

GLAZED STRUCTURES



Soak in the natural surroundings in climate-controlled comfort

Solar Innovations® has been manufacturing the highest-quality glazed structures since 1998 for both commercial and residential applications. There are many different product types that fall under the glazed structures category, including greenhouses, conservatories, sunrooms, walkways, and canopies — with each design limited only by your imagination. From simple to ornate, each structure is constructed of durable, low-maintenance aluminum and is pre-fabricated at our manufacturing facility to ensure a perfect fit at the job site. We offer a wide array of decorative elements to provide the right aesthetic for your design. To provide comfort for both people and plants, low-E glass can be incorporated into the design. Planning a glazed structure can be a daunting task, especially with greenhouses because of all of the accessory options available. However, you can rest assured that our expertly-trained Sales team is available to work with you throughout the planning process, helping you create the structure of your dreams.

FEATURES

SYSTEM:

- Unlimited configurations and designs
- 2" and 2½" interior face widths
- Overlapping construction creates positive drainage within profiles
- LEED friendly system including recycled content

PERFORMANCE:

- Large missile impact tested options
- Thermally broken utilizing thermal fill and debridge

GLAZING:

- Designed to accommodate almost any glazing infill including glass, acrylic, polycarbonate and solid panels, from 1" to 1¾"

PERFORMANCE:

- Air, water, structural, impact, acoustical and thermally tested options

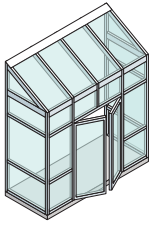
FINISHES:

- Standard AAMA 2603 paint finishes: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
- AAMA 611 Class I anodized finishes: Clear, Dark Bronze
- Standard AAMA 2605 powder coat finishes: Black, White, Sandstone, Natural Clay, Bronze and Hartford Green
- Premium AAMA powder coat finishes
- Custom finishes:
 - Fluoropolymer (50% or 70%): AAMA 2605
 - Faux wood (Decoral)
 - Dual finish — interior/exterior applications

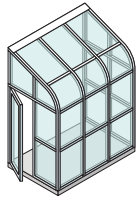
OPTIONS:

- Metal cladding
- Mullions, decorative muntins, simulated divided lites (SDLs), interior and exterior grids

