top, Full Rake, Half Rake Left, Half Rake Right, Hexagon, Octagon

WIDTH: Inside Mount = Smallest Opening Size; Outside Mount = Largest Opening Size

LOUVER SIZE: 2 1/2" or 3 1/2"

COLOR: Cotton (5136), Pearl (5151), Vanilla (5140)

TILT BAR: Yes / No — Note: Vertical Support required for REAR TILT option.

TILT BAR LOCATION: Front or Rear

MOUNT: IM (Inside) or OM (Outside)

FRAME TYPE: BZ (Bullnose Z), C (Casing), CAF (Deluxe Trim), CS (Casing Sill), L, S (S Frame), Y (Trim Frame), Z

SILL FRAME: Yes or No

SILL FRAME LOCATION: T, B, TB, TBL, Etc

FRAME EXTENSION: Yes or No

VERTICAL SUPPORT: Yes or No — Note: Vertical Supports required on shapes over 30" wide.

NO. OF VERTICAL SUPPORTS: 0, 1, 2, 3

ATTACH OR ALIGN WITH SHUTTER: Yes or No

DRAW SHAPE & INCLUDE ALL MEASUREMENTS IN THE BLANKS PROVIDED BELOW

EXAMPLE: HALF CIRCLE
Half-Circles, Ellipticals, & Quarter-Circles require width and height measurements.

EXAMPLE: EYEBROW
Eyebrows, Tunnels, Full Rake & Half Rakes require an additional measurement of the leg height.

EXAMPLE: HALF RAKE
The center measurement for Half Rakes, Angle Tops and Quarter Circles will be different than the overall height.

MULTI-RADIUS ARCHES
Multi-radius arches are specialty shapes in which the radius or curved portion changes. These shapes always require templates.
Find center point of shape. Measure out from the center every 10", then measure vertically. Provide thes measurements.

Measure height to the tallest point of the shape — **B HEIGHT**

Measure the left side leg height — **C LEG HEIGHT**

Measure the right side leg height — **D LEG HEIGHT**
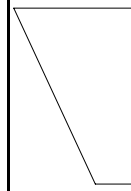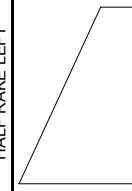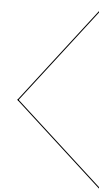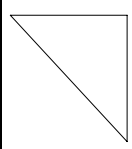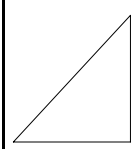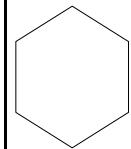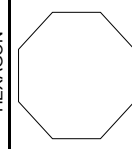
Measure the width to the widest point of the shape — **A WIDTH**

Left Vertical Support — Vertical Support dimensions not required if supports are evenly spaced

Right Vertical Support — The center Vertical Support will always be centered on shapes with 3 Verticals

E CENTER

| F LEFT #1 | H LEFT #2 | J LEFT #3 | L LEFT #4 | N LEFT #5 | P LEFT #6 |
| G RIGHT #1 | I RIGHT #2 | K RIGHT #3 | M RIGHT #4 | O RIGHT #5 | Q RIGHT #6 |

K21

ECLIPSE®
S H U T T E R S

ECLIPSE SHUTTERS SPECIALTY SHAPE SPECIFICATIONS

SHAPE	# OF VERTICALS	WIDTH MIN	WIDTH MAX	HEIGHT MIN	HEIGHT MAX	LEG MIN	LEG MAX
HALF RAKE LEFT — Half Rake Left Specifications							
	0	24"	30"	12"	30"	7"	24"
	1	24"	60"	12"	40"	7"	24"
	2	24"	72"	12"	60"	7"	24"
	3						
HALF RAKE RIGHT — Half Rake Right Specifications							
	0	24"	30"	12"	30"	7"	24"
	1	24"	60"	12"	40"	7"	24"
	2	24"	72"	12"	60"	7"	24"
	3						
SYMMETRICAL ANGLE TOP — Symmetrical Angle Top Specifications							
	0	34"	30"	12"	15"		
	1	24"	60"	12"	30"		
	2	24"	72"	12"	36"		
	3						
ANGLE TOP LEFT — Angle Top Left Specifications							
	0	12"	30"	12"	30"		
	1	24"	40"	24"	40"		
	2	24"	60"	24"	60"		
	3						
ANGLE TOP RIGHT — Angle Top Right Specifications							
	0	12"	30"	12"	30"		
	1	24"	40"	24"	40"		
	2	24"	60"	24"	60"		
	3						
HEXAGON — Hexagon Specifications							
	0	12"	30"	12"	30"		
	1	30"	40"	30"	40"		
	2						
	3						
OCTAGON — Octagon Specifications							
	0	12"	30"	12"	30"		
	1	30"	40"	30"	40"		
	2						
	3						

SHAPE	# OF VERTICALS	WIDTH MIN	WIDTH MAX	HEIGHT MIN	HEIGHT MAX	LEG MIN	LEG MAX
HALF CIRCLE — Half Circle Specifications							
	0	24"	30"	12"	15"		
	1	24"	60"	12"	30"		
	2	24"	72"	12"	36"		
	3	24"	92"	12"	46"		
ELLIPTICAL — Elliptical Specifications							
	0	24"	30"	12"	15"		
	1	24"	60"	12"	30"		
	2	24"	72"	12"	36"		
	3	24"	92"	12"	46"		
EYEBROW — Eyebrow Specifications							
	0	24"	30"	12"	36"	7"	24"
	1	24"	60"	12"	36"	7"	24"
	2	24"	72"	12"	36"	7"	24"
	3	24"	108"	12"	36"	7"	24"
TUNNEL — Tunnel Specifications							
	0	24"	30"	16"	39"	3.5"	24"
	1	24"	39"	16"	39"	3.5"	24"
	2	24"	48"	16"	39"	3.5"	24
	3	24"	48"	16"	39"	3.5"	24"
QUARTER CIRCLE LEFT — Quarter Circle Left Specifications							
	0	12"	30"	12"	30"		
	1	24"	40"	24"	40"		
	2						
	3						
QUARTER CIRCLE RIGHT — Quarter Circle Right Specifications							
	0	12"	30"	12"	30"		
	1	24"	40"	24"	40"		
	2						
	3						
FULL RAKE — Full Rake Specifications							
	0	24"	30"	12"	48"	7"	24"
	1	24"	60"	12"	48"	7"	24"
	2	24"	72"	12"	48"	7"	24"
	3						

CREATING A TEMPLATE FOR AN ARCH SHUTTER - TEMPLATES ARE ONLY REQUIRED FOR SHAPES THAT DO NOT HAVE A CONSISTENT RADIUS

Note: An arch with an inconsistent radius is one that the radius varies or changes along the arc. Example: the top center of the arc has a gradual curve while the sides curve sharply. Templates are required in these situations.

1. Templates will only be accepted if heavy paper such as craft paper or butcher paper is used
2. Make sure the paper will extend beyond the entire arch window both in width and height (tape multiple sheets together, if necessary)
3. The paper should be applied with tape (preferably painters tape so that it won't remove paint from the walls) or thumb tacks
4. The paper should be smooth and tight over the entire opening
5. Align straight edge of paper with the bottom of the opening
6. Using a pencil, outline or trace the perimeter of the arch
7. Make sure that all lines are clear and precise
8. Once the outline of the arch is complete, remove the template
9. Carefully measure the template for accuaracy
10. If the template is not accurate, then modify the template or remake it
11. Note all dimensions on the room side of the template
   - A) Width
   - B) Height (measure perpendicular to the bottom of the opening at the exact center)
   - C) Side Legs (if applicable)
   - D) Location of Vertical Supports (if applicable)
12. The measurements of the template, measurements on the template, and the measurements on the order form must all match.
13. Write "front" on the front side of the template (this will be the side of the paper facing in towards the room when it was attached to the window)
14. The following information must appear on the template:
   - A) Company Name
   - B) Customer Account Number
   - C) Sidemark
   - D) Purchase Order Number
   - E) Date
15. Roll the template and send to local fabricator along with copy of the order form.
   (Do not fold template)

Note: Templates will be retained for a period of 12 months, in case of remakes, damages, etc.

Consistent Radius   Inconsistent Radius

Custom Name
Customer #
Sidemark
PO #
Date

Front

Align straight edge of paper with bottom of opening

Height

Left Leg Height

Right Leg Height

Width
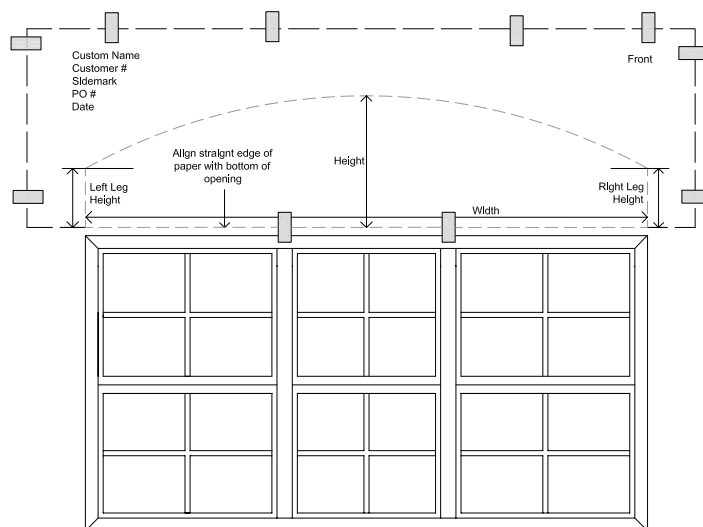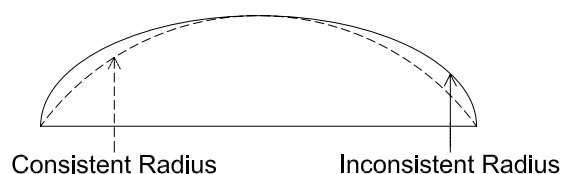
CREATING A TEMPLATE FOR AN ARCH SHUTTER - TEMPLATES ARE ONLY REQUIRED FOR SHAPES THAT DO NOT HAVE A CONSISTENT RADIUS

1. Use heavy paper such as craft paper or butcher paper
2. Make sure the paper will extend beyond the entire arch window both in width and height (tape multiple sheets together, if necessary)
3. The paper should be applied with tape (preferably painters tape so that it won't remove paint from the walls) or thumb tacks
4. The paper should be smooth and tight over the entire opening
5. Align straight edge of paper with the bottom of the opening or the desired location of the bottom of the arch
6. Place the selected frame on the template at the desired distance away from the opening. Using a pencil, make a mark on the template behind the frame
7. Repeat step 6 in multiple locations to outline the entire arch
8. Connect all pencil marks to complete the shape
9. Make sure that all lines are clear and precise
10. Once the outline of the arch is complete, remove the template
11. Carefully measure the template for accuaracy
12. If the template is not accurate, then modify the template or remake it
13. Note all dimensions on the room side of the template
      A) Width
      B) Height (measure perpendicular to the bottom of the opening at the exact center)
      C) Side Legs (if applicable)
      D) Location of Vertical Supports (if applicable)
14. The measurements of the template, measurements on the template, and the measurements on the order form must all match.
15. Write "front" on the front side of the template (this will be the side of the paper facing in towards the room when it was attached to the window)
16. The following information must appear on the template:
      A) Company Name
      B) Customer Account Number
      C) Sidemark
      D) Purchase Order Number
      E) Date
17. Roll the template and send to local fabricator along with copy of the order form. (Do not fold template)

Steps 1-5

Align straight edge of paper with position of bottom frame

Front

Step 6

Frame Sample

Window Opening

Front

Step 7

Continue marking multiple points around the opening

Frame Sample

Window Opening

Front

Steps 8-9

Connect all marks to create outline of arch

Make sure that the side legs are the same height (if applicable)

Front

Note: Templates will be retained for a period of 12 months, in case of remakes, damages, etc.

