

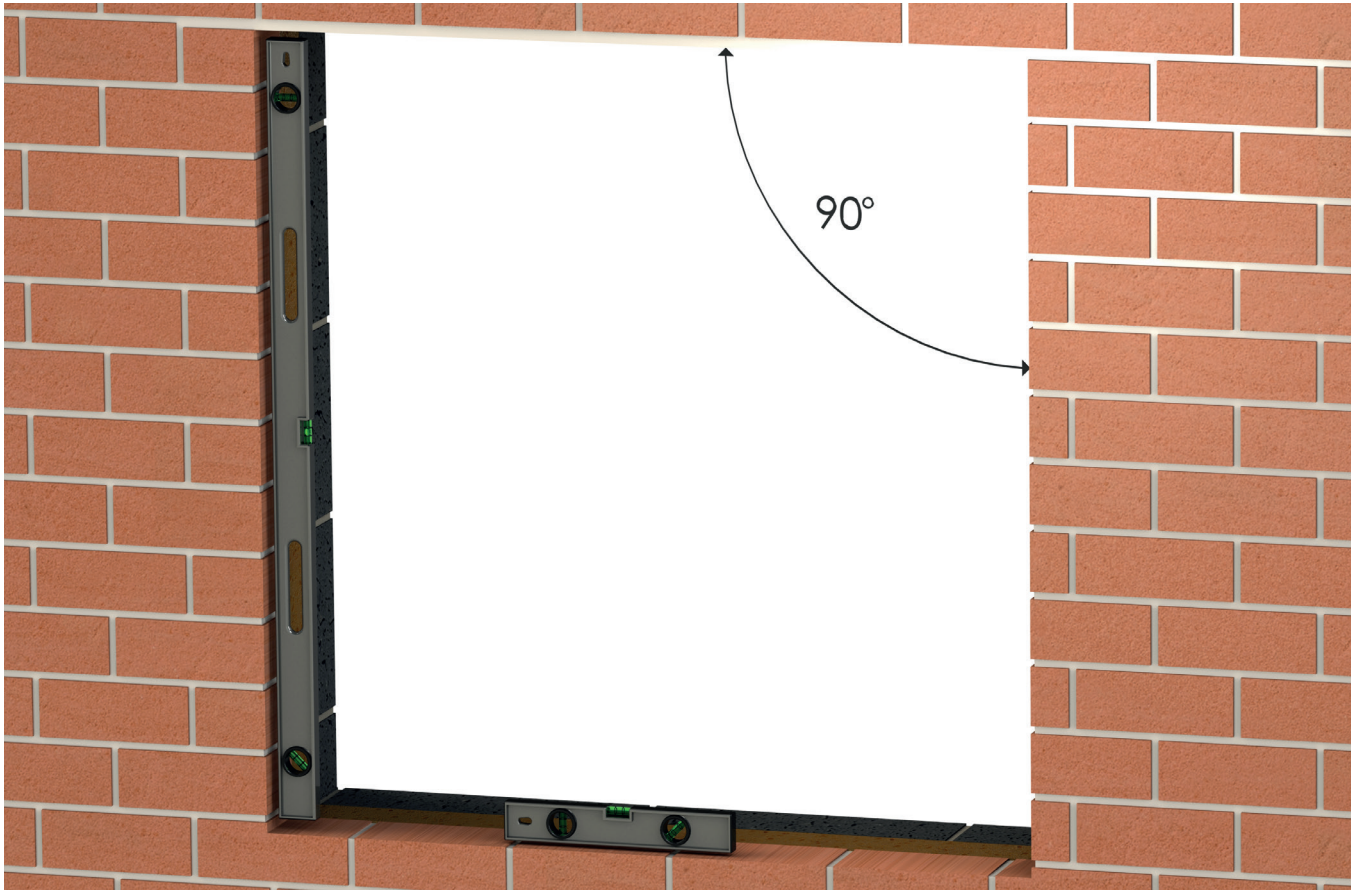


origin
DOORS AND WINDOWS

Windows

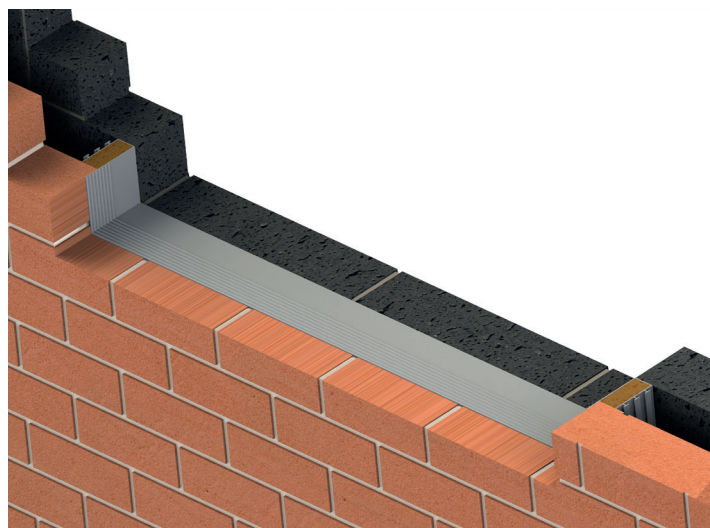
Installation Guide

Openings



Windows should be installed in the opening without twisting, racking or distorting.

