

origin

DOORS AND WINDOWS

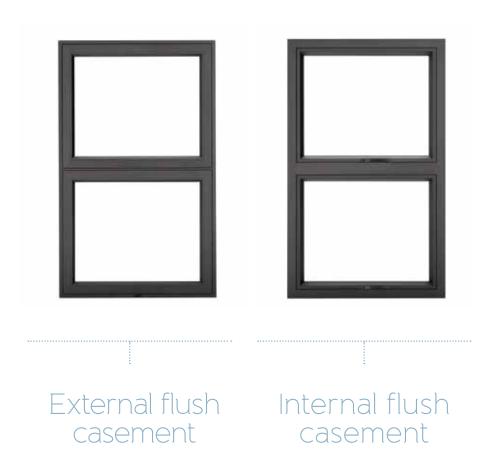
Window Specification File





Specification Overview

Thermally Broken Aluminum Window



Flush casement

The Origin window features a sash that sits neatly inside the window frame, creating an internal and external flush casement.

A 1/8 inch shadow line exists between the sash and the frame on the outside and a 5/32 inch shadow line on the inside.

The clean finish of the Origin Window therefore lends itself perfectly to traditional town houses, newly built condos and projects under strict zoning regulations in historic buildings.

The frame is 2 inches in height on the inside and 7/8 inch in height on the outside.

Profile Specification

Outer Frame Depth	3 1/8"
Sash Depth	3 1/8"
Frame and Sash Sightline	3 5/8"
Mullion and Sash Sightline	5 7/8"

Features

- 10 year warranty
- Internal and external flush casement. The sash closes into the frame, sitting in line with both the inside and outside of the window.
- Chamfered bead
- Mechanically double crimped corners
- Easi-clean mechanism on side hung configurations*
 *between 15 34" 27 1/2"
- Yale Encloser locking mechanism
- Stainless steel friction stay hinges

3 5/8" 2 7/8" to mid point 1 3/8" to mid point 2" Sill adds 7/8"



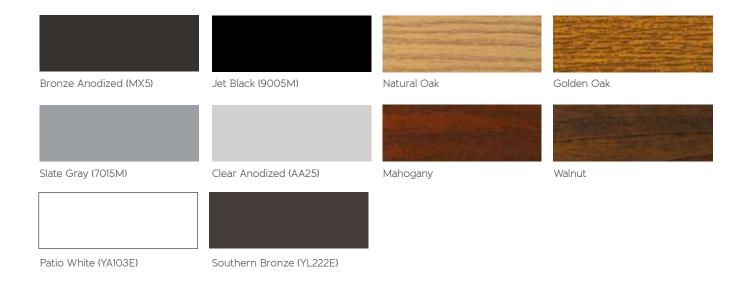
Options and extras

- Casement, awning, transom, fixed and dummy sash configurations available
- Open out or fixed
- 6" and 9" sill
- Available in over 150 different RAL colors, woodgrain effects or in AAMA 2605 (Kynar 500® or Hylar®)
- Fixing straps
- 5/8" or 13/8" frame extensions
- Restrictor hooks
- Egress hardware
- Aerogel insulation option available
- Black, white and color-coded gaskets available
- Door to window and window to window couplers available
- Color matched handle options



^{*}Max weight refers to the maximum glazed sash weight.

Color choices







The Origin Window can be manufactured in over 150 different RAL shades, authentic woodgrain finishes as well as a split color option.

Additionally, Origin products are also available in AAMA 2605 (Kynar 500°) finishes.

Above demonstrates our most popular finishes. For the full range, visit originbifolds.com

White Glove Delivery Service

WHITE GLOVE DELIVERY

One of our priorities is the safe delivery of our products to you. With this in mind, we introduced our White Glove Delivery Service. This is designed to operate as follows:

This service is designed to operate as follows:

- The delivery driver will unload freight from their trailer via lift gate (pending it fits onto the gate)
- Delivery driver will take freight inside a residence or business, place it where it belongs, and unwrap it if specified by the customer
- This service usually comes with a guaranteed transit if that is necessary
- We can generally get a rate to have the driver handle a forklift if there is one on site. Some LTL carriers will comply with driving a forklift, but almost all truckload carriers will drive a forklift at the site(s)
- Freight is always loaded and unloaded with extra care so as to not break or get damaged while in transit. Extra attention is spent on loading and unloading with Origin's White Glove Delivery Service
- All door and window glass panels are individually packaged so as to keep it protected during transit and while at the jobsite or stored in the warehouse

Security

The Origin Window has passed Forced Entry Test (AAMA 1302.5).



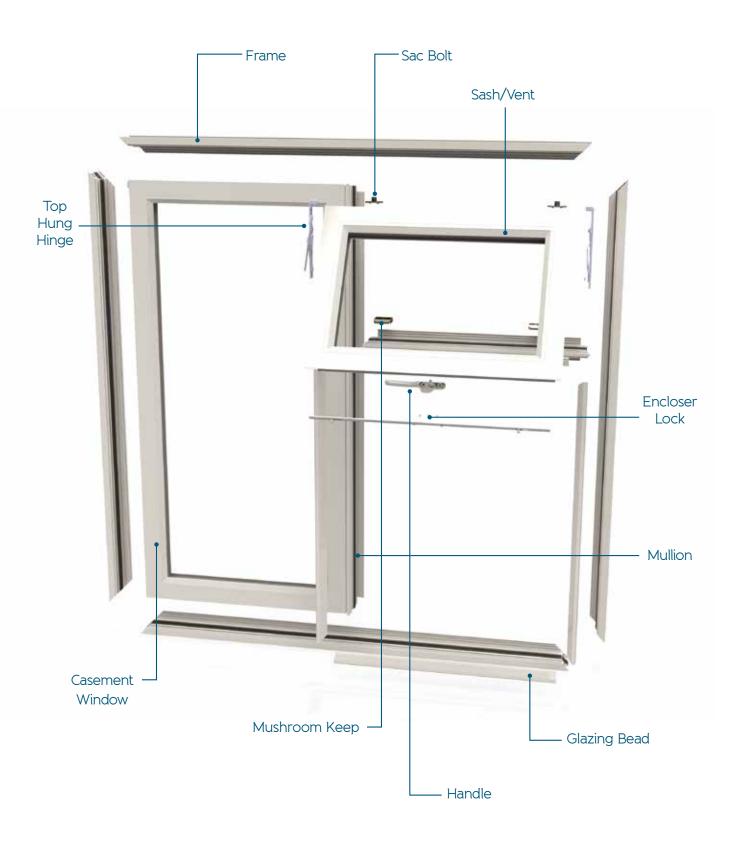
Origin hinges are made of stainless steel for enhanced corrosion resistance. The hinges are tested to 50,000 open and close operations and feature a friction adjustment without metal to metal contact, ensuring minimum wear.

Hinge guards featuring patented anti-slip & lock technology are fitted as standard along the hinged side of the window.

The Yale Encloser lock is fitted to accurately align with the keeps. The cams are adjustable in length to allow for smooth operation over the lifetime of the window. The lock also features a ventilation position, allowing passage of air through the gap.



Window Make-Up



Thermal Performance

Thermal efficiency

Awning

Manufacturer Product Code	U-Factor	SHGC	VT
Clr / air / clr (4.7mm/4.7mm) – 26.9mm IG	0.47	0.46	0.49
E366 / arg90 / clr (4.7mm/4.7mm) — 26.9mm IG	0.34	0.18	0.38
E366 / arg90 / i89 (4.7mm/4.7mm) — 26.9mm IG	0.30	0.17	0.37
E366 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.32	0.17	0.37
E270 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.33	0.23	0.40
E240 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.33	0.16	0.22
E272 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.33	0.25	0.41
E180 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) – 28mm IG	0.33	0.38	0.45
Clr / air / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.46	0.43	0.47

Legend

Double Glazed

Lami

Casement

Manufacturer Product Code	U-Factor	SHGC	VT
Clr / air / clr (4.7mm/4.7mm) — 26.9mm IG	0.47	0.46	0.49
E366 / arg90 / clr (4.7mm/4.7mm) — 26.9mm IG	0.34	0.18	0.38
E366 / arg90 / i89 (4.7mm/4.7mm) — 26.9mm IG	0.30	0.17	0.37
E366 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.32	0.17	0.37
E270 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.33	0.23	0.40
E240 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.33	0.16	0.22
E272 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.33	0.25	0.41
E180 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.33	0.38	0.45
Clr / air / lami (4.7mm/4.7mm 090SGP 4.7mm) — 28mm IG	0.46	0.43	0.47

Legend

Double Glazed

Lami

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Manufacturer Product Code	U-Factor	SHGC	VT
Clr / air / clr (4.7mm/4.7mm) – 26.9mm IG	0.49	0.63	0.68
E366 / arg90 / clr (4.7mm/4.7mm) – 26.9mm IG	0.30	0.23	0.54
E366 / arg90 / i89 (4.7mm/4.7mm) – 26.9mm IG	0.26	0.23	0.52
E366 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) – 28mm IG	0.28	0.23	0.51
E270 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) – 28mm IG	0.29	0.30	0.55
E240 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) – 28mm IG	0.30	0.21	0.31
E272 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) – 28mm IG	0.29	0.34	0.57
E180 / arg90 / lami (4.7mm/4.7mm 090SGP 4.7mm) – 28mm IG	0.30	0.51	0.63
Clr / air / lami (4.7mm/4.7mm 090SGP 4.7mm) – 28mm IG	0.47	0.59	0.65

Legend

Double Glazed

Lami



Introduction to Aerogel

What is Aerogel?

Aerogel is a synthetic solid material, consisting of tiny pores, made from a silica dioxide gel in which the liquid has been replaced with air. The gel is critically heated and the liquid evaporated out, leaving a bonded, cross-linked macromolecule framework.

The name Aerogel may be misleading at first, as Aerogels are dry, rigid or elastic foam-like materials, but the name originates from the fact that Aerogels are usually derived from wet gels, physically similar to edible jelly.

A brief history of Aerogel

Aerogel is believed to have been discovered in 1931 as a result of a bet between two chemists, Samuel Kistler and Charles Learned, over who could replace the liquid in jelly with gas without causing the remaining solid to shrink. It was Kistler that first succeeded.

Since then, Aerogels have been used in a wide range of applications from space exploration (Stardust launch and Mars exploration rovers) to commercial manufacture of building insulation, clothing, tennis rackets, supercapacitors and thickening agents in cosmetics.

Due to the expensive processes involved in producing Aerogel, commercial manufacture of Aerogel has only become viable since the dawn of the 21st century.

Why is Aerogel such a good insulator?

Aerogel can withstand very high temperatures, delivering 39 times more insulation than fiberglass. Aerogels are fantastic insulators because they limit two of the three methods of heat transfer (convection, conduction and radiation). Firstly, they are excellent conductive insulators because they are composed of 99.8% gas (air) and gases are very poor at conducting heat. The remaining 0.02% of the Aerogel is made of silica, which is incidentally also a poor conductor of heat. Secondly, the lattice structure of the solid is highly effective at minimizing convection because air cannot circulate through it. While Aerogels are poor radiative insulators within a window frame (infrared radiation transfers heat), the aluminum blocks any infrared radiation.





Other unique properties of Aerogel

Due to its lattice structure and remarkably low density, Aerogel is capable of supporting up to 4000 times its own weight. Particles travelling six times faster than a rifle bullet can be stopped by a block of Aerogel, making it a popular material for use in space travel.

What does Aerogel look like?

There are different types of Aerogel. Most widely recognized, transparent monolithic Aerogel takes on a blue hue and has been cited as the "holy grail" of future glazing technology, with the potential of achieving incredibly low U-factors.

Due to the brittle nature of monolithic Aerogel, it can also be combined with reinforcing fibers to deliver a more practical solution in the form of an insulating blanket (as used in the Origin Window). The blankets are made by producing Aerogel within a fibrous batting (a porous, flexible fiber mat), allowing it to flex while retaining its shape.

Aerogel blankets feel like a soft scouring pad and a little crunchy to bend. While blankets will release some dust, testing has proven that only 2% of mass is lost over 250,000 flexes.

Optional Extras

Restrictor hooks

Variable restrictor hooks limit the sash opening to 2¾". The hooks can be fitted both sides of the frame in order to minimize the ease of unhooking them. The hooks can be unlatched to open the window fully.