ECLIPSE® SHUTTERS K24
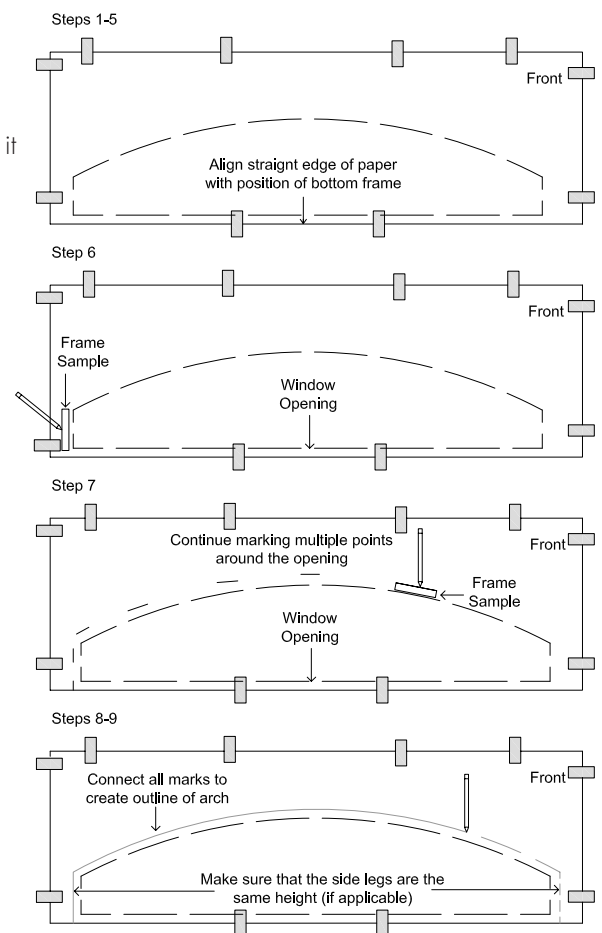
ARCH FRAME AND PANEL INSTALLATION - INSTALLED INDEPENDENT OF STANDARD SHUTTER

Step 1:
If multiple arches have been ordered for the same job, then review the labels for each arch to correctly identify which arch is used in each opening.

Step 2:
Set the frame in the opening and center. Make sure the bottom frame of the arch is level.

Step 3:
Install (2) screws into the curved portion of the frame. Screws should be placed in the top left and top right of the curve as illustrated below.
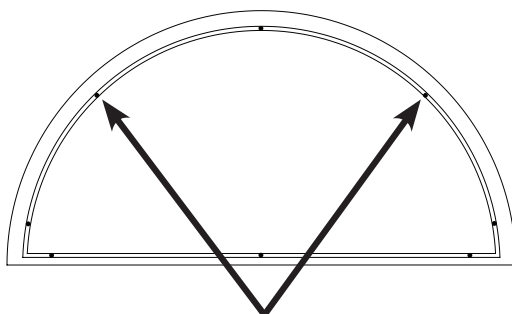
**BEGIN WITH 2 INSTALLATION HOLES
DO NOT OVERTIGHTEN**

Step 4:
With only (2) screws in place, it is safe to dry fit the panel. Make sure that the panel fits properly and the gap between the panel and the frame is consistent.

Step 5:
Move the bottom frame of the arch left or right to create the proper gaps around the arched panel. Make a vertical line on the bottom frame of the arch and onto the opening.

Step 6:
Remove the panel and move the bottom frame of the arch left or right until it is in alignment with the line on the opening.

Step 7:
Set a screw into the bottom frame of the arch to secure it to the window opening.

Step 8:
Place the panel back in the frame and make sure that the panel fits properly.

Step 9:
Set all remaining screws, making sure not to over-tighten. Set the panel back in place at any point to ensure proper alignment.

Step 10:
The panel will be held in place by the Panel Lock system. Adjust the depth of the plungers if necessary to provide good fit and hold the panel in the frame.

Step 11:
Install panel lock ramps along the bottom frame. These are used as spacers to ensure a consistent gap around the frame.

Step 12:
Magnets will be supplied with each arch depending on size. The magnets are used to help ensure the panel remains secure in the frame. Attach a magnet to the top center of the opening or evenly space magnets across the top frame. Hinges are attached to speciality shapes with straight bottom sides. The hinge connects the panel to the frame.

Step 13:
Install screw cover button plugs to hide installation holes. If button plugs will not seat properly, tighten the screw inside the installation hole so it does not interfere.

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SHUTTERS

ARCH FRAME AND PANEL INSTALLATION - INSTALLED DIRECTLY TO SHUTTER BELOW

Step 1:
If multiple arches have been ordered for the same job, then review the labels for each arch to correctly identify which arch is used in each opening.

Step 2:
If an arch is to be mounted directly to the top of a shutter below, then install the shutter first. See Standard Window Installation Guidelines for details.

Step 3:
Set the frame in the opening. Align the bottom frame of the arch with the top frame of the shutter. (Use hand clamps to clamp the frames together while installing)

Step 4:
Set (2) 1" bypass screws (or similar) through the top frame of the shutter into the bottom frame of the arch.

Step 5:
With only (2) screws in place, it is safe to dry fit the panel. Make sure that the panel fits properly and the gap between the panel and the frame is consistent.
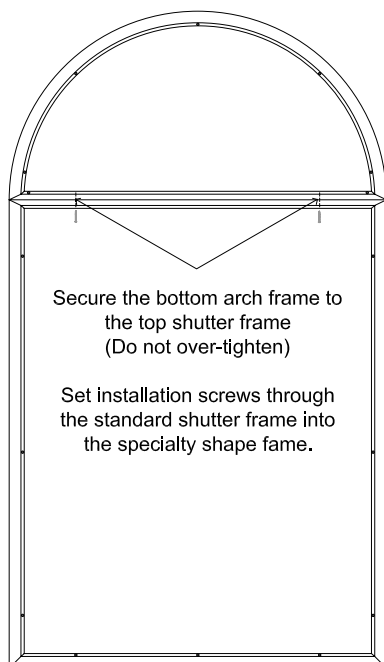
Step 6:
Move the top frame of the arch left or right to create the proper gaps around the arched panel. Make a vertical line on the top frame of the arch and onto the opening.

Step 7:
Remove the panel and move the top frame of the arch left or right until it is in alignment with the line on the opening.

Step 8:
Set a screw into the top frame of the arch to secure it to the window opening.

Step 9:
Place the panel back in the frame and make sure that the panel fits properly.

Step 10:
Set all remaining screws, making sure not to over-tighten. Set the panel back in place at any point to ensure proper alignment.

Step 11:
The panel will be held in place by the Panel Lock system. Adjust the depth of the plungers if necessary to provide good fit and hold the panel in the frame.

Step 12:
Install panel lock ramps along the bottom frame. These are used as spaces to ensure a consistent gap around the panel.

Step 13:
Magnets will be supplied with each arch depending on size. The magnets are used to help ensure the panel remains secure in the frame. Attach a magnet to the top center of the opening or evenly space magnets across the top frame. Hinges are attached to speciality shapes with straight bottom sides. The hinge connects the panel to the frame.

Step 14:
Install screw cover button plugs to hide installation holes. If button plugs will not seat properly, tighten the screw inside the installation hole so it does not interfere.

Secure the bottom arch frame to
the top shutter frame
(Do not over-tighten)

Set installation screws through
the standard shutter frame into
the specialty shape fame.

ECLIPSE® K26
SHUTTERS

ORDERING PROCEDURE

All the information on this page applies to Regular order forms

Account Name:	Account #:	Page _____ of _____	Reference #:
Ship to:	Phone:	Date:	
Address:	Email:	Sidemark:	
City, State, Zip:	Ordered By:	P.O. #:	

INFORMATION SECTION

- All order forms request this information.
- Account # should be the account number the order will be billed to.
- Name, Tel. No. and Email are related to the account that is placing the order.
- PO # is the tag that will be used for referencing.

ECLIPSE®
S H U T T E R S

Line	Room	Type	Hinge Style	Width x Height	Louver Size	Color	Tilt	Mount	Frame	# Frame Sides	Panel Lock	Frame Ext	Cover Strip	Sill Frame	Divider Rail		Hinges
		P1 P2 P4	L (Left hinge) R (Right hinge) LL (Left bi-fold) RR (Right bi-fold)	Inside Mount = Smallest Opening Size Outside Mount = Largest Opening Size	2 1/2″ 3 1/2″ 4 1/2″	Cotton (5136) Pearl (5151) Vanilla (5140)	Tilt Bar (T) Rear Tilt (CV) Gear (G)	IM (Inside Mount) OM (Outside Mount)	BZ (Bullnose Z) C (Casing) CAF (Deluxe Trim) CS (Casing Sill) L SB (Sill Bullnose) Y (Trim Frame) Z S	1 — 2 | | 3 □ 4 □	Yes or No	0 1 2 3	Yes or No	Yes or No	Standard or Deluxe	Distance up in inches	P (Painted) B (Brass) S (Stainless)
1	**2**	**3**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**15**	**16**

1. Line #:

Indicated by numeric sequence. The line number is shown on all product labels to make installation easier.

2. Room:

Indicates the room the product will be installed. The room name is shown on all product labels to make installation easier.

3. Type and Hinge Style:

Choose the applicable configuration from Section B – Panel Styles and copy onto the Order Form.

When configuring a shutter with T Posts, aluminum reinforcement may be requested for the T Post. Note this request under the remarks section of the order form.

4. Width and Height:

The smallest increment acceptable for width is 1/8″ and height is 1/8″. To Ensure the proper measurement is entered for the application, refer to Section E - Measuring.

5. Louver Size:

Three sizes are available – California 2 1/2″ and Plantation 3 1/2″ and 4 1/2″

6. Color:

Three colors are available – Cotton, Pearl, or Vanilla

7. Tilt:

TB, RT, G

Tilt Bar (TB) is positioned in the front middle of the panel unless otherwise requested. Indicate "OFFSET TILT BAR" in the "Remarks" section.

Rear Tilt (RT) is an optional rear tilt system and will always be offset on the back of the back edge of the louvers. See page A9 in Section A – Selling.

Gear (G) is an optional gear system that is completely enclosed within the shutter panel.

8. Mount:

I.M. indicates an inside mount that can be without a frame or with the Z frame, Trim Frame, Deluxe Trim Frame, Bullnose Z Frame, L Frame or Mounting Strip.

O.M. indicates an outside mount that can be with Casing Frame, S Frame or L Frame. Refer to Section E – Measuring.

9. Frame Options:

Indicate which frame will be used for the opening. See Section A - Selling, pages A11 - A13 for more details. If a frame is not being used then put an "X" through the box.

Line	Room	Type	Hinge Style	Width x Height	Louver Size	Color	Tilt	Mount	Frame	# Frame Sides	Panel Lock	Frame Ext	Cover Strip	Sill Frame	Divider Rail		Hinges
1	**2**	P1 P2 P4	**L** (Left hinge) **R** (Right hinge) **LL** (Left bi-fold) **RR** (Right bi-fold)	Inside Mount = Smallest Opening Size Outside Mount = Largest Opening Size	2 1/2″ 3 1/2″ 4 1/2″	Cotton (5136) Pearl (5151) Vanilla (5140)	Tilt Bar (T) Rear Tilt (CV) Gear (G)	**IM** (Inside Mount) **OM** (Outside Mount)	**BZ** (Bullnose Z) **C** (Casing) **CAF** (Deluxe Trim) **CS** (Casing Sill) **L** **SB** (Sill Bullnose) **Y** (Trim Frame) **Z** **S**	1 — 2 || 3 ☐ 4 ☐	Yes or No	0 1 2 3	Yes or No	Yes or No	Standard or Deluxe	Distance up in inches	**P** (Painted) **B** (Brass) **S** (Stainless)
1	**2**	**3**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**15**	**16**

10. Number of Frame Sides:

A 2 sided frame will be a frame on the left and the right unless otherwise specified. The most common 2 sided frame applications with the frames on the sides are the 2 sided bay and bow windows. A 2 sided frame can also have the frame top and bottom only. This application is normally a French Door shutter and the indication of P1FD in the Type section will tell the computer to invert the two frames from two sides to a top and bottom. A 3 sided frame will be a frame on the top and both sides unless otherwise indicated. This application is normally a Patio P4D or a window that has a sill. To have the 3 sided frame as a bottom and two sides indicate IF (inverted) after the number of panels in the Type section. This IF will tell the computer to invert to bottom and two sides. Also the inverted applications are illustrated in Section B – Panel Styles. A 4 sided frame is the most common, and recommended, application.

11. Panel Lock:

The panel lock system replaces magnets as the means of keeping the panel in the closed position.