Open cavities discovered between the inner and outer skins of brick or block work should be closed in accordance with the local building authority regulations.



1. Frame Fixing

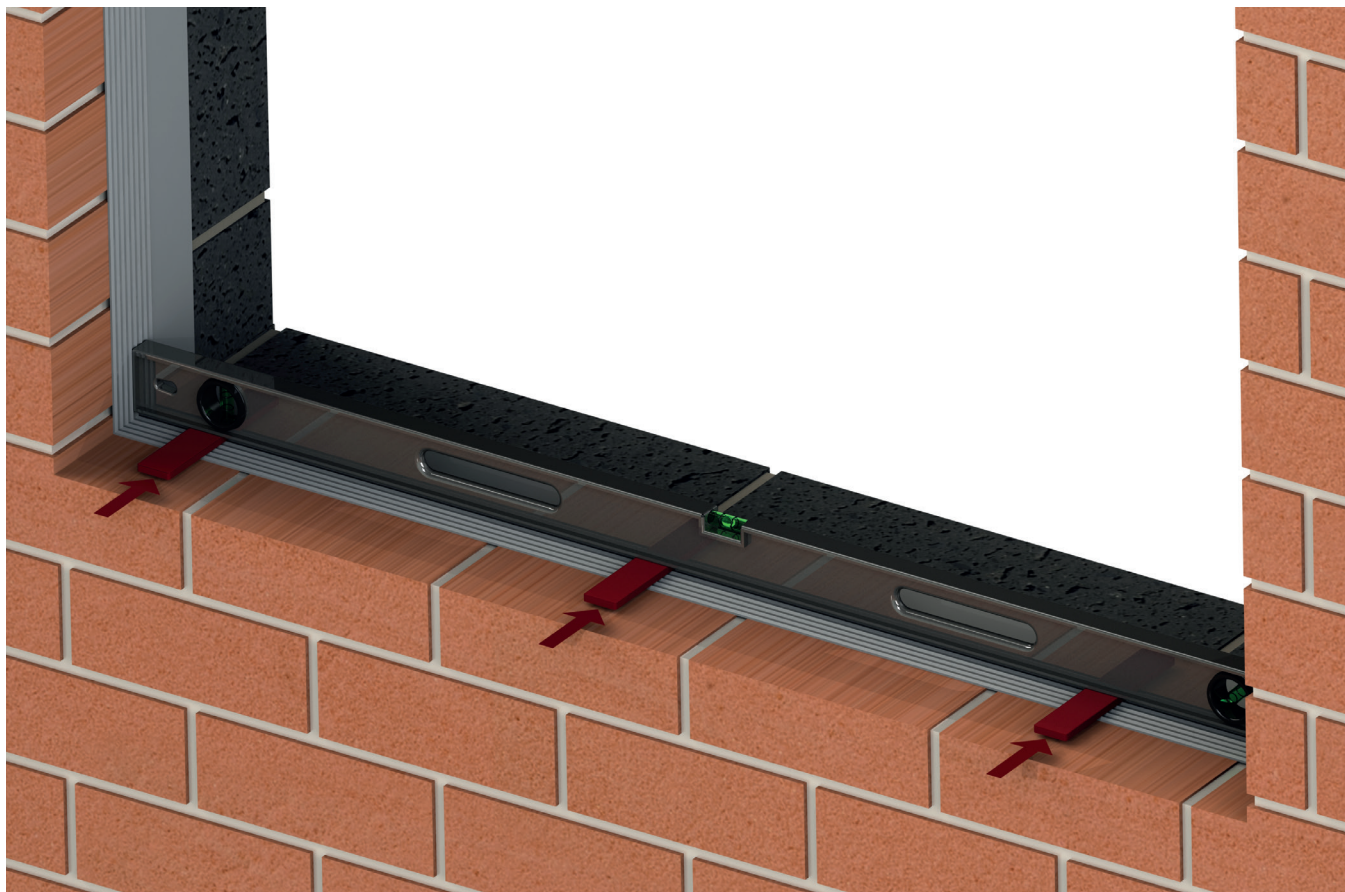


FIG 1

Measure the opening, checking it fits with all measurements on your Origin paperwork.

- ▶ **1.1.** Place the correct frame shims along the bottom of the opening to create a level, well supported platform for the window to sit. (Fig.1). Each shim should be placed in line with the pre-drilled fixing hole in the window frame.