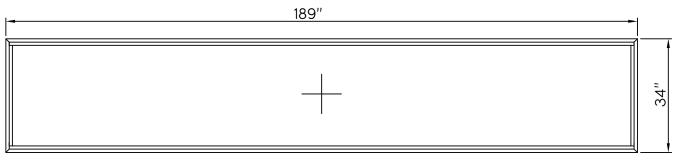
The Origin Window and its applications

Fixed Window

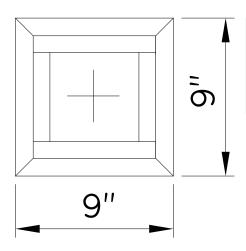
Origin Fixed Windows are a direct set frame that is ideal for store fronts, homes, and commercial openings that serve the purpose of allowing daylight rather than ventilation into the building. The frame is slimline with only 2" from outer edge to glass.

The Origin Fixed Window is impact rated: DP +55,-55

Maximum Specification Maximum width and height 189" Maximum area 40 ft²



Example 1

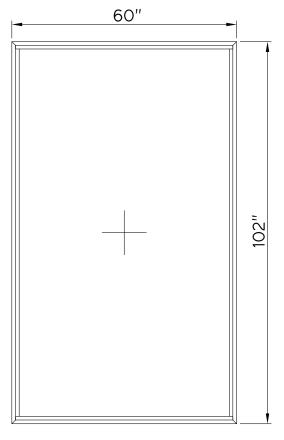


Minimum Specification (Direct Set)

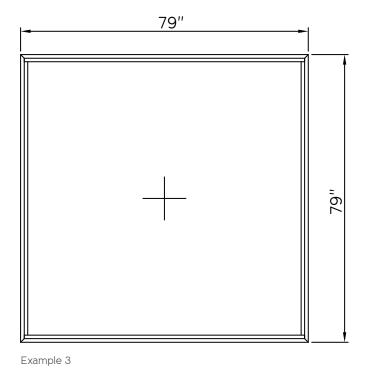
Minimum width and height

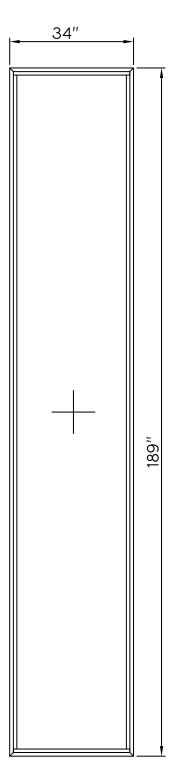
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Window applications



Example 2





Example 4



Transom

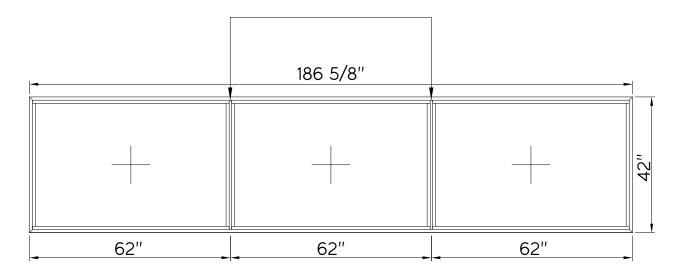
Origin manufactures transoms with integral mulls up to a window height of 42 inches.
Can be anchored to 2'x6' horizontal mulls above Origin Doors or used independently.

The Origin Transom is impact rated: DP +50/-55

Maximum Specification	
Maximum height of transom with integral mull	42"
Maximum overall width of transom	186 5/8"
Maximum width of a lite next to a mullion	62"

Maximum number of integral mulls per opening:

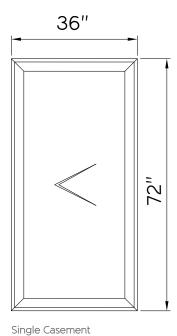
Infinite, but will depend on the size of the overall window and how small we can cut the bead to fit between them



Multiple Fixed Frame with Integral Mull

Casement

The Origin Casement is an outward opening window that pivots up to 90°.



The Origin Casement is impact rated: DP +50/-55

Maximum Spec	ification
Maximum width	36"
Maximum height	72"

Only suitable for egress where minimum dimensions are at least 32" wide and 46" high.

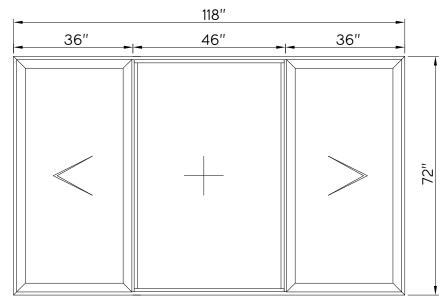
Minimum Specification

Minimum width and height

16"



Casement



Specifications

Maximum width: 189"

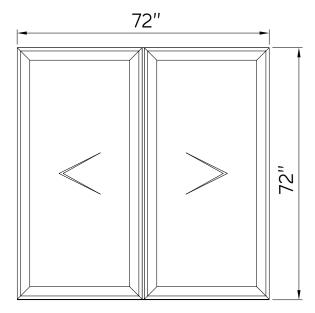
Maximum height: 189"

Minimum width: 9"

Minimum height: 9"

Maximum area: 6426"2

Casement Fixed Casement



Twin Casement

82"

Casement Fixed

Specifications

Max' width: 72" Max' height: 72"

Min' width: 32" Min' height: 16"

Specifications

Max' width: 82" Max' height: 72"

Min' width: 25" Min' height: 16"

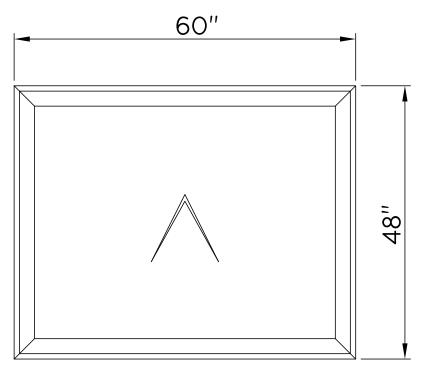
Awning

The Origin Awning is an outward opening window that pivots out on friction stay hinges.

Minimum Specification

Minimum width and height

16"



The Origin Awning and Double Awning window are impact rated: DP +50/-55

Maximum Specification (Single Awning)

Maximum width 60"

Maximum height 48"

Single Awning Window

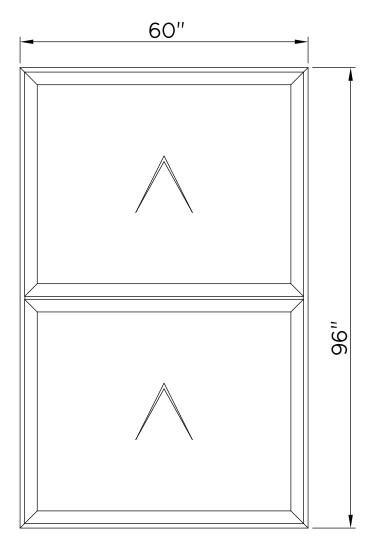


Double Awning

Specifications (Double Awning)

Max' width: 60" Max' height: 96"

Min' width: 16" Min' height: 16"



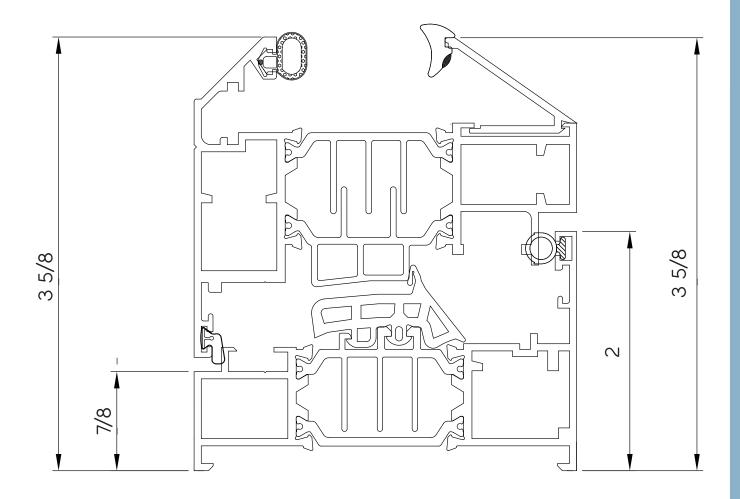
Double Awning

Technical drawings

Sill, frame and sash

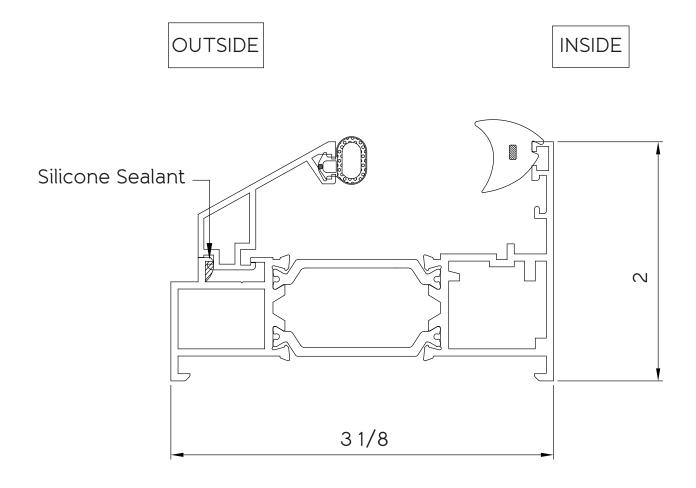
OUTSIDE

INSIDE

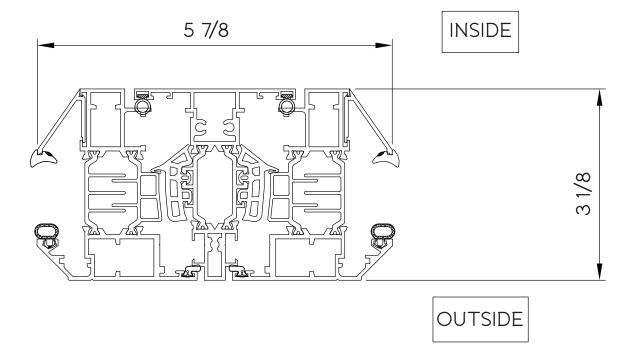




Fixed frame



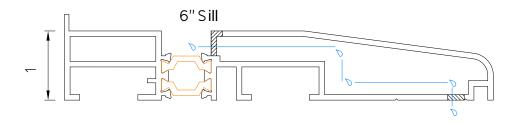
Mullion and sash sightlines

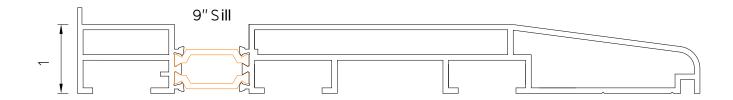




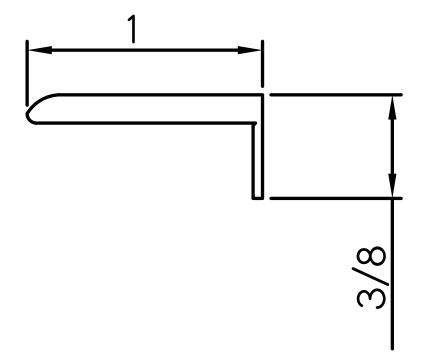
Technical drawings

Standard Sill (optional extra)





Trim (Optional Extra)





Standard Window Sizes

Awning - standard sizes

Window Width	1′ 7½″ (495)	1′ 11½″ (597)	2′ 3½″ (699)	2′ 5½″ (749)	2′ 7½″ (800)	2′ 9½″ (851)	2′ 11½″ (902)	3′ 1½″ (953)
Rough Opening	1′ 8″ (508)	2′ 0″ (610)	2′ 4″ (711)	2′ 6″ (762)	2′ 8″ (813)	2′ 10″ (864)	3′ 0″ (914)	3′ 2″ (965)
1' 41/2" (419) 1' 5" (431)	A1815	A2015	A2415	A2615	A2815	A21015	A3015	A3215
1' 7½" (495) 1' 8" (508)	A1818	A2018	A2418	A2618	A2818	A21018	A3018	A3218
1' 9½" (546) 1' 10" (559)	A18110	A20110	A24110	A26110	A28110	A210110	A30110	A32110
1' 11½" (597) 2' 0" (610)	A1820	A2020	A2420	A2620	A2820	A21020	A3020	A3220
2' 342" (699) 2' 4" (711)	A1824	A2024	A2424	A2624	A2824	A21024	A3024	A3224
2' 7½2" (800) 2' 8" (813)	A1828	A2028	A2428	A2628	A2828	A21028	A3028	A3228
2' 11½" (902) 3' 0" (914)	A1830	A2030	A2430	A2630	A2830	A21030	A3030	A3230
3' 342" (1003) 3' 4" (1016)								
3' 742" (1105) 3' 742" (1105)	A1834 A1838	A2034 A2038	A2434 A2438	A2638	A2834 A2838	A21034 A21038	A3034 A3038	A3234 A3238
3' 11½" (1207) 4' 0" (1219)								
ow ht gh ing	A1840	A2040	A2440	A2640	A2840	A21040	A3040	A3240

Windows depicted as egress have been taken from the ICC Building Code.