12. Frame Extension:

Extends the frame into the room for an outside mount only. L Frame and S Frame extensions are 1/2″ and more than one may be requested. The Casing Frame extension is 1/2″ and only one may be requested.

13. Cover Strip:

Available for casing frame to cover the gap created behind the frame when mounting on top of window trim. Cover strip is also available for an inside mount L Frame application. It covers the gap between the opening and the frame. This is used only if Dap is not going to be used.

14. Sill Frame:

Available for the Trim, Deluxe Trim, Bullnose Z, Z, S and Casing Sill Frames. It is usually placed at the bottom. For top or side placement, note in the Remarks section.

15. Divider Rail:

Adds support to the panel to prevent sagging. Page A10 shows the specifications to decide on rails and page D4 informs how to calculate distance up.

16. Hinges:

Are available in 4 color choices (Cotton, Pearl, Brass and Stainless Steel). Extended hinges are only available on panels without frames. Refer to Section N – Installation for complete information.

Uneven Panel Widths:

Unless otherwise indicated the panels widths are made equal. If the window opening dictates that different panel widths are required for the opening, then enter the specific widths in this section of the Order Form.
See page D2

UNEVEN PANEL WIDTHS – LEFT PANEL FIRST   UNEVEN T–POST DISTANCES

Line #	Panel 1/ 1st T–Post	Panel 2/ 2nd T–Post	Panel 3/ 3rd T–Post	Panel 4/ 4th T–Post	Panel 5/ 5th T–Post	Panel 6/ 6th T–Post

Uneven T-Post Distances:

If a configuration is ordered with T-post, the panels widths are made equal. If the window dictates that different panel widths are required for the opening and that T -posts are going to be used, then enter the specific T-post locations in this section of the Order Form.
See page D2

UNEVEN PANEL WIDTHS – LEFT PANEL FIRST   UNEVEN T–POST DISTANCES

Line #	Panel 1/ 1st T–Post	Panel 2/ 2nd T–Post	Panel 3/ 3rd T–Post	Panel 4/ 4th T–Post	Panel 5/ 5th T–Post	Panel 6/ 6th T–Post

Double Hung Application Line #:

Refers to the same line number of the same opening where all the information is indicated on the Regular Order Form.

Double Hung Application Split Distance From Bottom:

The distance in which the panels of a double hung application are to be split. For an outside mount, the distance is from the bottom of the selected frame to where the panel is to be split. For an inside mount, the distance is from the sill to where the panel is to be split.

DOUBLE HUNG APPLICATION

Line#	Split Distance From Bottom (inches)	Horizontal T-post Y or N

Double Hung Application Horizontal T-Post:

A horizontal T-Post is mounted below the top panel and above the bottom panel to allow for panel lock or magnets to be installed as well as for light block purposes. It is important to ensure that the horizontal T-post has an area that it can be supported in the middle so that it does not sag. If the T-post is requested, simply indicate Y and if not indicate N.

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SHUTTERS

L4

ECLIPSE® SHUTTERS

STANDARD SHUTTER ORDER FORM

Account Name:

Ship to:

Address:

City, State, Zip:

Account #:	Page _____ of _____	Reference #:
Phone:	Date:	
Email:	Sidemark:	
Ordered By:	P.O. #:	

Line	Room	Type	Hinge Style	Width	×	Height	Louver Size	Color	Tilt	Mount	Frame	# Frame Sides	Panel Lock	Frame Ext	Cover Strip	Sill Frame	Divider Rail		Hinges
		P1 P2 P4	L (Left hinge) R (Right hinge) LL (Left bi-fold) RR (Right bi-fold)	Inside Mount = Smallest Opening Size Outside Mount = Largest Opening Size			2 1/2″ 3 1/2″ 4 1/2″	Cotton (5136) Pearl (5151) Vanilla (5140)	Tilt Bar (T) Rear Tilt (CV) Gear (G)	IM (Inside Mount) OM (Outside Mount)	BZ (Bullnose Z) C (Casing) CAF (Deluxe Trim) CS (Casing Sill) SB (Sill Bullnose) Y (Trim Frame) Z S	1 2 3 4	Yes or No	0 1 2 3	Yes or No	Yes or No	Standard or Deluxe	Distance up in inches	C (Cotton) P (Pearl) B (Brass) SS (Stainless Steel)
1					×														
2					×														
3					×														
4					×														
5					×														
6					×														

UNEVEN PANELS/T-POSTS - SEE SECTIONS D AND E IN THE MANUAL FOR MEASURING INSTRUCTIONS

UNEVEN PANEL WIDTHS LEFT PANEL FIRST

Overall Width — Panel 1 Width — Panel 2 Width — Panel 3 Width — Panel 4 Width

UNEVEN T-POST DISTANCES

Overall Width — 1st T-Post — 2nd T Post — 3rd T-Post

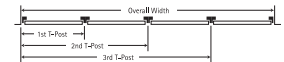| Line #	Panel 1/ 1st T-Post	Panel 2/ 2nd T-Post	Panel 3/ 3rd T-Post	Panel 4/ 4th T-Post	Panel 5/ 5th T-Post	Panel 6/ 6th T-Post

DOUBLE HUNG APPLICATION

Line #	Split Distance From Bottom (inches)	Horizontal T-Post Yes or No
1		
2		
3		
4		
5		
6		

IMPORTANT INFORMATION

- Maximum single panel width - 36″
- Maximum Bi-fold panel width - 24″
- Divider Rail required within 66″ of any top or bottom rail (D4 in manual)
- Importance of height consistency (D3 in manual)
- Items that do NOT meet product specifications as detailed above and in manual will be manufactured with a VOID WARRANTY!

NOTES/REMARKS

Only complete, signed orders will be processed.

Name:

Signature:

ECLIPSE® SHUTTERS

Types and Styles of Shutter Panel Configurations

Single Panel

Type	Hinge Styles	
P1	L	
P1	R	
P1FD	L	
P1FD	R	
P1FD	CR	
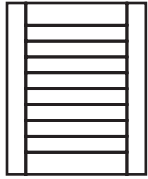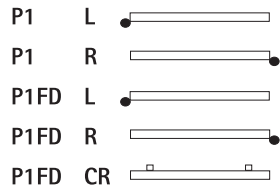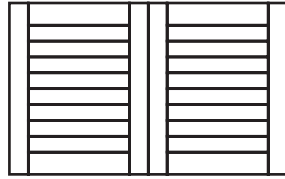
Two Panels

Type	Hinge Styles	
P2	L T R	
P2	LR	
P2	LL	
P2	RR	

Three Panels

Type	Hinge Styles	
P3	L T R T R	
P3	L T L T R	
P3	LL R	
P3	L RR	

Four Panels
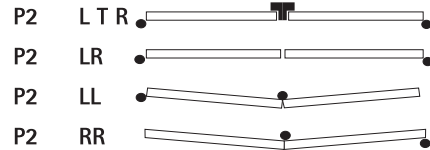
Type	Hinge Styles	
P4	LR T LR	
P4	LL RR	
P4	LL T RR	
P4	L T LR T R	
P4	L T LL T R	
P4	L T RR T R	
P4D	LLRR	
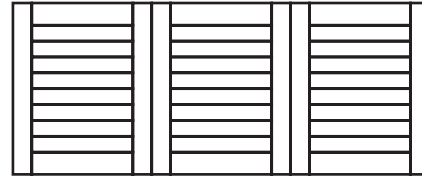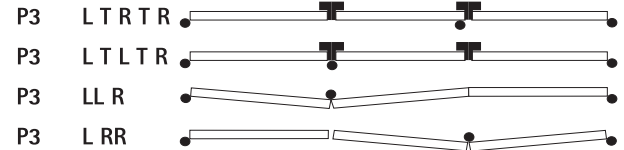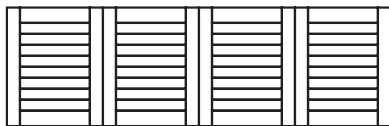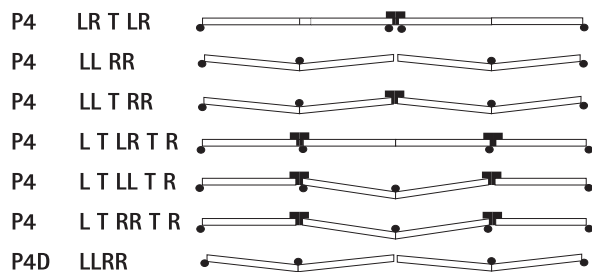
Sliding Door

Six Panels

Type	Hinge Styles	
P6	LR T LR T LR	
P6	LL T LL T RR	
P6	LL T RR T RR	
P6	L T LR T LR T R	
P6	L T LL T RR T R	
P6	L T LL RR T R	
P6	LLR T LRR	
P6	LL T LR T RR	

Five Panels

Type	Hinge Styles	
P5	L T L T L T R T R	
P5	L T L T R T R T R	
P5	L T L T L T L T R	
P5	LL T R T RR	
P5	LL T L T RR	

Eight Panels

Type	Hinge Styles	
P8	LLRR T LLRR	
P8	LL T LLRR T RR	
P8	LR T LR T LR T LR	

Uneven Panel

Overall Width

Panel 1 — Panel 2 — Panel 3 — Panel 4

Uneven T-Post

Overall Width

first T-Post

second T-Post

third T-Post

INSTALLATION

- Rechargeable, variable speed 3/8″ drill

- 3/8″ diameter drill bit

- 3/32″ drill bit

- 3″ Robertson bits of #6 (green handle #1) and #8 (red handle #2) screwdrivers

- Pan-head full thread screws are provided

- Hinge shims (available if requested for no-frame applications only)

- Slot screwdriver

- Non-marring hammer with 1″ head for tapping frames into position

- Jig saw, hack saw, Dremmel tool or X-acto knife if cut-outs are required

- Loctite Super Bonder® 414 Instant Adhesive or contact cement required for an outside mount L Frame

- Dap for mitered corners and gaps between the frames and window jambs

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SHUTTERS

Inside Mount with No Frame

1. INSTALL TOP HINGE

- Starting with the left panel(s), place panel into opening.
- Position the panel so it has equal clearance at the top and bottom. Make a pencil mark under the top hinge.
- Install one screw into the window jamb hinge that goes below the top hinge.
- Check to see if the position is accurate by placing the panel into the opening. Insert the top hinge pin into the panel and jamb. If accurate, remove the panel and insert the second screw into the top hinge on the jamb.

2. INSTALL BOTTOM HINGE

- Place the panel into position by inserting the top hinge pin into the panel and jamb hinge.
- Mark the jamb where the bottom of the lowest hinge is on the panel.
- Install one screw into the window jamb hinge that goes below the bottom hinge.
- Check if position is accurate by installing the panel from the top and bottom hinges.
- Shim using available hinge shims if necessary.

3. LEVEL PANELS

- If more panels are to be installed, repeat the first two processes by lining up the panel as the main concern.
- If minor support or leveling is required, turn adjustable jamb cap at the bottom of the vertical jamb to the required spot (if used).

4. INSTALL REMAINING HINGES

- Once panels are level, install the remaining panel hinges while the panels are hanging. Simply open the panels, insert the hinge pin into the hinges and screw the hinges into the window jambs.
- Shim using available hinge shims if necessary.

5. INSTALL MAGNETS, PLATES OR RAMPS

- See pages M3-M4.

Inside Mount (no frame flush with opening)

Window

5/8" top leaf is attached to shutter.

5/8" bottom leaf attaches to opening.
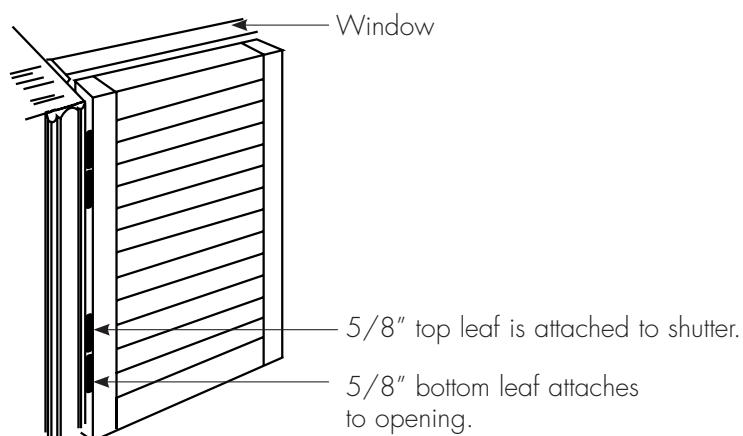
Inside Mount with Extended Leaf Hinge

5/8" top leaf is attached to shutter.

