



STERLING

DOORS AND WINDOWS

Interior Door (OI-30)

Technical Specifications & Installation Guide

Contents

Specification Overview	3
Options	4
Interior Door Limitations	8
Master Configurations	9
Technical Drawings	11
Handle Styles	26
Popular Configurations	32
Interior Door Styles	33
OI-30 Installation Guide	34
Accreditations	38



STERLING
DOORS AND WINDOWS

Specification Overview

Profile Specification

Frame Depth	1 9/16"
Frame Width	1 3/16"
Sash Depth	1 1/4"
Width	1 3/16"
Glass Divide Depth	1 3/16"
Glass Divide Width	1 3/8"
Threshold clearance	3/8" / 3/4"
Corner Post	17/8" x 17/8"

Features

- ▶ Up to a 20-year guarantee
- ▶ Corner configuration available
- ▶ 1 3/8" glazing divides
- ▶ Square or chamfered bead option
- ▶ Coupling available

Options and extras

- Flexible design options – can be a combination of Single Door, French Door, Fixed Screen or corner configuration
- Accommodates 3/16" and 1/4" glazing
- Purpose-designed corner post
- Up to six horizontal and two vertical splits
- Lock block available with or without locking
- Turn and release lock
- Kickplate or panels available
- Five handle options to choose from
- Hinge colors: Black, Polished Brass, Satin Brass and Satin Steel
- Half rose door stop colors: Antique Brass, Matte Black, Matt Bronze, Satin Brass and Satin Nickel
- 9/16" frame extender
- Square or chamfered bead
- Threshold clearance of 3/8" or 3/4"



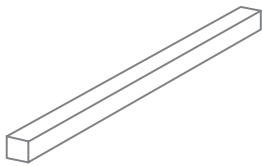
STERLING
DOORS AND WINDOWS

Options

Bead

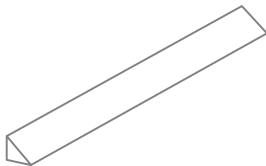
The OI-30 can be specified with either a square bead or chamfered bead. The two options offer a different aesthetic and by combining the number of glazing divides with the choice of bead, one can significantly alter the style of the door.

Pairing less glazing divides with the square bead shifts the look of the doors to a more modern and contemporary style. The sharper edges of the square bead also tailor well to an industrial look.



Square Bead

The chamfered bead emulates a traditional putty line and when paired with more glazing divides, lends itself to a more traditional or Art Deco door style.



Chamfered Bead - ideal for simulating a traditional putty line

Frame Extender

A 9/16" frame extender is available as a last resort for use on the sides of an aperture to assist in resolving fitting issues if required.

Threshold Clearance

The default threshold clearance is 3/8" which is ideal for an equal finished floor height either side of the door. However, Local Authority Building Control states that if doors are being installed before a finished floor then there should be a minimum of 3/4" underneath any door to allow for a new carpet or boards and still some ventilation underneath the sash. Therefore a threshold clearance of up to 2" can be selected in the instance of a door without fixed frames. If a door is coupled to a fixed frame and the fixed frames are not raised with add-on's underneath, the threshold can be adjusted up to 1 1/16". If a door is coupled to a fixed frame and those frames are raised with add-on's underneath, then a threshold clearance of up to 1 5/8" can be selected.



STERLING
DOORS AND WINDOWS

Handles

Choose from a selection of elegant handle styles that have been designed and manufactured with the same care and dedication as every other door component.

There are four optional handle collections available above the Standard Handle - the Signature Collection, the Contemporary Collection and the Heritage Collection.

Signature Handle

The Signature Handle is a statement piece with its knurled finish. The handle is available in the below colors



Antique Brass



Matte Black



Matte Bronze



Satin Brass



Satin Nickel

Standard Handle

The Standard Handle offers a simple yet striking look



Matte Black

Contemporary Handle

The Contemporary Handle range is available in matte and satin finishes available in the below colors



Antique Brass



Matte Black



Matte Bronze



Satin Brass



Satin Nickel

Heritage Classic Handle

Paying homage to the traditional steel-look door, we have two Art Deco style iron handles available in the below colors



Hammered Pewter



Matte Black

Heritage Edged Handle

With a similar style to the Heritage Classic, this handle has much more squared off features



Hammered Pewter



Matte Black



STERLING
DOORS AND WINDOWS

Turn and Release

Our turn and release locks are available to match our handle suite and are available in Antique Brass, Matte Black, Matte Bronze, Satin Brass and Satin Nickel.

Turn and Release



Antique Brass



Matte Black



Matte Bronze



Satin Brass



Satin Nickel

Door Stops

A convenient feature, these door stops are available in Antique Brass, Matte Black, Matte Bronze, Satin Brass and Satin Nickel.

Half Rose Door Step



Antique Brass



Matte Black



Matte Bronze



Satin Brass



Satin Nickel

Hinges

The OI-30 hinges are available in Black, Polished Brass, Satin Brass and Satin Steel. They also come with a subtle copper accent which accentuates both the door and hinge.

Hinges



Black



Polished Brass



Satin Brass



Satin Steel



STERLING
DOORS AND WINDOWS

Glazing Options

The OI-30 can accommodate 3/16" and 1/4" glazing units and dependent upon your specific needs.

Kickplates and panels

You can specify your doors to come with solid plain black panels which can offer added privacy depending on where the doors are being installed. Alternatively, kickplates are available, which will allow your client to nudge the door open with their foot.

N/B

- When you specify a corner configuration, it comes with a purpose-designed corner post which is made specifically for your door
- Additionally all configurations can be coupled together to make a larger configuration or fit into a larger aperture

Option	French	Single	Fixed	Corner
Dummy Handle (Slave Door)	✓	✗	✗	✓
Fingerbolt (Slave Door)	✓	✗	✗	✓
Fixed Above	✓	✓	✓	✓
Kickplate	✓	✓	✓	✓
Latch (Lead Door)	✓	✓	✗	✓
Panel	✓	✓	✓	✓
Turn and Release (Lead Door)	✓	✓	✗	✓
Vertical Divides	✓	✓	✓	✓

Internal Door Limitations

Min/Max Dimensions	French Door (inches)	Single Door (inches)	Fixed Frame (inches)
Min Sash Width	11 13/16"	11 13/16"	N/A
Max Sash Width	39 3/8"	39 3/8"	N/A
Min Frame Width	25"	13 5/8"	11 13/16"
Max Frame Width	81 1/8"	41 3/16"	78 3/4"
Min Sash Height	59 1/16"	59 1/16"	N/A
Max Sash Height	98 7/16"	98 7/16"	N/A
Min Frame Height	60 3/8"	60 3/8"	11 13/16"
Max Frame Height	120"	120"	120"

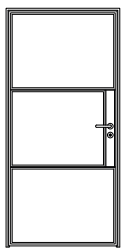
Specification	
Number of Glazing Splits	0-6
Min Panel Height	8"
Max Panel Height	36 1/2"
Fixed Above - minimum height	8"
Fixed Above - number of vertical splits	0-4
Fixed Above - minimum centres	10"
Max Sash Weight	120Kg
Spindle Height Range	32" - 41 3/8"

Limitation: Doors cannot be hinged back to back

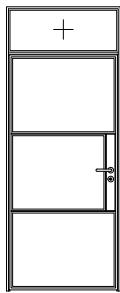
Master Configurations

Master Configuration: OI-30

Master Configuration: Single Door



SINGLE DOOR

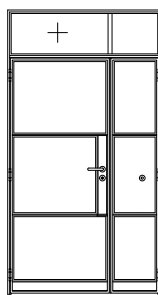
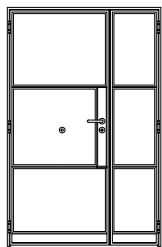


SINGLE DOOR
WITH FIXED ABOVE

Key Features:

- Up to six horizontal splits
- Up to two vertical splits
- Can accommodate kickplate or panel

Master Configuration: Door to Sidelight



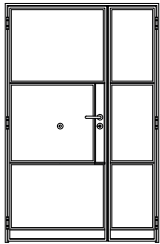
Key Features:

- Up to six horizontal splits
- Up to two vertical splits
- Can accommodate kickplate or panel

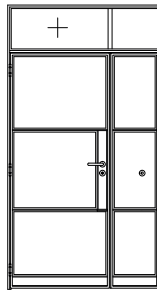


STERLING
DOORS AND WINDOWS

Master Configuration: French Door



FRENCH DOOR

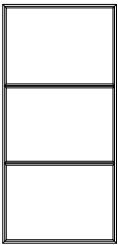


FRENCH DOOR
WITH FIXED ABOVE

Key Features:

- Up to six horizontal splits
- Up to two vertical splits
- Can accommodate kickplate or panel
- Secondary door can be specified with a lock block and dummy handle

Master Configuration: Fixed Frame



FIXED FRAME



FIXED FRAME
WITH FIXED ABOVE

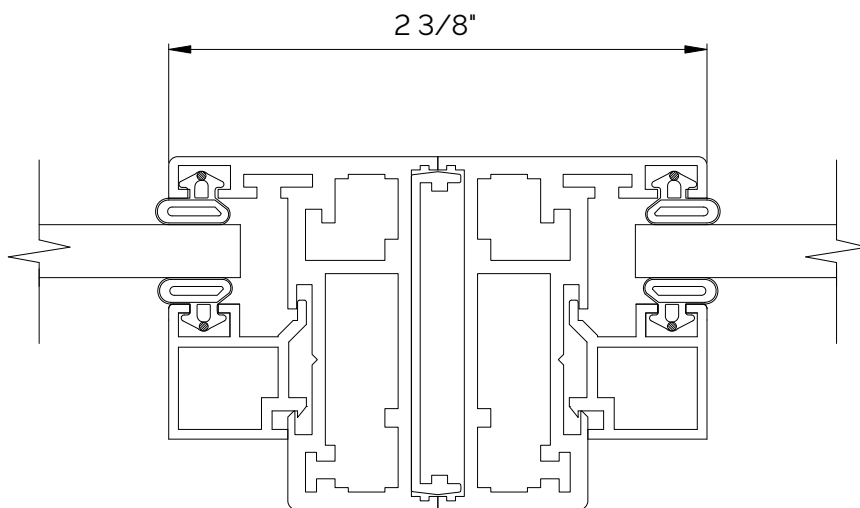
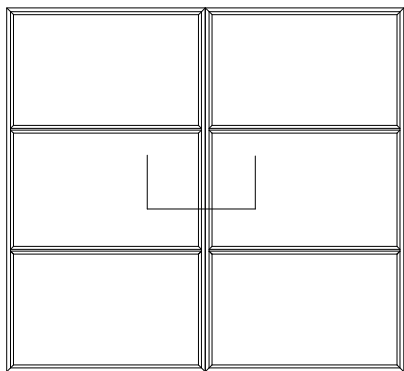
Key Features:

- Up to six horizontal splits
- Up to two vertical splits
- Can accommodate kickplate or panel
- Can be coupled to a Fixed Screen



Technical Drawings

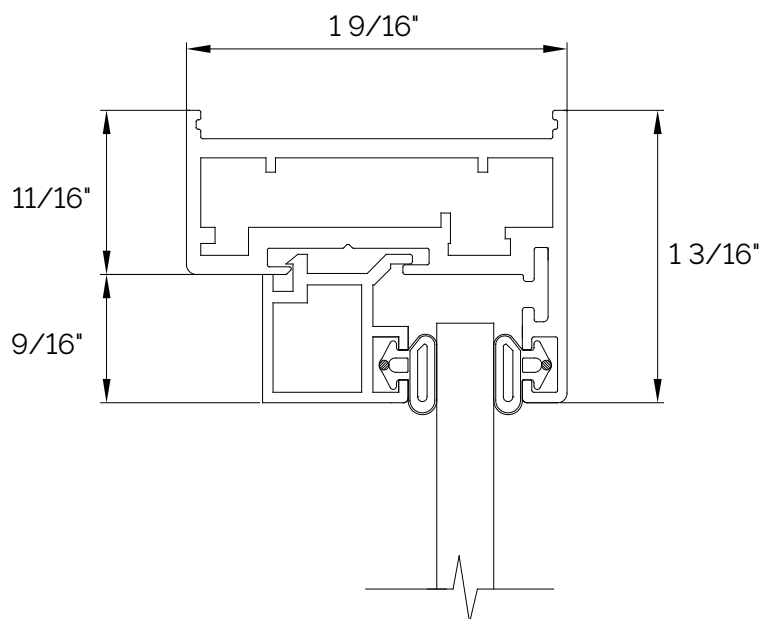
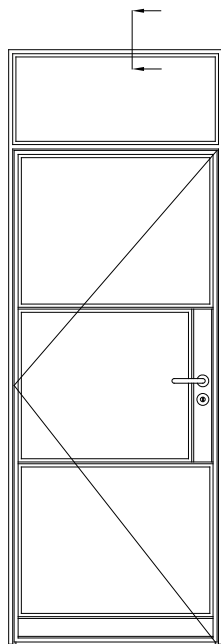
Concealed Coupler