Note: Check your local building code for egress standards in your area in case they differ from the ICC Building Code.

The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be 20" Rough Opening' dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items.

Dimensions in parentheses are in millimeters.

3′ 3½″ (1003)	3′ 7½″ (1105)	3′ 11½″ (1207)	4′ 3½″ (1308)	4′ 7½″ (1410)	4′ 11½″ (1511)
3′ 4″ (1016)	3′ 8″ (1118)	4′ 0″ (1219)	4′ 4″ (1321)	4′ 8″ (1422)	5′ 0″ (1524)
A3415	A3815	A4015	A4415	A4815	A5015
A3418	A3818	A4018	A4418	A4818	A5018
A34110	A38110	A40110	A44110	A48110	A50110
A3420 A3424	A3820 A3824	A4020 A4024	A4420 A4424	A4820 A4824	A5020 A5024
A3428	A3828	A4028	A4428	A4828	A5028
A3430	A3830	A4030	A4430	A4830	A5030
A3434	A3834	A4034	A4434	A4834	A5034
A3438	A3838	A4038	A4438	A4838	A5038
A3440	A3840	A4040	A4440	A4840	A5040



Double Awning - standard sizes

Window Width	1′ 7½″ (495)	1′ 11½″ (597)	2′ 3½″ (699)	2′ 5½″ (749)	2′ 7½″ (800)	2′ 9½″ (851)	2′ 11½″ (902)	3′ 1½″ (953)
Rough Opening	1' 8" (508)	2′ 0″ (610)	2′ 4″ (711)	2′ 6″ (762)	2′ 8″ (813)	2′ 10″ (864)	3′ 0″ (914)	3′ 2″ (965)
2' 11½" (902) 3' 0" (914)	AA1830	AA2030	AA2430	AA2630	AA2830	AA21030	AA3030	AA3230
3' 342" (1003) 3' 4" (1016)	AA1834	AA2034	AA2434	AA2634	AA2834	AA21034	AA3034	AA3234
3' 7½" (1105) 3' 8" (559)	AA1838	AA2038	AA2438	AA2638	AA2838	AA21038	AA3038	AA3238
3' 11½" (1207) 4' 0" (1219)	AA1840	AA2040	AA2440	AA2640	AA2840	AA21040	AA3040	AA3240
4' 342" (1308) 4' 4" (1321)	AA1844	AA2044	AA2444	AA2644	AA2844	AA21044	AA3044	AA3244
4' 7½" (1410) 4' 8" (1422)	AA1848	AA2048	AA2448	AA2648	AA2848	AA21048	AA3048	AA3248
4' 11½" (1511) 5' 0" (1524)	AA1850	AA2050	AA2450	AA2650	AA2850	AA21050	AA3050	AA3250
5' 3½" (1613) 5' 4" (1626)	AA1854	AA2054	AA2454	AA2654	AA2854	AA21054	AA3054	AA3254
ndow eight ough	Window Noto: Cl	rs depicted as egress	s have been taken fro	m the ICC Building Code	2.	ICC Building Code		

White Check your local building code for egress standards in your area in case they differ from the ICC Building Code.

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Dimensions in parentheses are in millimeters

3′ 3½″	3′ 7½″	3′ 11½″	4′ 3½″	4′ 7½″	4′ 11½″
(1003)	(1105)	(1207)	(1308)	(1410)	(1511)
	3′ 8″	4′ 0″		4′ 8″	5′ 0″
(1016)	(1118)	(1219)	(1321)	(1422)	(1524)
AA3430	AA3830	AA4030	AA4430	AA4830	AA5030
AA3434	AA3834	AA4034	AA4434	AA4834	AA5034
AA3438	AA3838	AA4038	AA4438	AA4838	AA5038
AA3440	AA3840	AA4040	AA4440	AA4840	AA5040
AA3444	AA3844	AA4044	AA4444	AA4844	AA5044
AA3448	AA3848	AA4048	AA4448	AA4848	AA5048
AA3450	AA3850	AA4050	AA4450	AA4850	AA5050
AA3454	AA3854	AA4054	AA4454	AA4854	AA5054



Double Awning - standard sizes

Window Width	1′ 7½″ (495)	1′ 11½″ (597)	2′ 3½″ (699)	2′ 5½″ (749)	2′ 7½″ (800)	2′ 9½″ (851)	2′ 11½″ (902)	3′ 1½″ (953)
Rough Opening	1′ 8″ (508)	2′ 0″ (610)	2′ 4″ (711)	2′ 6″ (762)	2′ 8″ (813)	2′ 10″ (864)	3′ 0″ (914)	3′ 2″ (965)
5, 742" (1715) 5, 8" (914)	AA1858	AA2058	AA2458	AA2658	(013) AA2858	AA21058	AA3058	AA3258
5' 11½" (1816) 6' 0" (1829)	AA1860	AA2060	AA2460	AA2660	AA2860	AA21060	AA3060	AA3260
6' 342" (1105) 6' 4" (1930)	AA1864	AA2064	AA2464	AA2664	AA2864	AA21064	AA3064	AA3264
6' 7 ¹ / ₂ " (2019) 6' 8" (1219)	AA1868	AA2068	AA2468	AA2668	AA2868	AA21068	AA3068	AA3268
6' 11½" (2121) 7' 0" (2134)	AA1870	AA2070	AA2470	AA2670	AA2870	AA21070	AA3070	AA3270
7' 34 ₂ " (2223) 7' 4" (2235)	AA1874	AA2074	AA2474	AA2674	AA2874	AA21074	AA3074	AA3274
7' 7½" (2324) 7' 8" (2337)	AA1878	AA2078	AA2478	AA2678	AA2878	AA21078	AA3078	AA3278
7' 11½" (2426) 8' 0" (2438z)	AA1880	AA2080	AA2480	AA2680	AA2880	AA21080	AA3080	AA3280
ndow eight ough	Window	rs depicted as egress	have been taken from	m the ICC Building Cod	e.	ICC Building Code		

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3′ 3½″ (1003)	3′ 7½″ (1105)	3′ 11½″ (1207)	4′ 3½″ (1308)	4′ 7½″ (1410)	4′ 11½″ (1511)
3′ 4″ (1016)	3′ 8″ (1118)	4' 0" (1219)	4′ 4″ (1321)	4′ 8″ (1422)	5′ 0″ (1524)
AA3458	AA3858	AA4058	AA4458	AA4858	AA5058
AA3460	AA3860	AA4060	AA4460	AA4860	AA5060
AA3464	AA3864	AA4064	AA4464	AA4864	AA5064
AA3468	AA3868	AA4068	AA4468	AA4868	AA5068
AA3470	AA3870	AA4070	AA4470	AA4870	AA5070
AA3474	AA3874	AA4074	AA4474	AA4874	AA5074
AA3478	AA3878	AA4078	AA4478	AA4878	AA5078
AA3480	AA3880	AA4080	AA4480	AA4880	AA5080



Fixed Windows - standard sizes

Window Width	11½" (292)	1′ 5½″ (445)	1′ 11½″ (597)	2′ 5½″ (749)	2′ 11½″ (902)	3′ 5½″ (1054)
Rough	1' 0"	1' 6"	2' 0"	2' 6"	3' 0"	3′ 6″
Opening	(305)	(457)	(610)	(762)	(914)	(1067)
111/2" (292) 1' 0" (305) 4	5 F1010	□ F1610	F2010	F2610	F3010	F3610
1' 5½" (445) 1' 6" (457)	F1016	∓ F1616	F2016	+ F2616	+ F3016	+ F3616
1, 111/2" (597) 2' 0" (610)	[] F1020	+ F1620	+ F2020	+ F2620	+ F3020	+ F3620
2' 5½" (749) 2' 6" (762)	[] F1026	+ F1626	+ F2026	+ F2626	+ F3026	+ F3626
2' 11½" (902) 3' 0" (914)	[] F1030	F1630	+ F2030	+ F2630	+ F3030	+ F3630
3' 5 ¹ / ₂ " (1054) 3' 6" (1067)	[] F1036	F1636	+ F2036	+ F2636	+ F3036	+ F3636
3' 111/2" (1207) 4' 0" (1219)	[] F1040	F1640	+ F2040	+ F2640	+ F3040	+ F3640
4' 5½" (1359) 4' 6" (1372)	[] F1046	F1646	+ F2046	+ F2646	+ F3046	+ F3646
4' 111½" (1511) 5' 0" (1524)	F1050	F1650	+ F2050	+ F2650	+ F3050	+ F3650
5' 542" (1664) 5' 6" (1676)	F1056	F1656	+ F2056	+ F2656	+ F3056	+ F3656
5' 11½" (1816) 6' 0" (457)	F1060	F1660	+ F2060	+ F2660	+ F3060	+ F3660
ndow eight ough ening		s egress have been taken from t				. 5550

Windows depicted as egress have been taken from the ICC Building Code.

Note: Check your local building code for egress standards in your area in case they differ from the ICC Building Code.

The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be 20" "Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items.

Dimensions in parentheses are in millimeters.

3′ 11½″	4′ 5½″	4′ 11½″	5′ 5½″	5′ 11½″
(1207)	(1359)	(1511)	(1664)	(1816)
4′ 0″	4′ 6″	5′ 0″	5′ 6″	6′ 0″
(1219)	(1372)	(1524)	(1676)	(1829)
F4010	F4610	F5010	F5610	F6010
+	+	+	+	+
F4016	F4616	F5016	F5616	F6016
+	+	+	+	+
F4020	F4620	F5020	F5620	F6020
+	+	+	+	+
F4026	F4626	F5026	F5626	F6026 +
F4030	F4630	F5030	F5630	F6030
+	+	+	+	+
F4036	F4636	F5036	F5636	F6036
+	+	+	+	+
F4040	F4640	F5040	F5640	F6040
+	+	+	+	+
F4046	F4646	F5046	F5646	F6046
+	+	+	+	+
F4050	F4650	F5050	F5650	F6050
+	+	+	+	+
F4056	F4656	F5056	F5656	F6056
+	+	+	+	+
F4060	F4660	F5060	F5660	F6060



Fixed Windows - standard sizes

Window Width	6′ 5½″ (1969)	6′ 11½″ (2121)	7′ 5½″ (2273)	7′ 11½″ (2426)
Rough	6′ 6″	7' 0"	7' 6"	8′ 0″
Opening	(1981)	(2134)	(2286)	(2438)
11½" (292) 1' 0" (305) (305)	F6610	F7010	F7610	F8010
1' 5½" (445) 1' 6" (457)	+ F6616	+ F7016	+ F7616	+ F8016
1' 111½" (597) 2' 0" (610)	+ F6620	+ F7020	+ F7620	+ F8020
2' 54/2" (749) 2' 6" (762)	+ F6626	+ F7026	+ F7626	+ F8026
2' 11½" (902) 3' 0" (914)	+ F6630	+ F7030	+ F7630	+ F8030
3′ 5½″ (1054) 3′ 6″ (1067)	+ F6636	+ F7036	+ F7636	+ F8036
3' 1142" (1207) 4' 0" (1219)	+ F6640	+ F7040	+ F7640	+ F8040
4' 5½" (1359) 4' 6" (1372)	+ F6646	+ F7046	+ F7646	+ F8046
4' 11½" (1511) 5' 0" (1524)	+ F6650	+ F7050	+ F7650	+ F8050
5' 51/2" (1664) 5' 6" (1676)	+ F6656	+ F7056	+ F7656	
5' 111/2" (1816) 6' 0" (457)	+ F6660	+ F7060	+ F7660	
Window Height Rough Opening	 Note: Check your local building or 	been taken from the ICC Building Code. ode for egress standards in your area in case reae shall be 57 scuare feet. The minimum r	e they differ from the ICC Building Code. Let clear opening height shall be 24° The min	imum net clear opening width shall be 20°

The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be 20" Rough Opening dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items. Dimensions in parentheses are in millimeters.

