

EuroLite Doors & Windows - Receiving & Installation

Step 1: Preparing to receive your order.

- A. Your order will be delivered by a third-party trucking company. The trucker will call the day before delivery to make final arrangements. Please expect their call as they may not deliver without your confirmation. It is the trucking company's responsibility to deliver to curb side – not to any location within your property.
- B. As soon as the crates are unloaded, the order is no longer covered by delivery insurance and is entirely in your care.
- C. Our product is packed into special steel skids. If the order is not a full container load, then the steel skid will have plywood cladding. Also, multiple units may be on a single skid.
- D. Note that each skid can weigh up to 2500 lbs and, to unload the skid(s) you **must** have a forklift truck. Small orders may be lifted by hand with four strong workers. In this case the truck should be equipped with a lift gate and the workers will be able to move the skids onto the lift gate and bring them down to ground level. Please check with your project manager about how your specific order is packaged.
- E. You will need the following items to be ready for installing your unit(s):
 - a. Fasteners – check the anchor schedule below to determine the correct fasteners for your job.
 - b. All weather caulking to seal around the doorjamb and under the threshold.
 - c. Locksets for swing doors (if not purchased from EuroLite).
- F. **READ THE INSTALLATION INSTRUCTIONS.** It is most important to follow the installation procedure.



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ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH BOLT	WOOD: MIN. S.G. = 0.42	#14 WOOD SCREW	1.5"	1"
	METAL: STEEL MIN. 18 GAUGE (MIN. Fy = 36 ksi) ALUM. MIN. 1/8" THK. (MIN. 6063-T5)	1/4" SMS OR SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"
	CONCRETE: MIN. f'c = 3000 psi	1/4" ITW TAPCON	1"	2"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1"	2"
FRAMING LUGS	WOOD: MIN. S.G. = 0.42	#10 WOOD SCREW	1.5"	1"
	METAL: STEEL MIN. 18 GAUGE (MIN. Fy = 36 ksi) ALUM. MIN. 1/8" THK. (MIN. 6063-T5)	#10 SMS OR SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"
RECESS CLIP	WOOD: MIN. S.G. = 0.42	#10 WOOD SCREW	1.5"	1"
	METAL: STEEL MIN. 18 GAUGE (MIN. Fy = 36 ksi) ALUM. MIN. 1/8" THK. (MIN. 6063-T5)	#10 SMS OR SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"
	CONCRETE: MIN. f'c = 3000 psi	3/16" ITW TAPCON	1"	2.25"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON	1"	2"

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Step 4: Installation

For simplicity of language, this guide is written for a double door. The installation of a single door and single or double casement windows is essentially the same. Here is a vertical cross section of a single door for reference:

1. Installation Notes

The attachment methods can be: 1) Framing Lugs, 2) Recess Clips, 3) Through Screws, (see the illustrations). Installation proceeds in a similar way for each type, except for the actual attachment..

Casements and doors, must have their sashes and door slabs removed, these are hung onto the hinge pins after installation.