1. Frame Fixing (continued)

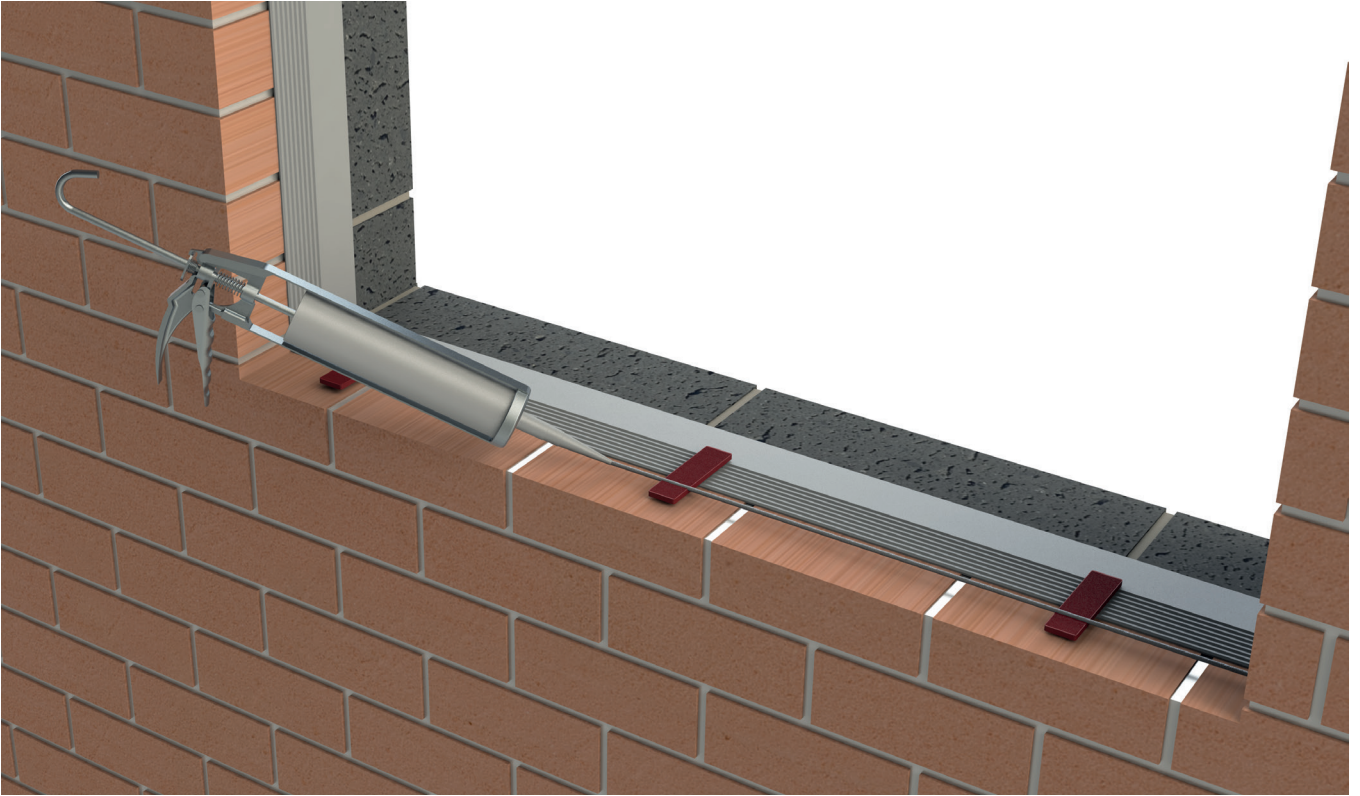


FIG 2

- ▶ **1.2.** Place the window on the pre prepared frame shims and re-check for level. Adjust if necessary. Once complete, remove window from the opening once more. (Fig.2)
- ▶ **1.3.** Run a bead of sealant across and in between shims for window to sit in.

