INSTALLATION INSTRUCTION 300 tilt'n turn window & 301 tilt'n turn door

A GOOD INSTALLATION ENSURES LASTING WINDOW PERFORMANCE.

BUILDING CODES, ENVIRONMENTAL CONDITIONS, APPROVED SHOP DRAWINGS MAY VARY & SUPERSEDE THE PROCEDURES CONTAINED BELOW. THE RESPONSIBILITY FOR COMPLIANCE IS THE PROJECT'S OWNER(S), INSTALLERS, ARCHITECT, INSPECTORS, & BUILDING SCIENTISTS.

HANDLE CAREFULLY

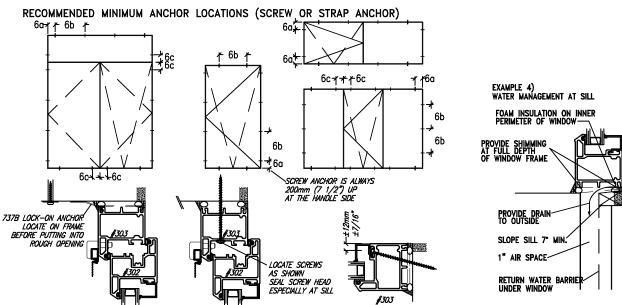
Toronto, Ontario M9W 1K1

- STORE WITH NON-ABRASIVE SEPARATORS BETWEEN FRAMES. WINDOWS SHOULD BE STORED IN A
 PLACE PROTECTED FROM WEATHER.
- 3. ALTERATIONS WINDOWS SHOULD NOT BE LOAD BEARING AFTER INSTALLATION.
 WINDOWS SHOULD NOT BE MODIFIED TO ACCOMMODATE AIR CONDITIONERS, EXHAUST FANS, ETC.
- 4. R.O. PRODUCT WAS DEVELOPED & TESTED IN A WINDOW WALL INTERFACE SYSTEM DESIGNED TO MANAGE WATER. SEE BRICK VENEER SILL EXAMPLE 4) BELOW FOR LOW TO MODERATE DESIGN PRESSURE REQUIREMENTS.
- 5. ANCHORAGE WINDOW FRAMES SHOULD BE SET PLUMB, SQUARE, SHIMMED AND SECURED TO SURROUNDING STRUCTURE. WINDOW ANCHORAGE MUST BE SUFFICIENT TO MEET STRUCTURAL REQUIREMENTS OF LOCAL BUILDING CODES. ALLOW AT LEAST 6mm (+1/4")SPACE BETWEEN THE FRAME AND ROUGH OPENING FOR SHIMMING AND ADJUSTMENT. ALWAYS ADJUST ANCHOR POSITION, SHIMMING THICKNESS TO MAINTAIN STRAIGHT AND PARALLEL LINES BETWEEN SASH AND FRAME. ENSURE ADEQUATE AND LEVEL SUPPORT OF THE SILL.
 - *ANCHORING METHOD FOR SINGLE OPERATOR a) SET WINDOW/DOOR LEVEL IN SUBSTRATE, b) ANCHOR WINDOW/DOOR IN TWO OPPOSITE OR DIAGONAL CORNERS, c) OPEN SASH SMALL DISTANCE FROM FRAME, d) MOVE UNANCHORED CORNERS OF WINDOW /DOOR INWARD OR OUTWARD UNTIL GAP BETWEEN SASH & FRAME IS EQUIDISTANT ON OPENING EDGE, e) APPLY ANCHORS IN REMAINING CORNERS. f) MEASURE FRAME DIAGONALS TO CHECK FOR SQUARENESS g) CLOSE WINDOW/DOOR & CHECK THAT LOCK ENGAGES EASILY, h) APPLY REST OF ANCHOR AS PER RECOMMENDED ANCHOR LOCATIONS.

SHIMS REQUIRED TO SUPPORT INTERIOR & EXTERIOR OF WINDOW FRAME AT ALL ANCHORS & ESPECIALLY AT SILL.

- 6a. CORNER ANCHORS SECURE WITHIN 100mm (4") FROM THE CORNERS.
- NOTE:1) IF ANCHORAGE IS PROVIDED BY DIRECT FASTENING USE WASHER TYPE OF FASTENERS, FULLY SUPPORT FRAME
- 6b. PERIMETER ANCHORS SPACING SHOULD NOT EXCEED 450mm (18") ON CENTER.
 - AT FASTENER LOCATION.

