PRL GLASS SYSTEMS

CLASSIC GLASS
BOTTOM ROLLING SYSTEM
INSTALLATION
INSTRUCTIONS

PRL Glass systems inc.
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Assembly & installation instructions for the prl

PL-150

Classic glass bottom rolling system

These installation instructions are generic in nature but specific to the PRL Classic glass bottom rolling system doors. Because each project will have differing conditions, each project should have job specific drawings prepared by journeymen drafters or engineers who are familiar with the product & constructions details & have an intimate understanding of PRL's products & how to integrate them into the construction details specific to the project it is being used on. The shop drawings will take precedence over these instructions as they are project specific. When in doubt contact prl technical representative.

Engineering calculations & shop drawing review should be performed by a professional engineer. We sell only to bona fide professional glazing contractors & expect that you employ seasoned journeymen who have apprenticed & been trained in all aspects of fenestration construction & assembly. We expect that you are familiar with, & have installed products of same & similar type. You should be aware of local building codes & practices & be sure to comply with them. PRL has no ability to ensure you are complying & practicing in accordance with them & assumes no responsibility for your compliance.

Coordinate with your sealant supplier to be sure you are using the correct sealants. Coordinate with the sealant supplier to be sure of compatibility & adhesion with all glass, aluminum & building components. Have your sealant supplier test for compatibility & adhesion with all glass, aluminum & building components on each project you perform & give you a written report stating that all materials conform. These installation & assembly instructions refer you to areas where caulking seals are required. In each case you must fully clean the surface the caulking is to adhere to. You will clean using sealant manufacturers recommended solvents. You will use adhesion primers or adhesion promoters that the sealant supplier recommends to you.

These instructions show one of many acceptable steps to fabricate & install the system. It is not always necessary to follow these instructions in the exact order we have suggested but you should be familiar enough with the construction or PRL's products, should you decide to deviate & specify an alternate order of fabrication & assembly. vWhen in doubt contact PRL technical representative.

Isolate & separate aluminum products from steel, masonry & cementitious materials.

We recommend a heavy coat of bituminous paint.

Check all shipments from PRL immediately upon receipt thereof.

Check for damage, count & quality.

Inform you PRL service representative immediately of errors, omissions or questionable quality.

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Frameless & all glass doors are manufactured from fully tempered glass with polished edges. They are very heavy.

Extreme care should be taken when moving, handling & installing this product.

Failure to be cautious in your handling could result in significant injury or even death.

Check the glass both before & after installation for chips in the edge of glass. Edge chips in tempered glass can result in spontaneous breakage at any time & should not be used or should be replaced.