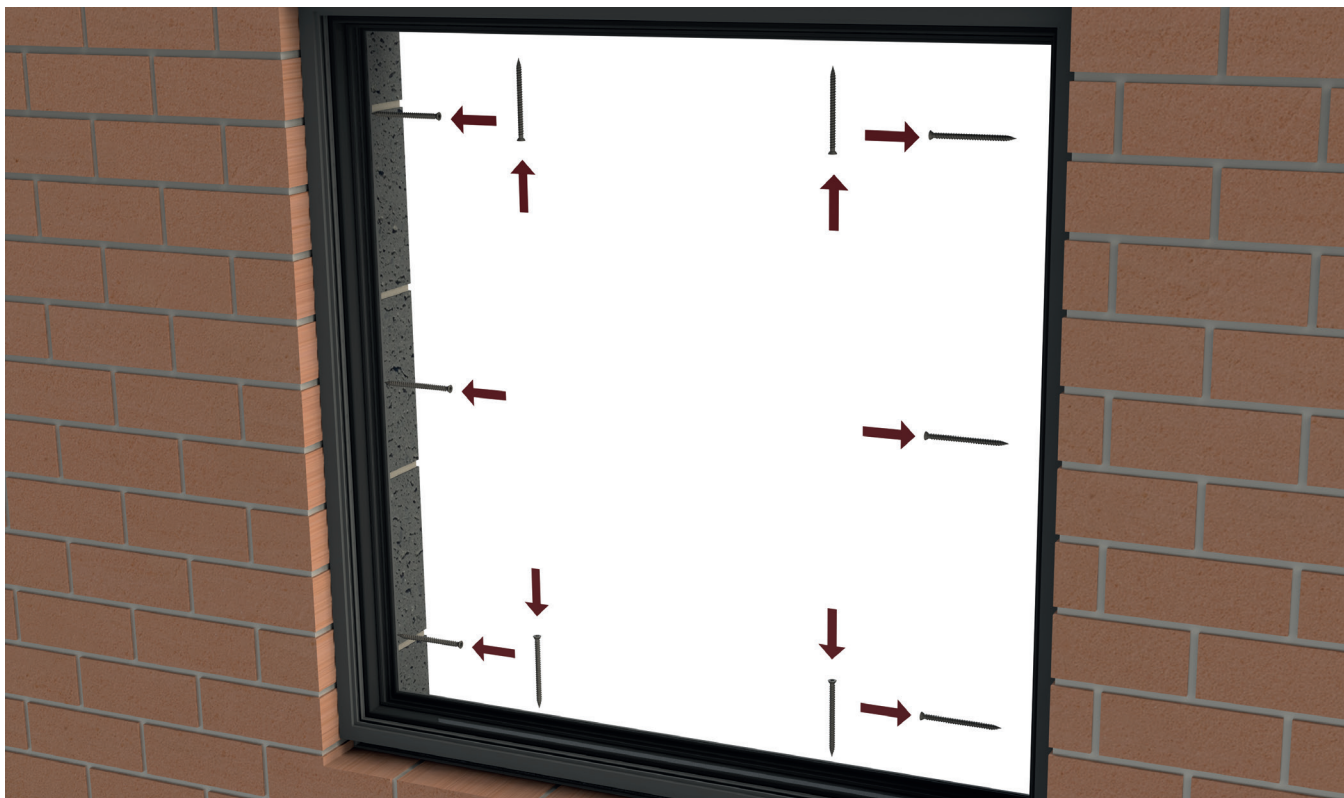


FIG 3

► **1.4.** Place the window in the opening and secure all four sides of the frame as follows:

- Frame anchors to be installed at pre-drilled locations (please refer to the back of this guide for installation anchorage details for different substrates etc).

1.4.1. Insert suitable frame shims at the top and sides of the frame in line with each pre-drilled set of anchor holes. Care should be taken not to twist or bow the frame as the anchor is tightened.

1.4.2. Install one pair of frame anchors in the bottom of the frame close to the centre.

1.4.3. Making sure the frame is sitting plumb in the opening install the opposite pair of anchors in the top of the frame

1.4.4. Repeat this process until all frame anchors have been installed into all four sides of the frame. It is wise to check the frame for level and square after each pair of anchors has been installed.

1.4.5. Once all anchors are in place, work the sealant around each of the anchor heads to prevent water from leaking into the frame.