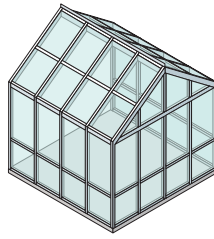
CONFIGURATIONS



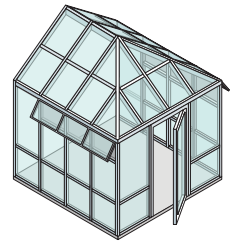
Straight Eave Lean-To



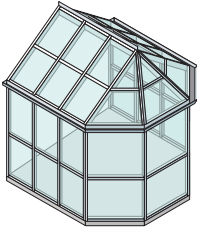
Curved Eave Lean-To



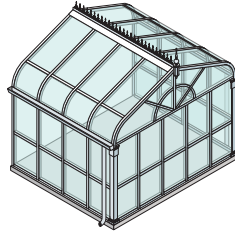
Straight Eave Double Pitch, Gable End



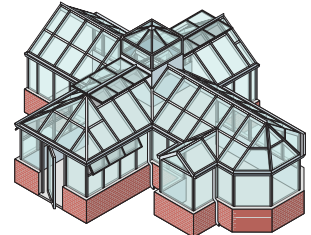
Straight Eave Double Pitch, Hip End



Straight Eave Double Pitch, Bull Nose End



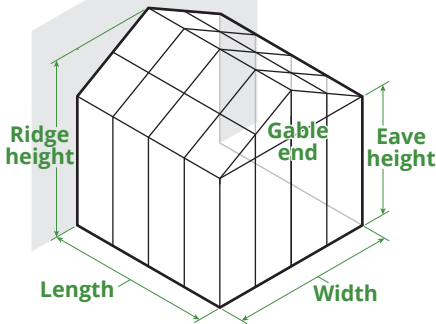
Curved Eave Double Pitch, Gable End



Custom Configuration

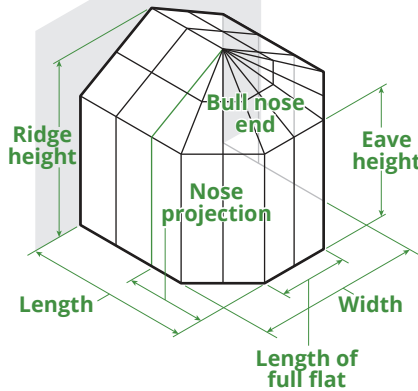
DIMENSION DEFINITIONS

Straight eave double pitch structure attached to a building

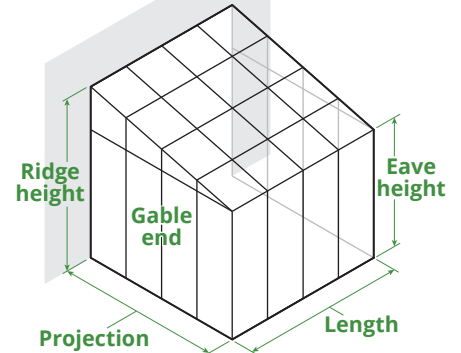


Length and width are used for double pitch structures regardless of whether it is attached to a building

Bull nose (a.k.a. conservatory nose or polygonal end) structure attached to a building

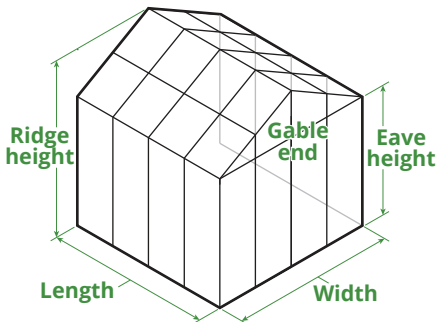


Straight eave lean-to structure attached to a building

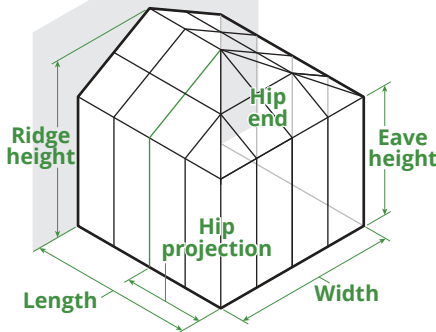


The distance perpendicular to the building on lean-to structures is always called out as the projection

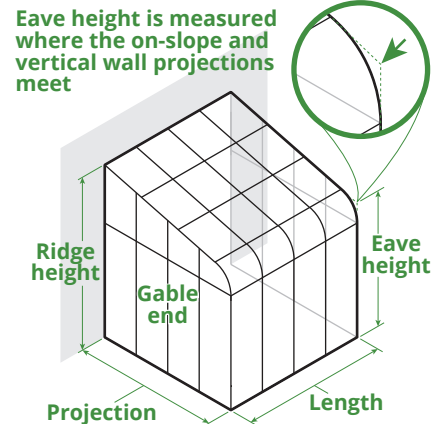
Straight eave double pitch structure freestanding



Hip end structure attached to a building



Curved eave lean-to structure attached to a building

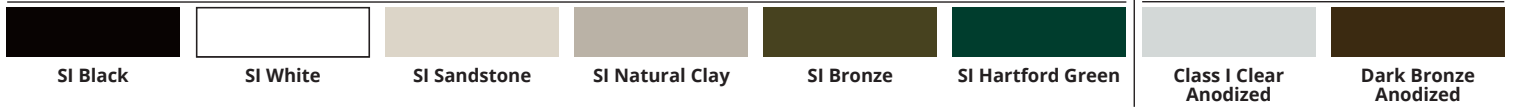


Eave height is measured where the on-slope and vertical wall projections meet



FINISHES

Paint AAMA 2603 (5 year warranty). Finishes available while in stock.