PRL's products are constantly being refined, improved & expanded. Check for latest bulletins & publications.
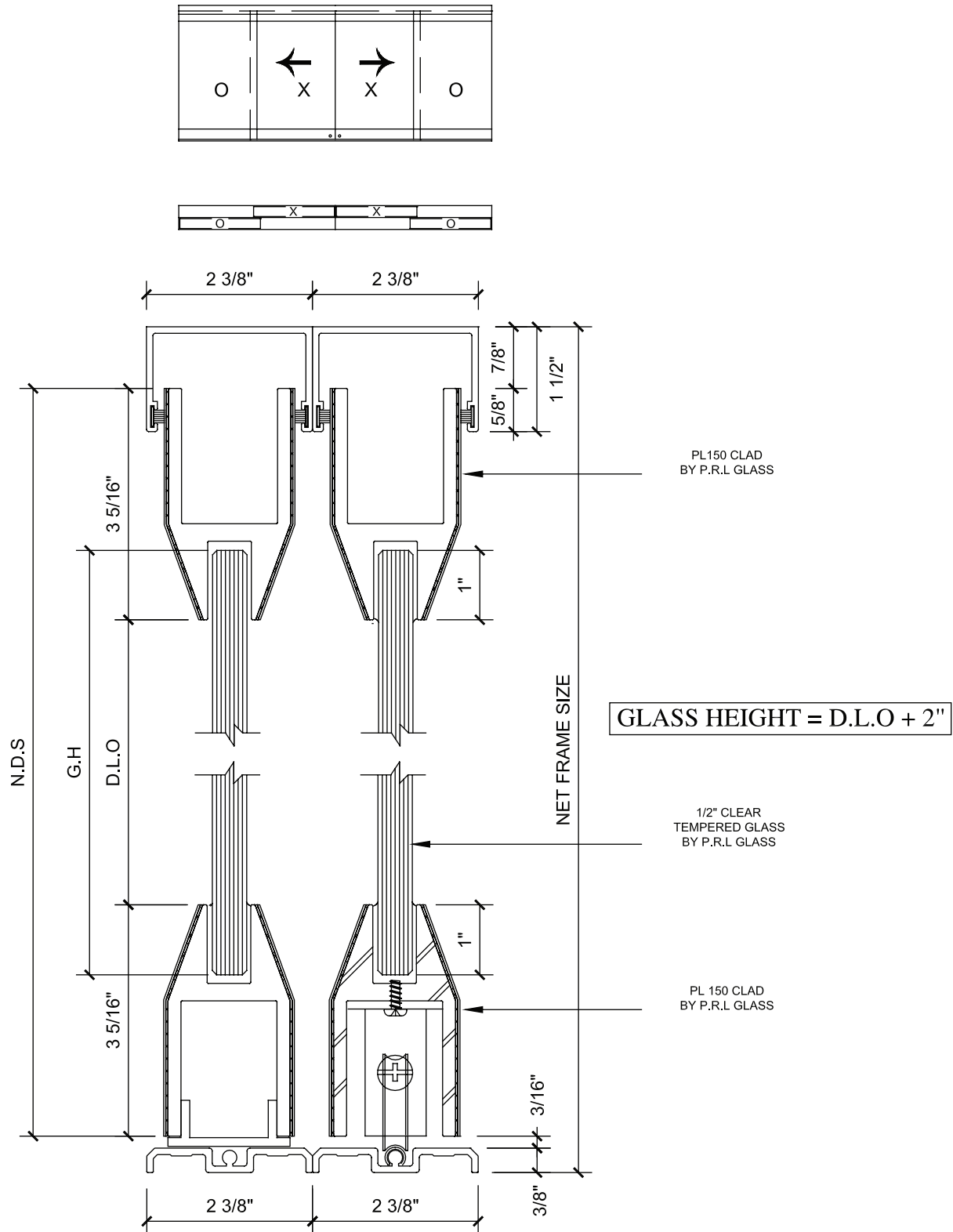
PRL offers multiple rail options for this product. They all operate & function the same. We have shown one type of rail, but the installation instructions are pertinent to all rails. If in doubt contact your PRL technical representative.

These installation instructions show you the method of installation for a 2 leaf (known as OX) sliding door, the addition of multiple more leafs is the same as for each of the leaves we have depicted here.

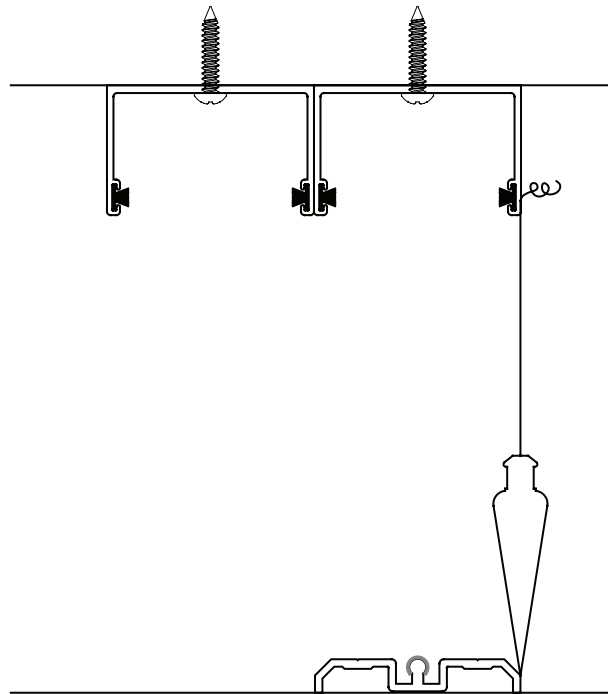If in doubt of any item or procedure contact your PRL technical representative.

Documents applicable & supplemental to these installation instructions include but not limited to the following. We expect that you, the professional glazier are familiar & compliant with them all.

AAMA 609 & 610-09   cleaning & maintenance guide for architecturally finished aluminum.

AAMA 851-09   fenestration sealants guide for windows, window wall & curtain walls

AAMA AAPA-91   anodic finishes / painted aluminum.