2. Glazing

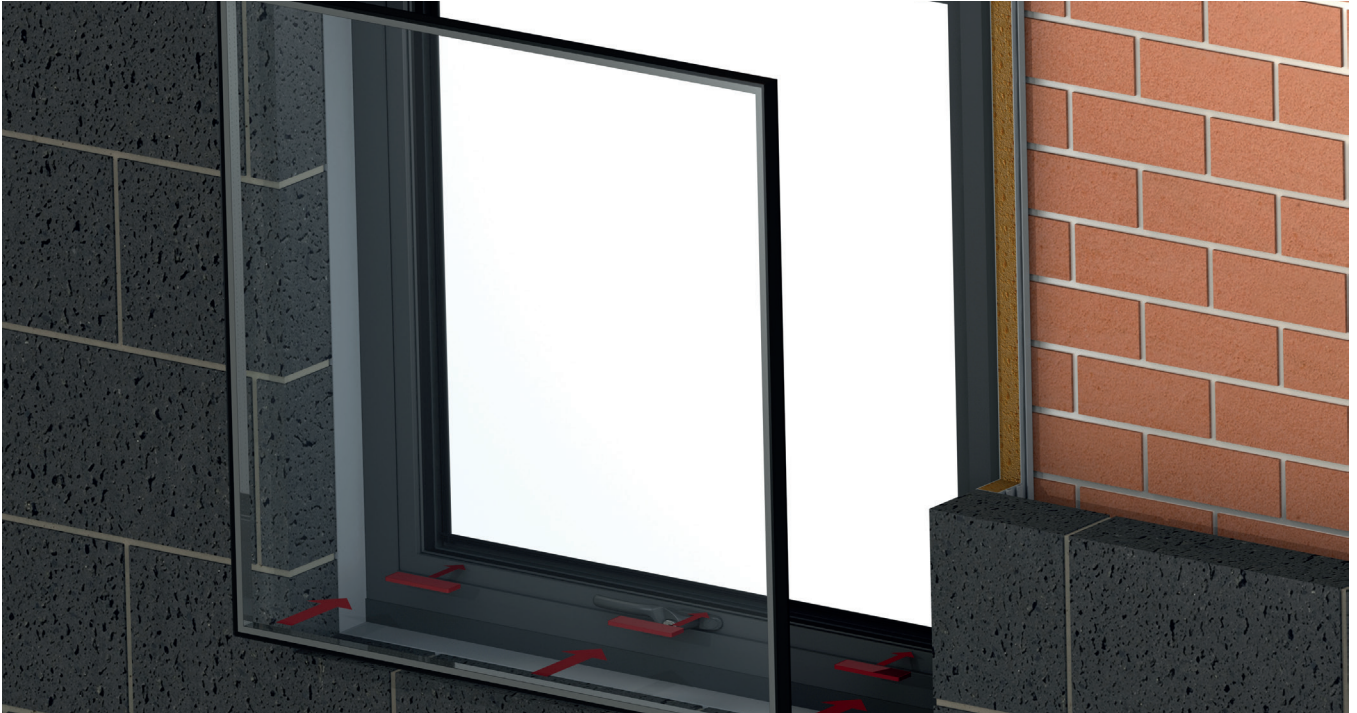


FIG 4

- ▶ **2.1.** All insulated glass units should be examined for damages and defects before installation.
- ▶ **2.2.** Close the window and fully engage the lock.
- ▶ **2.3.** Remove the 4 glazing beads.
- ▶ **2.4.** Place glazing shims in the bottom of the glazing chamber spaced approximately 2" in from each corner and no more than 18" centres. (Fig.4)
- ▶ **2.5.** Install the glass on the shims.
- ▶ **2.6.** Place the required shims between the glass and frame on the remaining 3 sides, spaced as in step 2.4. being careful not to bow or twist the sash.
- ▶ **2.7.** Apply a small amount of sealant to the bottom of each shim on the vertical sides to stop the shim from slipping down over time.

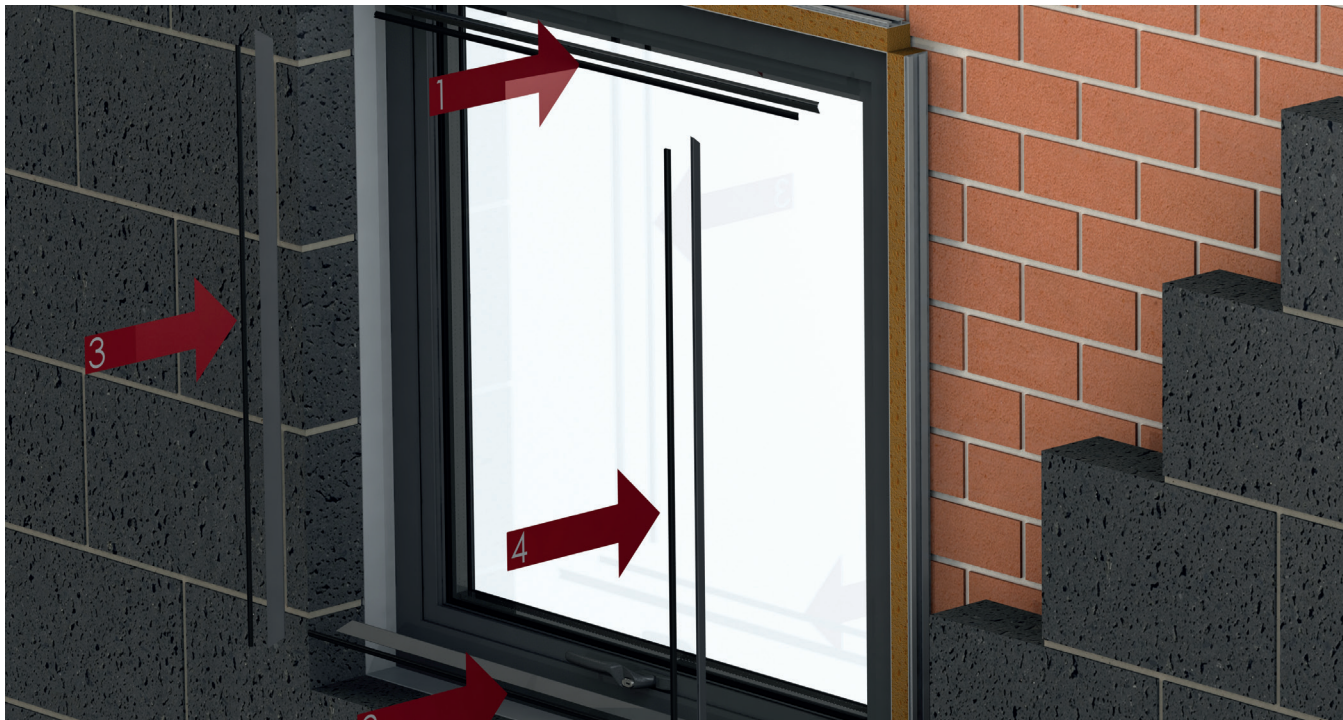
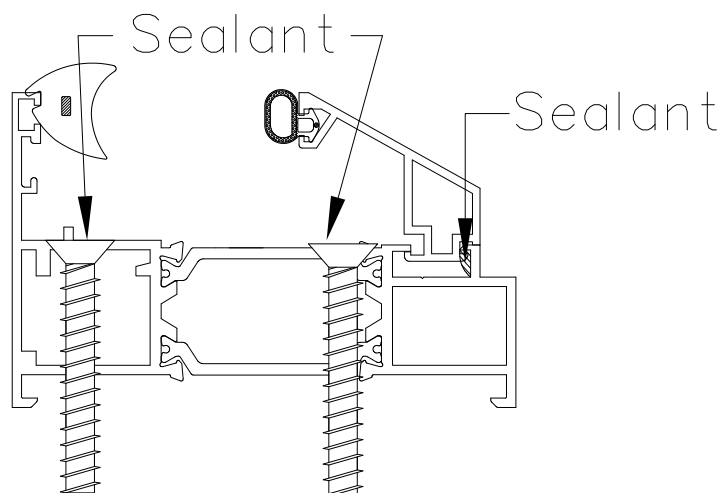