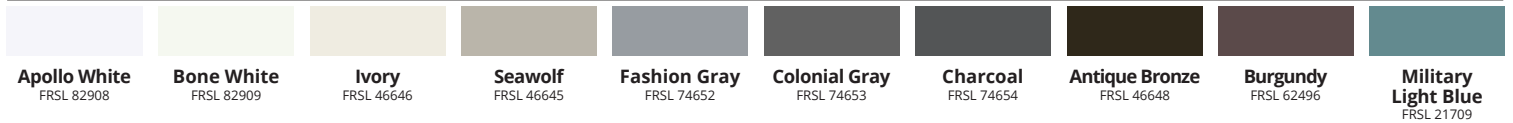


Anodized Additional cost

Powder Coat Solids STANDARD - AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*



Powder Coat Solids PREMIUM - AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*



Visit <https://www.ifscoatings.com/content/assets/Uploads/brochures/IFS-Architectural-Digital-Color-Card.pdf> for additional metallic and anodic finishes.

Metal Clad STANDARD* (EXTERIOR ONLY)



Metal Clad PREMIUM*



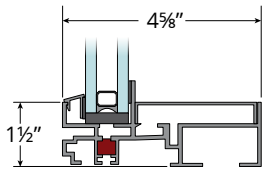
Decoral Finishes (Powder Coat)*



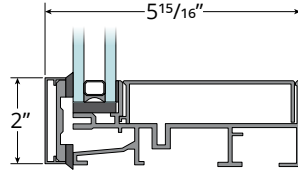
*Lead times subject to availability. ** Special order.

Note: Depending upon color selection, additional charges and increased lead times may apply. Extended warranties and service plans are available for an additional charge. Examples are shown as accurate as photography and printing processes allow. Final finish selection should be made from a physical sample; contact Solar Innovations® for samples. Product and finish options are subject to vendor availability. Solar Innovations® reserves the right to discontinue any option at any time without notice. Additional options, including custom color match, are available; contact Solar Innovations® for details.

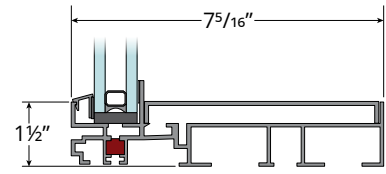
SILLS



Standard Sill

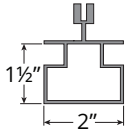


2x4 Sill

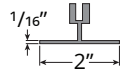


Heavy Sill

MUNTINS

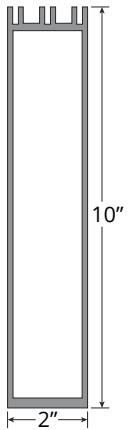


Boxed Muntin

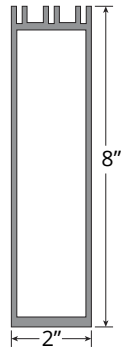


Standard Muntin

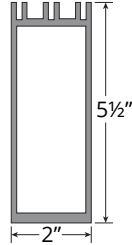
2" SYSTEM RAFTERS



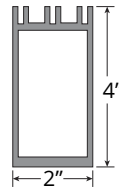
2" x 10"



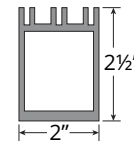
2" x 8"



Heavy Glazing Bar

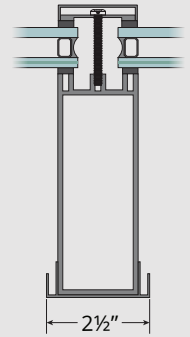


2" x 4"