STERLING
DOORS AND WINDOWS

Technical Drawings

Single Door - Fixed Light Above Head

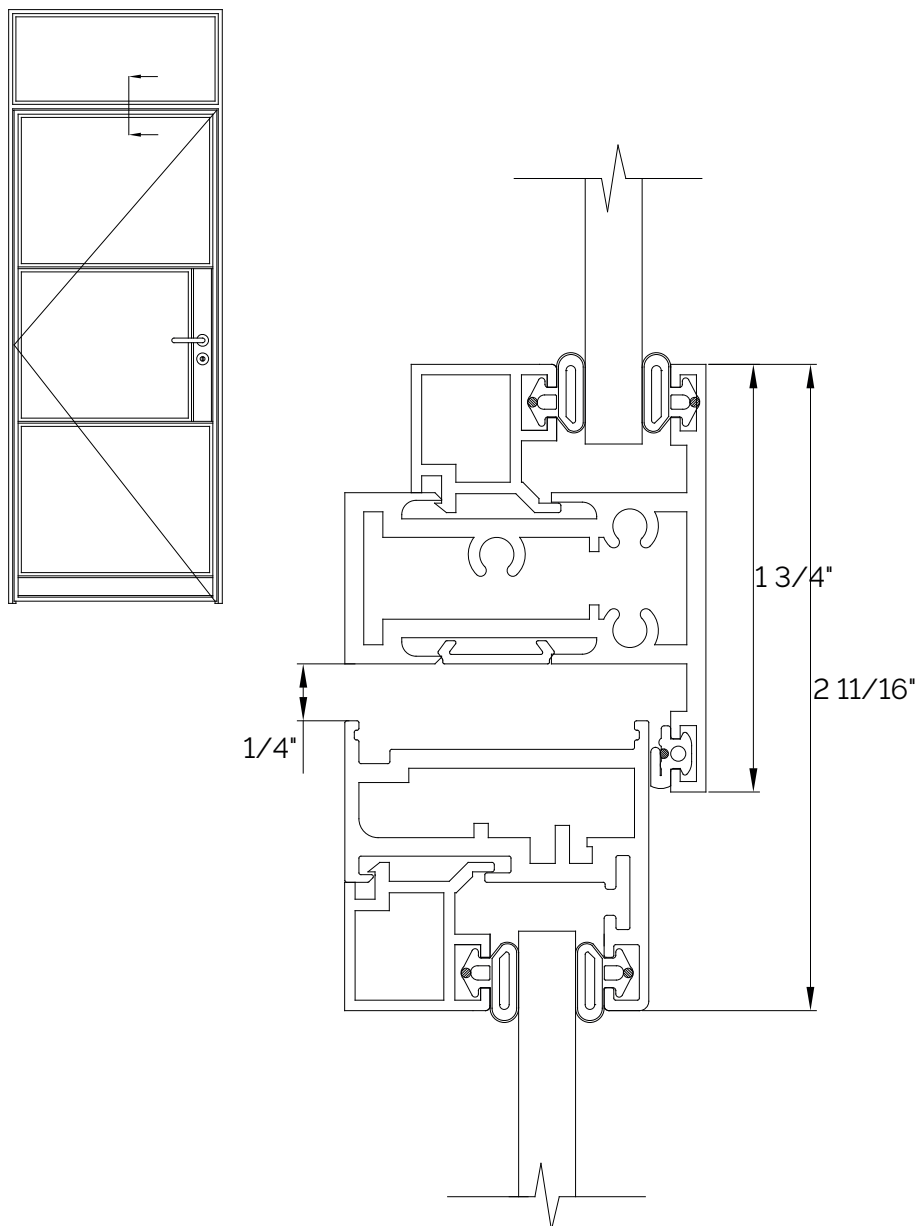


STERLING
DOORS AND WINDOWS

01-30

Technical Drawings

Single Door - Fixed Light Above

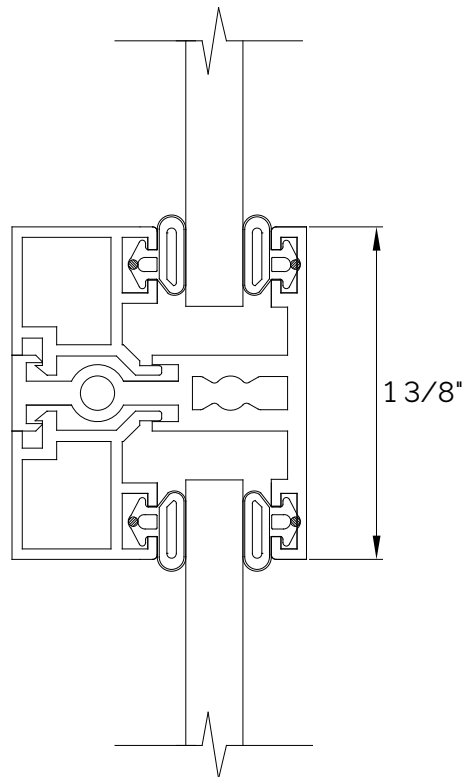
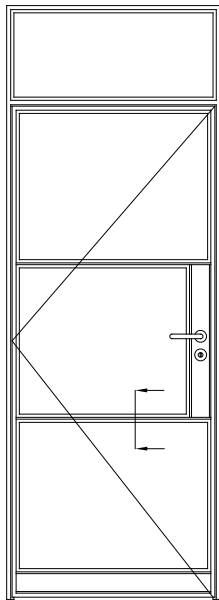


STERLING
DOORS AND WINDOWS

Ol-30

Technical Drawings

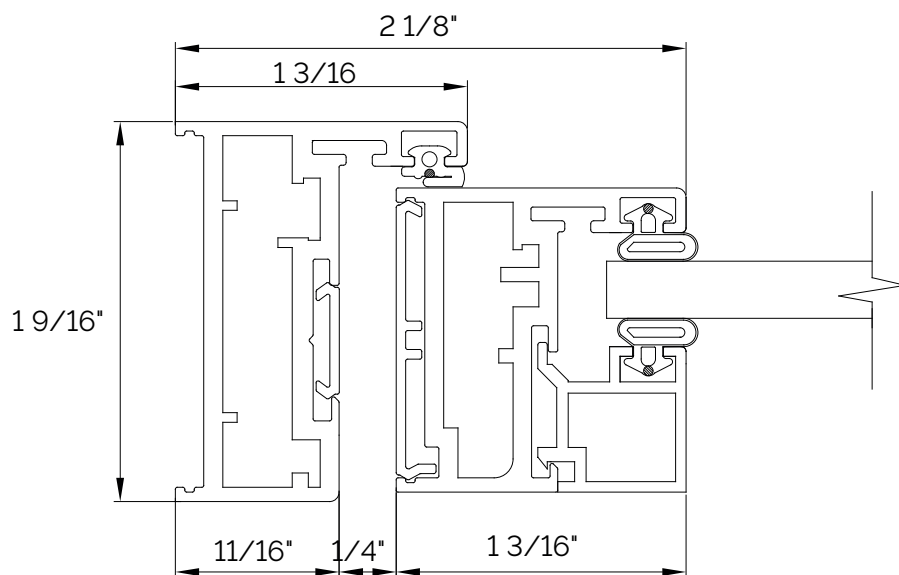
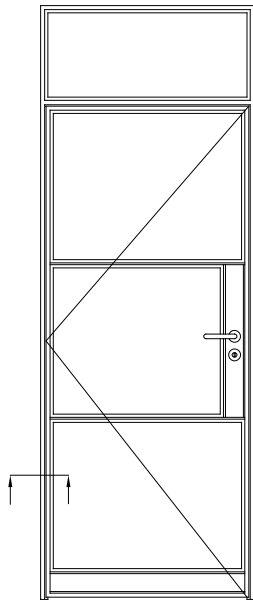
Single Door - Horizontal Glass Divide



STERLING
DOORS AND WINDOWS

Technical Drawings

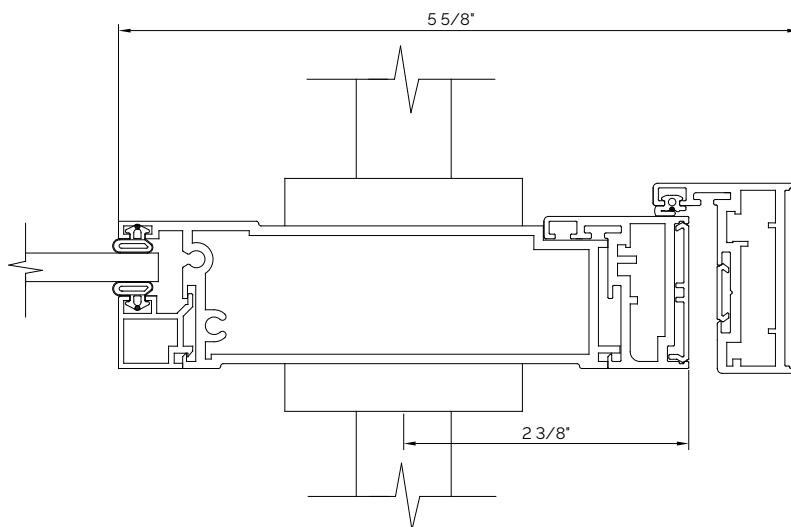
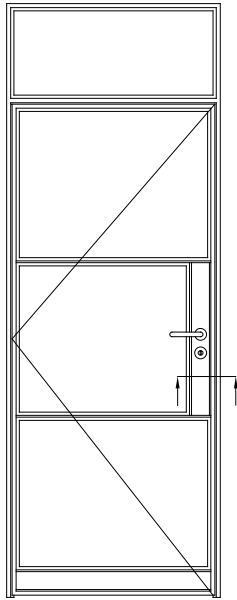
Single Door - Jamb