8′ 5½″ (2578)	8′ 11½″ (2731)	9' 5½" (2883)	9′ 11½″ (3035)
8′ 6″ (2591)	9′ 0″ (2743)	9′ 6″ (1372)	10′ 0″ (3048)
F8610	F9010	F9610	F10010
+ F8616	+ F9016	+ F9616	+ F10016
+ F8620	+ F9020	+ F9620	+ F10020
+	+	+	+
F8626 +	F9026 +	F9626	F10026
F8630	F9030	F9630	F10030
+ F8636	+ F9036	+ F9636	+ F10036
+	+	+	+
F8640 +	F9040	F9640	F10040
F8646			



Fixed Windows - standard sizes

Window	11½"	1′ 5½″	1′ 11½″	2′ 5½″	2′ 11½″	3′ 5½″
Width	(292)	(445)	(597)	(749)	(902)	(1054)
Rough	1′ 0″ (305)	1′ 6″ (457)	2′ 0″ (610)	2′ 6″ (762)	3′ 0″ (914)	3′ 6″ (1067)
Opening	(305)	(457)	(610)	(762)	(914)	(1067)
6' 542" (1969) 6' 6" (1981)	ŀ	+	+	+	+	+
(19)	L F1066	F1 <u>6</u> 66	F2066	F2666	F3066	F3666
142" 21) 0" 34)		1	+	+	+	+
6' 11½" (2121) 7' 0" (2134)						
_	F1070	F1670	F2070	F2670	F3070	F3670
7' 5½" (2273) 7' 6" (2286)		+	_	_		
7′ 5 (22 7′ (22 (22 (22 (22 (22 (22 (22 (22 (22 (2	Ц	Ш	Ш		Ш	
_	F1076	F1676	F2076	F2676	F3076	F3676
26) 0," 58)						
7′ 11½″ (2426) 8′ 0″ (2438)						
	F1080	F1680	F2080	F2680	F3080	F3680
75" (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	<u>I</u>					
8' 542" (2578) 8' 6" (2591)						
	F1086	F1686	F2086	F2686	F3086	F3686
5.5	П	П	П			
8' 11½" (2731) 9' 0" (2743)	l	+	+	+	+	+
ω S 0 S	[] F1090	L F1690	F2090	F2690	F3090	F3690
					13030	
9' 5½" (2883) 9' 6" (2896)	ŀ	+	+	+	+	+
6 8 6 8	U					
_	F1096 Π	F1696 □	F2096	F2696	F3096	F3696
142" 35) 0" 148)]			_	+	
9' 111/2" (3035) 10' 0" (3048)					[]	
	L F10100	F16100	F20100	F26100	F30100	F36100
ight ight ugh						
ight ight ugh	Windows depicted a	as egress have been taken from t	he ICC Building Code.			

Windows depicted as egress have been taken from the ICC Building Code.

Note: Check your local building code for egress standards in your area in case they differ from the ICC Building Code.

The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be 20" Rough Opening' dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items.

Dimensions in parentheses are in millimeters.

3′ 11½″	4′ 5½″	4′ 11½″	5′ 5½″	5′ 11½″
(1207)	(1359)	(1511)	(1664)	(1816)
4′ 0″	4′ 6″	5′ 0″	5′ 6″	6′ 0″
(1219)	(1372)	(1524)	(1676)	(1829)
+	+	+	+	+
F4066	F4666	F5066	F5666	F6066
+	+	+	+	
F4070	F4670	F5070	F5670	
	11070	13070	13070	
+	+	+		
F4076	F4676	F5076		
		13070		
+	+	+		
F4080	F4680	F5080		
14000	1-000	13000		
+	+			
 F4086	F4686			
14000	1 4000			
+				
F4090				
+				
F4096				
+				
F40100				



Fixed Casement - standard sizes

Window Width	2′ 11½″ (902)	3′ 1½″ (953)	3′ 7½″ (1105)	3′ 11½″ (1207)	4′ 3½″ (1308)	4′ 7½″ (1410)	4' 11½" (1511)
Rough Opening	3′ 0″ (914)	3′ 2″ (965)	3′ 8″ (1118)	4′ 0″ (1219)	4' 4" (1321)	4′ 8″ (1422)	5′ 0″ (1524)
1' 742" (495) 1' 8" (508)	XO3018	XO3418	XO3818	XO4018	XO4418	+ XO4818	+ XO5018
1' 1142" (597) 2' 0" (610)	XO3020	XO3420	XO3820	XO4020	XO4420	XO4820	XO5020
2' 34 ₂ " (699) 2' 4" (711)	+ XO3024	XO3424	XO3824	XO4024	XO4424	XO4824	XO5024
2' 7 ¹ / ₂ " (800) 2' 8" (813)	XO3028	XO3428	XO3828	XO4028	XO4428	+ XO4828	XO5028
2' 11½" (902) 3' 0" (914)	XO3030	XO3430	XO3830	XO4030	XO4430	XO4830	XO5030
3' 342" (1003) 3' 4" (1016)	XO3034	XO3434	XO3834	XO4034	XO4434	+ NO4834	+ NO5034
3' 742" (1105) 3' 8" (1118)	+ XO3038	XO3438	XO3838	XO4038	+ > XO4438	XO4838	+ > XO5038
ndow eight ough	Windows dep	icted as egress have been	n taken from the ICC Build	iling Code.	am the ICC Building Code		

windows depicted as egress have been taken from the ILC shillding Code by Note: Check your local building Code for egress standards in your area in case they differ from the ICC Building Code.
The minimum net clear opening area shall be 57 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be 20" Rough Opening' dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items.

Dimensions in parentheses are in millimeters.

5′ 3½″	5′ 7½″	5′ 11″	6′ 3½″
(1613)	(1715)	(1816)	(1918)
5′ 4″ (1626)	5′ 8″ (1727)	6′ 0″ (1829)	6′ 4″ (1930)
(1020)	(1/2/)	(1023)	(1950)
+ XO5418	XO5818	+ XO6018	+ XO6418
XO5420	XO5820	XO6020	XO6420
XO5424	XO5824	XO6024	XO6424
XO5428	+ > XO5828	XO6028	XO6428
XO5430	XO5830	XO6030	XO6430
XO5434	XO5834	XO6034	XO6434
XO5438	XO5838	XO6038	XO6438



Fixed Casement - standard sizes

Window Width	2′ 11½″ (902)	3′ 1½″ (953)	3′ 7½″ (1105)	3′ 11½″ (1207)	4′ 3½″ (1308)	4' 7½" (1410)	4′ 11½″ (1511)
Rough Opening	3′ 0″ (914)	3′ 2″ (965)	3′ 8″ (1118)	4′ 0″ (1219)	4' 4" (1321)	4′ 8″ (1422)	5′ 0″ (1524)
3' 11½" (1207) 4' 0"	+ XO3040	XO3440	XO3840	XO4040	+ > XO4440	+ > XO4840	+ > XO5040
4' 3½" (1308) 4' 4" (1321)	XO3044	XO3444	XO3844	XO4044	XO4444	XO4844	XO5044
4' 7'42" (1410) 4' 8" (1422)	XO3048	XO3448	XO3848	XO4048	XO4448	+ > XO4848	+ > XO5048
4' 11½" (1511) 5' 0" (1524)	XO3050	XO3450	XO3850	XO4050	+ > XO4450	+ > XO4850	XO5050
5' 3½" (1613) 5' 4" (1626)	XO3054	XO3454	XO3854	XO4054	XO4454	+ > XO4854	XO5054
5' 7½" (1715) 5' 8" (1727)	+ XO3058	XO3458	XO3858	XO4058	XO4458	+ > XO4858	XO5058
5' 11½" (1816) 6' 0" (1829)	+		+	+			
ight ight ugh	XO3060 • Windows den	XO3460	XO3860	XO4060	XO4460	XO4860	XO5060

Windows depicted as egress have been taken from the ICC Building Code.

Note: Check your local building code for egress standards in your area in case they differ from the ICC Building Code.

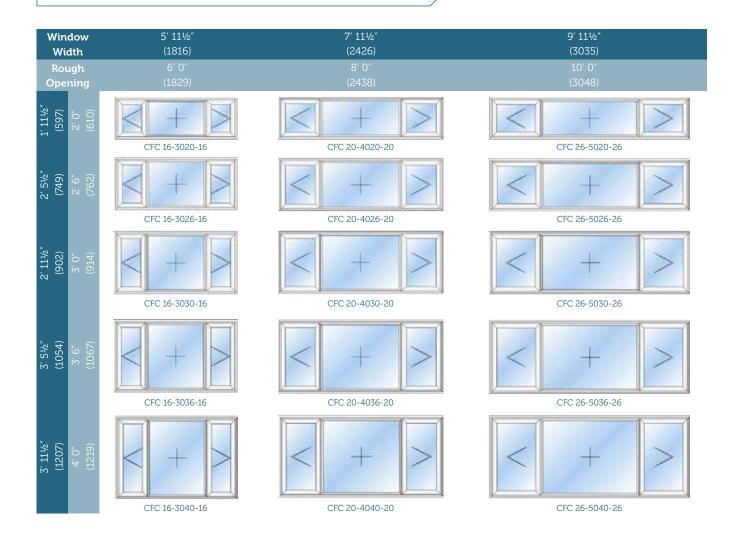
The minimum net clear opening area shall be 57 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be 20" Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items.

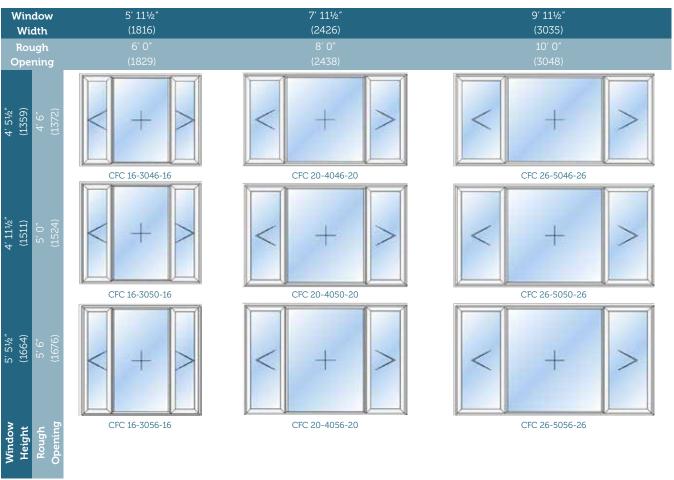
Dimensions in parentheses are in millimeters.

5′ 3½″	5′ 7½″	5′ 11″	6′ 3½″
(1613)	(1715)	(1816)	(1918)
5′ 4″	5′ 8″	6′ 0″	6′ 4″
(1626)	(1727)	(1829)	(1930)
XO5440	XO5840	XO6040	XO6440
XO5444	XO5844	XO6044	XO6444
XO5448	XO5848	XO6048	XO6448
+ > XO5450	XO5850	XO6050	+ > XO6450
XO5454	XO5854	XO6054	XO6454
XO5458	XO5858	XO6058	XO6458
XO5460	XO5860	XO6060	XO6460



Casement Fixed Casement - standard sizes





- Hurricane impact standard sizes may vary.

 Windows depicted as egress have been taken from the ICC Building Code.

 Note: Check your local building code for egress standards in your area in case they differ from the ICC Building Code. The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 2.7 square feet. The minimum net clear opening height shall be 2.0 "Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items. Dimensions in parentheses are in millimeters.



Casement - standard sizes

Window	1′ 7½″	1′ 11½″	2′ 3½″	2′ 5½″ (740)	2' 7½"	2' 9½"	2′ 11½″
Width	(495) 1′ 8″	(597) 2′ 0″	(699) 2′ 4″	(749) 2′ 6″	(800) 2′ 8″	(851) 2′ 10″	(902) 3′ 0″
Rough Opening	(508)	(610)	(711)	(762)	(813)	(864)	(914)
1' 11½" (597) 2' 0" (610)	C1820	C2020	C2420				
2' 342" (699) 4' 0" (1219)	C1824	C2024	C2424	C2624	C2824		
2' 7½" (800) 2' 8" (813)	C1828	C2028	C2428	C2628	C2828	C21028	C3028
2' 11½" (902) 3' 0" (914)	C1830	C2030	C2430	C2630	C2830	C21030	C3030
3' 342" (1003) 3' 4" (1016)	C1834	C2034	C2434	C2634	C2834	C21034	C3034
3,742" (1105) 3,8" (1118)	C1838	C2038	C2438	C2638	C2838	<u>></u>	<u>S</u>
3'11½" (1207) 4'0" (1219)	C1840	C2040	C2440	C2640	C2840	C21040	<u>></u>
4' 3½" (1308) 4' 4" (1321)	C1844	C2044	C2444	C2644	C2844	C21044	C3044

Window	1′ 7½″	1′ 11½″	2′ 3½″	2′ 5½″	2' 71/2"	2′ 9½″	2′ 11½″
Width	(495)	(597)	(699)	(749)	(800)	(851)	(902)
Rough	1′ 8″	2′ 0″	2′ 4″	2′ 6″	2′ 8″	2′ 10″	3′ 0″
Opening	(508)	(610)	(711)	(762)	(813)	(864)	(914)
4' 7½" (1410) 4' 8" (1422)	C1848	C2048	C2448	C2648	C2848	C21048	S C3048
4' 11½" (1511) 5' 0" (1524)	C1850	C2050	C2450	C2650	C2850	S21050	C3050
5' 342" (1613) 5' 4" (1626)	C1854	C2054	C2454	> C2654	C2854	> C21054	> C3054
5' 74 _{2"} (1715) 5' 8" (1727)	C1858	C2058	C2458	> C2658	C2858	C21058	> C3058
5'11½" (1816) 6'0" y (1829)				>	>	>	>
Window Height Rough Opening					C2860 e ground floor egress Meets above ground		C3060

- Windows depicted as egress have been taken from the ICC Building Code.