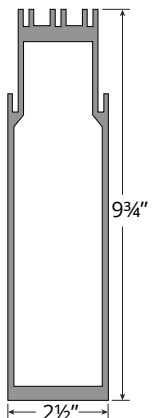
Regular Glazing Bar

CONDENSATION GUTTERS

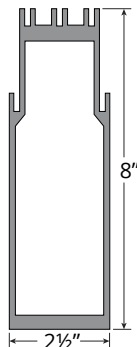


2" System

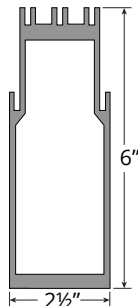
2 1/2" SYSTEM RAFTERS



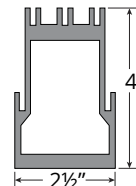
2 1/2" x 9 3/4"



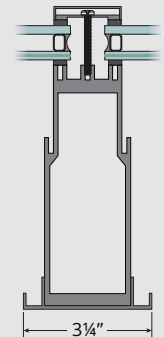
2 1/2" x 8"



2 1/2" x 6"

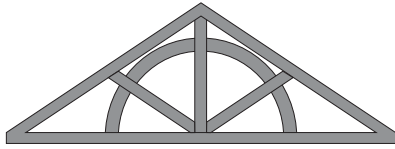


2 1/2" x 4"

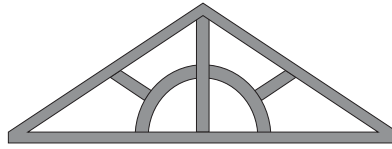


2 1/2" System

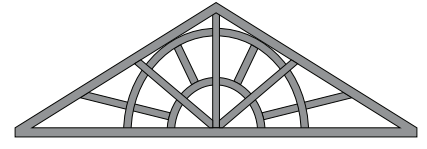
GABLE PEDIMENTS



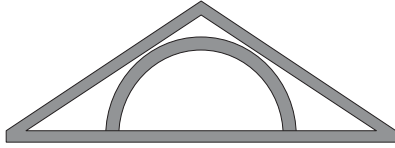
Arched Fan Option 1*



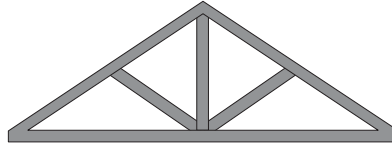
Arched Fan Option 2*



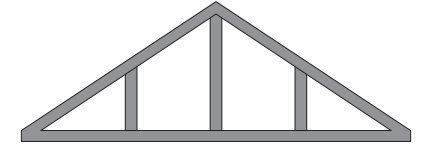
Arched Fan Option 3*



Open Radius*



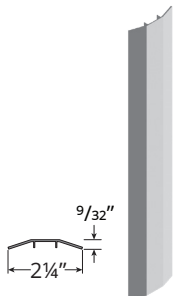
Straight Fan



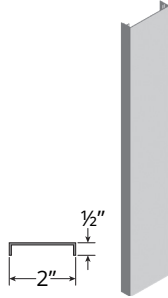
Traditional Gable

* Only available using Simulated Divided Lites.

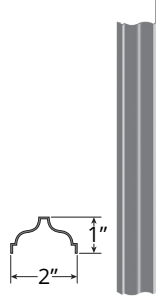
VERTICAL MOULDING



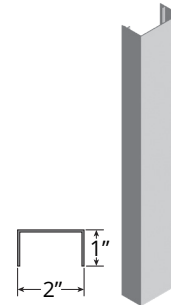
Beveled



Flat

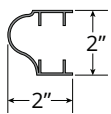
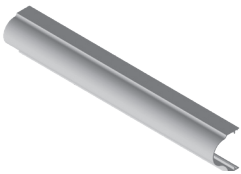


Ogee

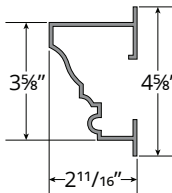
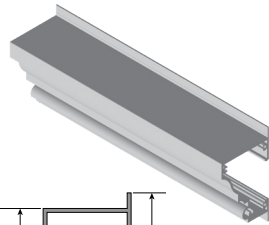