 MULLION AND TRANSOM ANCHORS ALWAYS ANCHOR WITHIN 100mm (4") FROM MULLION OR 2) SEAL ALL FASTENER PENETRATIONS THROUGH WINDOW SILL TRANSOM (IT IS ALWAYS A CRITICAL AREA FOR ANCHORAGE).
- 7. PERIMETER CAVITIES BETWEEN WINDOW FRAMES AND ROUGH OPENING (R.O.) SHOULD BE FILLED WITH LOOSE INSULATION OR LOW EXPANSION FOAM. DO NOT DISTORT FRAME BY OVER PACKING. NOTE THAT AN INSULATED CAVITY IMPROVES THERMAL PERFORMANCE.
- CAULK THE EXTERIOR PERIMETER TO PROVIDE SEAL BETWEEN WALL AND RAIN SCREEN TO ENSURE CONTINUITY OF WEATHER TIGHTNESS.
- 9. CAULK AND/OR TAPE THE INTERIOR PERIMETER TO PROMOTE CONTINUITY OF AIR BARRIER TO MINIMIZE RISK OF CONDENSATION WITHIN THE CAVITY & TO MEET TESTED AIR & WATER RESISTANCE LEVELS.
- DOOR FRAME TO BE MOUNTED FLUSH TO INTERIOR WALL SEE #303 BELOW (EXTERIOR ALUM. EXTENSORS AND BRICKMOULD AVAILABLE FOR FINISHING OF OUTSIDE SUBSTRATE).
- 11. WHERE FLUSH MOUNTING TO INTERIOR WALL IS NOT POSSIBLE: INTERIOR (ON OR OFF SYSTEM WINDOW & DOOR) STOPS MUST BE USED TO PREVENT DOOR OR WINDOW SASH FROM COMING IN CONTACT WITH INTERIOR EDGE OF ROUGH OPENING. CAUTION HARDWARE CAN BE DAMAGED IF ON OPENING, SASH COMES IN CONTACT WITH INTERIOR JAMB.
- 12. MAINTANANCE WASH GLASS & FRAME WITH NON-ABRASIVE CLEANER & WATER. LUBRICATE WITH ONLY SILICONE LUBRICANT SPRAY HARDWARE & ALL WEATHERSTRIP EVERY SIX MONTHS MIN. TO MAINTAIN EASE OF OPERATION.



ITEM. QTY. DWG.NO./CAT.NO. DESCRIPTION **MATERIAL** SHEET 1/2 DR. BY. G.R. REVISION Apr. 06 DATE DATE INSTALLATION INSTRUCTION INLINE Mar.07 SCALE 300 TILT'N TURN WINDOW FIBERGLASS & 301 TILT'N TURN DOOR 301-000 30 Constellation Court



THERMAL PERFORMANCE VALUES 301 SERIES > TILT N TURN DOOR(see notes at end)

OPERABLE	U Value	SHGC	Vt	ER
Dual Pane - Low-E / Hard Coat	0.30	0.45	0.47	
Dual Pane - Low-E / Soft Coat	0.28	0.26	0.45	
Dual Pane - Low-E 366	0.27	0.18	0.41	
Triple Pane - Low-E / Hard Coat x 2	0.22	0.35	0.39	
Triple Pane - Low-E / Soft Coat x 2	0.20	0.23	0.36	
Super Quad	0.17	0.19	0.25	

Note: All values have been verified by the NFRC and Energy Star Canada. The reader is cautioned that test results should be used for comparison purposes only. Results are size and installation dependent.

For recommendations as to what glazing configurations are best suited for your application, please feel free to contact us.

For a full listing of thermal performance values, visit www.NFRC.org. All information can be found in the "Certified Products Directory". Please feel free to contact us if any assistance is required.

INLINE also complies with all North American Energy Star zoning requirements.





301 SERIES TILT & TURN DOORS

TEST REPORT SUMMARY

Compliance to AAMA/ 101/1.S.2 CSA A440

TEST SIZE	914mm x 2114mm		
	36" x 83 1/4"		

TYPE	TEST	REQUIREMENTS		RESULTS	GRADE	
		TEST METHOD	TEST PRESSURE	RESULIS	AAMA	CSA
Air D Tightness		ASTM E 283	@ 75 Pa (1.57 psf)	+/- 0.39 CFM/h/ft ²	A3	A3
	Air			+/- 0.71 m ³ /h/m ²		AS
	ASTIVIE 203	@ 300 pa (6.24 psf)	1.5 m ³ /h/m ²	PASS	PASS	
0			© 300 pa (0.24 psi)	0.83 CFM/ft ²	F A33	7
0	Water	ASTM E 547	@ 720 Pa (15 psf)	No Leakage	DP 100	B7
R	Tightness	ASTIVIL 541	@ 720 Fa (15 psi)	No Leakage	DF 100	ים
	Wind Load	ASTM 330	@ 3600 pa (75 psf)	No Deformation	DP 50	C3
	Resistance	A0 11VI 330	© 3000 pa (73 psi)	No Delomation	טנ וט	3

Series 301 tilt & turn door is rated DA-HGD-50, Design Pressure 50 psf @ test pressure 275 kph (171 mph).

ENERGY RATINGS

The Thermal Performance Values. Shown below, are based on doors glazed with 7/8" (22mm) overall thickness insulating glass units comprising one lite of Low-E glass, an argon filled cavity, and a double sealed aluminum spacer.

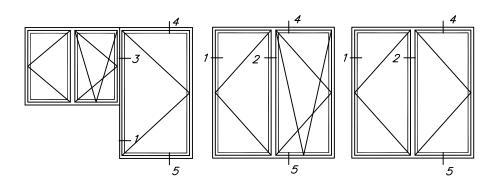
Higher performance may be achieved by using various glass coatings, inert gasses, and/or warm edge spacers.

