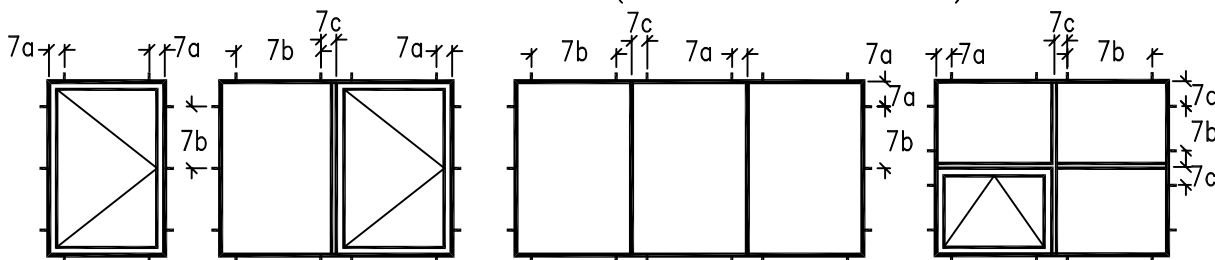


WINDOW INSTALLATION INSTRUCTION

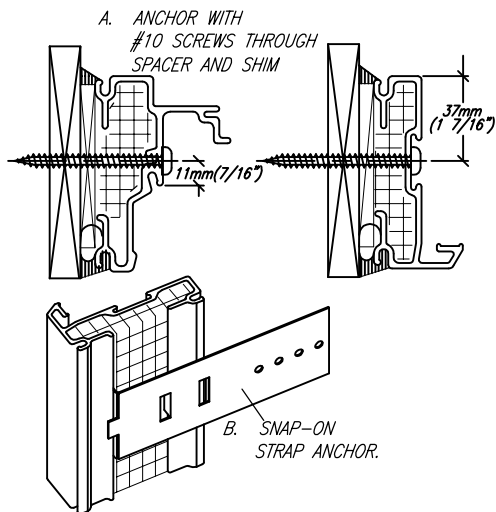
A GOOD INSTALLATION ENSURES LASTING WINDOW PERFORMANCE.

1. HANDLE CAREFULLY
2. 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. PERIMETER CAVITIES – BETWEEN WINDOW FRAMES AND ROUGH OPENING (R.O.) SHOULD BE FILLED WITH LOOSE INSULATION OR EXPANDING FOAM. DO NOT DISTORT FRAME BY OVER PACKING. NOTE THAT A WELL FILLED CAVITY IMPROVES THERMAL PERFORMANCE.
5. CAULKING OF EXTERIOR PERIMETER – SHOULD PROVIDE SEAL BETWEEN WALL AND WINDOW TO ENSURE CONTINUITY OF WEATHER TIGHTNESS. (AIR BARRIER)
6. CAULKING AND/OR TAPING OF INTERIOR PERIMETER – SHOULD PROMOTE CONTINUITY OF VAPOR BARRIER TO MINIMIZE RISK OF CONDENSATION WITHIN THE CAVITY & TO ENSURE MEETING ADVERTISED WATER & AIR RESISTANCE
7. 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 ABOUT 6mm ($\pm 1/4$ ")SPACE BETWEEN THE FRAME AND ROUGH OPENING FOR SHIMMING AND ADJUSTMENT. ALWAYS ADJUST SHIMMING THICKNESS TO MAINTAIN STRAIGHT AND PARALLEL LINES BETWEEN SASH AND FRAME. ENSURE ADEQUATE AND LEVEL SUPPORT OF THE SILL.
- 7a. CORNER ANCHORS – SECURE WITHIN 100mm (4") FROM THE CORNERS.
- 7b. PERIMETER ANCHORS – SPACING SHOULD NOT EXCEED 450mm (18") ON CENTER.
- 7c. MULLION AND TRANSOM ANCHORS – ALWAYS ANCHOR WITHIN 100mm (4") FROM MULLION OR TRANSOM (IT IS ALWAYS A CRITICAL AREA FOR ANCHORAGE).
NOTE: 1) IF ANCHORAGE IS PROVIDED BY DIRECT FASTENING, USE WASHER TYPE OF FASTENERS. FULLY SUPPORT FRAME AT FASTENER LOCATION.
2) SEAL ALL FASTENER PENETRATIONS THROUGH WINDOW SILL.
8. MAINTAIN WINDOWS BY OCCASIONAL WASHING OF GLASS AND FRAME WITH A NON-ABRASIVE DETERGENT.