 Note: Check your local building code for egress standards in your area in case they differ from the ICC Building Code.

 The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be "Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items.
- Dimensions in parentheses are in millimeters.



Casement - standard sizes

Window	1′ 7½″	1′ 11½″	2′ 3½″	2′ 5½″	2′ 7½″	2′ 9½″	2′ 11½″
Width	(495)	(597)	(699)	(749)	(800)	(851)	(902)
Rough	1′ 8″	2′ 0″				2′ 10″	3′ 0″
Opening	(508)	(610)	(711)	(762)	(813)	(864)	(914)
1' 11½" (597) 2' 0" (610)	C1820	C2020	C2420				
2' 3½" (699) 4' 0" (1219)	C1824	C2024	C2424	C2624	C2824		
2' 7½" (800) 2' 8" (813)	C1828	C2028	C2428	C2628	C2828	C21028	C3028
2' 11½" (902) 3' 0" (914)	C1830	C2030	C2430	C2630	C2830	C21030	<u>C3030</u>
3' 342" (1003) 3' 4" (1016)	C1834	C2034	C2434	C2634	C2834	<u>></u>	<u>></u>
3' 742" (1105) 3' 8" (1118)	C1838	C2038	C2438	C2638	C2838	<u>></u>	> 2038
3'11½" (1207) 4'0" (1219)	C1840	C2040	C2440	C2640	C2840	<u>></u>	<u>></u>
4' 3½" (1308) 4' 4" (1321)	C1844	C2044	C2444	C2644	C2844	<u>></u>	C3044

Window	1′ 7½″	1′ 11½″	2′ 3½″	2′ 5½″	2′ 7½″	2′ 9½″	2′ 11½″
Width	(495)	(597)	(699)	(749)	(800)	(851)	(902)
Rough		2′ 0″				2′ 10″	3′ 0″
Opening	(508)	(610)	(711)	(762)	(813)	(864)	(914)
4' 7½" (1410) 4' 8" (1422)	C1848	C2048	C2448	C2648	C2848	> C21048	
4' 11½" (1511) 5' 0" (1524)			>	>	>	>	>
5' 3½" (1613) 5' 4" (1626)	C1850	C2050	C2450	C2650	C2850	<u>C21050</u>	C3050 >
5)	C1854	C2054	C2454	C2654	C2854	C21054	C3054
5' 7 ¹ / ₂ " (1715) 5' 8" (1727)	24252		C2458		C2858	>	>
	C1858	C2058	C2458	C2658	C2858	C21058	C3058
5' 11½" (1816) 6' 0" 1 (1829)			>		>	>	>
ar ing	C1860	C2060	C2460	C2660	C2860	C21060	C3060
Window Height Rough Opening	De De	enotes: Double enotes: Double	glazed and triple g glazed, triple glaze	lazed – Meets grour d, and laminated – I	nd floor egress Meets ground floor e	gress	

- Windows depicted as egress have been taken from the ICC Building Code.
- Williams depicted as egress have been taken from the ICC Building Code.

 Note: Check your local building code for egress standards in your area in case they differ from the ICC Building Code.

 The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be "Rough Opening" dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items.

 Dimensions in parentheses are in millimeters.



Twin Casement - standard sizes

Window Width	2′ 11½″ (902)	3′ 1½″ (953)	3′ 7½″ (1105)	3′ 11½″ (1207)	4′ 3½″ (1308)
Rough Opening	3′ 0″ (914)	3′ 4″ (965)	3′ 8″ (1118)	4' 0" (1219)	4' 4" (1321)
1, 11½" (597) 2, 0" (610)	003020	003420	003820	004020	004420
2' 3½" (699) 2' 4" (711)	003024	003424	003824	004024	004424
2' 7½" (800) 2' 8" (813)	003028	003428	003828	004028	004428
2' 11½" (902) 3' 0" (914)	003030	003430	003830	004030	004430
3' 3'\(\rho^2\) (1003) 3' 4" (1016)	003034	003434	003834	004034	004434
3' 7½" (1105) 3' 8" (1118)	003038	003438	003838	004038	004438
3' 11½" (1207) 4' 0" (1219)	003040	003440	003840	004040	004440
indow feight lough pening	Windows depicted as eq. Note: Check your local limits.	gress have been taken from the ICC I building code for egress standards in	Building Code. I your area in case they differ from	the ICC Building Code.	

The minimum net clear opening area shall be 5.7 square feet. The minimum net clear opening height shall be 24" The minimum net clear opening width shall be 20" Rough Opening' dimensions may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners, or other items. Dimensions in parentheses are in millimeters.

4′ 7½″ (1410) 4′ 8″	4′ 11½″ (1511) 5′ 0″	5′ 3½″ (1613) 5′ 4″	5′ 7½″ (1715) 5′ 8″	5' 11" (1816) 6' 0"
(1422)	(1524)	(1626)	(1727)	(1829)
004820	005020	005420	005820	006020
004824	005024	005424	005824	006024
004828	OO5028	005428	OO5828	006028
004830	005030	005430	OO5830	006030
004834	005034	005434	005834	006034
OO4838	OO5038	OO5438	OO5838	OO6038
004840	005040	OO5440	OO5840	OO5860



Twin Casement Pricing - standard sizes

Window Width	2′ 11½″ (902)	3′ 1½″ (953)	3′ 7½″ (1105)	3′ 11½″ (1207)	4′ 3½″ (1308)
Rough Opening	3′ 0″ (914)	3′ 4″ (965)	3′ 8″ (1118)	4′ 0″ (1219)	4' 4" (1321)
4'3½" (1308) 4'4" (1321)	003044	003444	003844	004044	004444
4' 7½" (1410) 4' 8" (1422)	003048	003448	003848	004048	004448
4' 11½" (1511) 5' 0" (1524)	003050	003450	003850	004050	004450
5' 342" (1613) 5' 4" (1626)	003054	003454	003854	004054	004454
5'74 _{2"} (1715) 5'8" (1727)	003058	003458	003858	004058	OO4458
5' 11½" (1816) 6' 0" (1829)	003060	003460	003860	004060	004460
	 Note: Check your local The minimum net clear 	gress have been taken from the ICC I building code for egress standards ir opening area shall be 5.7 square fee nsions may need to be increased to a sses are in millimeters.	i your area in case they differ from t. The minimum net clear opening	height shall be 24" The minimum n	net clear opening width shall be 20" s, or other items.

4' 7½" (1410) 4' 8" (1422)	4' 11½" (1511) 5' 0" (1524)	5′ 3½″ (1613) 5′ 4″ (1626)	5′ 7½″ (1715) 5′ 8″ (1727)	5′ 11″ (1816) 6′ 0″ (1829)
004844	005044	005444	OO5844	006044
004848	005048	005448	OO5848	OO6048
OO4850	OO5050	OO5450	OO5850	> >
OO4854	005054	005454	OO5854	OO6054
OO4858	005058	OO5458	OO5858	OO6058
OO4860	OO5060	OO5460	OO5860	OO6044



Warranty

ORIGIN FRAMES LIMITED 10 YEAR WARRANTY FOR ORIGIN WINDOWS

Product Warranty Consumer

1

Origin has a 10-year limited warranty on non-glass portions of Origin windows and doors (including non-electric operators, locks, lifts, balance systems, hinges, handles, insect screens, weather stripping, exterior trim, sash and frame members) are warranted to be free from defects in manufacturing, materials and workmanship from the date of purchase. This limited warranty does not apply to Origin electric window operators, retractable insect screens or finishes on bright brass and satin nickel door hardware. In the event a component other than glass fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Origin, at its option, will (a) provide replacement parts to the Origin retailer/dealer you specify -labor not included; (b) provide a factory-authorized repair to the existing component at no cost to the Customer; or (c) refund the original purchase price or Origin retailer/dealer's price at the time of the original purchase, whichever is less. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

2.

Corrosion-resistant hardware (includes lock mechanisms for inswing and outswing patio doors and outswing patio door corrosion-resistant hinges) is warranted to be free from mechanical failure due to corrosion cause by an electrolytic chemical reaction involving atmospheric salts, such as what may occur in coastal applications for a period of ten (10) years from the date of purchase from Origin.

What is not covered by this corrosion-resistant hardware warranty: any and all aesthetic discoloration or pitting that may occur due to environmental conditions. Minimum maintenance such as cleaning with a mild detergent on a regular basis may be necessary to maintain the original hardware appearance.

3.

The finish on corrosion-resistant outswing patio door hinges is warranted to be free from defects in manufacturing, materials and workmanship and warranted not to tarnish, peel, pit, flake, discolor, or corrode for a period of ten (10) years from the date of purchase from Origin.

In the event there is a mechanical failure of the lock mechanism for inswing or outswing patio doors or the exterior hinges of an outswing hinged patio door or there is a defect in the finish on corrosion-resistant hinges or the finish on corrosion-resistant hardware within the limited warranty period, Origin, at its option, will: (al provide replacement parts to the Origin retailer/dealer you specify -labor not included; or (b) refund the original purchase price or Origin retailer/dealer's price at the time of the original purchase, whichever is less. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

4

The Customer acknowledges that while every attempt is made to match paint colors on the Goods, slight variations may occur and during the Warranty Period such paint finishes may dull due to weathering. Origin shall not be responsible or liable for any such dulling to the paint finishes.

5.

The Customer acknowledges that the installation instructions are provided with delivery of the Goods and show the correct installation method and usage. An operational guide is also supplied with the Goods which must be passed to the End-User of the Goods. It is the responsibility of the Customer to ensure receipt of these documents by the End-User and that the operational manual is passed to the End-User

6.

The Customer agrees to maintain the entire door system (glass, tracks, jambs, seals and frames) with regular cleaning, careful handling etc. Failure to do so will cause the warranty to void. Use of low concentration of soapy water followed by a rinse of fresh water is permitted, as is periodic usage of glass cleaners. Use of any other common cleaners or chemicals will void the warranty.

7.

Exclusion of Implied Warranty of Merchantability and Implied Warranty of Fitness for a Particular Purpose. There are no warranties which extend beyond the description on the face of the attached warranty. Origin specifically disclaims any warranties implied under Florida law or the Uniform Commercial Code, and specifically disclaims any implied warranty of merchantability or implied warranty of fitness for a particular purpose.



8.

The following shall NOT be covered by this limited warranty:

- Glass shall not be included as part of the Goods and Origin shall not have liability to the Customer in respect of any glass fitted or installed in the Goods.
- Origin makes no warranty or representation regarding the installation of the Goods.
- Origin makes no warranty or representation that condensation will not occur or will be eliminated by the Goods and Origin shall not be liable for any condensation.
- Adjustments or corrections due to improper installation of the Goods.
- Failures due to product modifications or glass shading devices (e.g., glass tinting, security systems, improper painting or staining, insulated coverings, etc.).
- Units improperly assembled or improperly mulled by others.
- Failure due to the application of non-Origin hardware (e.g. locksets, trim sets, hinges, panic hardware, closers, etc.).
- Failure to properly install Origin hardware and/or exterior trim. Products not manufactured by Origin.
- Slight glass curvature, minor scratches or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision.
- Rattling of grille bars within an air space.
- Tarnish or corrosion to hardware finishes, except on outswing patio door corrosion-resistant hinges.
- Service trips to provide instruction on product use.

9.

Any ten-year warranty offered by Origin is limited to a 5-year warranty for coastal areas. "Coastal areas" is defined as property located within two (2) miles of salt water.

10.

Any warranty offered on wood grain finishes is limited to a three-year warranty.

11.

As a material term and condition of this purchase contract and the attached warranty, Customer must inspect the Origin product upon delivery and report any damage within five (5) days of receipt of the product. The failure to do so will void the attached warranty for all defects whatsoever.