FIG 5

- ▶ **2.8.** Re-install the four glazing beads. For safety, always ensure the top bead is installed first, followed by the bottom and then the side beads. (Fig.5) *For fixed/picture windows, apply sealant inside the channel from where the bead was removed prior to re-installing the bead.*



- ▶ **2.9.** Insert the glazing wedge gasket between the glass unit and the glazing bead and cut to length.
- ▶ **3.0.** *For fixed/picture windows, apply sealant along each mitered corner where glazing beads meet.*

3. Finishing

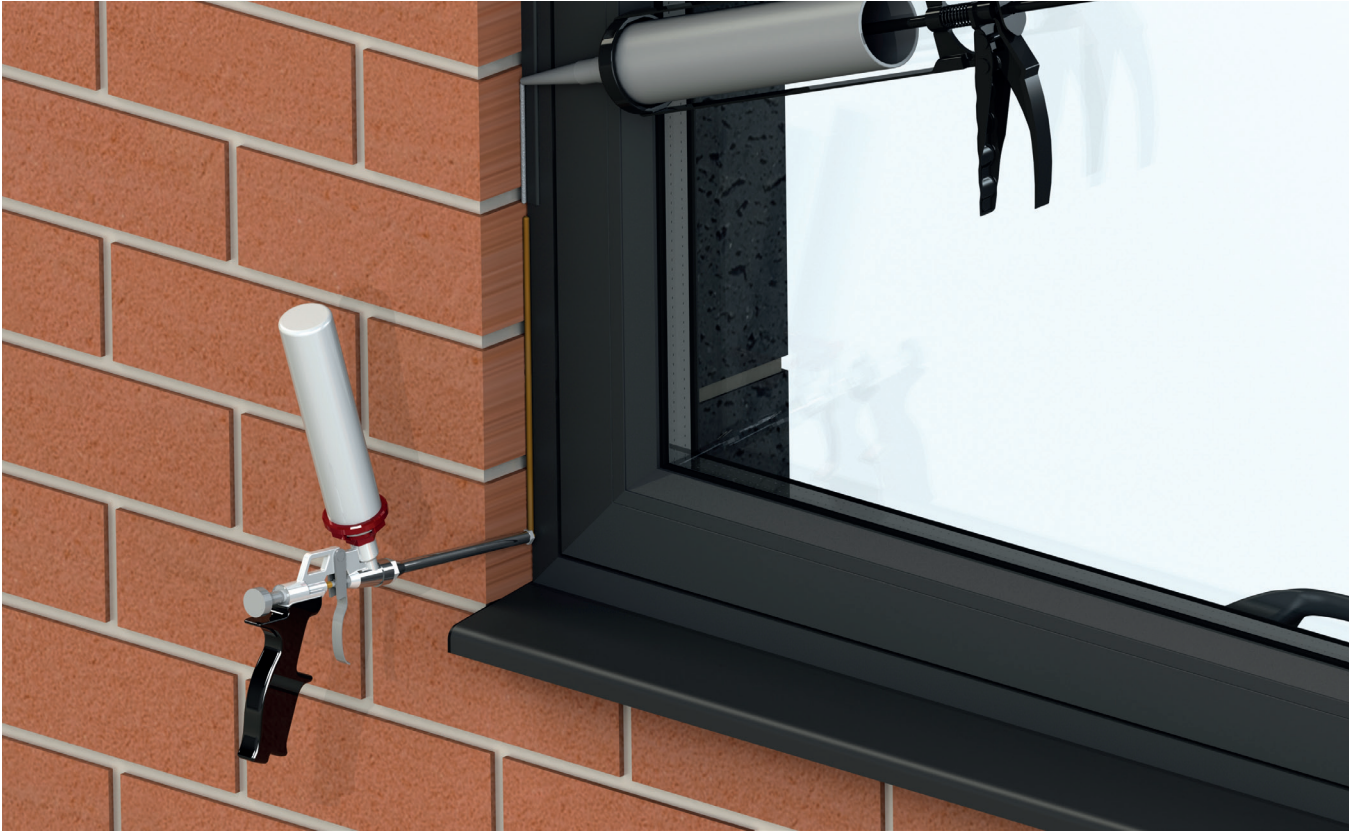


FIG 6

- ▶ **3.1.** Wherever practical, the perimeter of the window should be foam filled between the window and the substrate.
- ▶ **3.2.** Sealant must be applied around the outside perimeter of the window frame and opening /mull bar (if used). (Fig.6)