AAMA CW 10-04   care & handling of architectural aluminum from shop to site

AAMA CW 13-85   structural sealant glazing systems

AAMA 609 & 610   cleaning & maintenance guide for architectural finished aluminum

AAMA TIR A14-10   fenestration anchorage guidelines

GANA   glazing manual (50th anniversary edition)

GANA 2008   sealant manual

GANA 2009   laminated glazing reference manual

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O   X   X   O

2 3/8"   2 3/8"

7/8"   1 1/2"   5/8"

PL150 CLAD
BY P.R.L GLASS

3 5/16"

1"

NET FRAME SIZE

N.D.S   G.H   D.L.O

GLASS HEIGHT = D.L.O + 2"

1/2" CLEAR
TEMPERED GLASS
BY P.R.L GLASS

1"

3 5/16"

PL 150 CLAD
BY P.R.L GLASS

3/16"

2 3/8"   2 3/8"   3/8"

ANCHOR INSTALLATION ?

ANCHOR INSTALLATION INTO MULLION, HEAD SHOWN, SILL SIMILAR

Installed track

(1) Drop a plumb line to perfectly align sill with head track.

Mark position with substrate

Plumb bob

Prepare substrate for sill.
It is critical that the sill have continuous hard blocking below.
It is critical that the sill be flat & level. Hills & valleys in the sill or an out of level sill will not allow the sliding leaf to operate at optimal function.

(3) Attach with fasteners of size & spacing specified by your engineer.
Max spacing is 12"

(2) Set interior sill on bed of caulk

Caulk substrate ready for sill

(1)

ANCHOR INSTALLATION ?

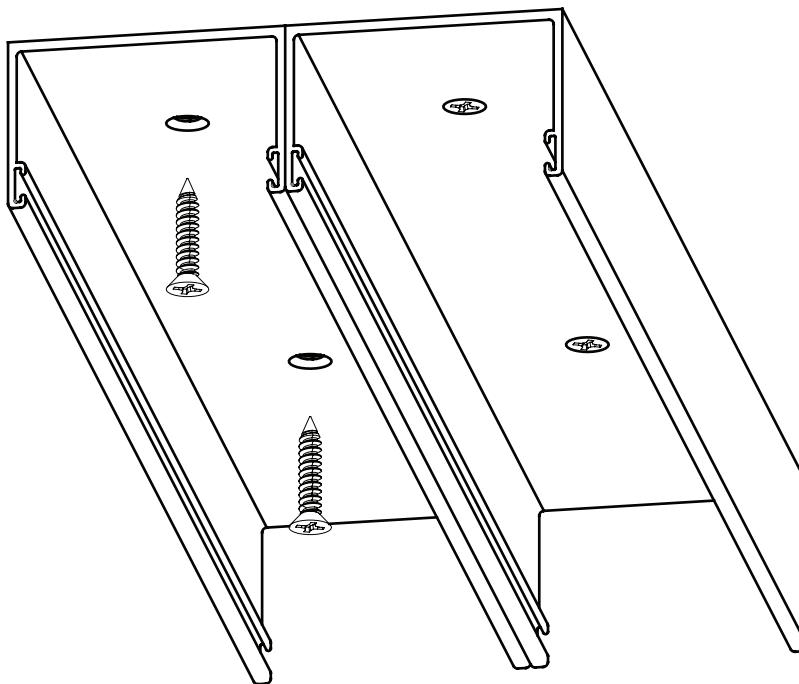### INSURE ROUGH OPENINGS ARE TRUE & SQUARED & OF CORRECT SIZE

Install head track to substrate. Fastener size & spacing should be per your engineers design.

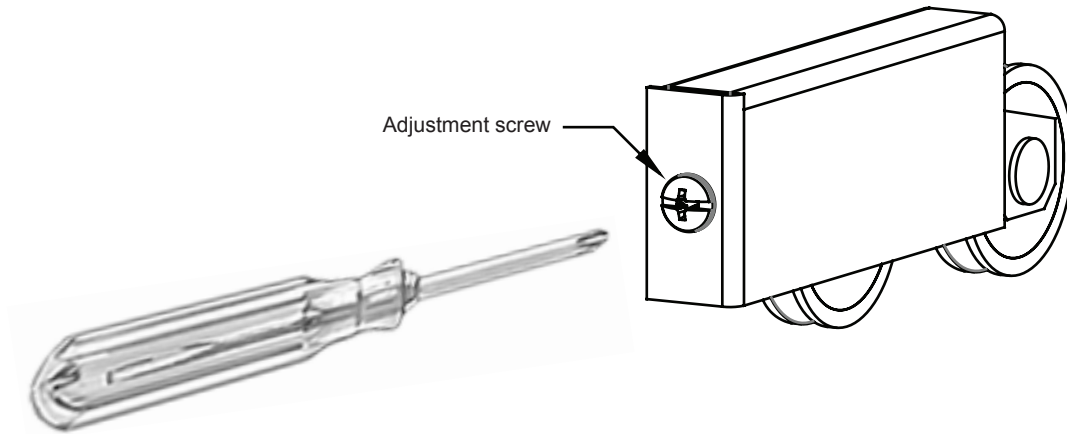Minimum should be 1/4 diameter fastener, 2" from ends & no greater than 12" on center.