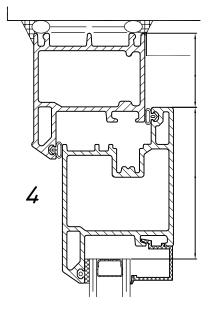
	CSA A440.2	NFRC 100
PERFORMANCE	72" x 82"	72" x 82"
U-Value Frame	2.75 W/m ² /c	0.45 btu/h/ft²/F
U-Value Door	2.10 W/m ² /c	0.37 btu/h/ft²/F
SHGC - No Grill	0.44	0.44
SHGC - With Grill	0.40	0.40
VLT - No Grill	0.48	0.48
VLT - With Grill	0.43	0.43

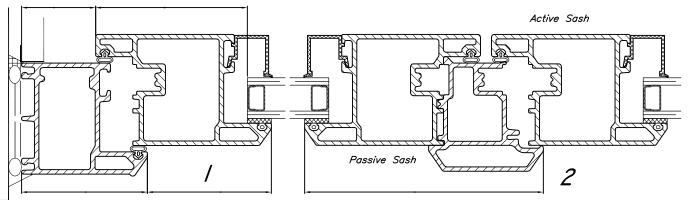
Note: The reader is cautioned that test results should be used for comparison purposes only. Results are size and installation dependent. In-Service performance can be significantly different from those shown. Product tested indicates design potential.

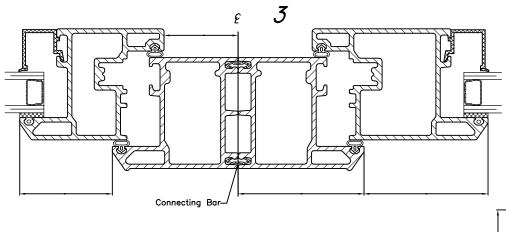


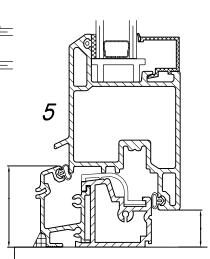
SERIES 301 TILT'N TURN DOOR











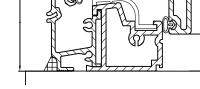












22mm(DOUBLE GLASS) GLASS STOP(PVC)

5.08mm F.C. 4.06mm F.C. 3.04mm F.C. GLAZING WEDGE(NEOPRENE)

35mm(TRIPLE GLASS) GLAZING STOP(ALUMINUM)

IN-SWINGING TILTN' TURN DOOR ASSEMBLY

PRODUCT

Shall be 301 Series, In-swinging, Tilt' N Turn Door Assemblies, as manufactured by Inline Fiberglass Limited. Frames are 60 mm (2-3/8") deep and in compliance with AAMA 101/1.S.2/, Design Pressure 50 rating: DA HGD (R-50) and CSA-A440 rating A3, B7, C3.

MATERIAL

All Frame and sash profiles are made from pultruded fiberglass, having a nominal wall thickness of 2.5mm (0.100") with minimum glass content of 60%. Non-structural accessory members are permitted to be vinyl or aluminum and identified as such.

CONSTRUCTION

Frame and sash corners are connected with molded reinforced polymer shearblocks and mechanically secured. Joints are factory sealed and neatly fitted together.

FINISH

All exposed surfaces are coated with durable acrylic urethane top coat with a medium gloss of 17-35. In compliance with AAMA-613. Available in five standard colours. Unlimited custom colours, including split finish.

HARDWARE

Full range of in-swing and Tilt N' Turn fittings (as manufactured by SIEGENIA) comprising interior butt hinges, single operating handle options and universal interlocked components with lock spacing adaptable to sash size.

WEATHER-STRIPPING

Santoprene Bulb-type gasket on interior and exterior with pressure equalizing gap at the exterior header.

GLASS

All windows are glazed with [22 mm (7/8")], [25.4mm (1")], [35mm (1 3/8")], [38mm (1 ½")] insulating glass units. Glass thickness shall be in accordance with applicable Building Codes, but not less than 3mm (1/8"). Inline recommends the use of double-sealed insulating glass units certified by IGMAC or SIGMA. The full range of glazing options available include: colonial grilles, low conductivity spacers, inert gas fills, and glazings to reduce heat loss, solar heat gain and visible light transmission.

GLAZING METHOD

Laid-in glazing using polyethylene closed cell adhesive tape on the exterior and an Aluminum glass stop locked-in from the interior provides a secure and positive seal for the glass.

INSTALLATION

Shall be performed by experienced installers in accordance with manufacturer's instructions and CSA_A440.4. Window shall be plumb and square after installation is complete and sealed to both interior and exterior walls with a high quality sealant around the perimeter of the frame. If perimeter cavity is to be foamed, additional anchorage may be required to prevent bowing. It shall be the responsibility of the installers to make all necessary final adjustments to ensure normal and smooth operation.

MAINTENANCE

To maintain performance and ease of operation, clean glass, frames and fly screen, vacuum weather stripping and sill, lubricate hardware and weather-stripping with only silicone spray, a minimum of every six months.

• Due to constant product improvements, Inline reserves the right to change information herein without notice.

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