1" Flat

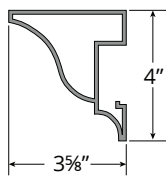
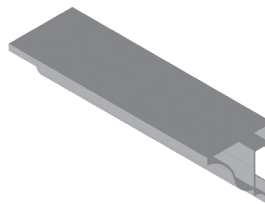
HORIZONTAL MOULDING



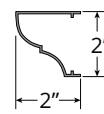
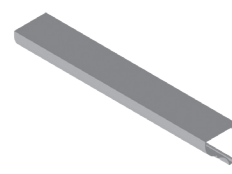
Bulbous



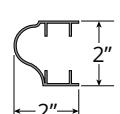
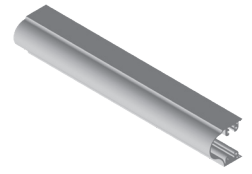
Crown



Cyma

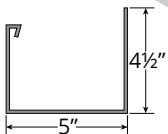
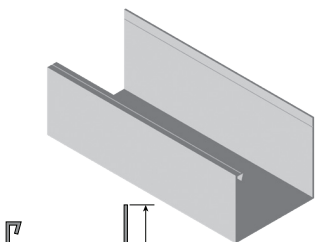


Cyma Reversa

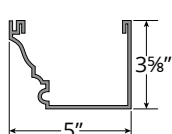
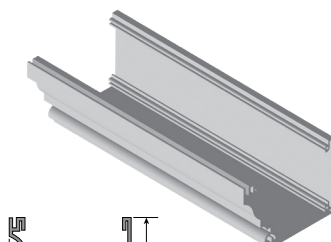


2" Gutter Support

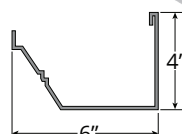
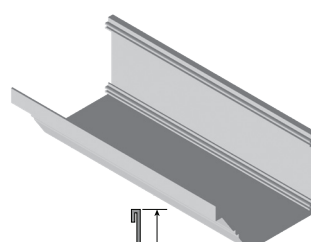
GUTTERS



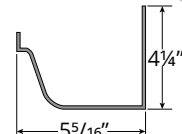
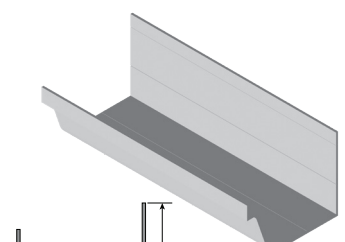
Box