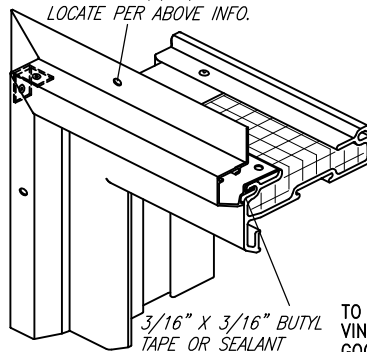
RECOMMENDED ANCHOR LOCATIONS (SCREW OR STRAP ANCHOR)



METHODS OF ANCHORAGE:



C. BRICK MOULD
DRILL 6mm (1/4") ANCHOR HOLES
LOCATE PER ABOVE INFO.



TO CONNECT FRAMES ON JOB SITE USING VINYL COUPLER. CAULK GROOVES WITH GOOD QUALITY CAULK. TAP COUPLER INTO GROOVES. CLEAN EXCESS CAULKING.

TO APPLY NAIL FIN:
ADD CORNER ANGLES
ADD PERIMETER SEAL. SEAL
CORNERS AND ATTACH WITH
FASTENERS 450mm(18") ON CENTER.

ITEM.	QTY.	DWG.NO./CAT.NO.	DESCRIPTION	MATERIAL	
<p>INLINE FIBERGLASS</p> <p>30 Constellation Court Toronto, Ontario M9W 1K1</p>			SHEET 1/1	DR. BY.	R.N.
			NO. REVISION DATE	DATE	Nov.97
			1. K.C. Mar.07	SCALE	
			WINDOW INSTALLATION INSTRUCTION	325-000	



THERMAL PERFORMANCE VALUES

325 SERIES > CASEMENT / AWNING / FIXED(see notes at end)

CASEMENT	U Value	SHGC	Vt	ER
Dual Pane - Low-E / Hard Coat	0.31	0.50	0.51	30
Dual Pane - Low-E / Soft Coat	0.29	0.29	0.49	21
Dual Pane - Low-E 366	0.28	0.19	0.44	16
Triple Pane - Low-E / Hard Coat x 2	0.22	0.39	0.43	35
Triple Pane - Low-E / Soft Coat x 2	0.20	0.25	0.39	29
Super Quad	0.17	0.21	0.28	31

AWNING	U Value	SHGC	Vt	ER
Dual Pane - Low-E / Hard Coat	0.31	0.50	0.51	30
Dual Pane - Low-E / Soft Coat	0.29	0.29	0.49	21
Dual Pane - Low-E 366	0.28	0.19	0.44	16
Triple Pane - Low-E / Hard Coat x 2	0.22	0.40	0.43	36
Triple Pane - Low-E / Soft Coat x 2	0.20	0.25	0.39	30
Super Quad	0.17	0.21	0.28	31

HIGH PROFILE FIXED	U Value	SHGC	Vt	ER
Dual Pane - Low-E / Hard Coat	0.30	0.56	0.59	36
Dual Pane - Low-E / Soft Coat	0.26	0.33	0.57	
Dual Pane - Low-E 366	0.26	0.22	0.51	20
Triple Pane - Low-E / Hard Coat x 2	0.19	0.44	0.49	41
Triple Pane - Low-E / Soft Coat x 2	0.17	0.28	0.45	35
Super Quad	0.13	0.23	0.32	37

LOW PROFILE FIXED	U Value	SHGC	Vt	No ER
Dual Pane - Low-E / Hard Coat	0.31	0.62	0.66	No ER
Dual Pane - Low-E / Soft Coat	0.28	0.36	0.63	No ER
Dual Pane - Low-E 366	0.27	0.24	0.57	No ER
Triple Pane - Low-E / Hard Coat x 2	0.20	0.49	0.55	No ER
Triple Pane - Low-E / Soft Coat x 2	0.17	0.31	0.50	No ER
Super Quad	0.13	0.26	0.35	No ER

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.



