

# UniVent 1350 INSTALLATION MANUAL

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- 1. These instructions cover typical product application, fabrication, installation and standard conditions and are general in nature. They provide useful guidelines, but the final shop drawings may include additional details specific to the project. Any conflict or discrepancies must be clarified prior to execution.
- Materials stored at the job site must be kept in a safe place protected from possible damage by other trades. Stack with adequate separation so materials will not rub together and store off the ground. Cardboard or paper wrapped materials must be kept dry. Check arriving materials for quantity and keep a record of where various materials are stored.
- 3. All field welding must be done in accordance with CSA guidelines. All aluminum and glass should be shielded from field welding to avoid damage from weld splatter. Results will be unsightly and may be structurally unsound. Advise general contractor and other trades accordingly.
- 4. Coordinate protection of installed work with general contractor and/or other trades.
- 5. Coordinate sequence of other trades which affect framing installation with the general contractor (e.g. fire proofing , back up walls, partitions, ceilings, mechanical ducts, HVAC, etc.).
- 6. General contractor should furnish and guarantee bench marks, off set lines and opening dimensions. These items should be checked for accuracy before proceeding with erection. Make certain that all adjacent substrate construction is in accordance with the contract documents and/or approved shop drawings. If not, notify the general contractor in writing before proceeding with installation because this could constitute acceptance of adjacent substrate construction by others.
- 7. Isolate all aluminum to be placed directly in contact with masonry or other incompatible materials with a heavy coat of zinc chromate or bituminous paint. Fasteners attaching framing to building structure are typically not provided by Tubelite, nor specified in these instructions due to varying perimeter conditions and job performance requirements. Consult approved shop drawings.
- 8. Sealant selection is the responsibility of the erector, installer and/or glazing contractor and must be approved by the sealant manufacturer with regard to application and compatibility for its intended use. All sealants must be used in strict accordance with the manufacturer's instructions and applied only by trained personnel to surfaces that have been properly prepared.
- 9. Sealant must be compatible with all materials with which they have contact, including other sealant surfaces. Consult the sealant manufacturer for recommendations relative to shelf life, compatibility, cleaning of substrate, priming, tooling adhesion, etc. Recommend sealant manufacturer perform adhesion "pull test" at "wet" glazing for quality assurance.
- 10. Drainage gutters and weep holes must be kept clean at all times. Tubelite will not accept responsibility for improper drainage as a result of clogged gutters and weep holes.
- 11. All framing members, entrances and other materials are to be installed plumb, level and true with regard to established bench marks, column center lines or other working points established by the general contractor and checked by the erector, installer and/or glazing contractor.
- 12. Cleaning of exposed aluminum surfaces should be done per FGIA recommendations.
- 13. Due to varying perimeter conditions and job performance requirements, anchor fasteners are not specified in these instructions. For anchor fastening, refer to the shop drawings or consult the fastener supplier.
- 14. Codes governing the design and use of products vary widely. Tubelite does not control the selection of products conFIGurations, operating hardware, or glazing materials, and assumes no responsibility for these considerations. It is the responsibility of the owner, specifier, architect, general contractor and the installer to make these selections in strict conformance with all applicable codes.
- 15. Check weblink below for any installation instruction updates
- 16.[] Dimensions in brackets are in [mm] millimeters

Installation Manual

#### **1350 PO AWNING INFORMATION**

DUAL GLAZED

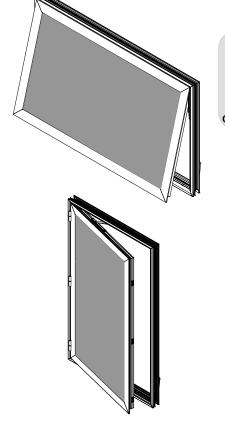
#### ROTO-MPL

\*MIN DIMENSIONS 21" x 18" [533 x 457] \*MAX DIMENSIONS 38" x 80" [965 x 2032] or 60" x 50" [1524 x 1270] or max. 21 ft<sup>2</sup> [ 1.95 m<sup>2</sup>] SCREEN OPTIONAL MAX OPENING 2 1/4" < 32" [57 < 813] 7 1/2" > 32" [191 > 813] LIMITED OPENING \*\*OPTION @ 4" [102] CUSTODIAL HANDLE **OPTIONAL** 