1 1/4" extended leaf hinge attaches to opening.
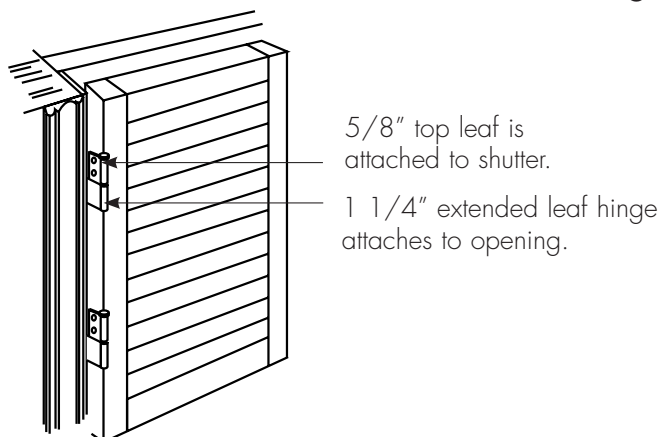
Note: *The extra length allows for 5/8" maximum adjustment, thus minimizing required clearance.*

ECLIPSE® SHUTTERS M2

Panel Lock Ramp Installation - Less Than 4-sided Frame Applications

Panel Lock Spring Loaded Plunger
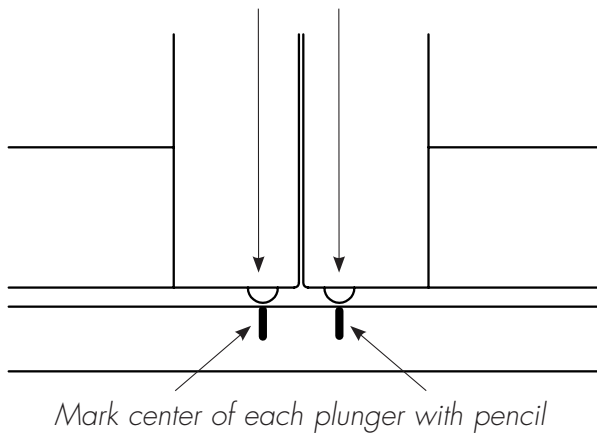
Panel Lock Ramps

Mark center of each plunger with pencil
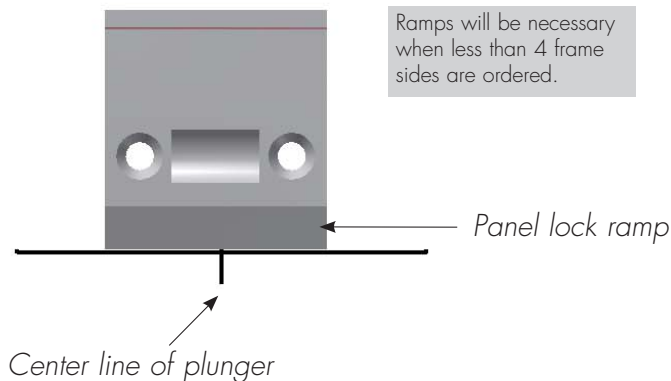
Ramps will be necessary when less than 4 frame sides are ordered.

Standard panel lock ramp

Optional panel lock ramp with back

Panel lock ramp

Center line of plunger
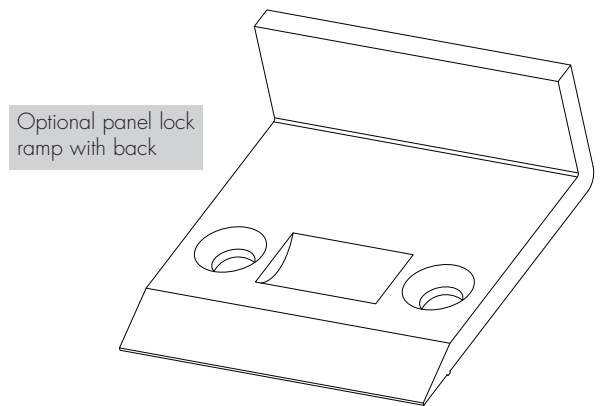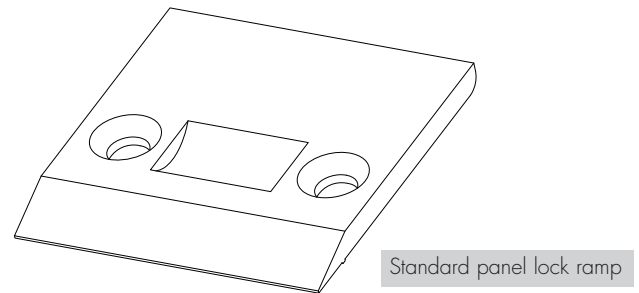
PROCEDURE

1. The Panel Lock Cap Assembly will be installed during fabrication.
2. Once the shutter and panels have been installed, make a mark on the window sill with a pencil to show where the center of the Panel Lock Plunger is located, as well as the front of the ramp.
3. Open the panel(s).
4. Place the Panel Lock Ramp on the sill so that it aligns with the indicator lines.
5. Mark the center of each screw hole of each Ramp.
6. Remove the Ramps and drill a pilot hole for each screw using a 3/32" drill bit.

7. Place the Ramp back on the sill and set the screws. (Repeat as necessary)
8. Operate the panel(s) to ensure proper function and closure.
9. The Panel Lock Plunger can be adjusted by using a flat head screwdriver. Push in on the plunger and rotate clockwise to thread the plunger into the panel or rotate the plunger counterclockwise to extend the plunger.

M3 ECLIPSE®
S H U T T E R S

Magnetic Catch Placement
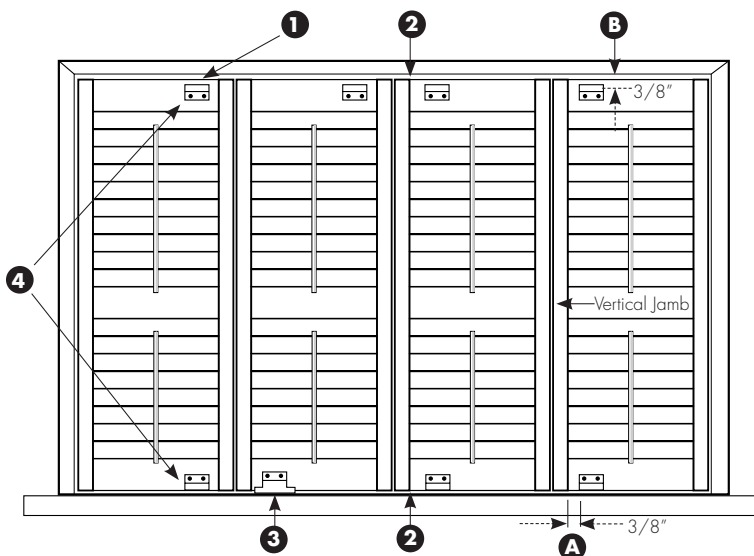
On framed applications, mount plate 3/8" from vertical jamb **A**, and 3/8" from end of panel on top rail **B**.

On sill mount installations, mount plates flush with bottom of panel, and 3/8" from vertical jamb on bottom rail.

Note: All magnets and catches must be installed. Mount magnets on frames. When there is no frame, mount magnets on window sill or jamb. Receiver plate mounts on bottom and top cross rails. Magnets & Catches will not be used if the panel lock has been installed.

PROCEDURE

1. Install plate, as shown on drawing, with the holes towards the center of panel.
2. With panels closed, pencil mark the sill or frame where the vertical jamb meets the top or bottom rail.
3. Install magnet from the mark toward the inside of the panel.
4. Install two magnets and plates per panel.

Side View of Magnetic Catch Position

Frame

Magnet on Frame

3/8"
(i.e., plate is 3/8" from end of panel)

Plate

Top Rail

Vertical Jamb

Bottom Rail

Plate

Plate is flush with panel.

Magnet on Sill

ECLIPSE® SHUTTERS M4

Catch Receiver Installation

L Frame

Vertical
Jamb
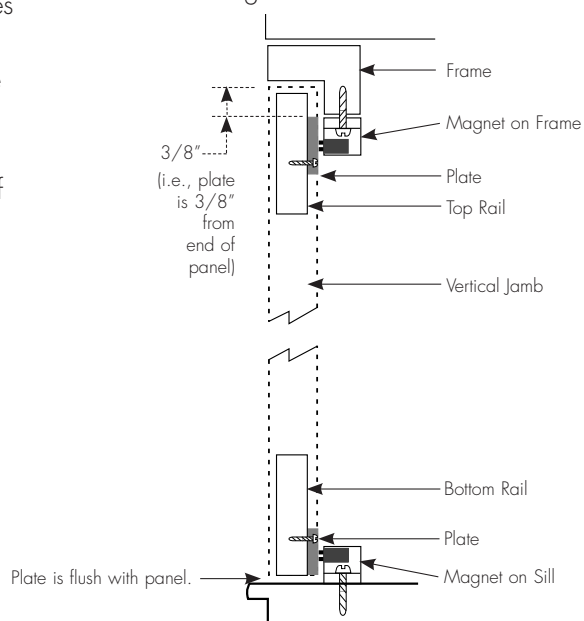
Receiver
Location
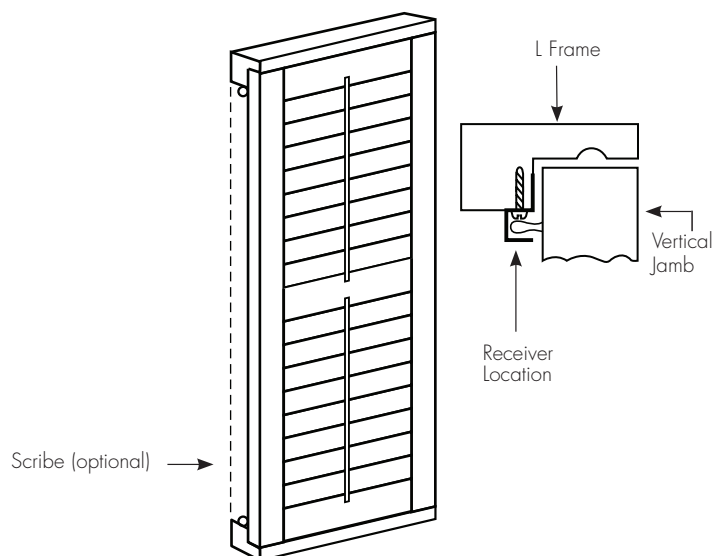
Scribe (optional)

Optional Scribe *may be glued on the side or
Mounting Strip may be screwed on the back
of the panel to minimize or eliminate any side
gap that is created when using catch receivers.*

PROCEDURE

1. Install bottom frame
2. Place panel on bottom frame
3. Mark location of top frame
4. Remove panel
5. Install top frame
6. Install each receiver 7/8" from the edge of each frame
7. Insert catch into the receiver so the screw is sticking out into the room
8. Carefully place the panel into position
9. Press the panel against the screws to indent the panel
10. Remove the panel
11. Remove catches from the receivers
12. Screw the catches into the indent on the panel
13. Place the panel into position, lining up catch and receiver
14. Tap panel front until catch goes into receiver at each corner

M5 ECLIPSE®
S H U T T E R S

Frame Assembly for 3 or 4 sided Frames

BONDING *(for L Frame outside mount only)*
- Apply Super Bonder® 414 (or Contact Cement) to outside surface of corner key.
- Slide frame over corner key. Hold firmly until it is set (10 to 20 seconds).

- Apply Super Bonder® 414 to outside surface of corner key.
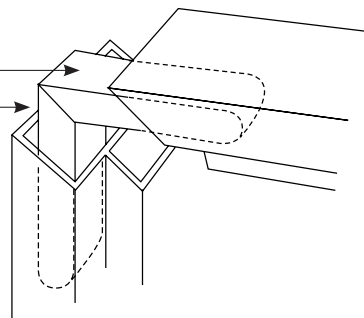
ASSEMBLY

- Lay side frames flat beside the panels, so that the panel hinges are above the frame hinges.

- Insert the plastic corner keys on the top and bottom frames first.