STERLING
DOORS AND WINDOWS

Technical Drawings

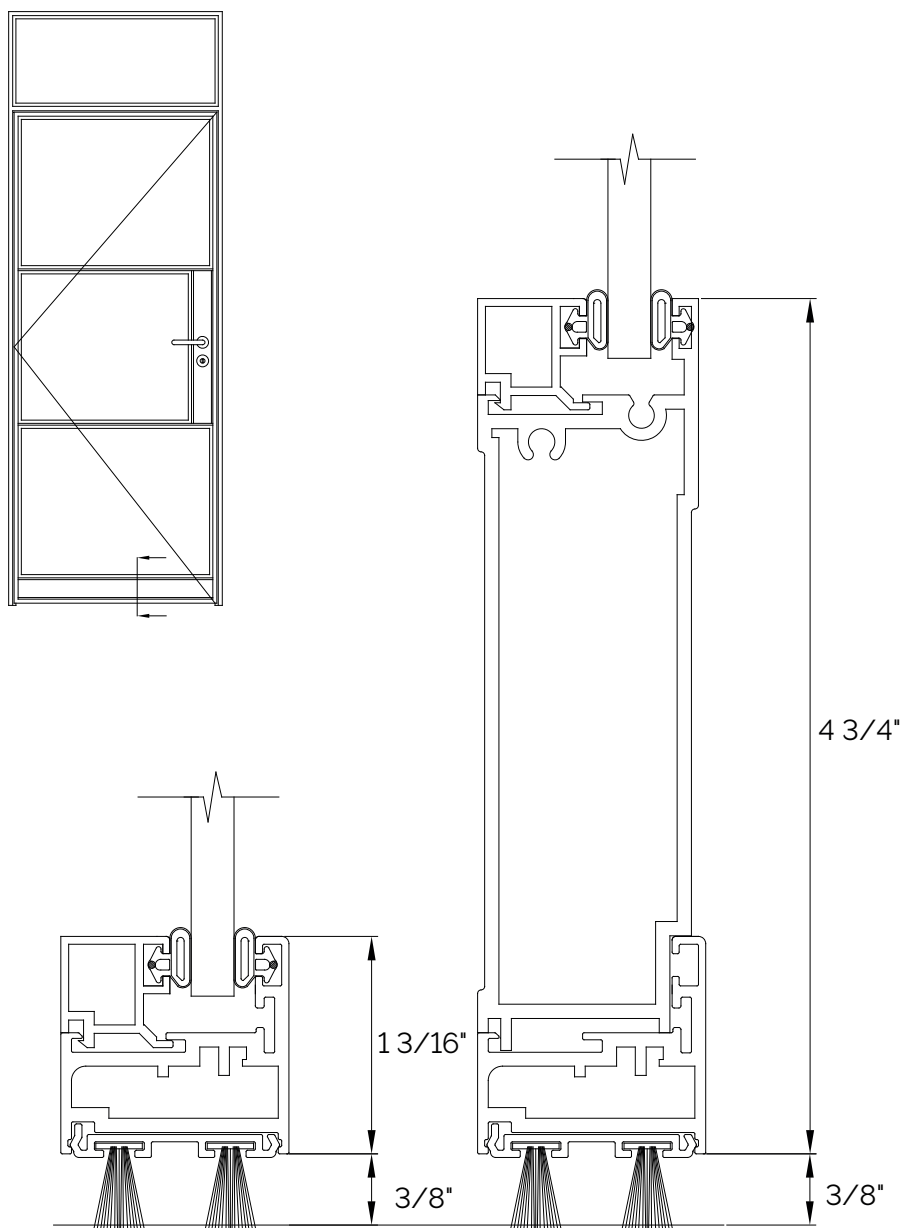
Single Door - Lockblock



STERLING
DOORS AND WINDOWS

Technical Drawings

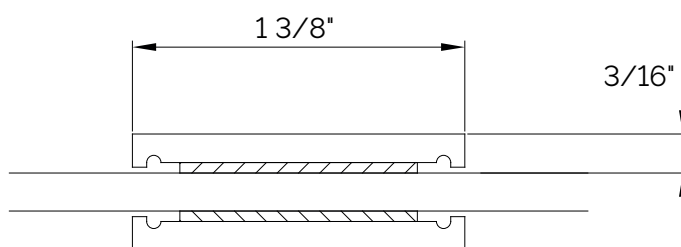
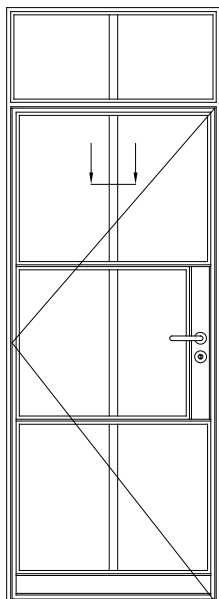
Single Door - Threshold*



*A 20mm threshold clearance is available as an option

Technical Drawings

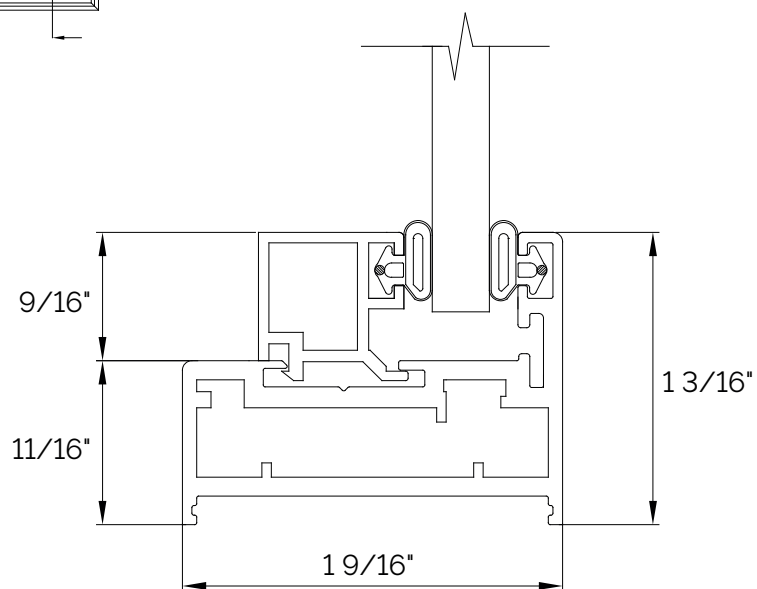
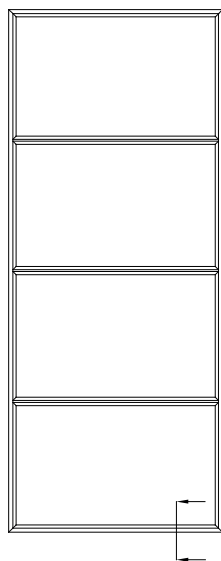
Single Door - Vertical Divide



STERLING
DOORS AND WINDOWS

Technical Drawings

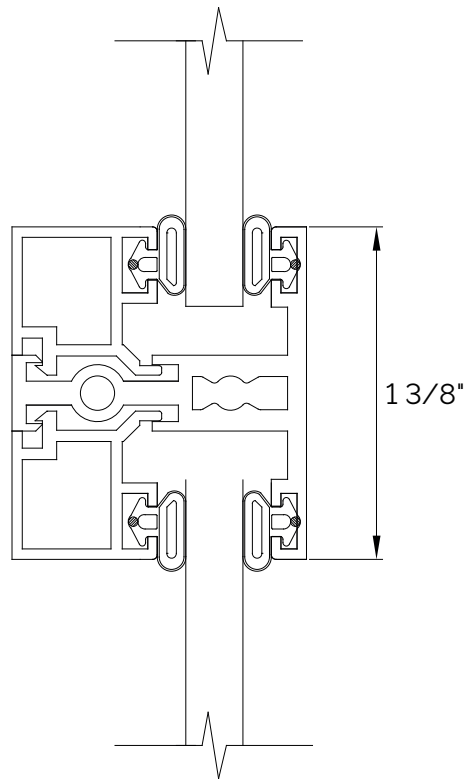
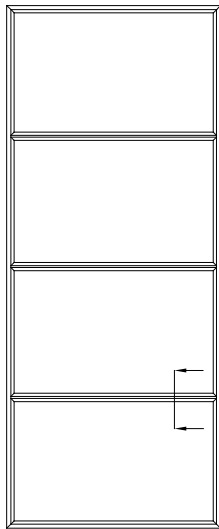
Fixed Screen - Frame



STERLING
DOORS AND WINDOWS

Technical Drawings

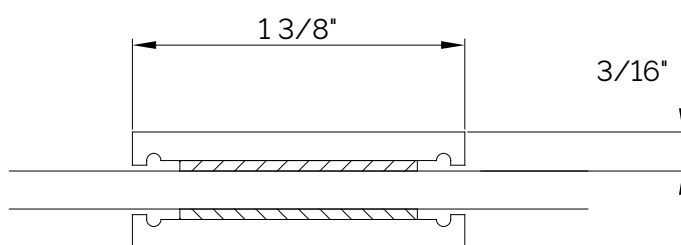
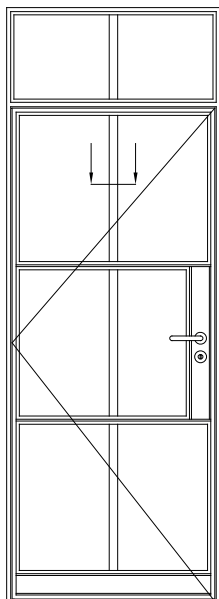
Fixed Screen - Horizontal Glass Divide