ORIGIN 6 CASEMENT/FIXED WINDOW – IMPACT RESISTANT

TABLE 1. DESIGN PRESSURE RATINGS

DESIGN PRESSURE RATING	IMPACT RATING
+55/-50 PSF	LARGE MISSILE WIND ZONE 3

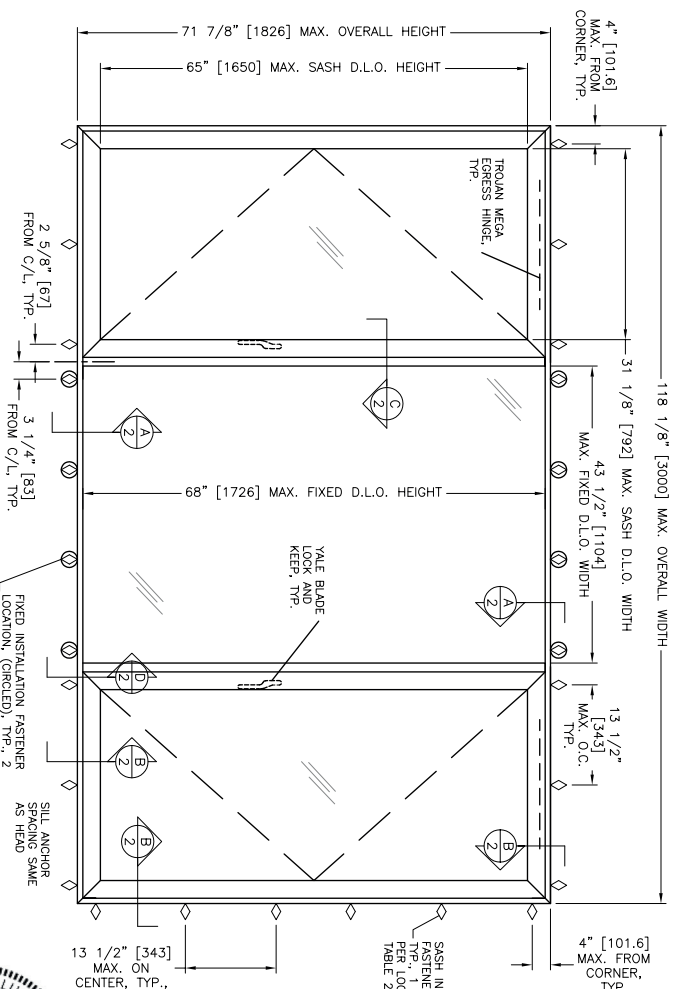


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ORIGIN USA INC.
771 COMMERCE DRIVE
SUITE 16
VENICE, FL 34292
Phone: 717-824-2259

ALUMINUM
CASEMENT/FIXED WINDOW
ORIGIN WINDOW 6
LM IMPACT WZ 3

DRAWN BY: LAT

DATE: 5/11/15

SCALE: NTS

REVISION:

REGION:

DRAWING # FPA-CA6-LM

SHEET DESCRIPTION NOTES, ELEVATION

SHEET 1 of 4



GENERAL NOTES

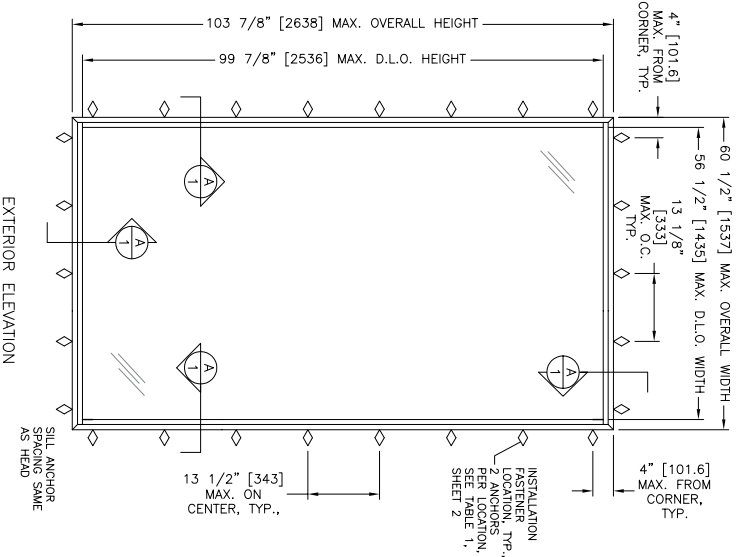
1. THIS PRODUCT FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE MISSILE IMPACT (WIND ZONE 3) RATED AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WIND ZONE 3 REGIONS.
2. THIS PRODUCT HAS BEEN TESTED TO AAMA/WMA/CSA 101/15.2/44-08/11, ASTM E 1886-05, AND ASTM E 1996-12, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2010 EDITION AS WELL AS 5TH EDITION (2014), NOT INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
3. ALLOWABLE CORRELATIONS, X (SINCE TESTED 58° F MAX. OVERALL WIDTH), X (SINCE TESTED 58° F MAX. OVERALL HEIGHT), X (SINCE TESTED 58° F MAX. OVERALL DIAGONAL).
4. ALLOWABLE CORRELATIONS, X (SINCE TESTED 58° F MAX. OVERALL WIDTH), X (SINCE TESTED 58° F MAX. OVERALL HEIGHT), X (SINCE TESTED 58° F MAX. OVERALL DIAGONAL).
5. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
6. INSTALLATION OF 1X OR 2X WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE DETAIL DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS MUST BE VERIFIED BY OTHERS.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC CHAPTER 20 TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
8. SEALING & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INfiltration RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND IS NOT ADDRESSED BY THIS DOCUMENT.