- Slide the top and bottom frames into the side frames (Use a small amount of Loctite only after it is determined that the frames match. It will be impossible to detach the corners after they have set.)

- If minor gaps appear, use Dap to seal the corners.

- For Casing Frames, S Frames, Trim Frames, Bullnose Z Frame and Deluxe Trim Frames, install a 90-degree metal bracket at the back of the frames for a tight, and more secure assembly. See diagrams below.

- If extensions are used:

  a) L Frame and S Frame Extension slides onto the back of the frame.

  b) Casing Frame Extension is screwed to the frame before installation.

Note: *For Casing, S Frame, Bullnose Z, Deluxe Trim, and Trim frames, in addition to the corner key, install a 2 1/2" x 2 1/2" x 1/2" (90°) metal bracket for a more secure corner*

Top

Corner Key

Hinge leaf on frame is below the hinge leaf on the panel

Corner Key

Bottom
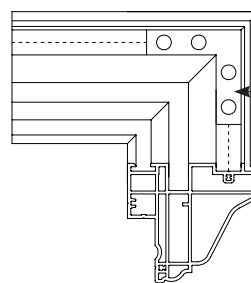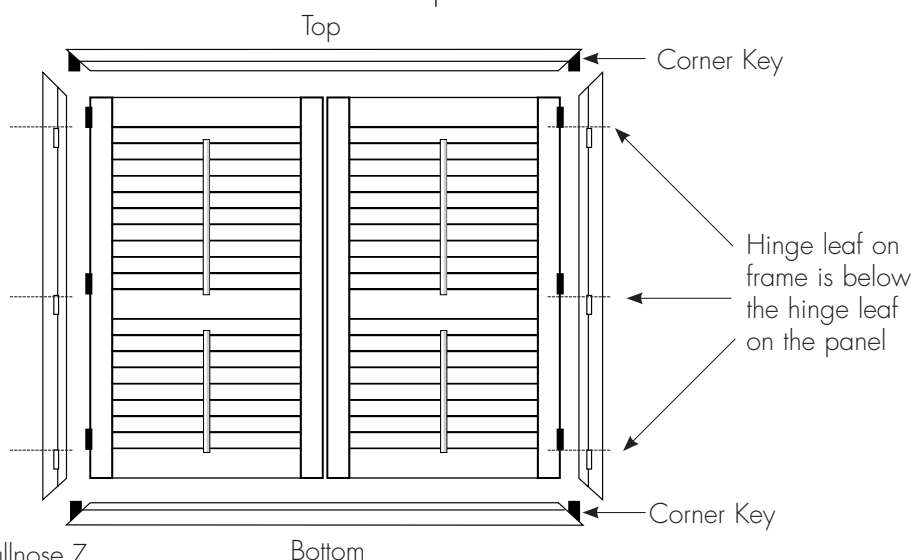
Metal Bracket installed on back side of Trim Frame, Deluxe Trim Frame Bullnose Z, S Frame and Casing Frame

Deluxe Trim with (2) Brackets

ECLIPSE® SHUTTERS M6
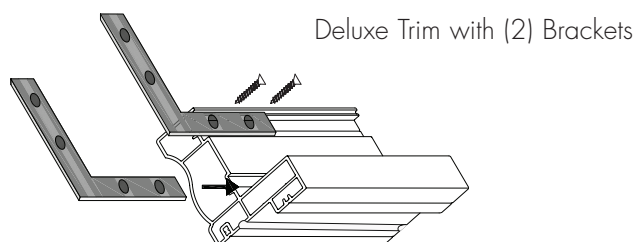
T-Posts

1. T-POSTS
- T-Posts are used as a divider to hinge single or bi-fold panels when openings are too wide to hinge panels from the side. T-Posts can be placed directly in front of any existing window divider.

2. IF MOUNTING DIRECTLY TO THE WINDOW MULLIONS
- Drill 3/8″ holes through the first layer of Polyresin3® at the front face of the T-Post. Start approximately 2″ from the top and drill hole approximately every 10-15 inches.
- Secure the T-Post by screwing in the top and bottom holes.
- Hang panels to the T-Post or hang panels side-by-side against T-Post to ensure even sight lines and all is level.
- Screw in the remainder of the holes.
- Cap with button plugs.

3. IF MOUNTING USING L-BRACKETS
- Attach L-Brackets to the T-Posts. Ensure that brackets are placed at the back side of the T-Post so that the bracket screw goes through the screw post in the T-Post. The stop hole is positioned at the top left and bottom right side.

- Screw brackets into position on top right and bottom left side, centering the screw into the L-Bracket. This will allow some play for leveling purposes.
- Hang panels and adjust T-Post positioning until sight lines and leveling is achieved.
- Lock T-Post into position by setting screws through the stop holes in the L-Bracket.

4. IF MOUNTING USING ALIGNMENT BLOCKS
- Stack two T-Post Alignment Blocks.
- Position on the frame so that the holes in the blocks are lined up with the pre-drilled holes in the bottom frame.
- Using #6 x 1 3/4″ screws, attach the blocks to the frame.
- Repeat for the top frame.
- Assemble frame.
- After the frame is installed and the position of the T-Post is determined, set a #8 x 1 1/2″ installation screw horizontally through the pre-drilled hole in the side of the T-Post at the bottom.
- Repeat the above step and cover holes with button plugs.
- See pages M8-M9 for additional details.

T - Post Bracket

Stop Hole

Slot Hole
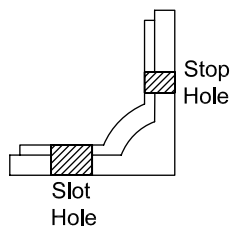
T - Post Alignment Block
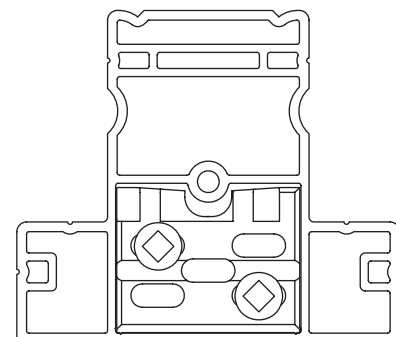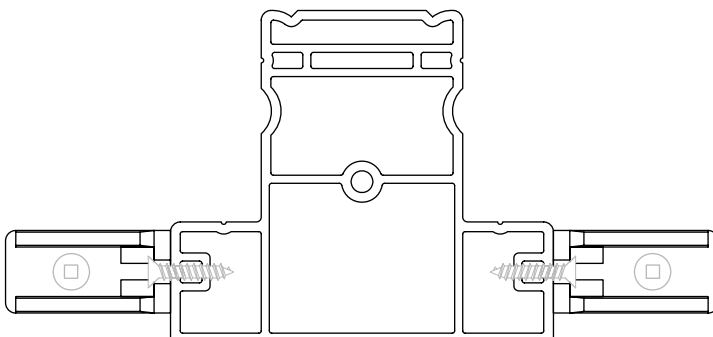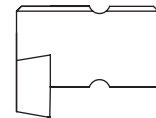
T-Post Installation - T-Post Alignment Block with 3-sided Frame Mounting on Window Sill

1. ATTACH T-POST BLOCKS TO FRAME
- Stack two T-Post Alignment Blocks, both with the tabs facing down. (See page M9)
- Lay out the top frame so that the light block is facing up.
- Two holes have been pre-drilled diagonally in the face of the top frame at each T-Post location.
- Position the stacked blocks on the light block portion of the frame so that the holes in the block align with the pre-drilled holes in the frame. (The tabs will hang off the edge of the light block.)
- Using (2) #6 x 1 3/4" T-Post block screws, attach the blocks to the frame. Do not completely tighten the screws down, only make them snug. This will allow some side to side adjustment of the T-Post.

2. ASSEMBLE FRAME AND T-POST
- Insert the corner keys into the top frame.
- Attach the left side frame to the top frame.
- Attach the right side frame to the top frame.
- Attach T-Post to the top frame by sliding the T-Post over the blocks on the top frame.
- If aluminum reinforcement was requested for the T-Post, make sure it is positioned properly within the T-Post.

3. BEGIN INSTALLING THE SHUTTER
- Begin by installing the shutter as a standard 3-sided frame but install only the top screw on each side frame and one bottom screw if necessary.
- Test the fit and position of the panels to determine the location of the T-Post.
- Mark the front and center of the T-Post with a pencil on the sill.
- Mark the back of the T-Post with a pencil on the sill.
- Remove the panels and the frame.
- Stack two T-Post Alignment Blocks, one with the tab facing up and one with the tab facing down. (as pictured below)
- Attach two stacked T-Post blocks to the sill so that the back of the "trough" of the block is 1 1/4" from the front center mark of the T-Post.
- Use (2) #6 x 1 3/4" T-Post Block Screws to attach the blocks to the sill. Do not fully tighten the screws - they should only be snug.
- Set the assembled frame back in the opening making sure the bottom of the T-Post slides over the blocks on the sill.
- Finish installing the frame and then hang the panels.

4. ALIGN T-POST AND SECURE
- Determine the side to side position of the T-Post, then drive a #8 x 1 1/2" installation screw horizontally through the hole in the end of the T-Post.
- The screw will then pass between the (2) T-Post Blocks, thus locking the T-Post into position.
- Repeat for the top of the T-Post and cap installation holes with button covers.

Mark T Post & Block location on window sill

Use pencil to mark back of T Post →
Window Sill
Blocks
"Trough"
1¼"
Use pencil to mark front & center of T Post →

Attach T Post Blocks to Sill

#6 x 1¾" T Post Block Screws
T Post Alignment Blocks
Sill

Position T Post

T Post
T Post Installation Hole
Sill

Align T Post and Secure

T Post
Sill
#8 x 1½" Installation Screw

ECLIPSE® SHUTTERS M8
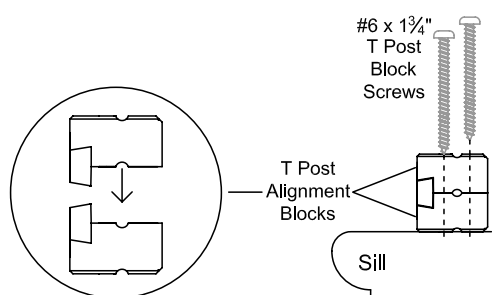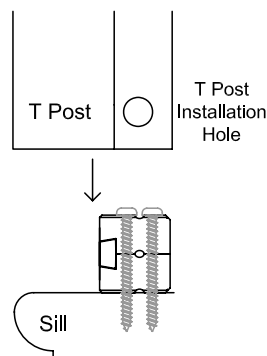
T-Post Installation - T-Post Alignment Block with 4-sided Frame

1. ATTACH T-POST BLOCKS TO FRAME
- Stack two T-Post Alignment Blocks, both with the tabs facing down.
- Lay out the bottom frame so the light block is facing up.
- Two holes have been pre-drilled diagonally in the face of the bottom frame at each T-Post location.
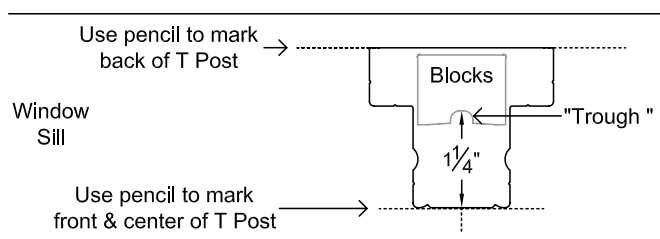- Position the stacked blocks on the light block portion of the frame so that the holes in the block align with the pre-drilled holes in the frame. (The tabs will hang off the edge of the light block.)
- Using (2) #6 x 1 3/4" T-Post block screws, attach the blocks to the frame. Do not completely tighten the screws down, only make them snug. This will allow some side to side adjustment of the T-Post.
- Repeat the above steps for the top frame.

2. ASSEMBLE FRAME AND T-POST
- Insert the corner keys into the bottom frame.
- Attach the left side frame to the bottom frame.
- Attach the right side frame to the bottom frame.
- Attach T-Post to the bottom frame by sliding the T-Post over the blocks on the bottom frame.
- If aluminum reinforcement was requested for the T-Post, make sure it is positioned properly within the T-Post.
- Attach the top frame. Make sure the corner keys in each end of the top frame align with the corner key cavities in the side frames. At the same time make sure the T-Post is positioned on the blocks attached to the top frame.