12.

The attached warranty does not apply to any defects in work performed by any persons hired by Origin or by Customer to perform installation of any Origin product, nor does it apply to any damage caused by such installers. All installers are independent contractors and are not employees, agents, or representatives or Origin.

Product Warranty Commercial

1.

Origin has a 1-year limited warranty on non-glass portions of Origin windows and doors (including non electric operators, locks, lifts, balance systems, hinges, handles, insect screens, weather stripping, exterior trim, sash and frame members) are warranted to be free from defects in manufacturing, materials and workmanship from the date of purchase. This limited warranty does not apply to Origin electric window operators, retractable insect screens or finishes on bright brass and satin nickel door hardware. In the event a component other than glass fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Origin, at its option, will (a) provide replacement parts to the Origin retailer/dealer you specify -labor not included; (b) provide a factory-authorized repair to the existing component at no cost to the Customer; or (c) refund the original purchase price or Origin retailer/dealer's price at the time of the original purchase, whichever is less. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.



2

Corrosion-resistant hardware (includes lock mechanisms for inswing and outswing patio doors and outswing patio door corrosion-resistant hinges) is warranted to be free from mechanical failure due to corrosion cause by an electrolytic chemical reaction involving atmospheric salts, such as what may occur in coastal applications for a period of one (1) year from the date of purchase from Origin.

What is not covered by this corrosion-resistant hardware warranty: any and all aesthetic discoloration or pitting that may occur due to environmental conditions. Minimum maintenance such as cleaning with a mild detergent on a regular basis may be necessary to maintain the original hardware appearance.

3

The finish on corrosion-resistant outswing patio door hinges is warranted to be free from defects in manufacturing, materials and workmanship and warranted not to tarnish, peel, pit, flake, discolor, or corrode for a period of one (1) year from the date of purchase from Origin.

In the event there is a mechanical failure of the lock mechanism for inswing or outswing patio doors or the exterior hinges of an outswing hinged patio door or there is a defect in the finish on corrosion-resistant hinges or the finish on corrosion-resistant hardware within the limited warranty period, Origin, at its option, will: (al provide replacement parts to the Origin retailer/dealer you specify -labor not included; or (b) refund the original purchase price or Origin retailer/dealer's price at the time of the original purchase, whichever is less. Such replacement parts or repairs are warranted for the remainder of the original limited warranty period.

4.

The Customer acknowledges that while every attempt is made to match paint colors on the Goods, slight variations may occur and during the Warranty Period such paint finishes may dull due to weathering. Origin shall not be responsible or liable for any such dulling to the paint finishes.

5.

The Customer acknowledges that the installation instructions are provided with delivery of the Goods and show the correct installation method and usage. An operational guide is also supplied with the Goods which must be passed to the End-User of the Goods. It is the responsibility of the Customer to ensure receipt of these documents by the End-User and that the operational manual is passed to the End-User.

6.

The Customer agrees to maintain the entire door system (glass, tracks, jambs, seals and frames) with regular cleaning, careful handling etc. Failure to do so will cause the warranty to void. Use of low concentration of soapy water followed by a rinse of fresh water is permitted, as is periodic usage of glass cleaners. Use of any other common cleaners or chemicals will void the warranty.

7.

Exclusion of Implied Warranty of Merchantability and Implied Warranty of Fitness for a Particular Purpose. There are no warranties which extend beyond the description on the face of the attached warranty. Origin specifically disclaims any warranties implied under Florida law or the Uniform Commercial Code, and specifically disclaims any implied warranty of merchantability or implied warranty of fitness for a particular purpose.

8.

The following shall NOT be covered by this limited warranty:

- Glass shall not be included as part of the Goods and Origin shall not have liability to the Customer in respect of any glass fitted or installed in the Goods.
- Origin makes no warranty or representation regarding the installation of the Goods.
- Origin makes no warranty or representation that condensation will not occur or will be eliminated by the Goods and Origin shall not be liable for any condensation.
- Adjustments or corrections due to improper installation of the Goods.



- Failures due to product modifications or glass shading devices (e.g., glass tinting, security systems, improper painting or staining, insulated coverings, etc.).
- Units improperly assembled or improperly mulled by others.
- Failure due to the application of non-Origin hardware (e.g. locksets, trim sets, hinges, panic hardware, closers, etc.).
- Failure to properly install Origin hardware and/or exterior trim.
- Products not manufactured by Origin.
- Slight glass curvature, minor scratches or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision.
- Rattling of grille bars within an air space.
- Tarnish or corrosion to hardware finishes, except on outswing patio door corrosion-resistant hinges.
- Service trips to provide instruction on product use.

9

As a material term and condition of this purchase contract and the attached warranty, Customer must inspect the Origin product upon delivery and report any damage within five (5) days of receipt of the product. The failure to do so will void the attached warranty for all defects whatsoever.

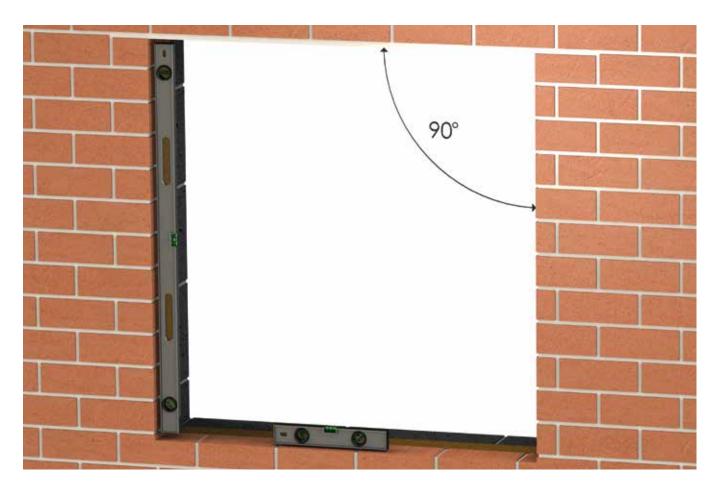
10

The attached warranty does not apply to any defects or negligence in work performed by any persons hired by Origin or by Customer to perform installation of any Origin product, nor does it apply to any damage caused by such installers. All installers are independent contractors and are not employees, agents, or representatives or Origin.

Windown

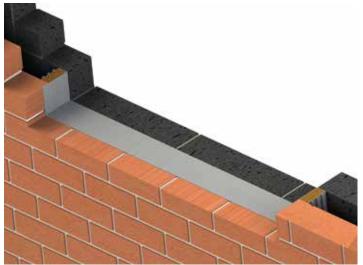
Installation guide

Openings



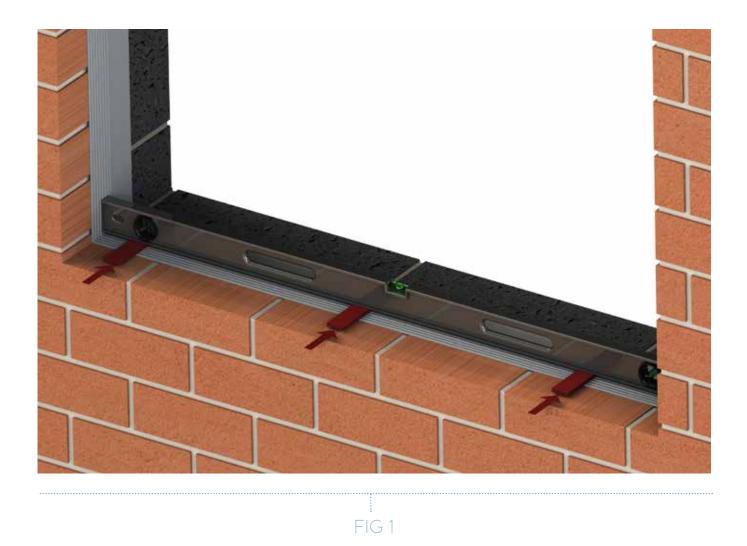
Windows should be installed in the opening without twisting, racking or distorting.

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



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.



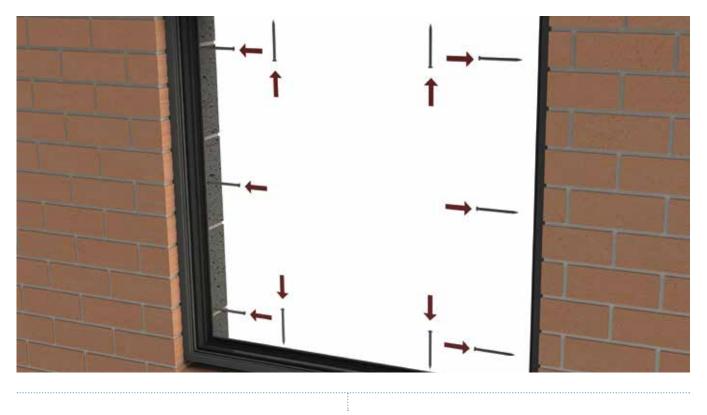


FIG 3

- 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

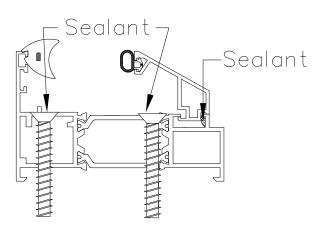
- **2.1.** All insulated glass units should be examined for damages and defects before installation.
- **2.2.** Close the window and fully engage the lock.
- **2.3.** Remove the 4 glazing beads.
- **2.4.** Place glazing shims in the bottom of the glazing chamber spaced approximately 2" in from each corner 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.

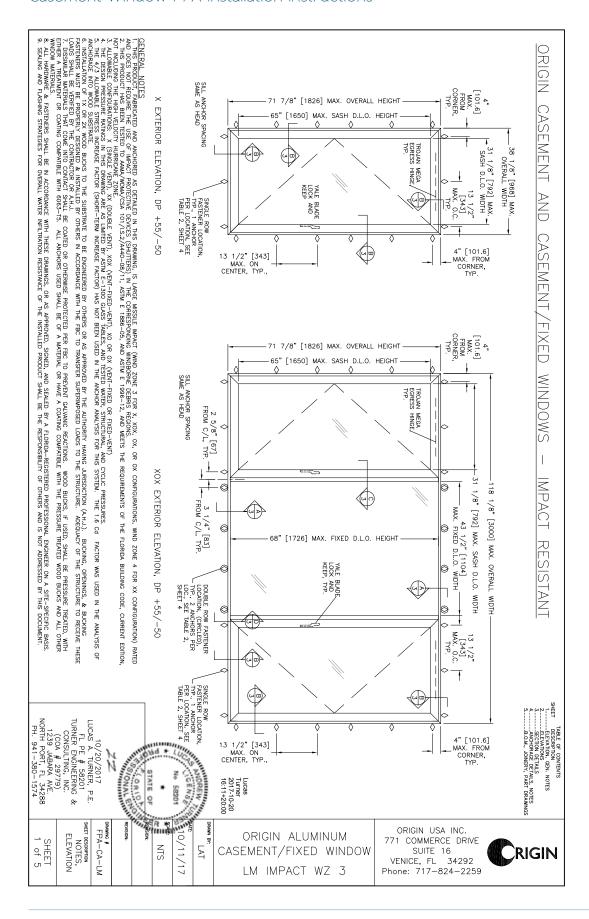
3. Finishing



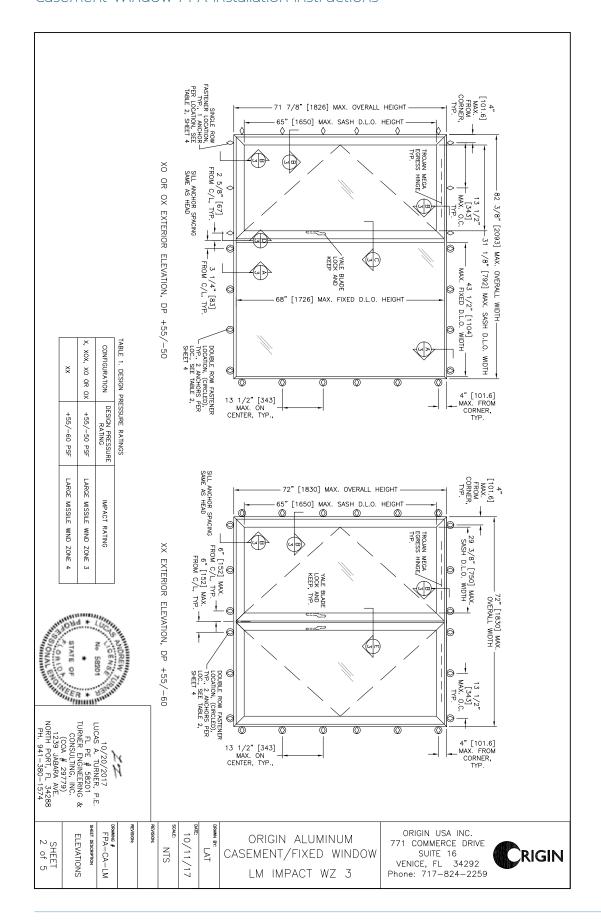
FIG 6

- **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)