\*Based on (DLO) dimensions
[ ] Dimensions in brackets are in [mm] millimeters

\*MIN DIMENSIONS 16" x 16" [406 x 406] \*MAX DIMENSIONS 60" x 36" [1524 x 914] SCREEN OPTIONAL with WICKET MAX OPENING VARIES LIMITED OPENING OPTION @ 4" [102] CUSTODIAL HANDLE N/A

**CAM HANDLES** 



#### **1350 PO CASEMENT INFORMATION** DUAL GLAZED

#### **CAM HANDLES**

- \*MIN DIMENSIONS \*MAX DIMENSIONS SCREEN MAX OPENING EGRESS LIMITED OPENING CUSTODIAL LOCK
- \*\*16" x 16" [406 x 406] \*\*35" x 54" [889 x 1372] OPT. (wicket) 6"- 8" [152-203] OPTIONAL OPTION @ 4" N/A
  - \*MIN DIMENSIONS \*\*16 5/8" x 21" [422 x 533] \*MAX DIMENSIONS \*\*35" x 62" [889 x 1575] or

SCREEN MAX OPENING EGRESS LIMITED OPENING CUSTODIAL LOCK

27" x 80" [686 x 2032] OPTIONAL 6"-8" [152-203] OPTIONAL OPTION @ 4" [102] OPTIONAL

**ROTO-MPL** 

Based on (DLO) dimensions

\*\*Width/Height ratio exceeding 65% is not recommended

[ ] Dimensions in brackets are in [mm] millimeters

#### **1350 PI HOPPER INFORMATION**

DUAL GLAZED

	MPL	CAM HANDLES
*MIN DIMENSIONS	16" x 16" [406 x 406]	16" x 16" [406 x 406]
*MAX DIMENSIONS	60" x 36" [1524 x 914] or	48" x 36" [1219 x 914]
	36" x 54" [914 x 1372]	
SCREEN	STANDARD	STANDARD
MAX OPENING	VARIES	VARIES
EGRESS	NA	NA
LIMITED OPENING	STANDARD @ 4"	STANDARD @ 4"
CUSTODIAL HANDLE	STANDARD	N/A
*Deced on (DLO) dimensions		

\*Based on (DLO) dimensions

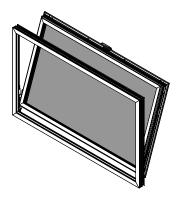
[ ] Dimensions in brackets are in [mm] millimeters

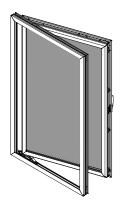
#### **1350 PI CASEMENT INFORMATION** DUAL GLAZED

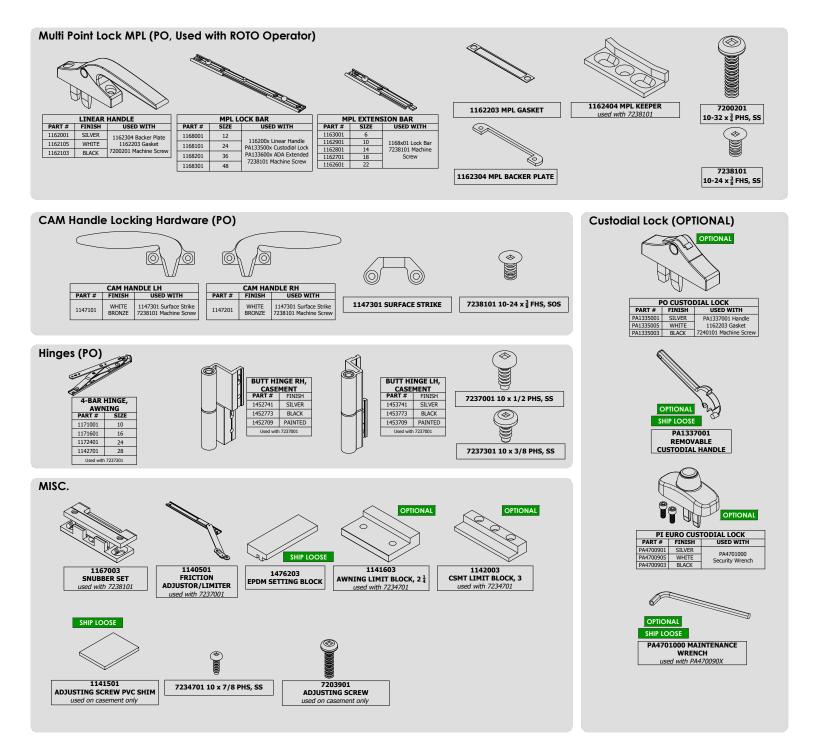
	MPL	CAM HANDLES
*MIN DIMENSIONS**	18" x 24" [457 x 607]	**18" x 24" [457 x 610]
*MAX DIMENSIONS**	35" x 80" [889 x 2032]	**32" x 54" [813 x 1372]
SCREEN	OPTIONAL	OPTIONAL
MAX OPENING	VARIES	VARIES
EGRESS	OPTIONAL	OPTIONAL
LIMITED OPENING	Optional @ 4"	OPTIONAL @ 4"
CUSTODIAL HANDLE	OPTIONAL	NA
*Based on (DLO) dimensions		