3. INSTALL THE SHUTTER
- Follow standard instructions for installing the frame.
- Test the fit and position of the panels to determine the location of the T-Post.
- Mark the position of the T-Post on the frame with a pencil.
- Remove the panels.

4. ALIGN T-POST AND SECURE
- With the bottom of the T-Post in the desired position, drive a #8 x 1 1/2" installation screw horizontally through the hole in the end of the T-Post.
- The screw will then pass between the (2) T-Post Blocks, thus locking the T-Post into position.
- Repeat for the top of the T-Post and cap installation holes with button covers.

Attach T Post Blocks to Frame

#6 x 1¾"
T Post
Block
Screws

T Post
Alignment
Blocks

Frame

Position T Post

T Post
Installation
Hole

T Post

Frame

Align T Post and Secure

T Post

Frame

#8 x 1½"
Installation
Screw

M9 ECLIPSE®
S H U T T E R S

Inside Mount with L Frame

1. ASSEMBLE FRAMES
- See page M6.

2. PLACE FRAME IN OPENING
- The top part of the frame is indicated by a greater amount of distance from the top of the top hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME
- Most frames have pre-drilled holes placed for ease of installation.
- Insert a screw in both the left and right top side frame holes. Center the frame in the opening, then drill the screws into the jambs. If the screw is not in enough, the opening will be smaller than ordered. If the screw is in too far, the opening will be larger than ordered.

4. HANG PANELS
- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING
- Move bottom frame left or right until the panels are level. If this does not work, then:
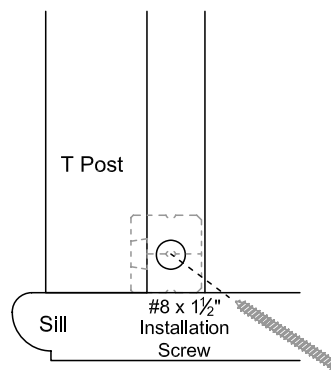- Move left frame up or down until the panels are level. If this does not work, then:
- Move right frame up or down until the panels are level.
- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.

6. FASTEN REMAINING SCREWS
- Insert screws in the remaining holes and check to ensure panels are level after every screw has been drilled into position.

7. INSTALL MAGNETS AND PLATES OR RAMPS
(if applicable)
- See pages M3-M4 for instructions.

8. CAP INSTALLATION HOLES
- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. CLOSE ANY GAPS
- With either L Frame Cover Strip, which is glued to the front face of the frame, or with Dap.

Fastening

Screw

Window Jamb

Recess

Window

3/8" Diameter Holes

Squareness Adjustments

Moves Left Panel Up

Moves Right Panel Up

Hole Locations

Up

Up

B

Hinges

C

Down

Down

Moves Left Panel Down

Moves Right Panel Down

Left

A

Right

Moves Left Panel Down and Right Panel Up

Moves Left Panel Up and Right Panel Down

ECLIPSE® SHUTTERS M10

Inside Mount with Z, Bullnose Z, Trim, or Deluxe Trim Frames

1. ASSEMBLE FRAMES
- See page M6.

2. PLACE FRAME IN OPENING
- The top part of the frame is indicated by a greater amount of distance from the top of the top hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME
- Most frames have pre-drilled holes placed for ease of installation.
- Insert a screw in both the left and right top side frame holes. Center the frame in the opening, then drill the screws into the jambs. If the screw is not in enough, the opening will be smaller than ordered. If the screw is in too far, the opening will be larger than ordered.

4. HANG PANELS
- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING
- Move bottom frame left or right until the panels are level (A). If this does not work, then:
- Move left frame up or down until the panels are level (B). If this does not work, then:

- Move right frame up or down until the panels are level (C).
- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.

6. FASTEN REMAINING SCREWS
- Insert screws in the remaining holes and check to ensure panels are level after every screw has been drilled into position.

7. INSTALL MAGNETS AND PLATES OR RAMPS
(if applicable)
- See pages M3-M4 for instructions..

8. CAP INSTALLATION HOLES
- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. CLOSE ANY GAPS
- For gaps that may occur at frame corners or around frame, apply Dap as needed.

Squareness Adjustments

Moves Left Panel Up

Moves Right Panel Up

Hole Locations

Up

Up

B

Hinges

C

Down

Down

Moves Left Panel Down

Moves Right Panel Down

Left **A** Right

Moves Left Panel Down and Right Panel Up

Moves Left Panel Up and Right Panel Down

Fastening

Window Trim

Screw

3/8" Diameter Holes

Window

⅜" Button Cover

Inside Mount and Outside Mount with Mounting Strip

1. DRILL INSTALLATION HOLES
- 3/8" diameter holes must be drilled at each hinge.

2. PLACE SIDE FRAME IN OPENING
- The top part of the frame is indicated by a greater amount of distance from the top of the top hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN SIDE FRAME
- Insert a screw inside the top holes first, followed by the bottom ones, keeping the panels plumb.

4. HANG PANELS
- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING
- Adjust the bent-leaf hinges, if necessary, by loosening the hinge screws and moving the hinge left or right.
- Re-tighten hinge screws once level.

6. FASTEN REMAINING SCREWS
- Insert screws in the remaining holes and check to ensure panels are level after every screw has been screwed into position.

7. FASTEN TOP AND BOTTOM FRAME
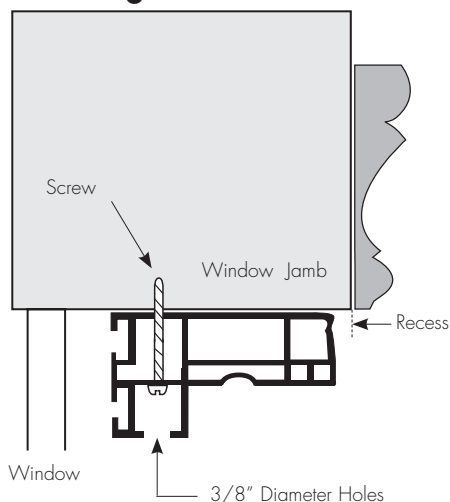- Drill 3/8" hole.
- Center and insert screws.

8. CAP INSTALLATION HOLES
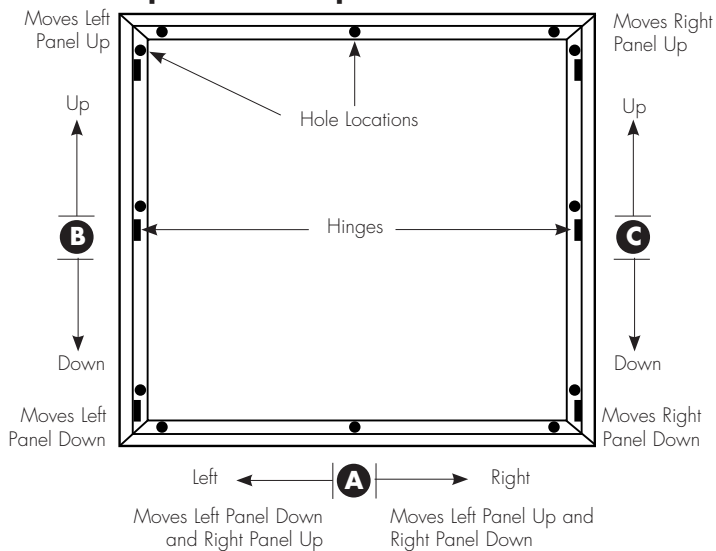- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. INSTALL MAGNETS AND PLATES
- See page M4 for instructions.

Outside Mount

Wall Face

Window Opening

3/8" Installation Hole

Inside Mount

Casing

Mounting Strip

Pre Drill 3/8" Installation Hole

Bent Leaf Hinge

5/8" Leaf

ECLIPSE® SHUTTERS M12

Outside Mount with Casing Frame or S Frame

1. ASSEMBLE FRAMES
- See page M6.

2. HOLD FRAME ON OPENING
- The top part of the frame is indicated by a greater amount of distance from the top of the top hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME
- Most frames have pre-drilled holes placed for ease of installation.
- Insert a screw in both the left and right top side frame holes as level as possible.

4. HANG PANELS
- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING
- Move bottom frame left or right until the panels are level **(A)**. If this does not work, then:
- Move left frame up or down until the panels are level **(B)**. If this does not work, then:
- Move right frame up or down until the panels are level**(C)**.
- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.

6. FASTEN REMAINING SCREWS
- Insert screws in the remaining holes and check to ensure panels are level after every screw has been screwed into position.

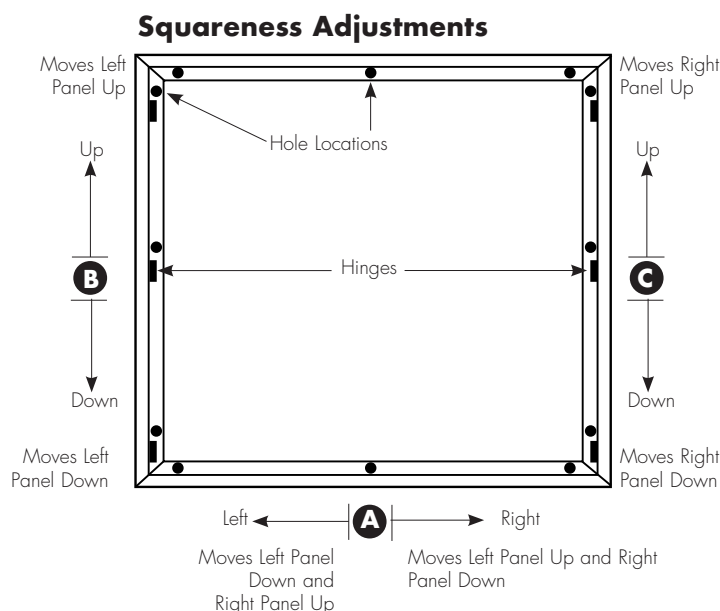### 7. INSTALL MAGNETS AND PLATES OR RAMPS
(if applicable)
- See pages M3-M4 for instructions.
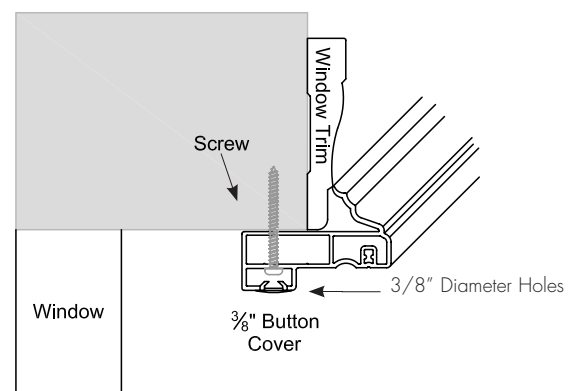
8. CAP INSTALLATION HOLES
- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. CLOSE ANY GAPS
- For gaps that may occur at frame corners or around frame, apply Dap as needed.

Fastening

Wall

Screw

Window

Pre-Drilled ⅜"
Diameter Hole

Optional Cover Strip (Use only if frame is flush with opening.)