325 SERIES AWNING & FIXED WINDOWS

TEST REPORT SUMMARY

In compliance to AAMA/
101/I.S.2/ CSA A440

	Awning	Fixed
TEST SIZE	1524mm x 813mm 60" x 32"	1524mm x 1803mm 60" x 71"

TYPE	TEST	REQUIREMENTS		RESULTS	GRADE	
		TEST METHOD	TEST PRESSURE		AAMA	CSA
A W N I N G	Air	ASTM E 283	75 pa (1.57 psf)	+/- 0.035 m ³ /h/m +/- 0.01 CFM/ft ²	A3	A3
	Water Tightness	ASTM E 547	713 Pa (14.97 psf)	No Leakage	DP 95	B7
	Wind Load Resistance	ASTM E 330	4875 pa (102 psf)	No Deformation	DP 65	C5
Series 325 awning window is rated AP-HC 65, design pressure 65 @ test pressure 317 kph (200 mph).						

F I X E D	Air Tightness	ASTM E 283	300 pa (624 psf)	+/- 0.020 m ³ /h/m ² +/- 0.07 CFM/ft ²	A3	A3
	Water Tightness	ASTM E 547	700 pa (14.9 psf)	No Leakage	DP 100	B7
	Wind Load Resistance	ASTM 330	4125 pa (86 psf)	No Deformation	DP 55	C4
Series 325 fixed window is rated F-HC 55, Design Pressure 55 @ test pressure 290 kph (180 mph).						