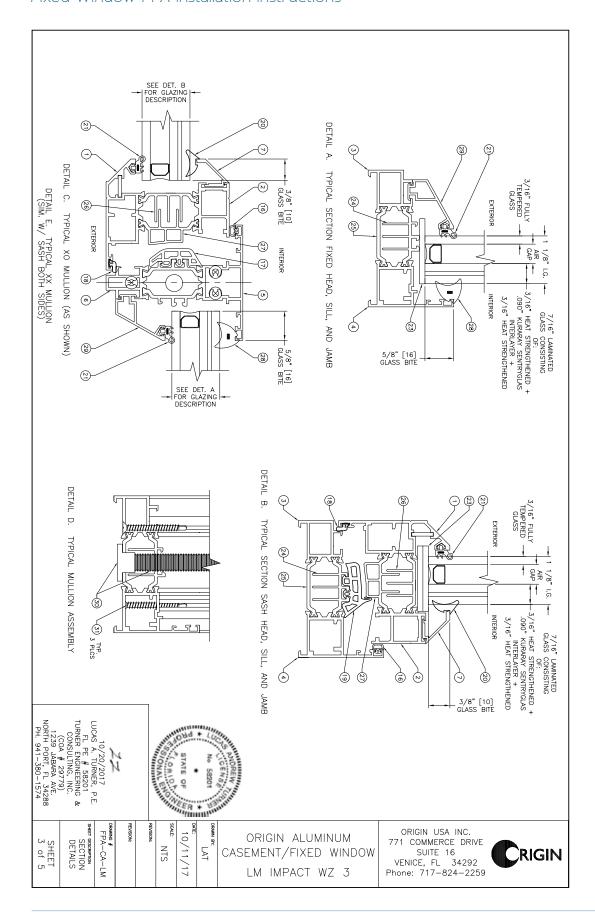


Casement Window FPA Installation Instructions

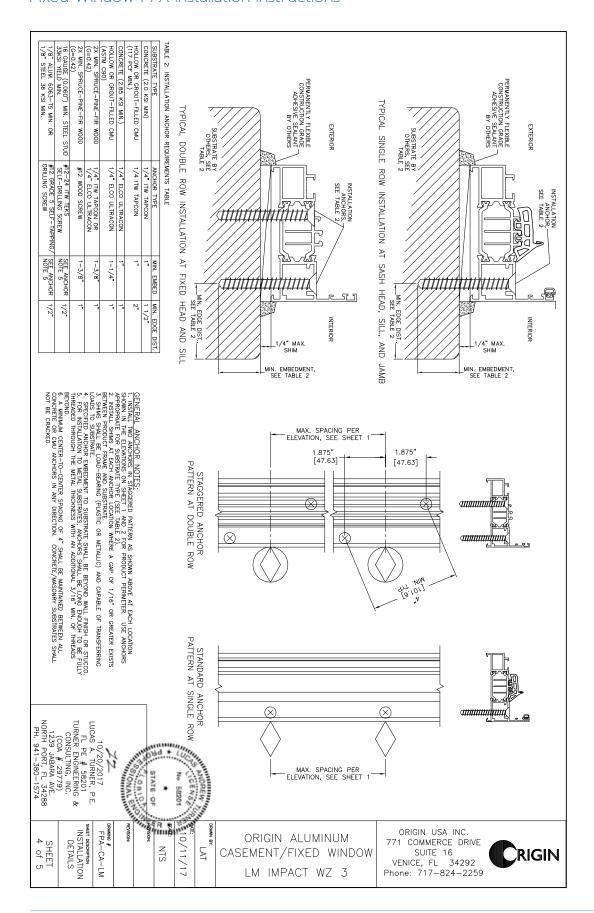




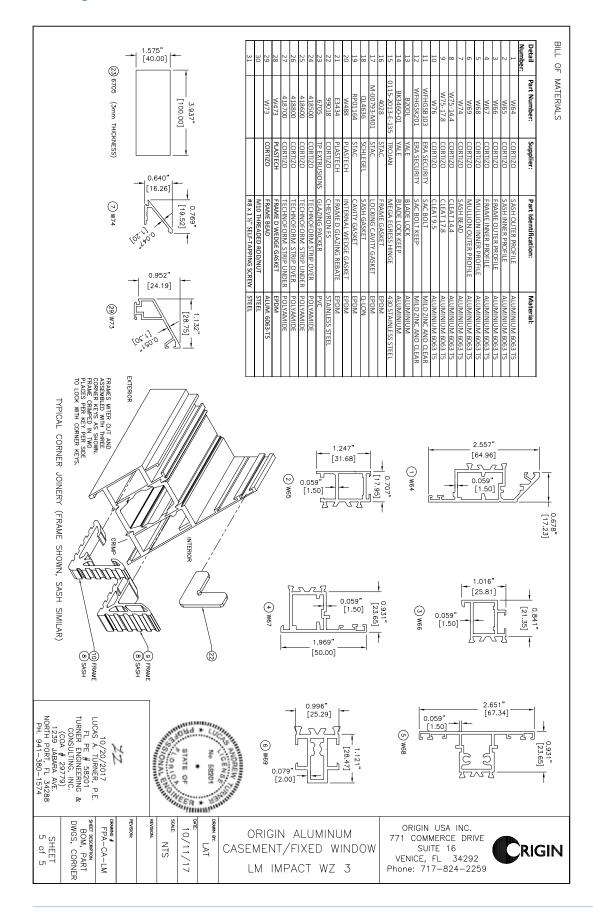
Fixed Window FPA Installation Instructions