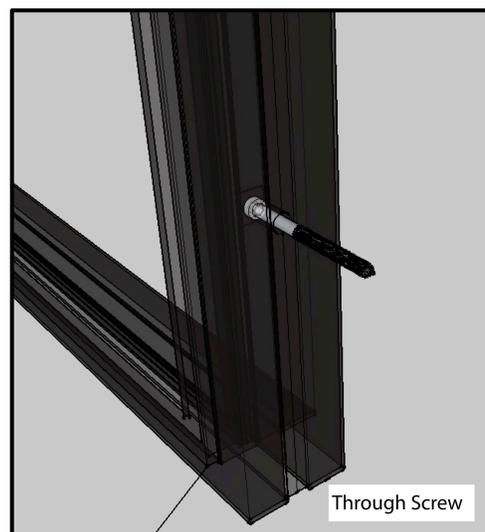
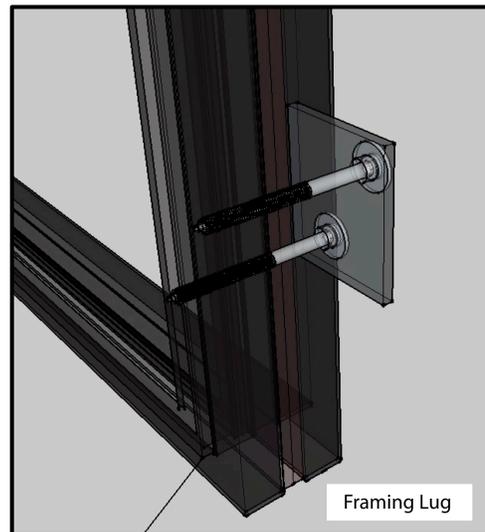
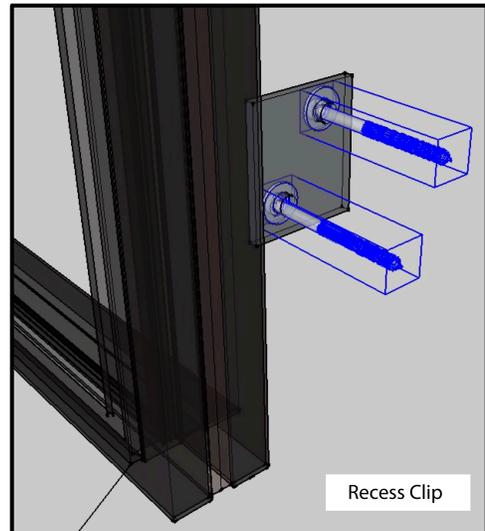
Fixed windows with Through Screw attachments must have the glass stop removed to allow access to fasten the attachment screws. To facilitate removal, sealant and glazing tape is not applied between glass stop and glass in the factory. This must be applied by the installer after window is installed (necessary materials are included with the unit).

For simplicity we are using the word 'Frame' to describe a casement frame, door jamb or fixed window.

For exterior units, make sure there will be no contact between the frame and any wet or conductive material that could create a bridge around the thermal break.

2. Preparation

Before starting installation, make sure the opening is the correct width and height, that it is plumb, level and square. Also gather the materials and fasteners noted in Section 1.E. above.



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3. Mulling (Skip this section if no mulling required)

Some combinations of doors and windows may require on-site mulling to connect adjacent sections. There are three types of mulling methods: 1) Screw connections, 2) Z-Clip connections, 3) Telescoping connections.

1) Mulling with Screw connections.

This is typically done when a casement or swing door is mulled to a large fixed window.

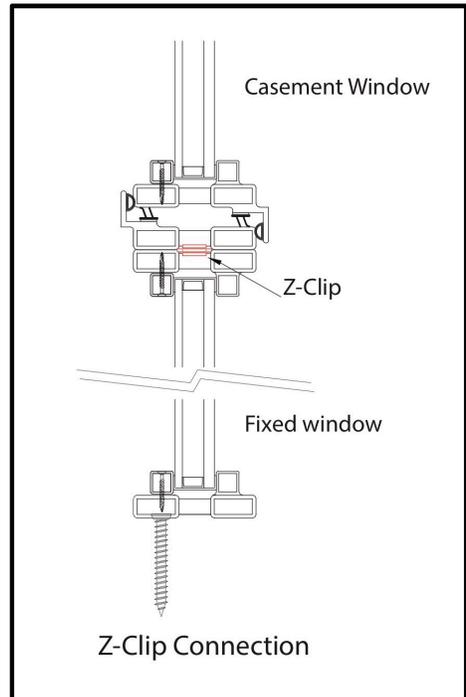
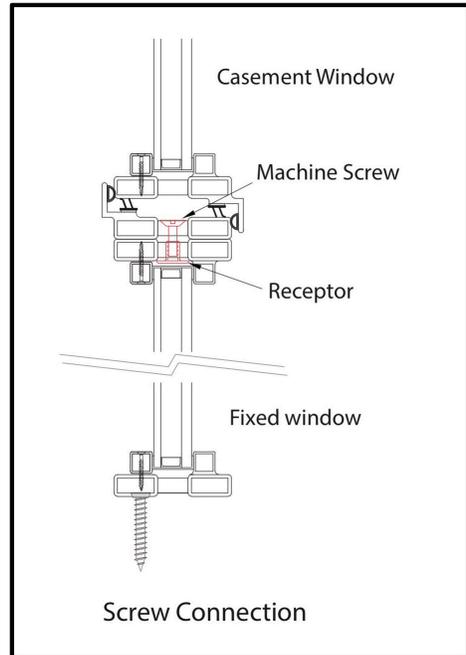
- If the door slab or casement sash is already hung, open it up 90° and lift it off the hinge pins – place it safely to one side.
- Lay the sections to be mulled on a clean flat surface in their correct positions.
- Make sure to place a bead of sealant across the exterior surface of one frame so that when fastened together the sealant squeezes out. Make sure to clean off any excess sealant and tool into place.
- Identify the connection points on the jamb/frame and use the supplied screws to connect through to the fixed window(s).
- Loosely connect all the screws and then tighten them, being sure to keep the adjacent surfaces on same level.