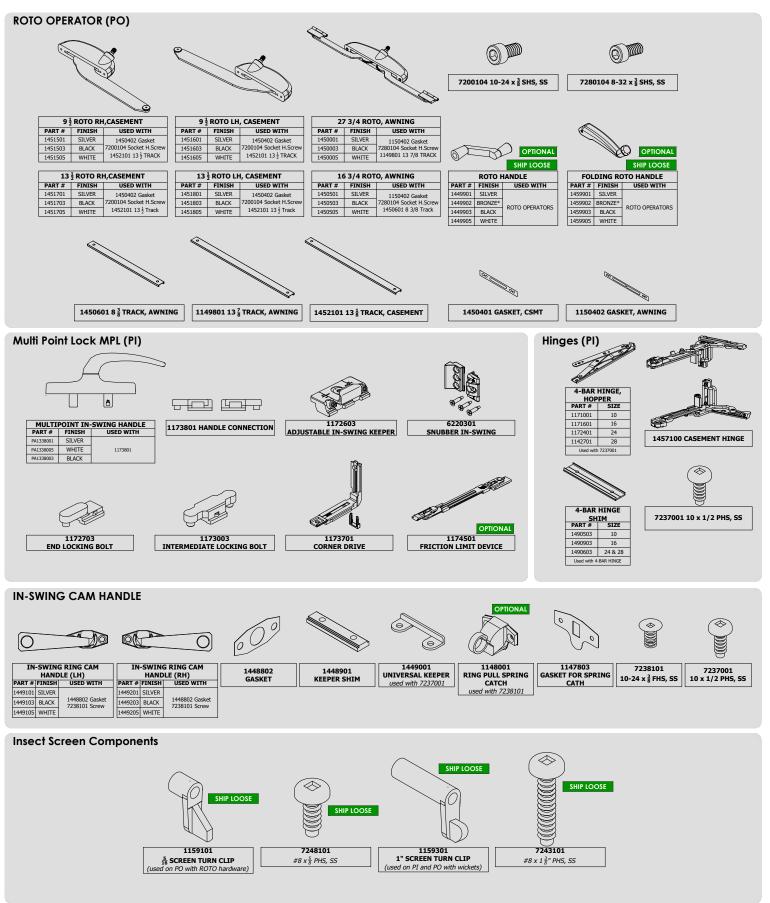
\*\*Width/Height ratio exceeding 65% is not recommended

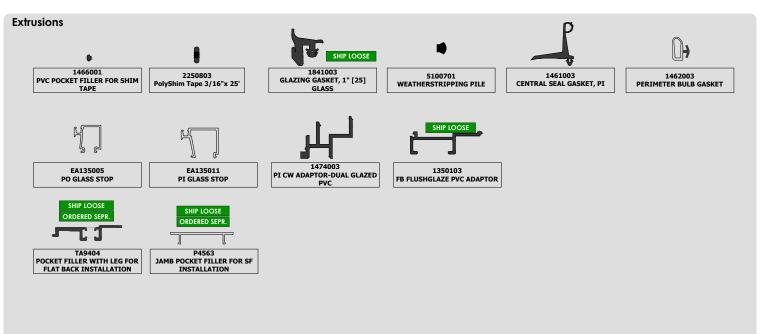
[ ] Dimensions in brackets are in [mm] millimeters