Energy Ratings

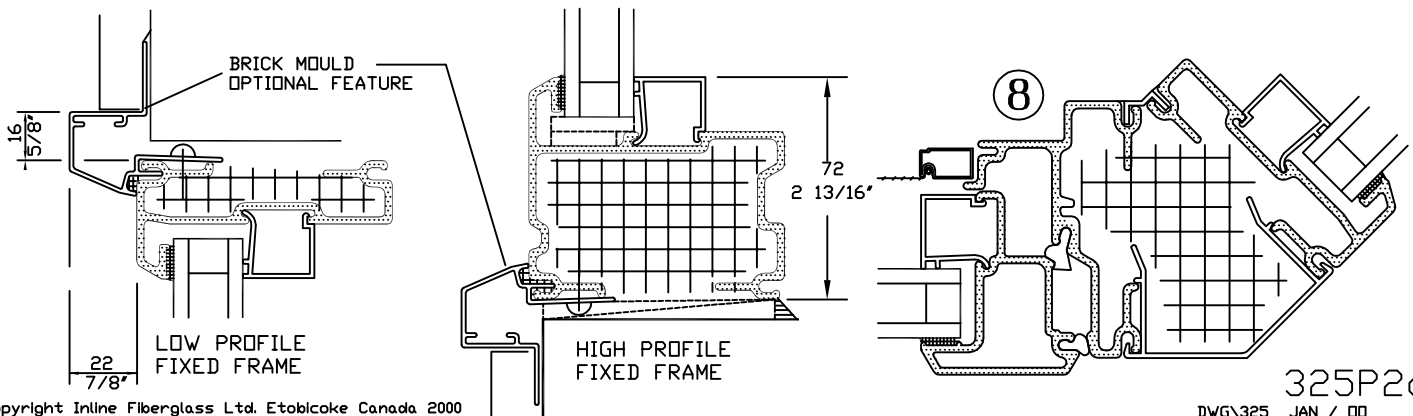
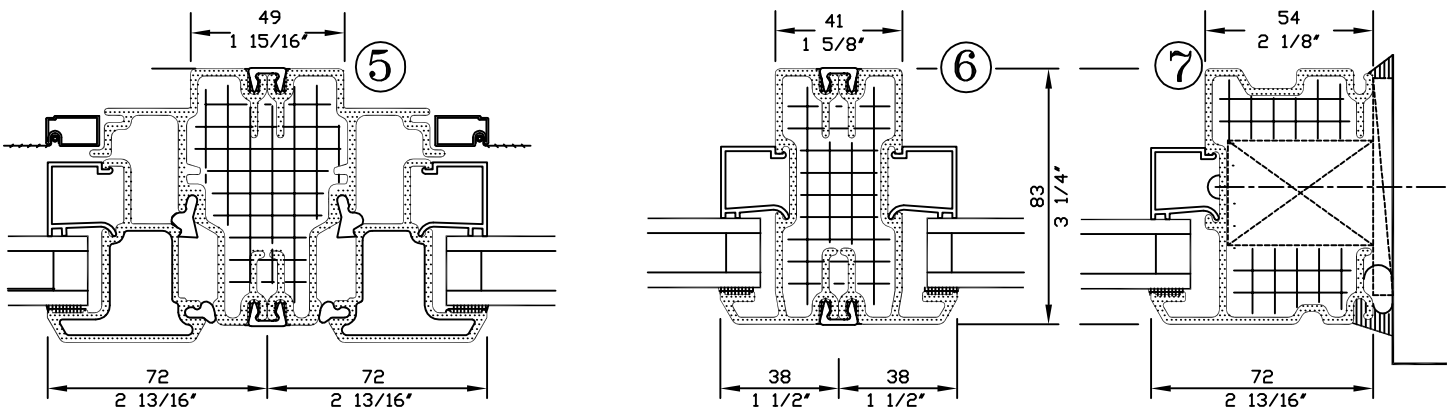
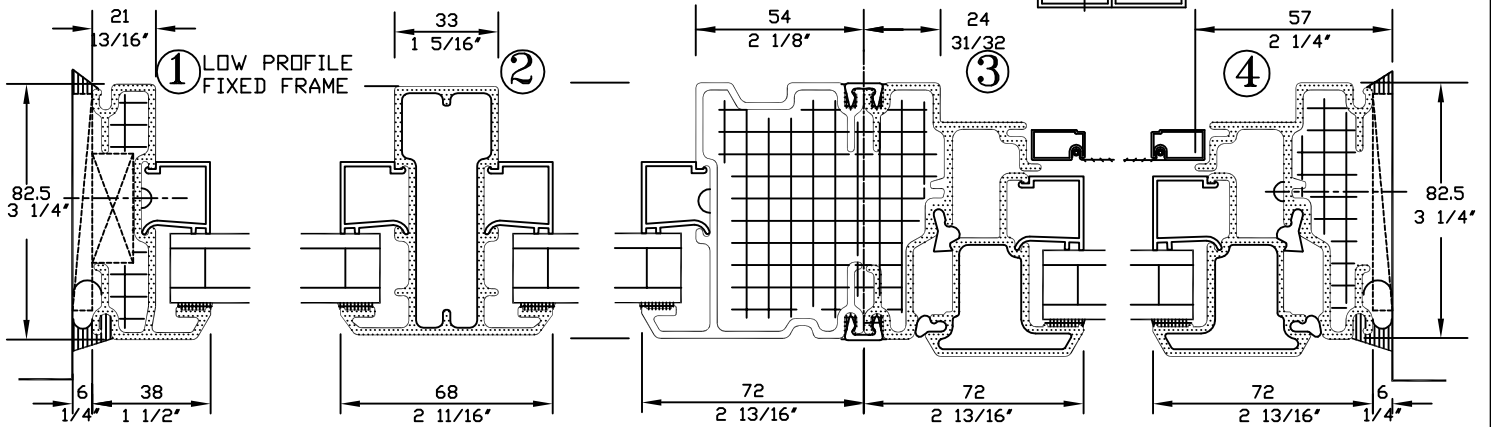
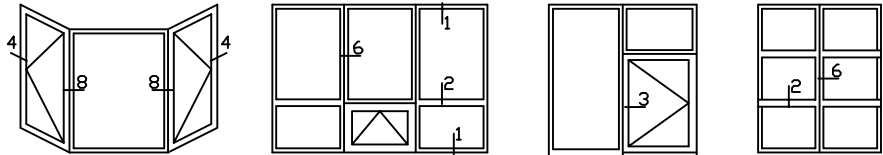
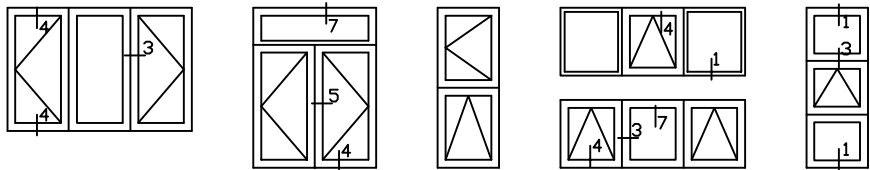
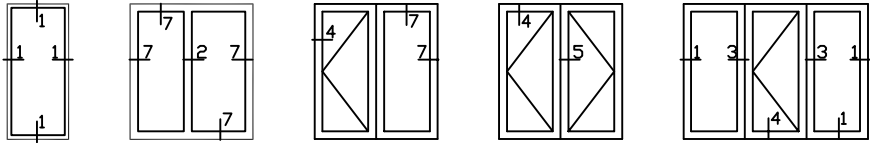
The Thermal Performance Values. Shown below, are based on windows glazed with 7/8" (22mm) insulating units comprising one lite of Low-E glass, an argon filled cavity, and a double sealed aluminum spacer and 3mm clear glass. Higher performance may be achieved by using various glass coatings, inert gasses, and/or warm edge spacers.