The first track is the critical install as it will set the placement of the other tracks & sill.
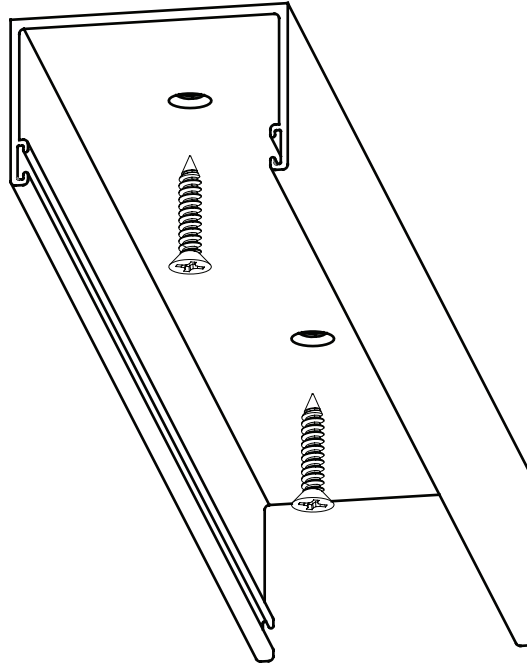
Add other tracks as required

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# VIEW OF UNINSTALLED ROLLER

Adjustment screw

Installation of the door is a heavy & difficult task. It should be performed by a minimum of 2 able bodied sturdy journeymen, Possibly more. You are a trained glazier & know better than us how to move & install heavy glass.

Access hole

Sill track

Screw driver
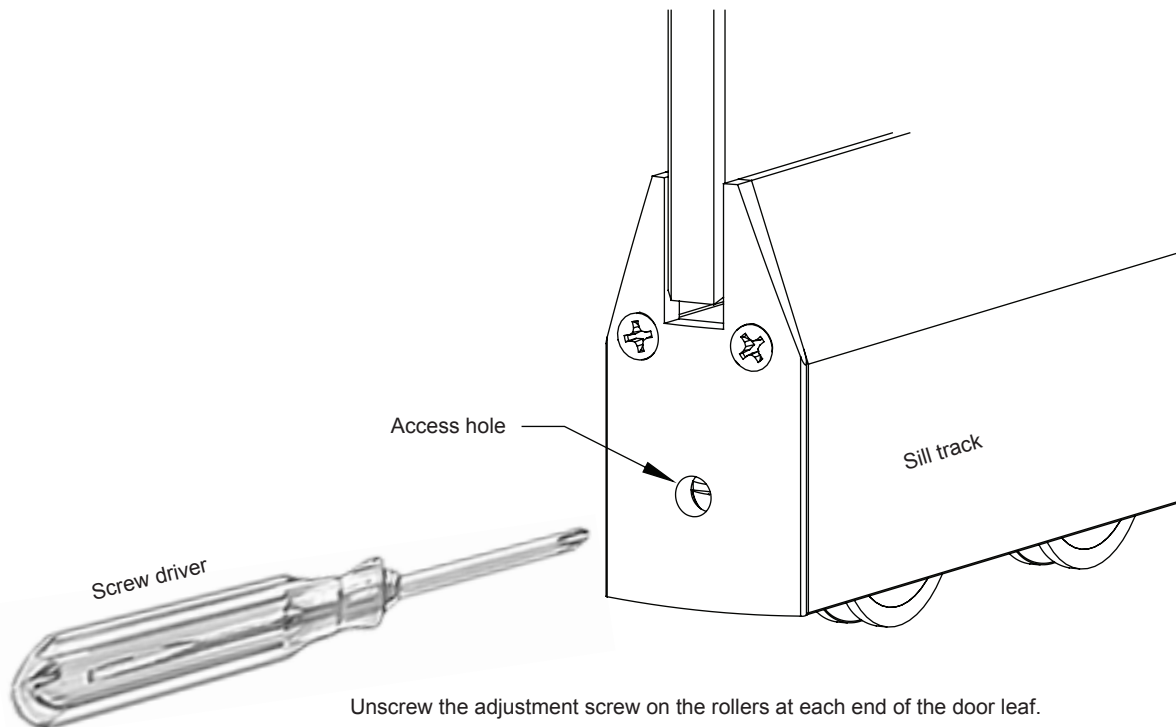
Unscrew the adjustment screw on the rollers at each end of the door leaf.