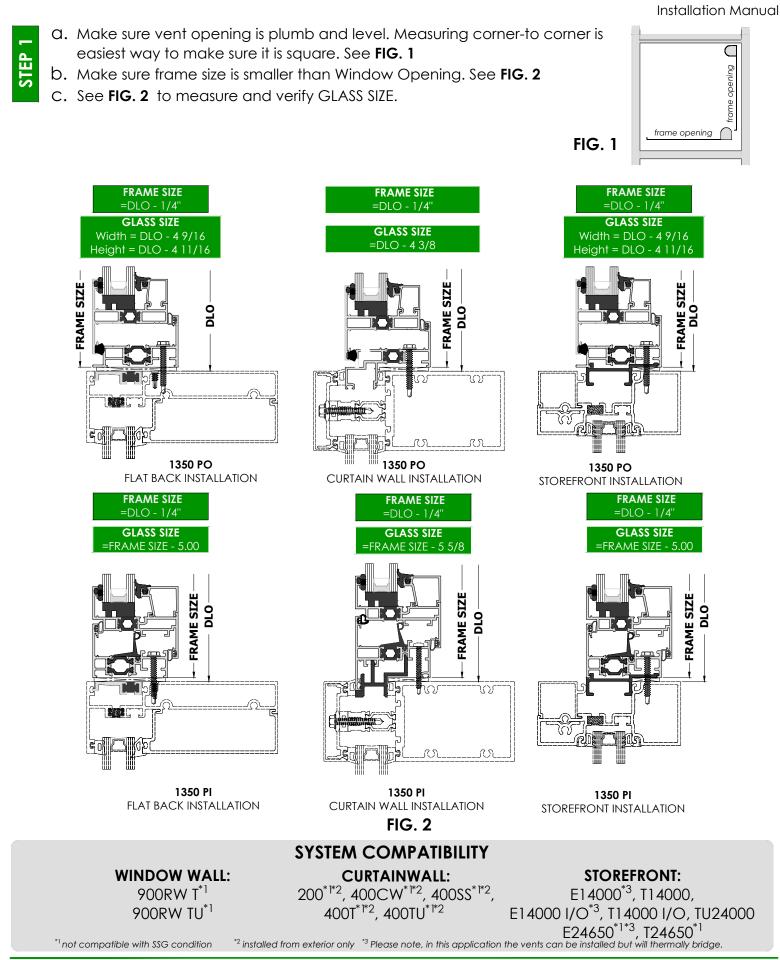






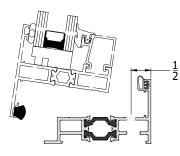
### Verify Frame Opening

### UniVent 1350CW

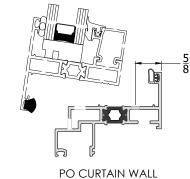


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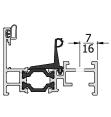
- a. Drill Ø.201[5] clearance holes for #10 Screws using #7 Drill bit for anchoring holes, as per recommended location, see **FIG. 1.**
- b. See **FIG. 2** for recommended spacing of clearance holes. Double check anchor size and location as per shop drawings.