EXTERIOR ELEVATION

5/11/2015

LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING & CONSULTING, INC.
(COA # 29779)
1239 JABARA AVE.
NORTH PORT, FL 34288
PH. 941-380-1574

ORIGIN FIXED WINDOW 6, LARGE MISSILE IMPACT



DESIGN PRESSURE RATING	IMPACT RATING
+/- 55 PSF	LARGE AND SMALL MISSILE IMPACT

DETAIL A. TYPICAL SECTION HEAD, SILL, JAMB

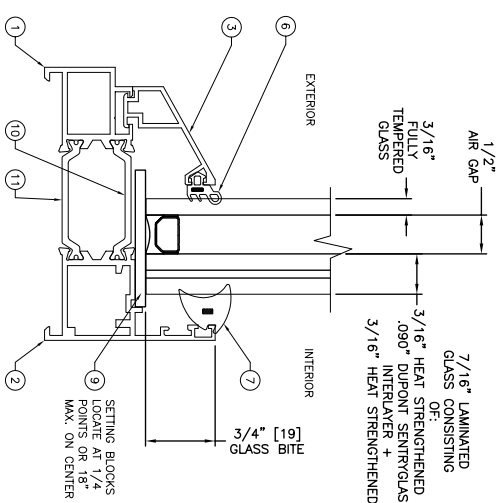


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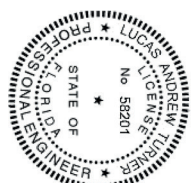
SHEET	DESCRIPTION
1	ELEV. SECT. W/ GLAZING DET.
2	ROOM, JOINTS, PART DRAWINGS



ORIGIN USA INC.
771 COMMERCE DRIVE
SUITE 16
VENICE, FL 34292
Phone: 717-824-2259

ALUMINUM FIXED WINDOW
ORIGIN WINDOW 6
Non-Impact

DATE:	4/18/15
SCALE:	NTS
REVISION:	



LUCAS A.
TURNER
2015-04-27
18:46-04:00

- GENERAL NOTES**
- THIS PRODUCT WAS FABRICATED AND ANCHORED AS DETAIL IN THIS DRAWING. IS LARGE AND SMALL MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS).
 - THIS PRODUCT HAS BEEN TESTED TO TAS 201-94, TAS 202-94, AND TAS 203-94, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2010 EDITION AS WELL AS 5TH EDITION (2014).
 - ALLOWABLE CONFIGURATIONS: 0. PICTURE WINDOW
 - THE 4/23 ALLOWABLE PRESSURE INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANALYSIS FOR THIS SYSTEM. THE 1.6 CD FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
 - INSTALLATION OF 1X OR 2X WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BLOCKING, OPENINGS, & BLOCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS MUST BE VERIFIED BY OTHERS. THE FASTENERS MUST BE COATED OR OTHERWISE PROTECTED PER FBC CHAPTER 20 TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
 - ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
 - SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND IS NOT ADDRESSED BY THIS DOCUMENT.

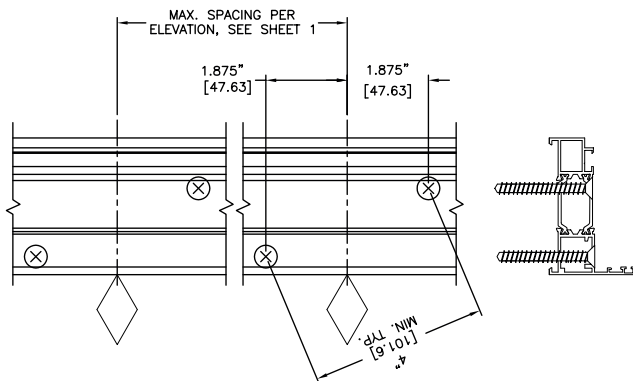
4/23/2015
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PH. 941-380-1574

DRAWING #	FPA-PW6
SHEET DESCRIPTION	NOTES, ELEVATION, SECTION
SHEET	1 OF 3

TYPICAL INSTALLATION, HEAD, SILL AND JAMB

GENERAL ANCHOR NOTES:

1. INSTALL TWO ANCHORS IN STAGGERED PATTERN AS SHOWN ABOVE AT EACH LOCATION
2. ANCHORS SHALL BE EPOXY SET INTO EXISTING CONCRETE OR PENETRATION. USE ANCHORS APPROPRIATE FOR SUBSTRATE TYPE (SEE TABLE 1).
3. INSTALL SHIMS AT EACH ANCHOR LOCATION WITH A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
4. ANCHORS SHALL BE SET INTO A MINIMUM 4" DEEP DRILL HOLE IN EXISTING CONCRETE OR SUBSTRATE.
5. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE LONG ENOUGH TO BE FULLY DEVELOPED.
6. FOR INSTALLATION TO METAL SUBSTRATES, ANCHORS SHALL BE LONG ENOUGH TO BE FLUSH THROUGH THE METAL THICKNESS WITH AN ADDITIONAL 3/16" MIN. OF THREADS.
7. A MINIMUM CENTER-TO-CENTER SPACING OF 4" SHALL BE MAINTAINED BETWEEN ALL CONCRETE OR CMU ANCHORS IN ANY DIRECTION. CONCRETE/MASONRY SUBSTRATES SHALL NOT BE CRACKED.



ANCHOR STAGGER PATTERN

4/23/2015
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Notes

Notes



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