Performance	CASEMENT			FIXED		
	CSA 440.2	NFRC 100 Residential 36" x 60"	NFRC 100 Non-Residential 48" x 72"	CSA 440.2	NFRC 100 Residential 36" x 60"	NFRC 100 Non-Residential 48" x 72"
U-Value Frame	1.43 W/m ² /c	0.26 Btu	0.26 Btu	1.64 W/m ² /c	0.34 Btu	0.34 Btu
U-Value Window	1.99 W/m ² /c	0.35 Btu	0.34 Btu	1.87 W/m ² /c	0.33 Btu	0.33 Btu
SHGC - No Grill	0.46	0.44	0.47	0.51	0.51	0.51
SHGC - With Grill	0.42	0.42	0.43	0.46	0.46	0.46
VLT - No Grill	0.50	0.50	0.54	0.58	0.58	0.59
VLT - With Grill	0.46	0.46	0.49	0.52	0.52	0.53

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.

INLINE FIBERGLASS WINDOWS

FIXED LITE CASEMENT AND AWNING DETAILS SERIES 325



325 SERIES CASEMENT & FIXED WINDOWS

TEST REPORT SUMMARY

In compliance to AAMA/
101/I.S.2/ CSA A440

	Casement	Fixed
TEST SIZE	804mm x 1620mm 31 5/8" x 63 3/4"	1524mm x 1778mm 60" x 70"

TYPE	TEST	REQUIREMENTS		RESULTS	GRADE	
		TEST METHOD	TEST PRESSURE		AAMA	CSA
C A S E M E N T	Air Tightness	ASTM E 283	75 pa (1.57 psf)	+/- 0.035 m ³ /h/m +/- 0.006 CFM/ft	A3	A3
			300 pa (6.24 psf)	+/- 1.28 m ³ /h/m ² +/- 0.07 CFM/ft ²	PASS	PASS
	Water Tightness	ASTM E 547	1000 Pa (20.88 psf)	No Leakage	DP 100	B7
	Wind Load Resistance	ASTM E 330	5000 Pa (104 psf)	No Deformation	DP 65	C5
Series 325 casement window is rated C - C65 design pressure @ test pressure 320 kph 200 mph.						

F I X E D	Air Tightness	ASTM E 283	300 pa (6.24 psf)	+/- 0.020 m ³ /h/m +/- 0.07 CFM/ft ²	PASS	FIXED
	Water Tightness	ASTM E 547/331	700 pa (14.9 psf)	No Leakage	DP 100	B7
	Wind Load Resistance	ASTM 330	4125 pa (86 psf)	No Deformation	DP 55	C4
Series 325 fixed window is rated F-HC 55 Design Pressure 55 @ test pressure 290 kph (180 mph).						

Energy Ratings

The Thermal Performance Values. Shown below, are based on windows glazed with 7/8" (22mm) insulating units comprising one lite of Low-E glass, an argon filled cavity, and a double sealed aluminum spacer and 3mm clear glass. Higher performance may be achieved by using various glass coatings, inert gasses, and/or warm edge spacers.

Performance	CASEMENT			FIXED		
	CSA 440.2	NFRC 100 Residential 36" x 60"	NFRC 100 Non-Residential 48" x 72"	CSA 440.2	NFRC 100 Residential 36" x 60"	NFRC 100 Non-Residential 48" x 72"
U-Value Frame	1.43 W/m ² /c	0.26 Btu	0.26 Btu	1.64 W/m ² /c	0.34 Btu	0.34 Btu
U-Value Window	1.99 W/m ² /c	0.35 Btu	0.34 Btu	1.87 W/m ² /c	0.33 Btu	0.33 Btu
SHGC - No Grill	0.47	0.47	0.47	0.51	0.51	0.51
SHGC - With Grill	0.42	0.42	0.43	0.46	0.46	0.46
VLT - No Grill	0.50	0.50	0.53	0.58	0.58	0.59
VLT - With Grill	0.46	0.46	0.49	0.52	0.52	0.53

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.