Decorative

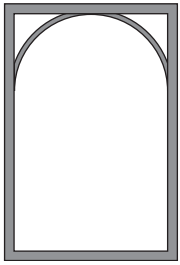


Greenhouse

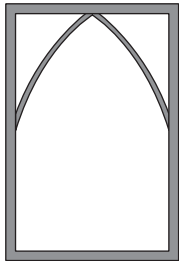


Restoration

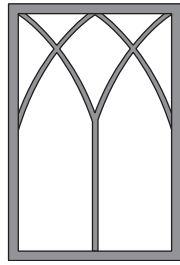
GRIDS



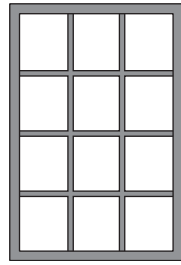
Arched Grid



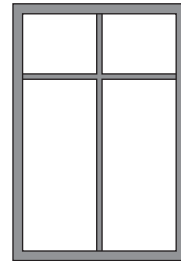
Gothic Grid



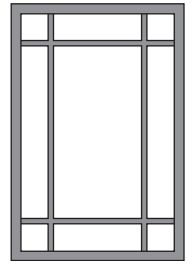
Double Gothic Grid



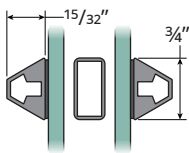
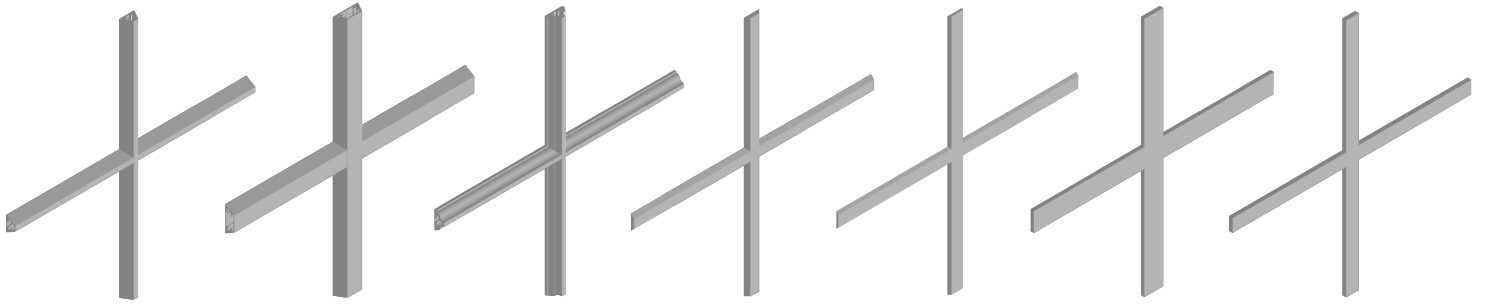
Traditional Grid



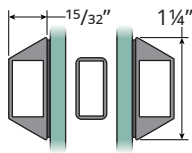
Cross Grid



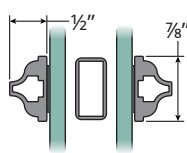
English Grid



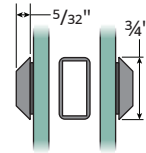
Traditional with SDL



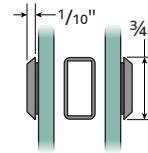
Wide Traditional with SDL



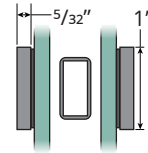
Ogee with SDL



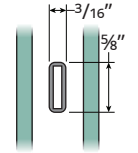
Low Profile with SDL



Thin Low Profile with SDL

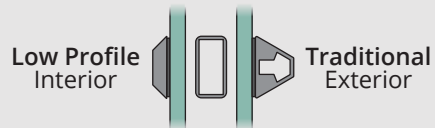


Simulated Steel with SDL

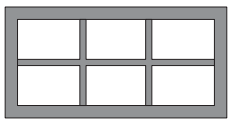


Interior Muntin in Insulated Glass

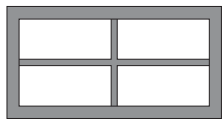
Like-sized grids can be mixed and matched, for example:



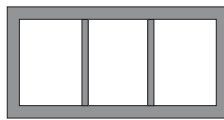
GRIDDED TRANSOMS



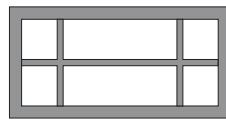
Traditional



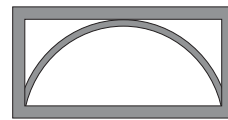
Cross



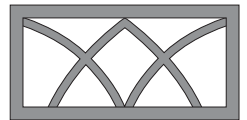
Double Divide



English

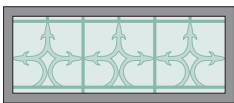


Radius

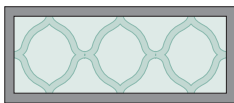


Double Gothic

ETCHED TRANSOMS



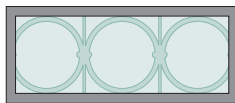
Pattern "A"



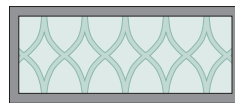
Pattern "B"



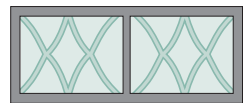
Pattern "C"



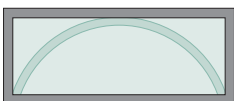
Pattern "D"



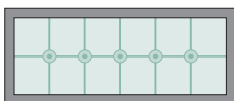
Pattern "E"



Pattern "F"