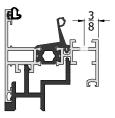
PO FLAT BACK INSTALLATION



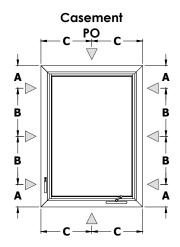
INSTALLATION

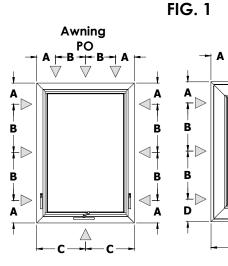


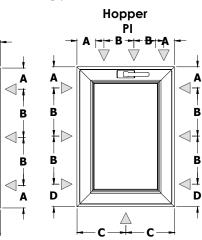
PI FLAT BACK INSTALLATION



PI CURTAIN WALL







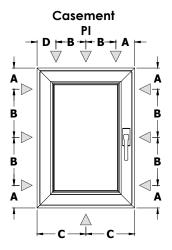


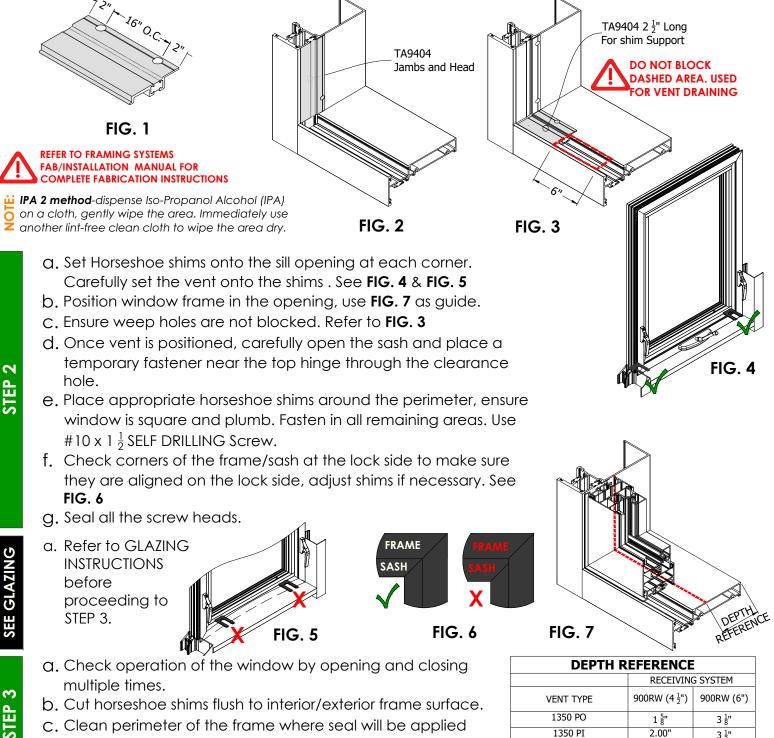
FIG. 2

A=5" [127] B= max 18" O.C [457] C= if Frame Width >36" [914]

STEP

Installation Manual

- a. Pre-drill and countersink TA9404 pocket filler for #10 FHS, 2" from each end and 16" O.C. using V-groove as reference. See FIG. 1
- b. Install continuous TA9404 Pocket Filler at both jambs and head using S444 fastener (#10 x  $\frac{1}{2}$ " FHS Self Drilling. See FIG. 2
- C. Install  $2\frac{1}{2}$  long TA9404 at sill from both sides tight against adjacent pocket filler. Fasten using one S444 screw in the center of the V-groove. Seal fasteners with sealant. See FIG. 3
- d. Add additional  $2\frac{1}{2}$  long TA9404 at the sill if the frame opening width is larger then 36".



- c. Clean perimeter of the frame where seal will be applied using IPA 2 METHOD.
- d. Apply Interior/Exterior seal around the frame and tool.

3 <sup>1</sup>/<sub>8</sub>"

3 ½"

1 <sup>5</sup>/<sub>8</sub>"

2.00'

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STEP

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### UniVent 1350CW

Installation Manual

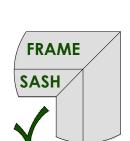
- a. Clean the around the corners of the frame using IPA2 METHOD.
- b. Apply a bed of sealant 2" [51] around each corner of the frame ensuring it comes in contact with the gasket. Apply a dab of sealant on the the gasket joints. See FIG. 1

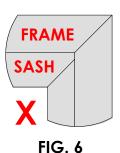
ii IPA 2 method-dispense Iso-Propanol Alcohol (IPA) on a cloth, gently wipe the area. Immediately use  $\mathbf{z}$  another lint-free clean cloth to wipe the area dry.