The intent is to get the roller wheels as far into the sill track as possible
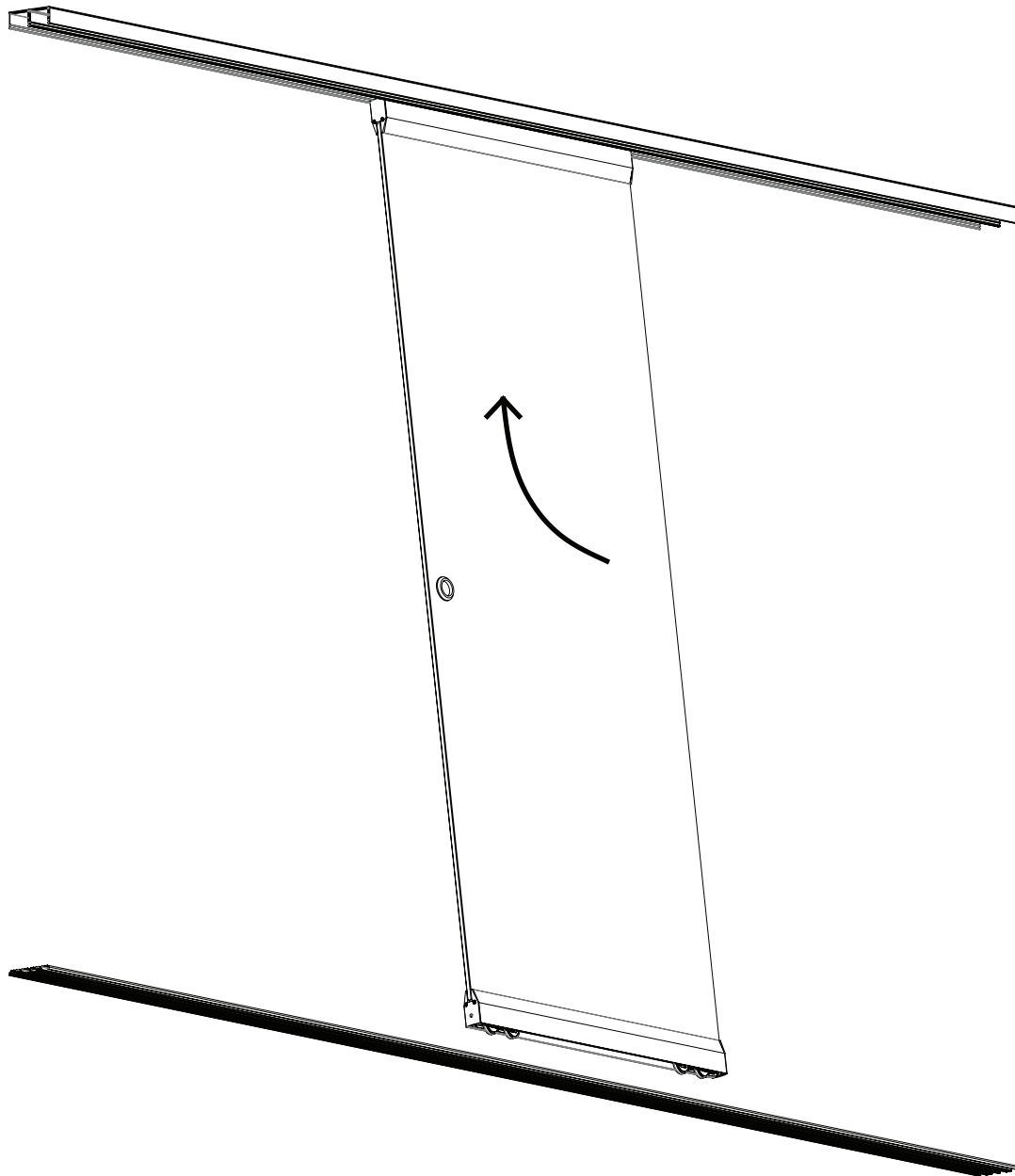
Using proper lifting methods push the door leaf into the