2) Mulling with Z Clip connections. This is typically done with adjacent fixed windows. Z Clips connect by sliding the tab on one side into the receptor on the other. See illustration.

- Lay the sections to be mulled on a clean flat surface in their correct positions but a few inches apart.
- Identify the Z-Clips on the connecting edges. One side will

have the tabs and one side the receptors.

- Bring the two sections together but slightly offset, so that the tab is just above the receptor.
- Slide the sides so that they are in alignment. The tabs will engage with the receptors.



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3) Mulling with Telescoping connections. This is typically done with casement windows mulling to fixed windows or doors mulling to fixed windows.

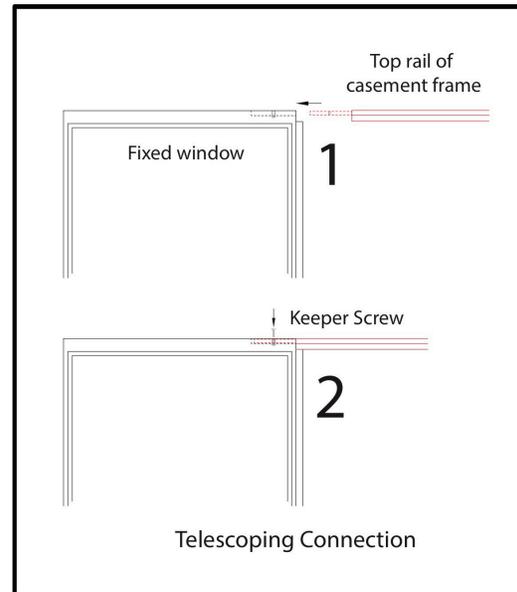
- a. Lay the fixed panels to be mullied on a clean flat surface in their approximate positions.
- b. Identify the separate top rail and threshold and place them in their approximate positions.
- c. Insert each telescoping end into the receiving cavities of the fixed panels and secure with the keeper screws.

Make sure to find the slab(s) with the same numbers as the frames. Otherwise, they might not fit properly.

- a. Lightly grease the brass hinge bearings and drop one each over the hinge pins on the jamb. Do not get grease onto the painted surfaces as this can cause damage.

4. Installing the Frame.

- a. Check the measurement of the rough opening (RO) to make sure the frame will fit. Adjust RO as necessary.
- b. On exterior units lay down three ample lines of caulking on the subfloor - one at the outside extent of the threshold extension (if applicable) and two to coincide with the inner and out chambers of the jamb. Also caulk the corners from inside to outside.
- c. Make sure to place a bead of sealant across the exterior surface of one frame so that when fastened together the sealant squeezes out. Make sure to clean off any excess sealant and tool into place.
- d. Lift the frame into the RO, tilting it slightly so the bottom sits nicely on the caulking. Then push the top into position. The position of Framing Lugs will determine if you do this from inside or outside the building.
- e. For casements and doors, connect only the top edges of the frame at this time. This is necessary to allow for adjustment later.