Squareness Adjustments

Moves Left Panel Up

Moves Right Panel Up

Up

Hole Locations

Up

B

Hinges

C

Down

Down

Moves Left Panel Down

Moves Right Panel Down

Left

A

Right

Moves Left Panel Down and Right Panel Up

Moves Left Panel Up and Right Panel Down

M13 E CLIPSE® SHUTTERS
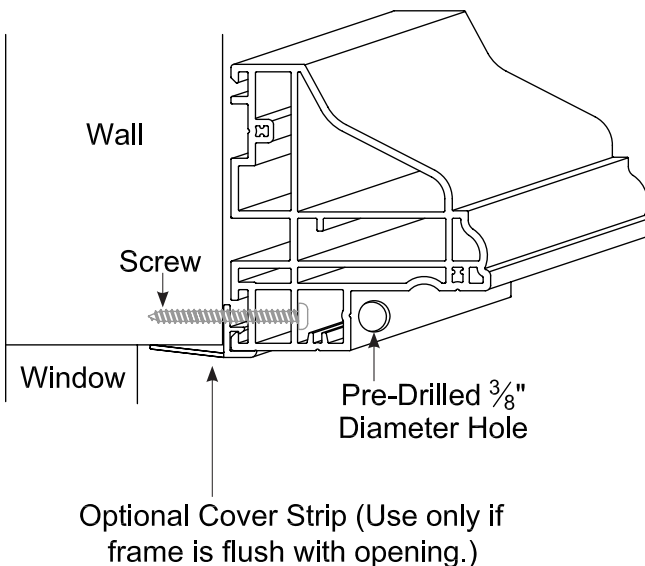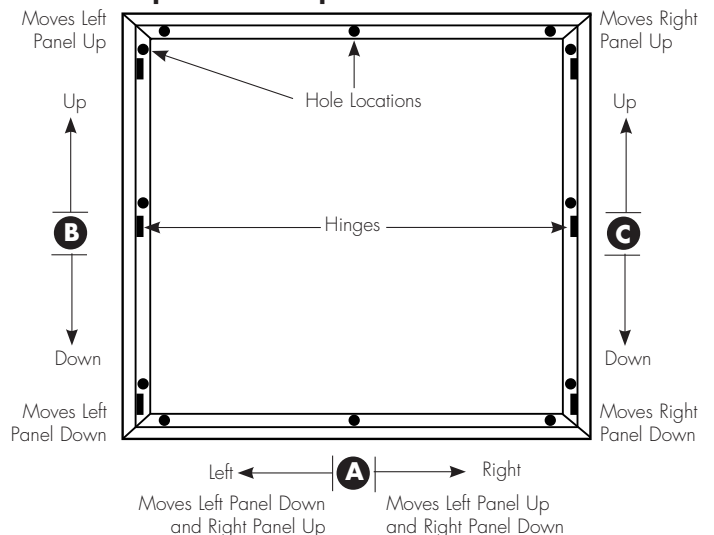
Outside Mount with L Frame

1. ASSEMBLE FRAMES
- See page m6.
- Corner key for outside mount L Frames must be glued in place.

2. HOLD FRAME ON OPENING
- The top part of the frame is indicated by a greater amount of distance from the top of the top hinge to the edge of the frame. The label will indicate left and right side.

3. FASTEN FRAME
- Most frames have pre-drilled holes placed for ease of installation.
- Insert a screw in both the left and right top side frame holes as level as possible.

4. HANG PANELS
- With upper and lower hinge pins only.

5. SQUARE/LEVEL PANELS TO THE OPENING
- Move bottom frame left or right until the panels are level **(A)**. If this does not work, then:
- Move left frame up or down until the panels are level **(B)**. If this does not work, then:
- Move right frame up or down until the panels are level **(C)**.
- When the panels are level within the frame, hold bottom frame in position and place a screw in the middle bottom frame hole.

6. FASTEN REMAINING SCREWS
- Insert screws in the remaining holes and check to ensure panels are level after every screw has been screwed into position.
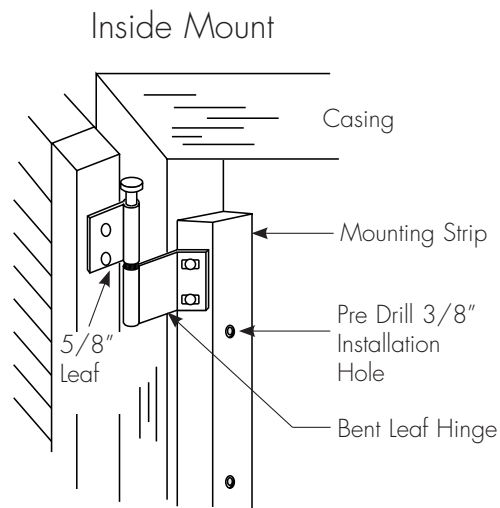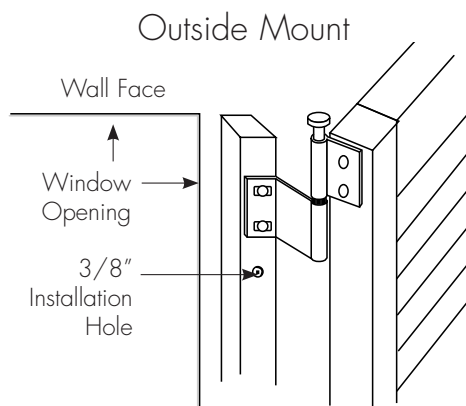
7. INSTALL MAGNETS AND PLATES OR RAMPS
(if applicable)
- See pages M3-M4 for instructions.

8. CAP INSTALLATION HOLES
- Once all screws have been installed and panels checked for levelness, cap all holes with the provided button plugs.

9. CLOSE ANY GAPS
- For gaps that may occur at frame corners or around frame, apply Dap as needed.

Squareness Adjustments

Moves Left Panel Up

Moves Right Panel Up

Up

Screw Locations

Up

B

Hinges

C

Down

Down

Moves Left Panel Down

Moves Right Panel Down

Left

A

Right

Moves Left Panel Down and Right Panel Up

Moves Left Panel Up and Right Panel Down

Fastening

Wall

Pre Drilled 3/8" Diameter Hole

Window

ECLIPSE® SHUTTERS M14

GENERAL INFORMATION AND TROUBLESHOOTING

General Information

Troubleshooting

Shutter Panel Parts Diagram

Vertical Jamb Cap

Light Block

Hinge

Tilt Bar Cap

Tilt Bar Connector

Tilt Bar

Vertical Jamb

#8 x 3″ Assembly Screws

Top Rail

Divider Rail

Bottom Rail

Panel Lock with Roller

Interlock

Tension Rod Insert

Louver Cap

Louver

Connector Groove (Notch)

#8 x 3″ Assembly Screws

Tension Rod Location

Panel Lock

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Two Part Hinges

Pin is removable.

Top Leaf is always attached to the panels being supported.

Bottom leaf attached to frames, T-post, or supporting panels.

5/8" Hinge Leaf Set
(used on panels and frames)

1 1/4 " Extended Hinge Leaf Set
(used only to install panels without frame to provide depth adjustment)

Mounting Strip

Bent Leaf Hinge Set
(used for inside and outside mount with 3/4" or 1" mounting strip)

Available colors: Cotton, Pearl, Brass, and Stainless Steel.

Note: *All panels, frames and T-Posts are pre-hinged. On inside mounts without frames, the bottom hinge leaf must be installed.*

Hinge Quantity Per Panel Based on Panel Height	
0-28"	2
To 50"	3
To 72"	4
To 94"	5
To 120"	6

ECLIPSE®
SHUTTERS

N2

Panels won't stay closed!

Check panel lock.

Check to ensure that the panel lock plunger is seated properly in the panel lock ramp. Typical situations that could prevent this from seating properly are:

1. The panel lock plunger is too far inside the panel. Open the panel to access the panel lock plunger located at either end of the panel. Using a #2 square drive screwdriver, push in on the plunger, then rotate 1/2 turn. Release the plunger, close panel and check closure. Repeat until panel closes properly.

2. The plunger does not sit in the "dip" in the ramp. Using a pencil, mark the center of the plunger on the frame. Open the panel to access the ramp. Remove screws and relocate ramp by aligning the center of the ramp with the mark on the frame. The back of the ramp will sit against the light block portion of the frame. Note: Previous screw holes may need to be capped or filled with Dap.

3. Check plunger and jamb cap alignment. The plunger is designed to lock into grooves on the jamb cap to prevent unwanted rotation. If they are not aligned, the plunger will sit inside the cap. To adjust, open the panel to access the panel lock plunger. Using a #2 square drive screwdriver, rotate the plunger until the plunger and cap are in proper alignment. The plunger should now extend beyond the panel and make contact with the ramp.

Check the number of magnets. (if applicable)

To maximize the closure of the panels, two magnets should be placed on each panel. There are situations that only one magnet is used – Patio Doors or Café Style applications. Refer to the magnet installation Section M in the manual for proper placement of magnets. A Bi-fold also uses two magnets per panel. Always ensure that the magnet plates are positioned on the horizontal rail opposite the hinge side.

Check magnet contact. (if applicable)

Check to ensure the magnet and magnet plate have full contact with each other. Typical situations that could prevent the full contact from occurring are:

1. Magnet and magnet plate are installed with only partial contact with each other. The magnet or magnet plate may have to be moved left or right to ensure better contact or the magnet plate may have to be raised on the panel if only half of the magnet is in contact with the magnet plate.

2. Magnet has been installed on a slight angle with only one side of the magnet touching the magnet plate. Each magnet has a slot to allow each magnet side to be moved slightly forward or backwards. Loosen one of the screws on the magnet to allow the magnet to be straightened to allow for proper contact with magnet plate.

3. Magnet plate has been installed too high on the panel causing the magnet to contact the magnet plate installation screw. Take out magnet plate screws and install the plate lower on the panel. It is important to remove the excess Polyresin3® around the screw holes with an Xacto knife. If excess Polyresin3® is not removed, it will not allow the plate to be installed flat on the panel.

4. Magnet plate is not flush with panel which is preventing full contact. See above for situations where the magnet plate has already been moved. For installations without frame, if the magnet plate with the rubber shim has been over tightened, the plate may sit on an angle. Loosen the magnet plate screw slightly to allow the magnet plate to eliminate the angle.

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SHUTTERS

Panels won't stay closed!

Check panel load.

Load is created when the installation of a panel is not plumb. If installed out of plumb, there is pressure put on the vertical jamb, which forces the door to open with a spring back effect. If the load is excessive, there is a possibility the louvers will be difficult to close. Adjusting the load can be resolved by one of the following ways:

1. If load is detected with no frame, then shims will be required to plumb the panel installation. Start by focusing on the top and bottom hinge only. Remove all other hinge pins. Shim the top or the bottom hinge on the window jamb until the panel closes without springing back and the louvers operate without resistance. Then concentrate on shimming one hinge at a time testing for spring back and louver operation.

2. If load is detected with frame applications, then adjustments are done by tightening or loosening the installation screws on the frame. Do not use shims. Start by removing all the installation screws except for the top. Re-install the bottom installation screw until there is no load. Continue with all other installation screws, one at a time, while checking for load.

3. If there is load on a Bi-fold panel, deal with the first hinge panel only, then attach the Bi-fold panel after the panel is installed properly.

Check for obstructions.

If something is stopping the panel from closing, it is called an obstruction. Please check for the following possible obstructions:

1. Window cranks are usually located on the bottom sill. If panel is hitting the crank, there are a number of possible solutions. Take the crank off the rotator and see if the panel is still obstructed. A small hole in the bottom rail may be cut out so that the small head of the crank will fit inside the panel rail. For panels without frame, an extension hinge may be used to bring the panel into the room an extra 5/8". For panels with frame, a build out may be required behind the frame.

2. Window locks are usually located on the vertical sides of the window to lock the window. If the lock is in the way of the panel, extend the panel into the room as discussed in the above situation.

3. Patio door handles typically create obstruction with louvers opening. If they stop the panels from closing, the product needs to be built out.

4. Bowed jambs or sills may stop a panel from closing, if the narrowest measurement was not taken in the first place. Double check inside measurements versus the measurements ordered and received to ensure the proper application.

Check for a twisted panel.

There are times when the panel is received twisted. This can occur when something was leaned against or put on top of the panel prior to installation. It can also occur if panels have been stored in an extremely hot location. An advantage of Polyresin3® is that it allows a simple tweaking procedure to put the panel back to its original state. To tweak a panel, place a support hand in the middle of the outside jamb of the panel. Take your other hand and place it on either the top or bottom of the panel. Apply pressure to either the top or bottom (like bending it back into position) until the panel stays closed.

Panels are too tight!

Ensure the panel width is correct.

If a panel is made or ordered too wide then it can be cut down to fit. To determine a manufacturing or ordering error, check the measurement of the panel versus the measurement on the label. If the label measurements are correct then measure the inside width of the opening in three locations to verify minimum opening width was ordered.

Ensure the frame width is correct.

If the frame is manufactured too small, the panels will be too tight. To find out if the frames are narrow, measure the back installation part of the frame. To determine if the deduction was correct, check with the fabrication site for specific deductions.

Ensure the frame is installed properly.

When a frame is installed as an inside mount, the installation screws initially draw the shutter frame into the opening. As the screwhead makes contact inside the frame, it will then begin to draw the shutter frame towards the window frame . To check if the installation screw has been drilled in enough, simply measure the top or bottom width and compare it to the width where the panel looks to be too wide. If the frames are not assembled correctly, they may cause the inside opening of the frame to seem too narrow hence making the panels too tight.

Is panel installed in the correct opening?