STERLING
DOORS AND WINDOWS

Technical Drawings

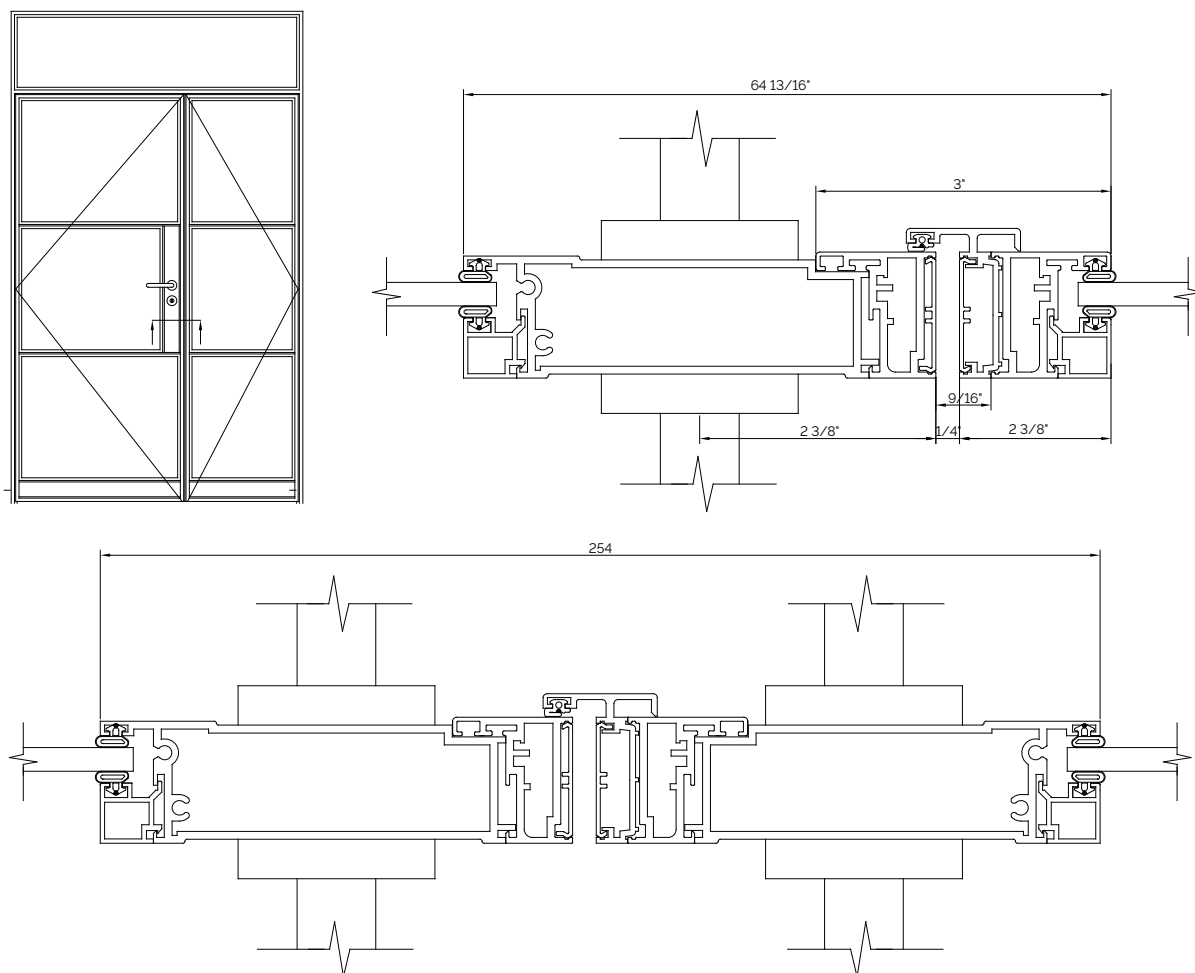
Fixed Screen - Vertical Glass Divide



STERLING
DOORS AND WINDOWS

Technical Drawings

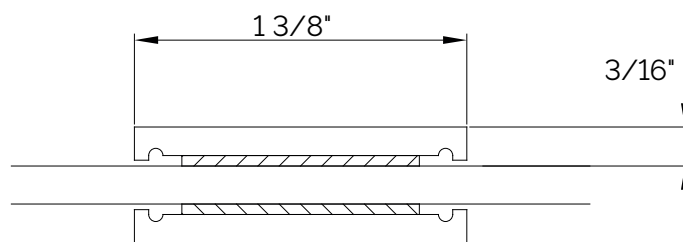
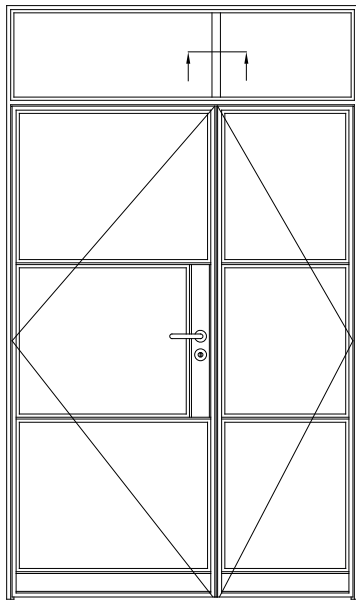
French Door - Meeting Stiles



STERLING
DOORS AND WINDOWS

Technical Drawings

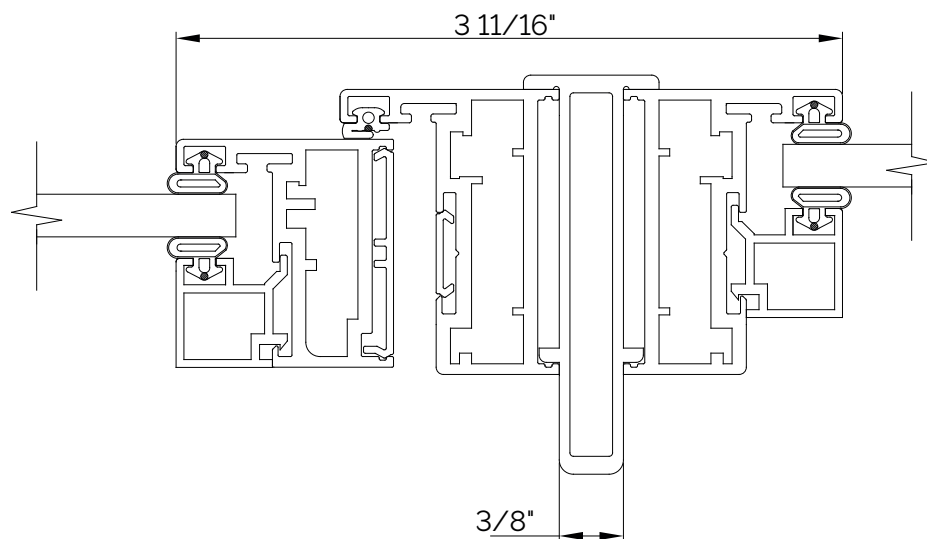
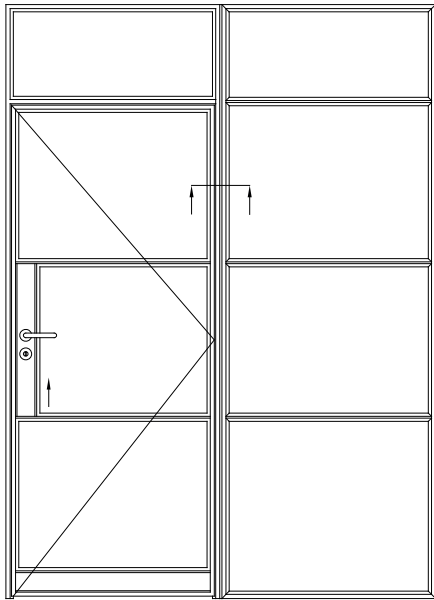
French Door - Vertical Glass Divide



STERLING
DOORS AND WINDOWS

Technical Drawings

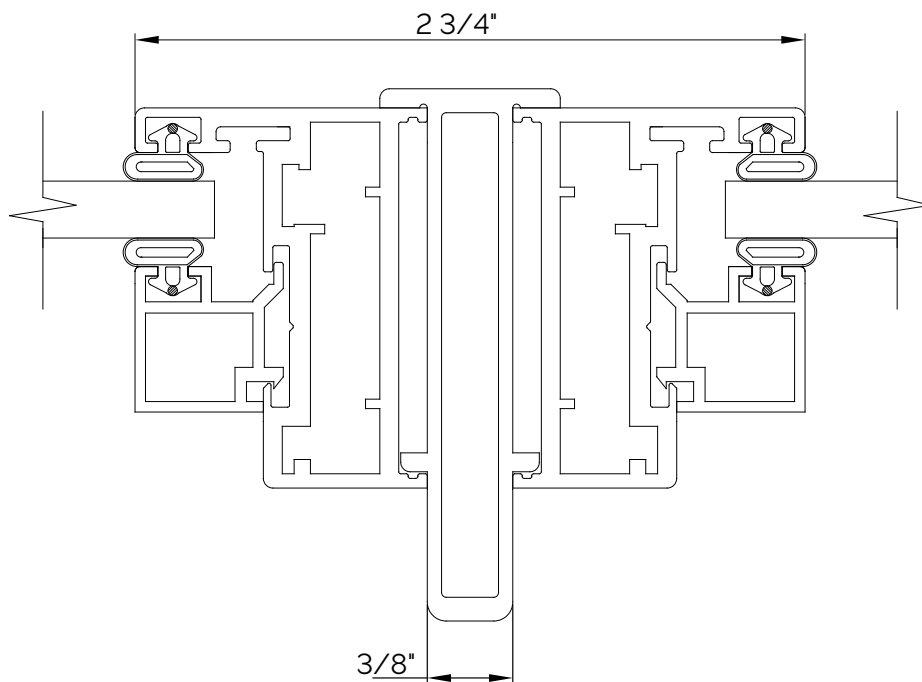
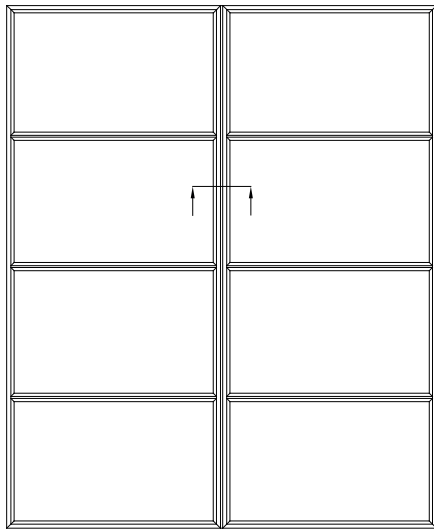
T-Coupler - Fixed Screen to Sash