FIG. 1

- a. Clean exterior area of the vent where it will come in contact with the primary gasket using IPA 2 method
- b. Set Horseshoe shims onto the sill opening at each corner. Carefully set the vent onto the shims. See FIG. 2
- c. Push the vent in tight to the primary gasket seal. See FIG. 3
- d. Place temporary shims 1/4" [6] between sash and frame maintaining consistent gap. This will prevent bowing and shifting of the vent during pressure plate installation. See FIG. 4
- e. Install exterior pressure plates ensuring drainage slots are facing up. FIG. 5, ensure window remains square.
- f. For windows exceeding 36" [914] in height or width, place an anchoring screw. Refer to FIG. 4 on Page 6
- g. For casements windows, an additional fastener is needed beside the top hinge. Refer to FIG. 4 on Page 8
- h. Check sight line, adjust if necessary. See FIG. 6





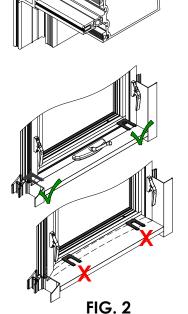
- a. Check operation of the window by opening and closing multiple times.
- b. Cut horseshoe shims flush to interior/exterior frame surface.

FIG. 4

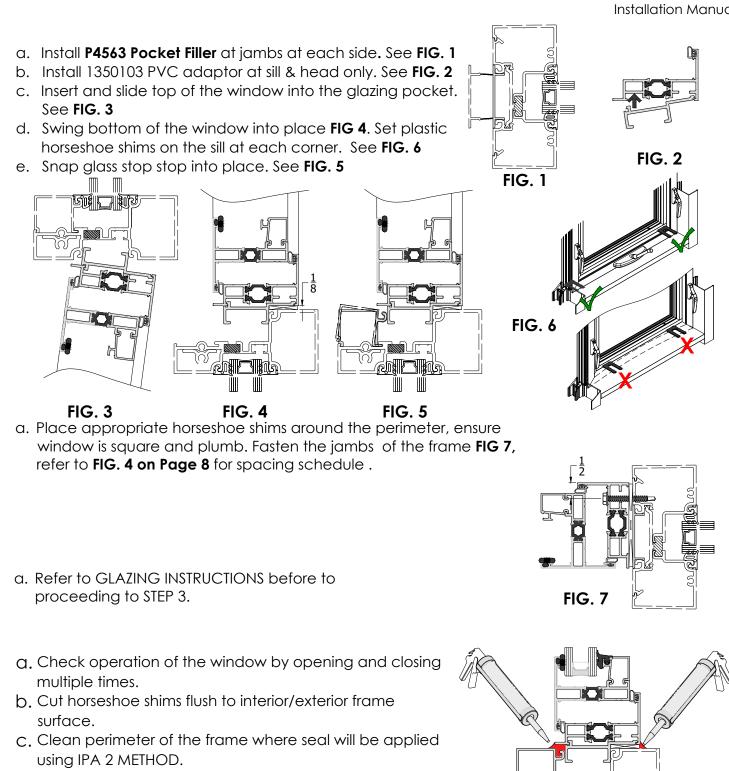
- c. Clean perimeter of the frame where seal will be applied using IPA 2 METHOD.
- d. Apply Interior/Exterior seal around the frame and tool.
- e. Seal all the screw heads.

FIG. 3

FIG. 5



Installation Manual



- d. Apply Interior/Exterior seal around the frame and tool. See FIG. 8
- e. Seal all the screw heads.