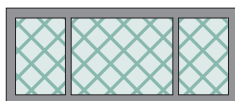
Pattern "G"



Pattern "H"



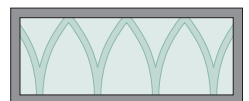
Pattern "I"



Pattern "J"



Pattern "K"



Pattern "L"

FINIALS



7" Fleur de lis



7" Fleur de lis
with curve



6⁵/₈" Fleur de lis



6³/₄" Fleur de lis



7¹/₂" Spire



10³/₄" Spire



4³/₁₆" Ball



Bell Cap



16" Ball
& Spire



15¹/₂" Ball
& Spire



27" Ball
& Spire



21" Ball
& Spire



20¹/₄" Double
Ball & Spire



25¹/₂" Double
Ball & Spire

RIDGE CRESTING



Ivy
CA66



Spire
CA59



Fleur de lis
CA54



Gated
CA75

APPLIQUÉS



Fleur de lis
CA76



Round
CA35



Flower
CA28



Fleur de lis
CA27



Flower
CA23

GLASS SPECIFICATIONS

	Overall Unit Thickness	U-Value	R-Value	Solar Heat Gain Coefficient	Visible Light Transmission	Reflectance Out	Reflectance In	UV Transmittance
DOUBLE GLAZED Outside Lite/Inside Lite								
Clear/Clear	1"	0.46	2.17	0.78	82%	15%	15%	58%
180/Clear	1"	0.26	3.85	0.64	79%	15%	15%	29%
272/Clear	1"	0.25	4.00	0.41	72%	11%	12%	16%
366/Clear	1"	0.24	4.17	0.27	65%	11%	12%	5%
340/Clear	1"	0.25	4.00	0.18	39%	11%	13%	2%
180/i89	1"	0.21	4.76	0.62	77%	15%	14%	27%
272/i89	1"	0.20	5.00	0.41	70%	11%	11%	16%
366/i89	1"	0.20	5.00	0.27	63%	11%	11%	5%
340/i89	1"	0.20	5.00	0.17	38%	11%	12%	2%
Gray/Clear	1"	0.45	2.22	0.60	57%	9%	13%	32%
Gray/180	1"	0.26	3.85	0.49	53%	9%	14%	17%
Gray/272	1"	0.25	4.00	0.38	50%	8%	9%	10%
Bronze/Clear	1"	0.45	2.22	0.62	61%	10%	13%	31%
Bronze/180	1"	0.26	3.85	0.61	59%	10%	14%	17%
Bronze/272	1"	0.25	4.00	0.39	54%	8%	10%	10%
TRIPLED GLAZED Outside Lite/Middle Lite/Inside Lite								
180/Clear/180	1½"	0.15	6.67	0.56	70%	20%	20%	13%
272/Clear/180	1½"	0.15	6.67	0.37	63%	15%	18%	8%
366/Clear/180	1½"	0.15	6.67	0.25	57%	14%	18%	2%
340/Clear/180	1½"	0.15	6.67	0.16	34%	13%	19%	1%

TESTING

Air & Structure Testing						
System	Test Number	Certification	Air Infiltration	Air Exfiltration	Water Penetration	Design Pressure
Lean-To Structure	110-20222-1 (NCTL)	Florida 32489.1	0.06 CFM/ft ² infiltration at 1.6 PSF 0.14 CFM/ft ² infiltration at 6.2 PSF	0.05 CFM/ft ² exfiltration at 1.6 PSF 0.11 CFM/ft ² exfiltration at 6.2 PSF	15.0 PSF and 5.0(gal/h)/m ² , no leakage	+65 PSF

Please Note:

Testing and performance results may vary depending upon sill, size, and hardware selections. Testing and performance is negated if deviations from tested system occurs. Please be sure to visit our website at www.solarinnovations.com or contact your Solar Innovations® representative for additional product information.

To find out more about the features and options of our glazed structures, visit our website at solarinnovations.com or contact one of our sales representatives at 800 618 0669.