STERLING
DOORS AND WINDOWS

Technical Drawings

T-Coupler - Frame to Frame

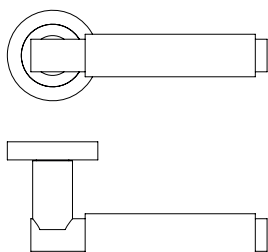


STERLING
DOORS AND WINDOWS

Handle Styles

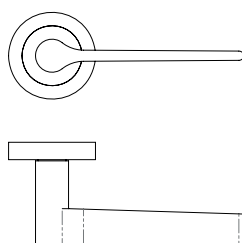
Configuration Key

Signature Knurled Handle



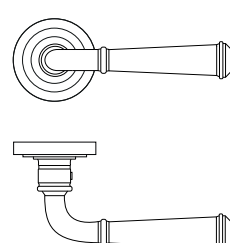
See page 27

Contemporary Handle



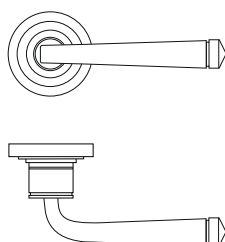
See page 28

Heritage Classic Handle



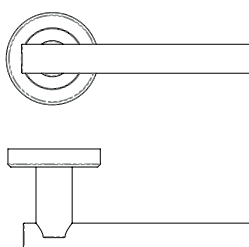
See page 29

Heritage Edged Handle



See page 30

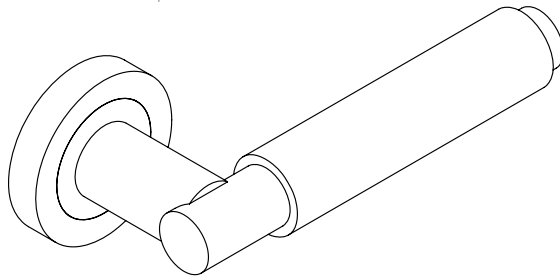
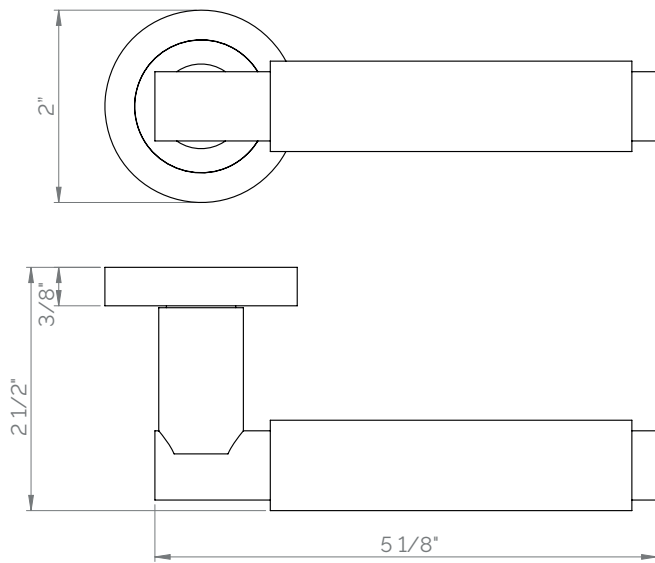
Standard Handle