STEP

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STEP

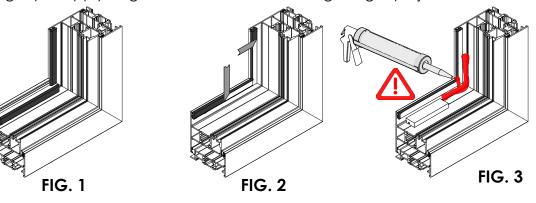
FIG. 8

#### Glazing

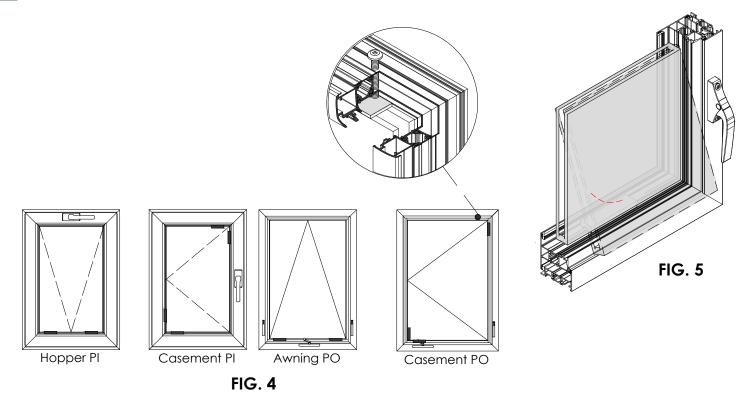
STEP

### UniVent 1350CW

- Installation Manual
- a. Carefully remove glass stops around the interior perimeter of the sash.
- b. Clean the exterior glazing leg by using IPA 2 wipe method. Apply 1/8" PolySHIM tape ensuring it is not loose or wavy. Ensure that the corners of the tape do not overlap. See FIG. 1
- c. Peel back the adhesive backing from the glazing tape.
- d. Apply a bed of sealant 2" [51] around each corner of the sash ensuring it comes in contact with glazing tape. Apply a light bead of sealant to the glazing tape joint.



- a. Inspect glass unit for any sealant overlap, clean as necessary. Using IPA2 method clean 2" [51] of interior/exterior glass surface all around the perimeter.
- b. Place setting blocks at each corner, approximately 4"-6" [102-152] from the corner. Dab of sealant can be used to hold it in place. See **FIG. 4**
- c. Carefully slide the glass into glazing pocket at the top, set the glass onto the Setting Blocks and center the glass into the sash opening. See **FIG. 5**
- d. Ensure sight lines are even on all sides, sash must be square.
- e. Place PVC shim used for Adjusting Screw for Casement Out-swing only. Adjust screw to be snug. See **FIG. 4** (comes pre-installed)

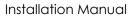


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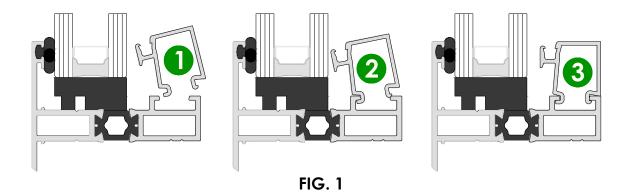
3

STEP

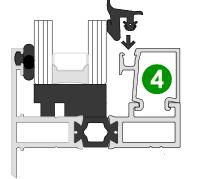
STEP 4

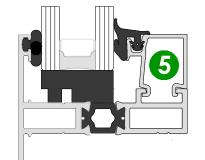


- a. Using a mallet hammer install glass stops, starting with horizontals. See FIG. 1
- b. Repeat same step for vertical glass stops.



c. Insert glazing gasket starting from one end, repeat this every 16" [406]. Ensure opposite end of the gasket is inserted before rolling remaining gasket. See FIG. 2
 d.





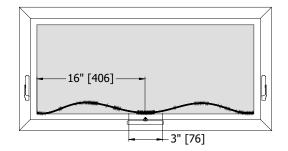
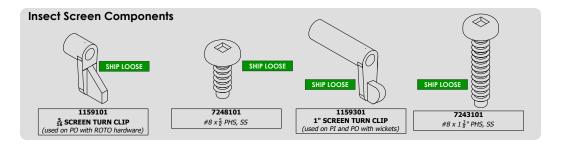


FIG. 2

Installation Manual

a.	Install supplied screen clips & fasteners on all the pre-drilled pilot holes. See <b>FIG. 1</b>	SCREEN CLIP SCHEDULE		
h	Ensure screen clip is snug and free to rotate.		Screen	WIDTH
	Insert supplied screen frame in between the screen clips.	Screen HEIGHT	W<48"	W>48"
	See FIG. 2	H<48"	4x	6x
d.	Rotate screen clips to lock the screen frame in place.	H>48"	6x	8x
	See FIG. 3			

FIG. 1 FIG. 1 FIG. 2 FIG. 3



#### Hardware Adjustments

# UniVent 1350CW