head track as far as it will go.
 Swing the bottom of the door over the track & lower into place.
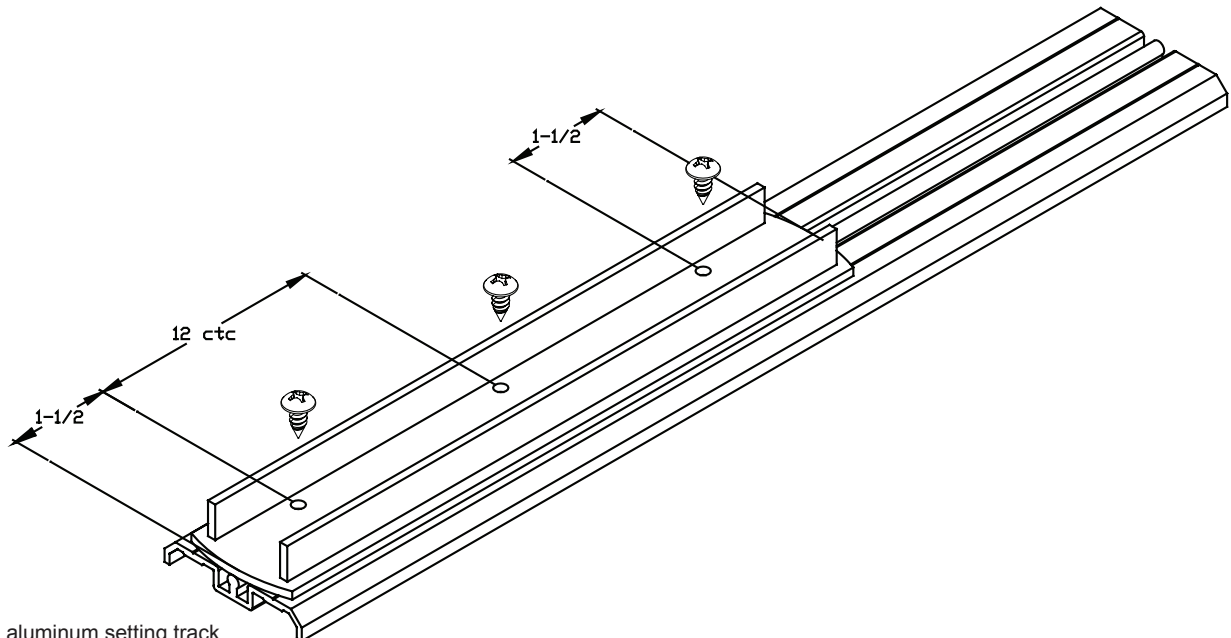
Ensure rollers are ridding on track.