See page 31

Handle Styles

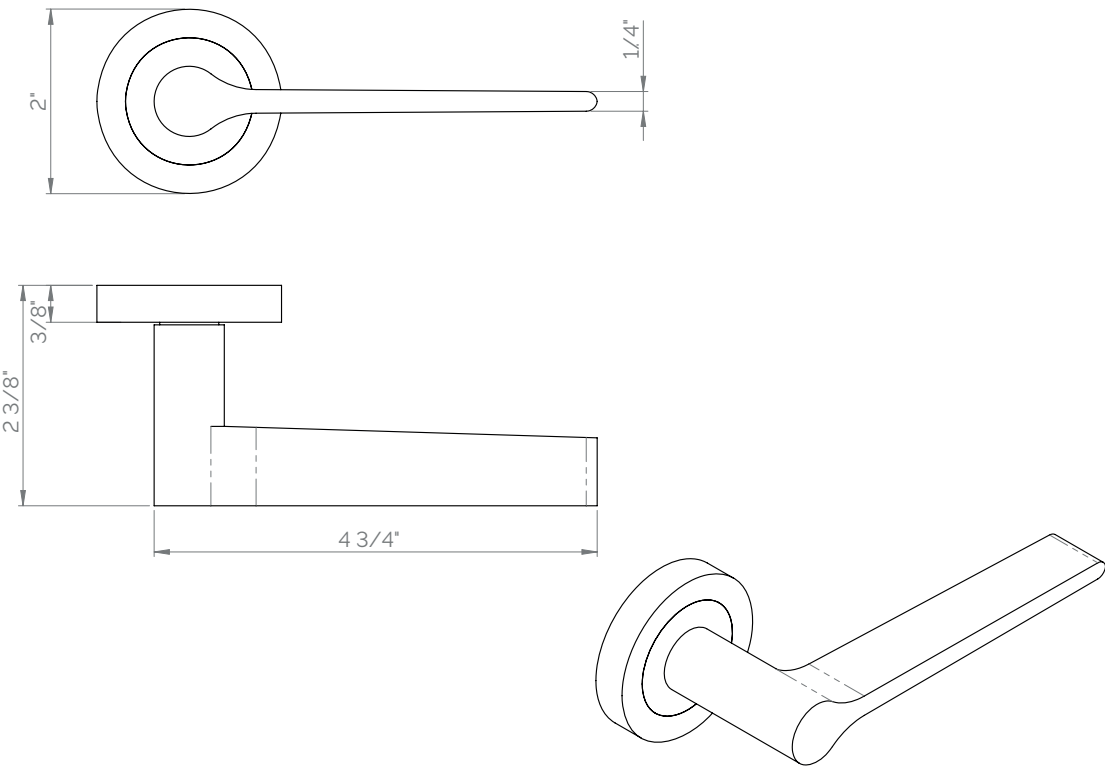
Signature Knurled Handle



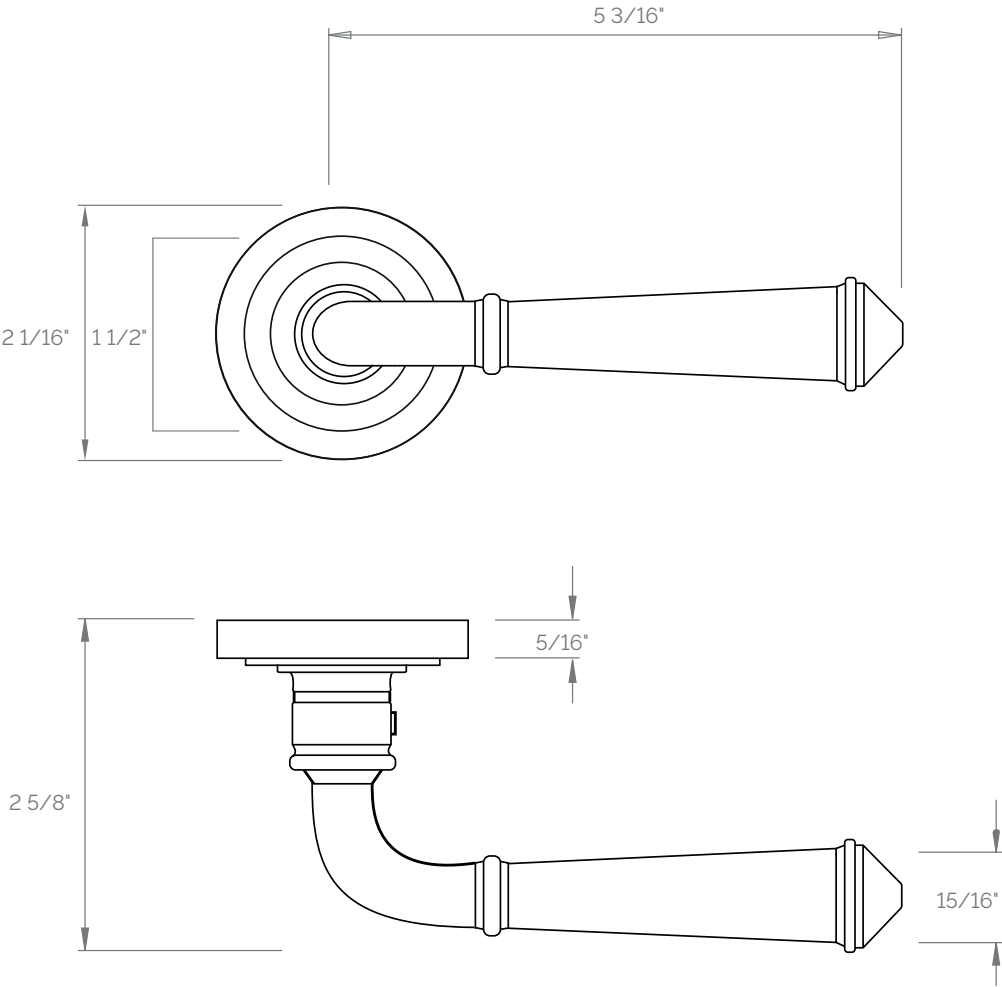
STERLING
DOORS AND WINDOWS

Handle Styles

Contemporary Handle

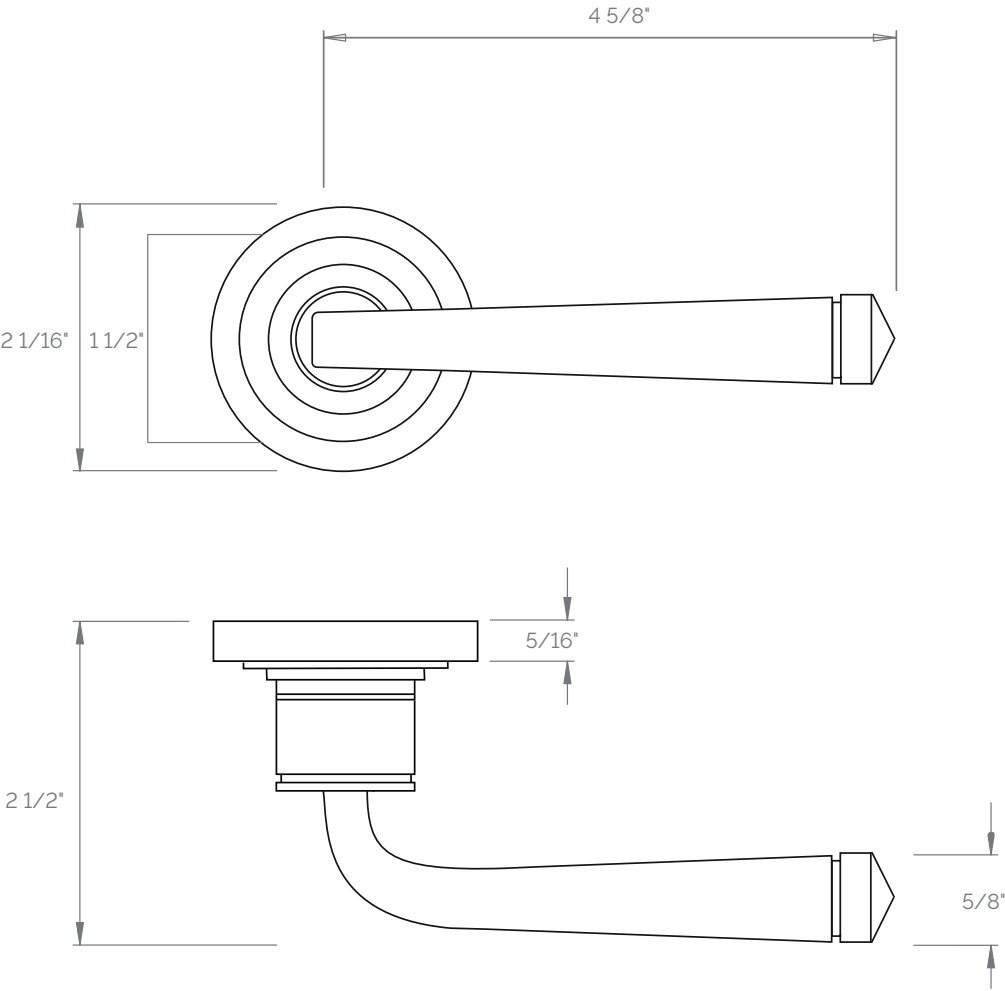


Heritage Classic Handle



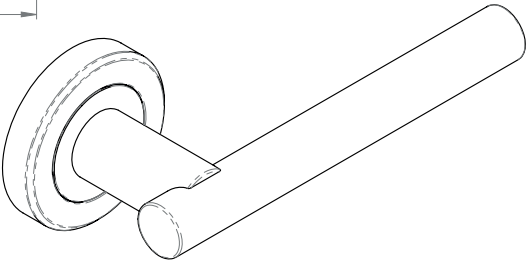
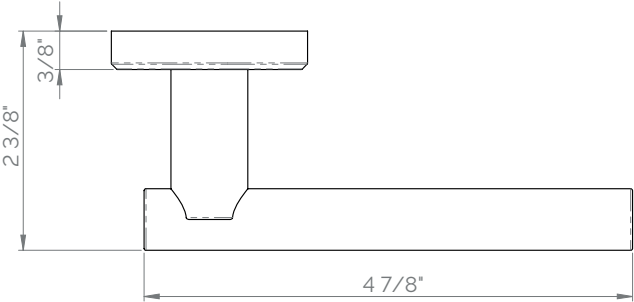
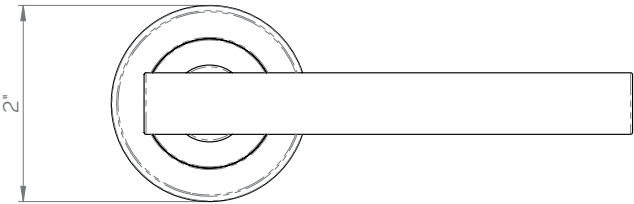
Handle Styles

Heritage Edged Handle



Handle Styles

Standard Handle



Popular Configurations

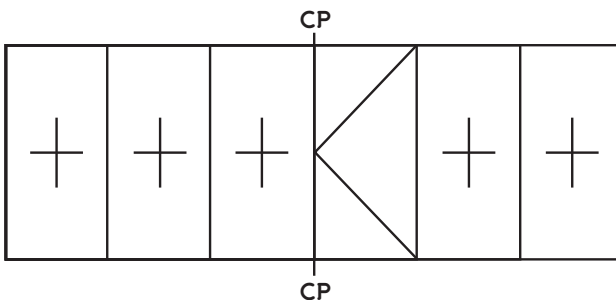
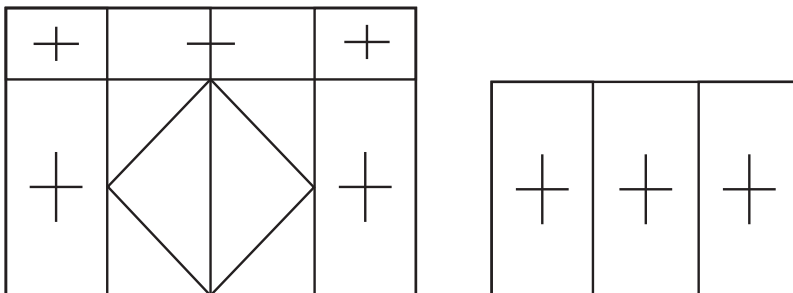
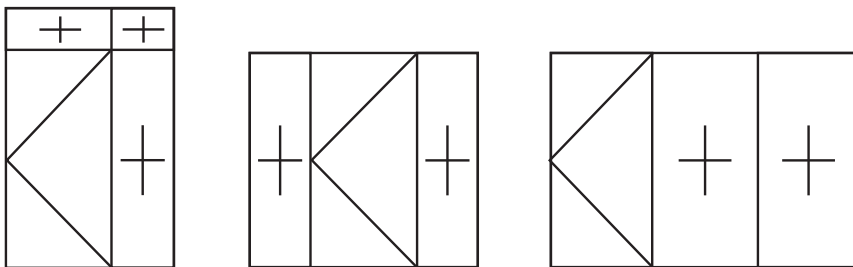
Single Door

Single Door with One Sidelight

French Door

French Door with One Sidelight

French Door with One Sidelight and Fixed Above



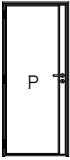
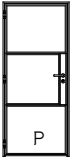
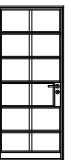
STERLING
DOORS AND WINDOWS

Internal Door Styles

Key:

H - Horizontal

V - Vertical

	0 H	2 H	1 V	3 H	1 V	4 H	1 V
Fully Glazed							
Kick Plate							
Panel							
	2 V	5 H	1 V	2 V	6 H	1 V	2 V
Fully Glazed							
Kick Plate							
Panel							



STERLING
DOORS AND WINDOWS

OI-30 Installation Guide

1. Check the frame

(open-in only)

- ▶ Unwrap product and check the following - any damage, specification and measure the width and height to ensure it fits the aperture. The transit strap will need removing from any door set
- ▶ After measuring the frame and the opening, cut any add-ons to length

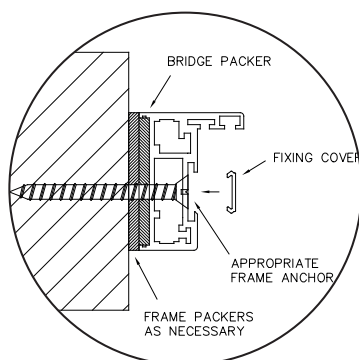


Diagram 1

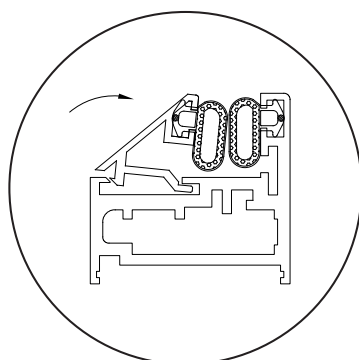


Diagram 2

2. Prepare the frame

- ▶ In the presence of skirting boards, cut down the add-on to meet the top of the skirting and fit the frame
- ▶ Next to each fixing point around the outer frame, pack out the frame with 1/8" bridging packers
- ▶ Place packers in the following locations around the exterior of the frame
- ▶ Hinge style - 4" either side of hinges
- ▶ Locking style - between 2" and 6" from internal corner or bottom of the frame, then no more than 23 5/8" apart and either side of the lock plate
- ▶ Door head - between 2" and 6" from internal corner and on French doors, either side of the shootbolt hole
- ▶ Fixed Screens - at the locking style and top and bottom
- ▶ If coupling frames together, then there is no need for bridging packers within the coupled sections
- ▶ Determine your finished floor height and lift the frame into place. Pack up the frame, allowing a minimum of 3/8" under the door sash at its highest point. Level and square the frame by adjusting the packing of the bridging packers
- ▶ Starting with the hinge side, drill appropriate hole and counter sink or counter boar through the first skin of the frame for the fixing you are using (either through the packing or just to the side of it). Make sure that the fixings are tight and sit flush with the frame. Then bring the sash level to the locking style and fix as above, making sure that the frame is parallel with the sash. (Diagram 1)
- ▶ For French Doors, start with the slave side then follow the above steps. The same if you have a fixed light
- ▶ On the Fixed Screens, the beads will need to be removed by pushing them in toward the frame (Diagram 2) or with a stiff sharp-edged scraper. (Mark the beads on the concealed side so that you know where to refit them). Windows will need to be fixed along the bottom



STERLING
DOORS AND WINDOWS

3. Coupling

- ▶ There are two coupling options. A Concealed Coupler that is only used for joining fixed windows up to 70 7/8" or a T-Coupler which is not limited in its use
- ▶ T-Coupler - using the supplied coupler, clamp the product either side of the coupler, making sure that the coupler sits flush at the top, bottom and back of the frame (Diagram 3) Drill and counter sink holes through the coupler and into the first skin of the opposite frame using the supplied 1 1/4" selftapping screws. Follow the same fixing process as you would to fix the frame into the opening
- ▶ Concealed Coupler – align and clamp the two frames together, with the coupler sandwiched between the two frames. Drill, countersink and fix down the length of the frame, using the supplied 3/16" x 1" fixings. Follow the same fixing process as you would for fixing the frame into an opening (Diagram 4)

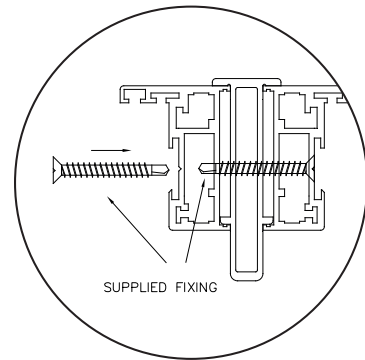


Diagram 3

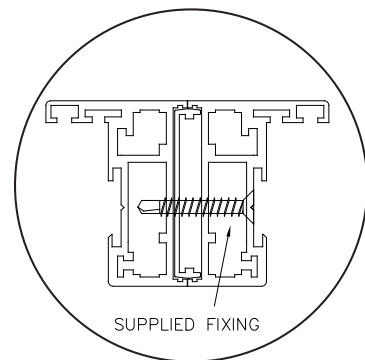


Diagram 4

4. Glazing

Fixed Screen panels:

- ▶ Using the 3/16" glazing packers provided, pack out the bottom edges of the frame in each corner. Lift the glass on to the packers and clip the bottom bead into the fixed panel, followed by the top bead, and finally the side beads. Take care to avoid scratching the frame edges during installation. The beads may require a gentle tap with a rubber mallet to fix them in place, as these are knock in beads with the gasket pre-applied. If necessary, you may need to pack the glass in level down the sides to centralise the unit

Note:

- ▶ To comply with BS 6180:2011 Barriers in and about buildings - code of practice, fixings will need to be no more than 12" apart and fixed through both sides of each frame, making sure that all fixings are countersunk and flush.



STERLING
DOORS AND WINDOWS

5. Sashes

- ▶ All sashes will need to be toe and heeled, and each individual section will need to be toe and heeled. Using the glazing packers provided, place a packer on the bottom hinge side. Place the glass on to the packer and clip in the bottom bead

The unit then needs to be toe and heeled, starting at the bottom hinge corner, followed by the opposite top corner (Diagram 5)

Repeat process for all other glazed or panelled sash sections

Handle / Turn and Release lever:

- ▶ You may need to work out and cut the spindle length and screws to the correct length. The necessary dimensions are as follows:
 - ▶ 1 9/16" screws for the handles and turn and release
 - ▶ Visible spindle length of turn and release at 2"
 - ▶ Spindle length of 3 9/16" for handle
- ▶ Push the spindle with the spacer into the locking mechanism. Place the female ends of the book end screws into the handle and push these over the spindle. Push the other half of the handle on to the spindle, pushing the screws through into the female screw ports of the handle. These can then be tightened up, with care taken not to strip the threads
- ▶ Tighten up the grub screws on the handle to prevent this from coming loose. Screw the rose covers on to the handle
- ▶ This same process applies to fitting the thumb turn lock if supplied
- ▶ If you need to adjust the locking of the door, use a flat headed screwdriver to pry the tab on the lock keep to the correct closing and locking operation

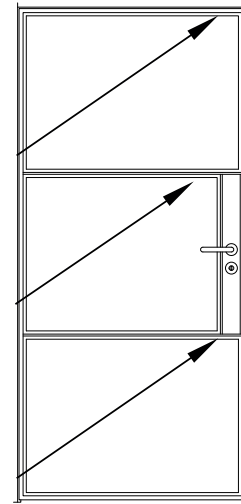


Diagram 5



STERLING
DOORS AND WINDOWS

Shootbolt keep:

- ▶ Check first to ensure there is no danger to any underfloor wiring or heating. Position the slave door at the closed position. Measure and mark the bottom shootbolt location. Drill a 3/4" hole, to a depth of 1 3/4". For a completely flush finish, a further 1 1/16" hole can be drilled to 1/8" deep, centralised over the existing hole. Place the shootbolt keep into the hole and press down into location. A suitable adhesive can be used

Finish up:

- ▶ Place the cover strips provided into the frame, these sections will clip into the frame profile. If required, these may need to be gently tapped into the profile using a block and rubber mallet
- ▶ Clean the frame, sashes, and glass with appropriate cleaning solutions
- ▶ Seal around the outer frame as required
- ▶ To improve acoustic performance and frame rigidity, expanding foam or foam tape can be used around the frame
- ▶ Where necessary, the brush gasket can be removed from underneath the door sashes. (e.g. when used with high pile carpet)

Glazing bar:

- ▶ Following installation of the glass, measure and cut the glazing bar to length. Clean the glass and the glazing bar with appropriate cleaning solutions prior to application of the tape
- ▶ Apply the tape along the length of the glazing bars. Stick the bar onto the glass at the appropriate locations, pressing firmly along the length to ensure good adhesion



STERLING
DOORS AND WINDOWS

573 Paul Morris Drive,
Englewood,
Florida 34223

t 941-484-4861
e info@sterlingdw.com
w www.sterlingdw.com