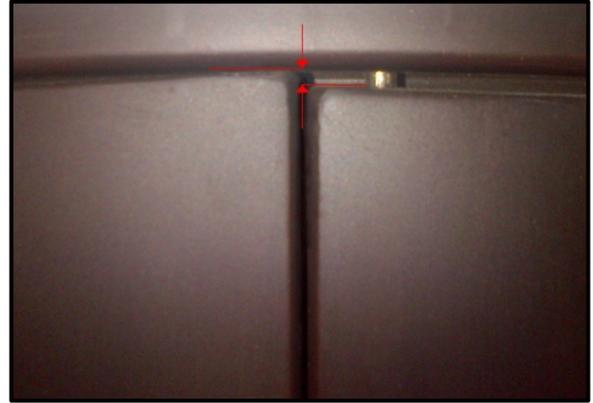


5. Hanging Door Slabs and Casement Sashes

For simplicity, we'll use the term 'Slab' to mean door slab or casement sash. **NOTE:**

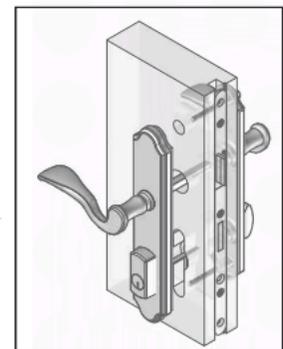
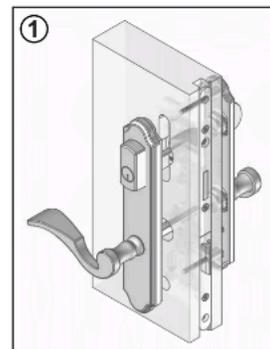
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- b. Lay some plywood on the flooring to protect the floor and slab from damage.
- c. Bring one slab into position at a 90° angle to the jamb. Lift the slab onto its hinge pins. Be careful not to allow the slab or hinges to scrape on the jamb. Close the door and repeat sequence on second slab.

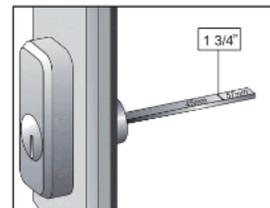


6. Adjustment of Doors and Casements

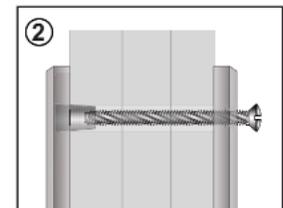
- a. Check the frame is square. The reveal should be equal all the way around. Double units should line up in the center – the image adjacent shows an INCORRECT installation. In this case you must move the bottom of the frame to the left or right until the centers line up.
- b. Next check that the frame is not twisted. Slowly close the sash or slab to check that it touches top and bottom at the same moment. If the top or the bottom touches first, then the frame is slightly twisted. You can adjust this by moving one bottom corner in or out. Shim the attachment as necessary.



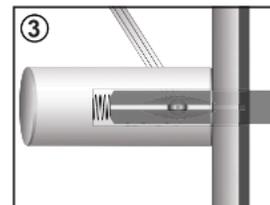
Position the exterior handle assembly into the holes and push the spindle through the door gear. Handle should point towards the hinge side. Position the interior handle assembly with the spindle. Handle should point towards the hinge side.



Cut the cylinder tail for 1 3/4" (45mm) doors. Place the cylinder tail into the knob slot.



Fasten with two installation screws. Don't fully tighten yet.



Tighten the set screw only after full assembly of handle kit on both sides of the door. Test operation of the handle.



Fully tighten the 2 installation screws and re-test operation of the handle and knob.

7. Final Attachment

- a. Fasten the frame at all attachment points. On doors and casements, check the fit once again to make sure nothing moved while you were tightening the screws.
- b. Apply caulking on the sides and top as necessary.

8. Installation of Exterior Door locksets

- a. Install the lockset and handles according to the manufacturers instructions. All locksets must have a "Thick Door Kit", which provides a longer activator to reach to the latch mechanism. A small amount of silicone sealant should be put under the bezels to help prevent air incursion.

Please contact us if you have any questions or require help with your installation.