Adjust door rail to be parallel, plumb & level with sill track by screwing the roller adjustment screws up or down.

Ensure door locks properly. Adjusting the door too high may cause the lock to fail to engage the sill.

INSTALL NON OPERATING LEAF
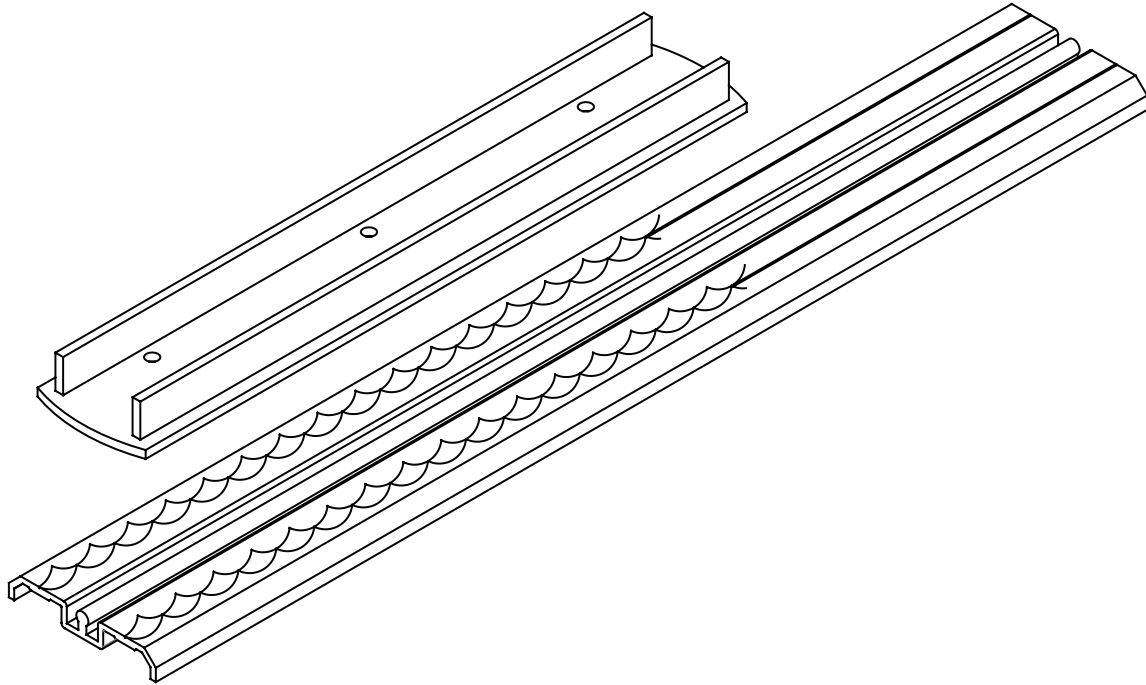
1 Lay bead of caulking on sill

1-1/2

12 ctc

1-1/2

2 Attach aluminum setting track
centrally on sill. Screw sill to
track with #12 x 1/2 sms
1-1/2 from each end
& 12" on center.

Align side of track with of sill
track

RE-GLAZING INSTRUCTIONS

Removal of glass from door rails is a difficult & dangerous task.

Glass shards will be flying through the air & there is a great danger to the glazier.

You must wear eye, hand, face & other protection beyond that of OSHA requirements.

For the sake of this re-glazing procedure we have assumed the glass has been broken.

Re-use of the top & bottom rail may not be possible. We have used rockite brand hydraulic cement to adhere the glass & rail to each other.

Your attempt to remove it may destroy the rails beyond repair.

You will need to chisel out all traces of glass & rockite cement.

You may find an air chisel to be faster & easier

This is an extremely dangerous task, wear eye, face & hands protection.

Broken glass
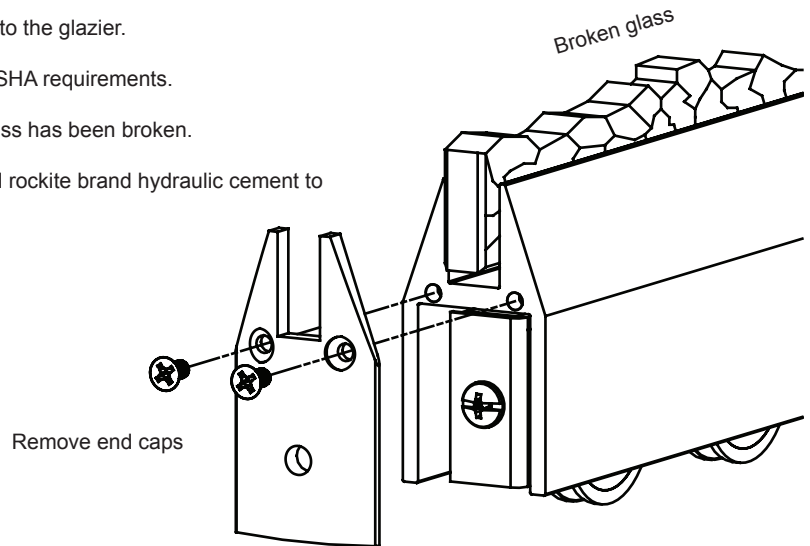
Remove end caps

Once rail is clean enough for re-glazing re-attach the end caps.

Support rail in vertical position.

Place (2) 1/2 x 1/8 x 2 rubber setting blocks in rails glazing channels

Place glass in rail & support in vertical position so it cannot move or move in the rail.

Mix rockite per manufacturers instructions & poor in front & back of track until track is full with no voids.

Allow to set per manufactures instructions.

Turn over & repeat process for other rail.

When set reinstlall per previous instructions.

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