When a number of windows are of similar width, panels can be placed into the wrong opening or with the incorrect panel grouping. Check the labels to ensure they correspond with the opening, as well as the instructions given by the Order Form.

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SHUTTERS

Louvers are too tight!

Check louver widths.

There should be some play between louvers and vertical jambs. Move the louvers side to side. If there are some louvers that appear to be tighter, measure a variety of louvers to ensure they are all the same width. If not, then it is a manufacturing error that requires the louvers to be replaced or cut down.

Check rail widths.

Measure all horizontals rails including any divider rails to ensure that all are exactly the same width.

Have rails been over tightened?

If there is less play near any rail and the louver widths have been checked for deficiencies, then there is a possibility the screws that attach the vertical jambs to the rails have been over tightened. To loosen the screws, remove a jamb cap and slide the light block out. This will expose the assembly holes. Use a # 8 Robertson drill bit to release the tightness.

Check for panel load.

Load is created when the installation of a panel is not plumb. If installed out of plumb, there is pressure put on the vertical jamb, which forces the door to open with a spring back effect. If the load is excessive, there will be a possibility that the louvers will be difficult to close. Adjusting the load can be resolved by one of the following ways:

1. If load is detected with no frame, shims will be required to plumb the panel installation. Start by focusing on the top and bottom hinge only. Remove all other hinge pins. Shim the top or the bottom hinge on the window jamb until the panel closes without springing back and the louvers operate without resistance. Then concentrate on shimming the remaining hinges while testing for spring back and louver operation.

2. If load is detected with frame applications, the adjustments are done by tightening or loosening the installation screws on the frame. Do not use shims. Start by removing all the installation screws except for the top. Re-install the bottom installation screw until there is no load. Continue with all other installation screws, one at a time, while checking for load.

3. If there is load on a Bi-fold panel, deal with the first hinge panel only, then attach the Bi-fold panel after the panel is installed properly.

ECLIPSE® SHUTTERS N6

Louvers are warped!

Check oversize specifications.

Eclipse® will make products over its maximum size specifications with a void warranty authorization. If a single panel is over 36" wide, there is no warranty on warping or sagging.

Check tolerances.

Although a product is made within specifications, the process of fabrication can result in a slight variance of tolerances.

1. Through the fabrication process, the holes in the vertical jamb have a tolerance of 1/100 of an inch. While this may not seem to be much, it may cause slight variations in light penetration when the louvers are closed, as the louvers would overlap slightly in different locations.

2. The product is manufactured as a window covering that offers light control. While the product is extruded with reinforcement and additional louver support is provided at specified widths, the product will not overcome the natural effects of gravity and heat. Gravity will have a slight effect the wider the panel. Temperature change will naturally expand and contract Polyresin3®. The product should never have a variation on the level of more than 1/16"

3. While shutters are designed to be room darkening, they are not designed to be blackout.

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SHUTTERS

Louvers need more tension!

Check for tension rods.
Tension rods are only used to provide tension when product is manufactured with tilt bars and rear tilt. Tension rods are used to provide stability in ensuring that the louvers stay open when positioned horizontally. A slight fluctuation in position is normal. To ensure that tension rods were initially installed at assembly, remove one of the jamb caps opposite the hinge and look inside to see if a three-sided piece of Polyresin3® is inserted into the vertical jamb.

- Proper tension can only be determined after panel has been fully assembled.
- Place vertical cap in position after tension has been adjusted.
- The tension on the louvers is decreased by inserting a shorter length of tension rod, and increased by inserting a longer length of tension rod.
- In a panel with a divider rail, tension adjustments must be done on both sides of the divider rail.
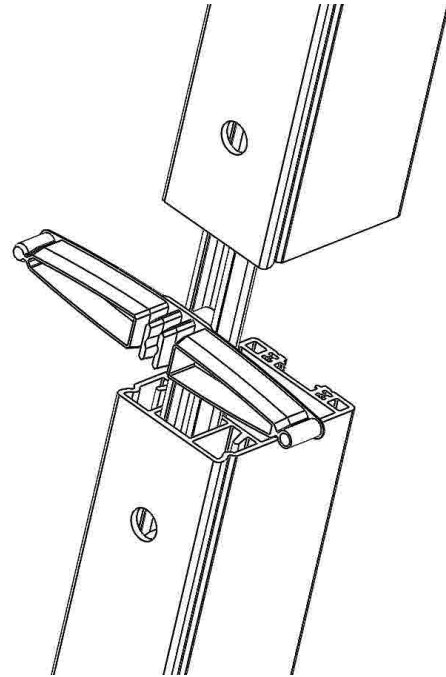
Approximate Height of Shutter	Number of Louver Caps with Tension	Number and Length of Tension Rod*		
		2 1/2" Louver	3 1/2" Louver	4 1/2" Louver
16" to 30"	two to three louvers	(1) piece 5" long in the center	(1) piece 7" long in center	(1) piece 9" long in center
30" to 60"	four to six louvers	(2) pieces 5" long one on each side	(2) pieces 7" long one on each side	(2) pieces 9" long one on each side

Note: *If panels are over 66" in height, add a divider rail and assume one height above and one height below divider rail. If louvers are loose, you can adjust the tension by adding a tension bar. Add it to the jamb opposite the hinges.*

* Tension rod lengths are subject to change.

Panels are sagging!

Check oversize specifications.
Eclipse® will make products over its maximum size specifications. When a product is manufactured oversize, the warranty is void regarding sagging of the product. The two specified overrides would be as follows:

> **Note:** The maximum panel width is 36″ wide. Anything over that width is void of sagging warranty.

Check divider rail requirements.
Eclipse® will make products up to 66″ high without the need of divider rail support. If the panel is over 66″ high, one divider rail is required and if the panel is over 96″ high a second divider rail is necessary. If two divider rails are required, there cannot be over 66″ between them. There cannot be 66″ between any divider rail and head/bottom rail.

Check for jamb reinforcement.
Panel jambs are reinforced with either a 6″ or 26″ support. Panels over 20″ wide require 6″ supports and panel over 60″ in length will require 26″ supports. Check hinge side only. Lack of support requires repair.

Check the plumb of the installation.
If the vertical jambs are not plumb, the panels can appear to be sagging.

1. Measure the top width and the bottom width to see if there is any variation. If the variation is wider at the bottom, the distance has to be made the same as the top.
2. If the top and bottom widths are the same, check the diagonal. If uneven, an adjustment to the plumb is required to assist in leveling the panel.

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SHUTTERS

Louvers are not working properly!

Check for panel load.

Load is created when the installation of a panel is not plumb. If installed out of plumb, there is pressure put on the vertical jamb, which forces the door to open with a spring back effect. If the load is excessive, there will also be a possibility of the louvers being difficult to close. This may cause the Clearview joiners to become damaged or breaking apart. Adjusting the load can be resolved by one of the following ways:

1. If load is detected with no frame, shims will be required to plumb the panel installation. Start by focusing on the top and bottom hinge only. Remove all other hinge pins. Shim the top or the bottom hinge on the window jamb until the panel closes without springing back and the louvers operate without resistance. Then concentrate on shimming any remaining hinges, while testing for spring back and louver operation.

2. If load is detected with frame applications, the adjustments are done by tightening or loosening the installation screws on the frame. Do not use shims. Start by removing all the installation screws except for the top. Re-install the bottom installation screw until there is no load. Continue with all other installation screws, one at a time, and checking for load.

3. If there is load on a Bi-fold panel, deal with the first hinged panel only, then attach the Bi-fold panel after the panel is installed properly.

Check connectors.

Connectors attach the louvers to a single operator.

1. Clearview joiners attach to the louvers at the back of the panel. Ensure that the joiners are securely attached and not bent. If the joiners easily separate, they could be defective, hence replace with new joiners.

2. If the louvers tilt properly, yet cannot close tight because it springs back open slightly, then the joiners are defective. To correct, simply remove one of the Clearview joiners.

3. Tilt bar connectors are attached to each louver and a tilt bar. If the tilt bar connector is detached from the louver, simply snap the connectors back into the louvers. Typical damage to tilt bar connectors is a result of opening the panels by the tilt bar.

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SHUTTERS

Louvers are not working properly!

Replacing Damaged Tilt Bar Connectors

1. Remove tilt bar cap. It may be tight, so use a sharp object (e.g., screwdriver).
2. Slide tilt bar off connectors.
3. Remove broken connector(s).
4. Replace connector in slat groove by holding the louver and snapping the new connector into the T-shaped notch in the louver. Note: replace connectors with similar length piece.
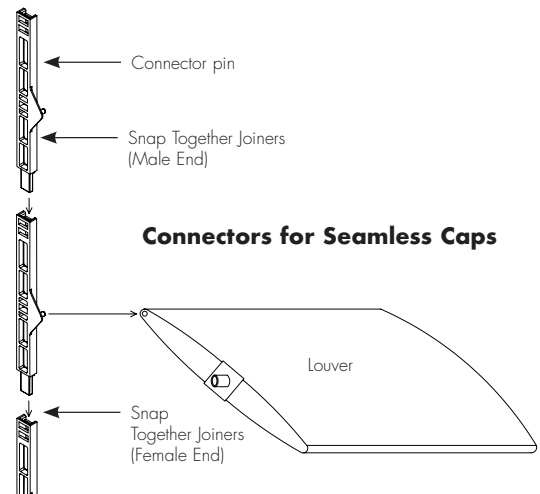5. Slide tilt bar over connectors and replace cap. (New cap may be required).

Note: *It is possible to re-insert the tilt bar connectors without damage. Simply hold the louver, place the connector in the notch and press firmly. It is not necessary to remove the tilt bar.*

Louver

Connector

Tilt Bar

Tilt Bar Cap
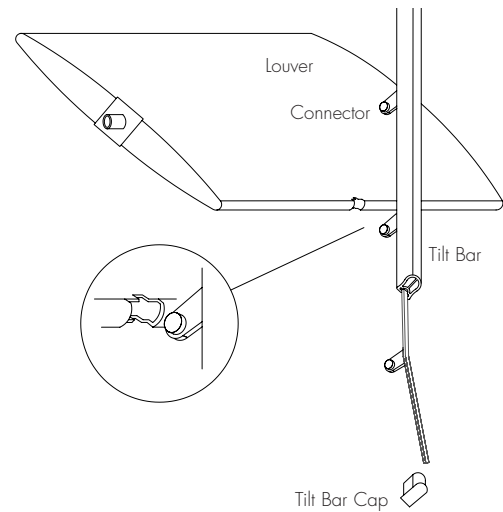
Repairing Clearview Connector

1. Remove broken joiners.
2. Snap joiner pin into louver.
3. Snap top and bottom of replacement joiner into joiner above and below the replacement joiner.
4. These joiners are made to stay together. If joiners do not come apart, then replace all joiners in that section.

Note: *The top and bottom joiners in a panel are shorter. Replace these joiners with the same type joiners.*

Connector pin

Snap Together Joiners (Male End)

Connectors for Seamless Caps

Louver

Snap Together Joiners (Female End)

Louvers are not working properly!

Replacing New Tilt Bar Connectors

1. Remove tilt bar completely.
2. Using a pair of pliers, grab hold of the damaged connector.
3. Bend and/or twist the connector until it is removed from the tilt bar.
4. Set a new connector in the vacant hole.
5. Using the pliers, hold the connector as close to the base as possible.
6. Using a mallet, strike the pliers near the connector to fully seat it in the tilt bar
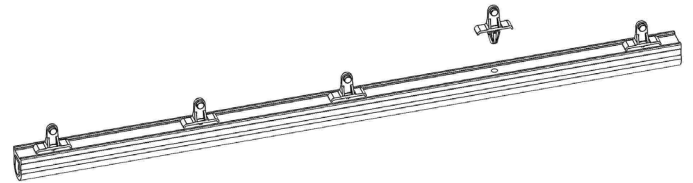
Note: *This process can be difficult, so please use caution to prevent damage and/or injury.*

Repairing Rear Tilt Connectors

1. Remove broken Rear Tilt connector.
2. Snap a new connector into the louver.
3. Rotate the connector so the open "U" shape end is straddling the Rear Tilt bar.
4. Press on the connector and move the connector up or down until the snap feature aligns with the hole in the bar and firmly sets.
5. If the pin of a connector shears off, use a small pointed object (ie: pencil or new connector) to push the broken pin into the end cap. Replace with the new connector.

ECLIPSE®
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