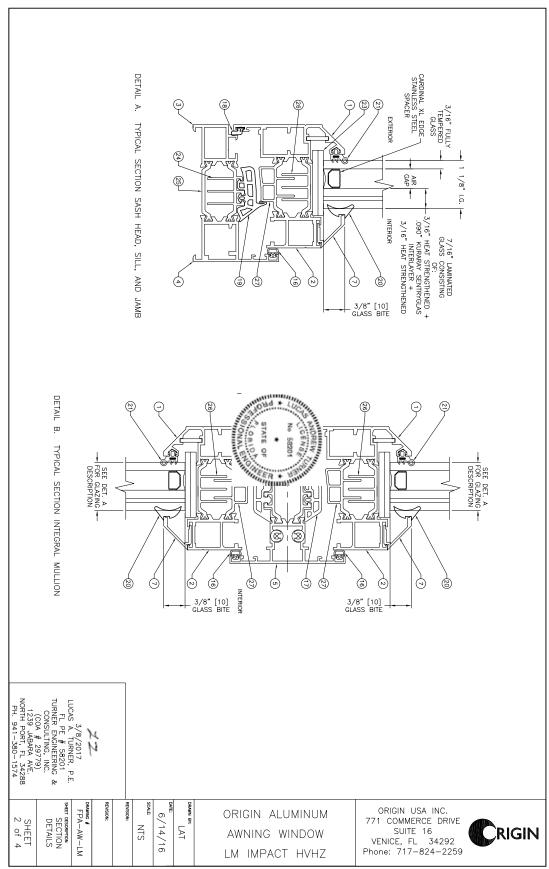


Fixed Window FPA Installation Instructions

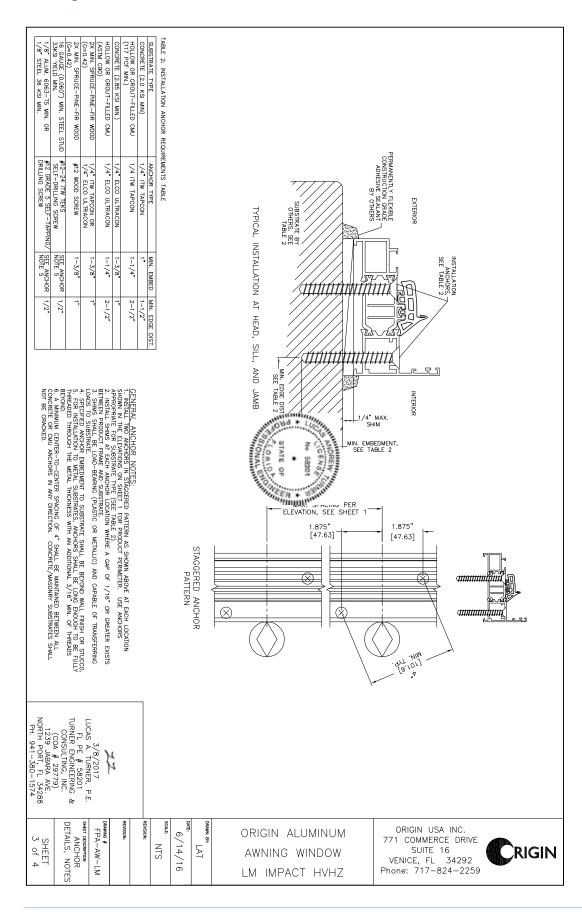




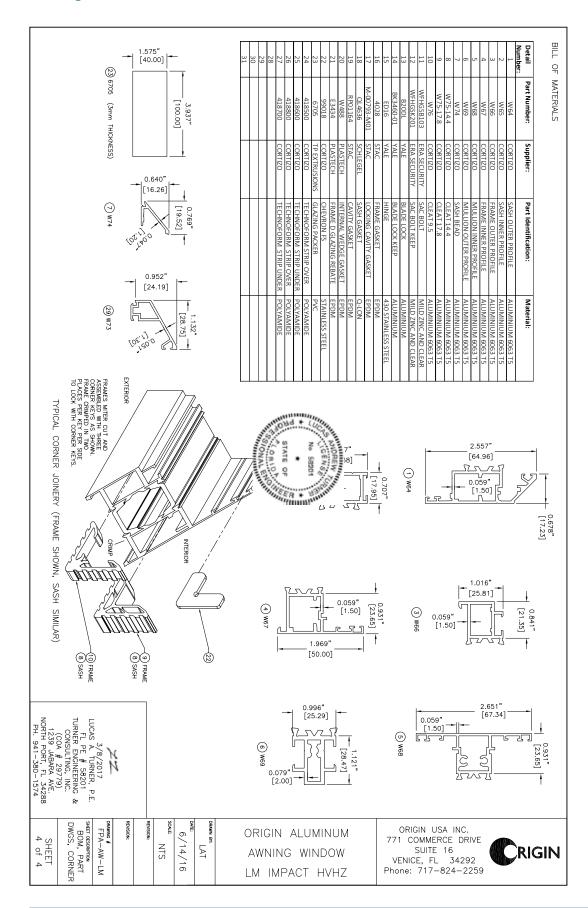




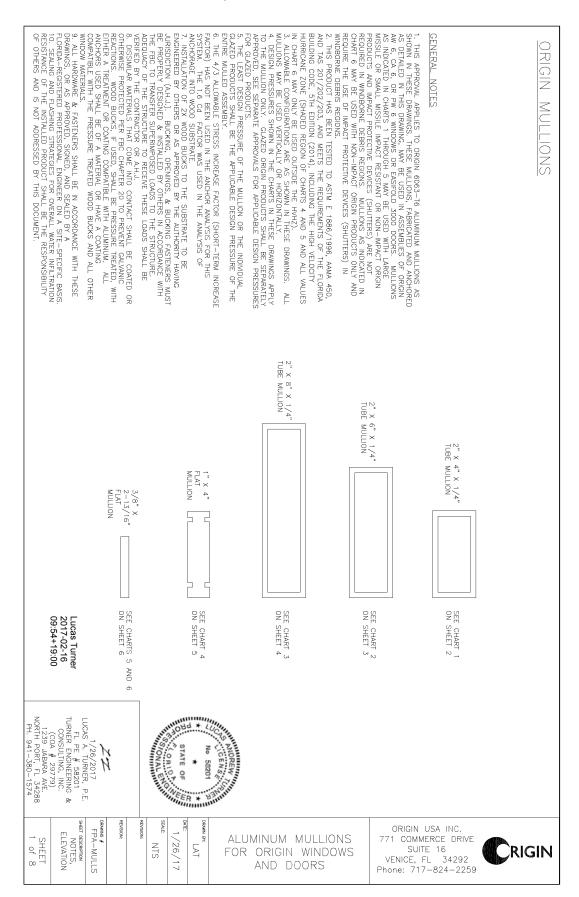


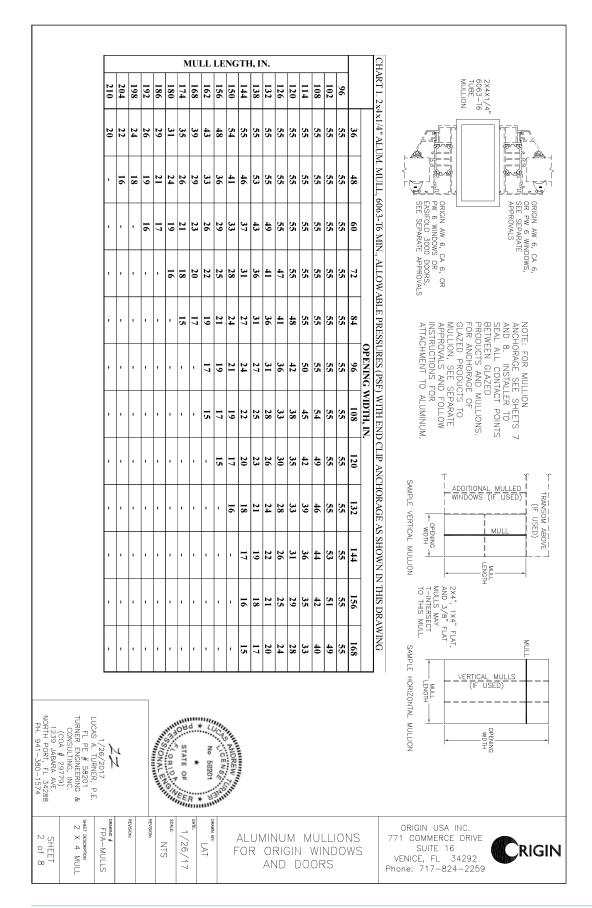


Awning Window FPA Installation Instructions

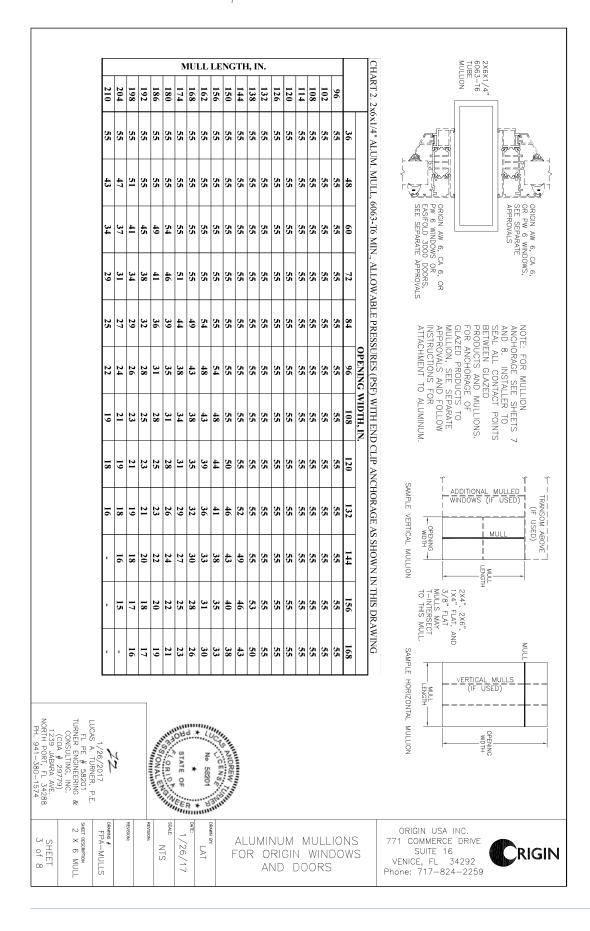


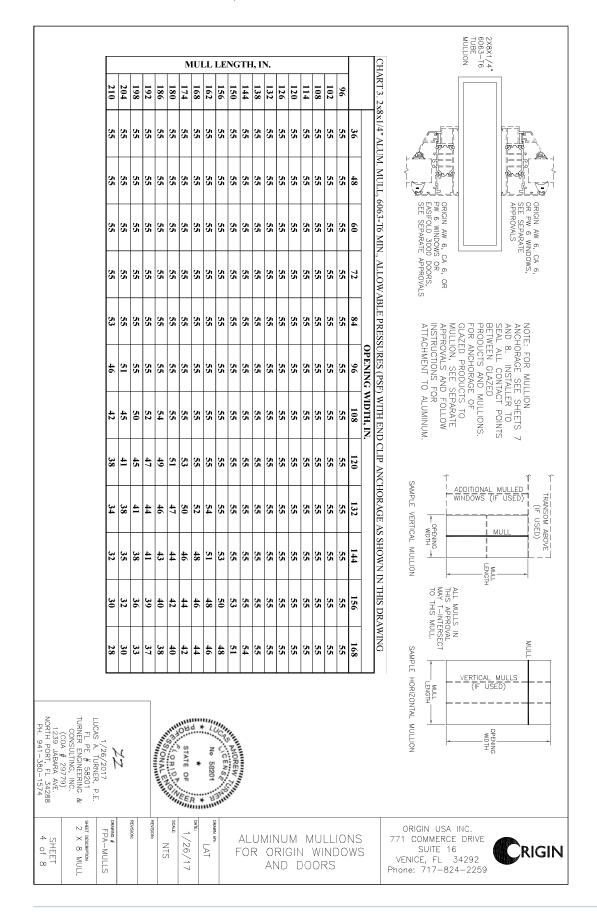




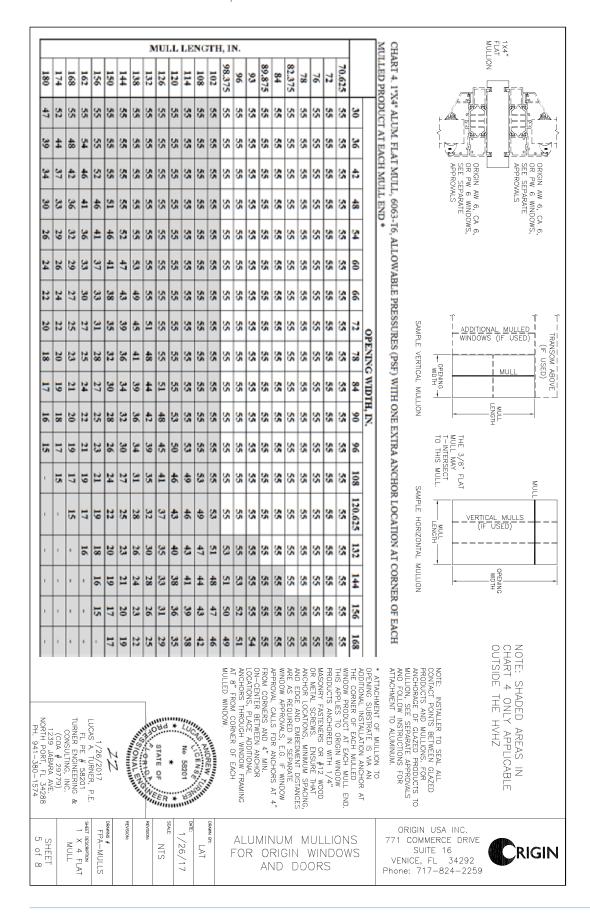






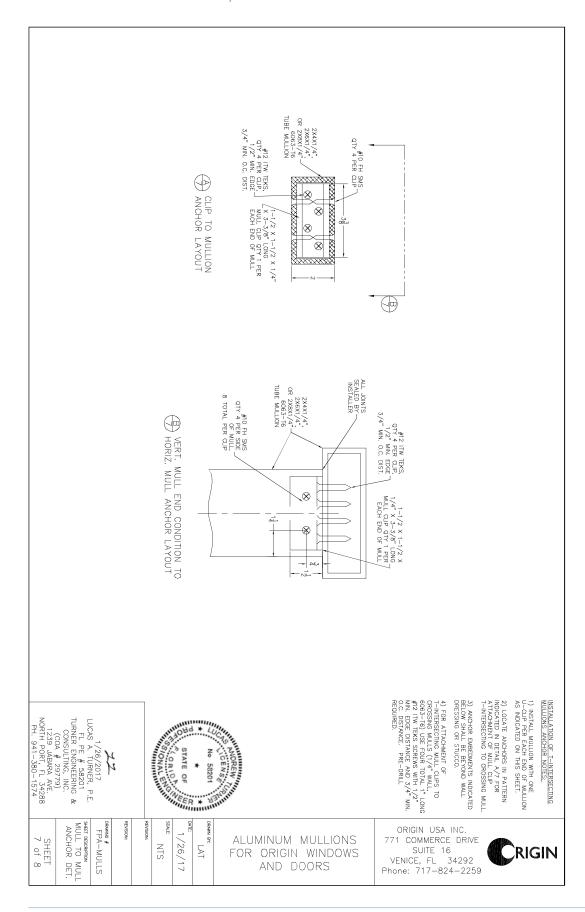


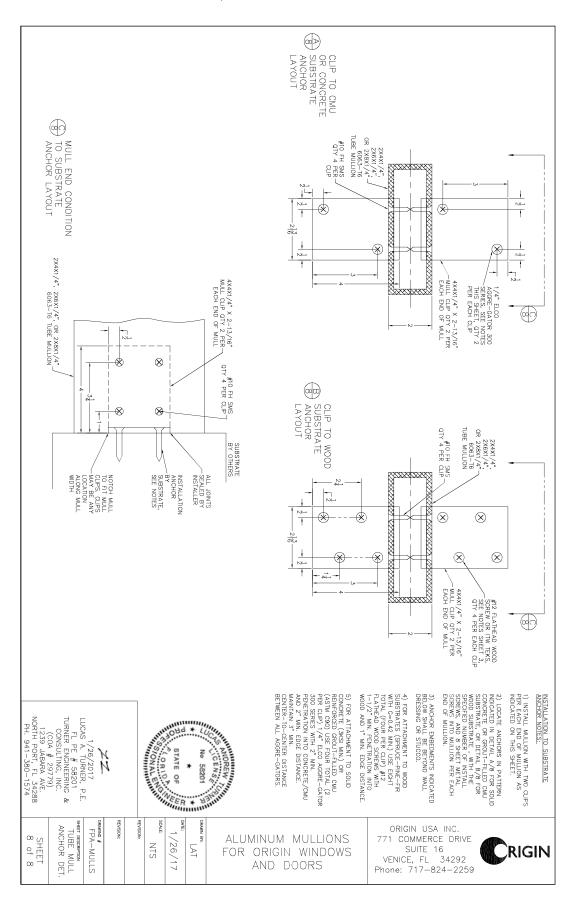




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		ŀ	16	20	24	30	¥	40	#	8		\vdash	S	Н	S	S	14			CHART 6, 3/8°X2-13/16° ALUM FLAT MULL, 6063-T6, NON-IMPACT NON-HVHZ ALLOWABLE PRESSURES (PSF) WITH ONE EXTRA			,		16	20	24	30	30	30	30	30	30	30	30	30	30	30	<u>.</u>		NAT
NORTH PORT, FL 34288	OR OR O		TIBNER FNONFERING	No 58201 LUCAS A. TURNER, P.E.	CENS	NOREW YELL		MULLED WINDOW.	_ I	BETWEEN ANCHOR LOCATIONS. PLACE ADDITIONAL ANCHORS	WINDOW APPROVALS, E.G. IF WINDOW APPROVAL CALLS FOR	ANCHOR LOCATIONS, MINIMUM SPACING, AND EDGE AND FMRED IN SEPARATE	FASTENERS OR #12 WOOD OR METAL SCREWS. ENSURE TI		DDITIONAL INSTALLATION ANCHOR AT THE CORNE	* ATTACHMENT OF MILLION TO OBENING SUBSTRATE IS VIA	AND FOLLOW INSTRUCTIONS FOR ATTACHMENT TO ALUMINUM.	GLAZED PRODUCTS AND MULLIONS. FOR ANCHORAGE OF	NOTE: INSTALLER TO SEAL ALL CONTACT POINTS BETWEEN		APPLICABLE OUTSIDE	_ 5, AND ALL OF CHART 6, ONLY	NOTE: SHADED AREAS IN CHART		OTHER MULLS MAY NOT T-INTERSECT TO THIS MULL.	SAN	- OPENING LENGTH	-	-	DDI MUN LENGTH WIDTH	MULL MULL	<u>D</u> VS=	→ = = - = - = - = - = - = - = - = - = -			/= : =			N.C		
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