IMPACT TESTED PRODUCTS

Durable Solutions Designed to Withstand Any Environment

SOLARINNOVATIONS®
ARCHITECTURAL GLAZING SYSTEMS

About Us

As an industry leader for more than 20 years, Solar Innovations® has a long history that is rooted in the heart of manufacturing with a deep passion for the American dream. As a single source provider of custom glass structures, skylights, windows, doors, and more, Solar strives to endlessly innovate and design custom products throughout the world. Our products continue to develop and grow as a direct result of our dedication to the industry and the creativity of our customers.

By investing in our team and customers, Solar is proud to turn dreams into reality. All of our American made products are designed and manufactured at our campus in Pine Grove, PA, allowing for more flexibility to provide superior products and services. In addition, most of our engineering, product testing, and product designing take place within our facility. By producing as many components as possible in-house, Solar has greater control over quality, lead times, and cost, which ultimately achieve better results for our customers.

Although Solar Innovations® comes from small and humble beginnings, we now reside in a 400,000-square-foot corporate and manufacturing space. With a three-building campus located on over 36 acres of land, Solar continues to develop and grow by creating innovative designs and engineering new product lines. The Solar team strives to forge its path into the future by promoting a strong spirit of unity, with the desire to be better today than yesterday.
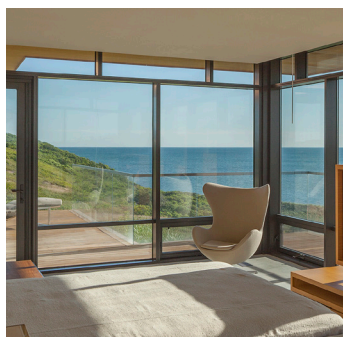

INNOVATIVE

Solar Innovations® – it's in the name. By constantly introducing new ideas with creative ways of thinking, our decisions take standard products to the next level. No project is too big or too small for Solar to handle.

DURABLE

The strength and durability of our products are a promise. The majority of our applications are impact tested in-house, ensuring that Solar's projects can withstand the test of time in any environment.

HIGH-PERFORMING

At Solar, we are about superior results. Our company currently offers the largest, impact rated folding glass walls on the market and constantly strives to create the highest quality product possible.

EASY TO OPERATE

All of Solar's applications are user-friendly and straightforward. No matter the shape, size, or type of project you may have, our products remain practical and manageable for the ultimate customer experience.

Impact Testing

Impact and cycling testing is a vital part of product evaluation and progression at Solar Innovations®. By testing and measuring an object's ability to resist high-speed impacts and pressured environments, Solar is able to deliver a safer and more durable product.

Impact and cycling tests consist of a calibrated wooden 2x4 being shot at a product out of a pressurized canon. This emulates both the impact and wind pressure of debris the product could possibly experience during extreme weather conditions. Once impact tests are completed and passed pressure is simulated with cyclic blower. By testing and retesting our products, Solar is able to verify whether or not a product can handle the intensity of various pressures and storms.

Regardless of your needs, Solar Innovations® suggest that you should always consult your local building official when determining impact rating requirements.

SI3000 G2 Folding Glass Wall*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
90° No Post Aluminum Reinforced	3' X 8'	FL #12278.1	±80psf	Up to 12psf	Yes
Outfold All Wall Aluminum Reinforced	3' X 8'	FL #12278.2	±80psf	Up to 9psf	Yes
Outfold Aluminum Reinforced	3' X 8'	FL #12278.3	±80psf	Up to 9psf	Yes
Infold Aluminum Reinforced	3' X 8'	FL #12278.4	±55psf	Up to 9psf	Yes
Outfold Not Reinforced	3' X 7'6"	FL #12278.5	±55psf	Up to 4psf	Yes
Infold Radius Wall Aluminum Reinforced	3' X 8'	FL #12278.6	±70psf	Up to 9psf	Yes

SI3000 G3 Folding Glass Wall*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
G3 Folding Glass Wall Outfold	3' X 10'	FL #13407.1	±70psf	Up to 10psf	No
90° No Post — Flush Sill	3'6" x 9'6"	FL #13407.2	±55psf	Up to 9psf	Yes
90° No Post — Standard Sill	3'6" x 9'6"	FL #13407.3	±80psf	Up to 9psf	Yes
Infold	3'6" x 9'6"	FL #13407.3	±70psf	Up to 9psf	Yes
Outfold	3'6" x 9'6"	FL #13407.5	±70psf	Up to 12psf	Yes
Outfold Lite Rail	3'6" x 9'6"	FL #13407.6	±50psf	Up to 12psf	Yes

*Additional sizes are available at taller or wider dimensions based on design pressure and extrapolation charts.

SI8000 Sliding Glass Doors & SI8100 Lift Slide Doors*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
G2 Sliding Glass Door	60½" x 99"	FL #16028.1	±65psf	Up to 12psf	Yes
G3 Sliding Door (90° No Post)	60½" x 114⅜"	FL #17268.1	±60psf	Up to 8psf	Yes
G3 Multi-Track Sliding Glass Door	60½" x 114⅜"	FL #17268.2 FL #17268.3	±70psf	Up to 10psf	Yes
G3 Lift Slide Door	60½" x 114⅜"	FL #17287.1	±70psf	Up to 12psf	Yes
Vinyl OXXO Sliding Glass Door	48" x 96"	FL #28884.1	±50psf	Up to 7.5psf	Yes

SI2000 Swing Doors*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
G2 Outswing Terrace with Sidelites	32¹¹/₁₆" x 93½"	FL #17582.3	±50psf	Up to 12psf	No
G3 LT Outswing French	44" x 104⅛"	FL #17582.4	±40psf	Up to 12psf	Yes

SI5100 Curtain Walls*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
Aluminum Fixed	60" x 120"	FL #18578.2	±65psf	Up to 20psf	Yes
Butt Glazed Corner	28⅛" x 114¼"	FL #18578.3 FL #18578.4	±60psf	Up to 15psf	No

*Additional sizes are available at taller or wider dimensions based on design pressure and extrapolation charts.

PROJECT SPECIFIC ONSITE TESTING AND NON-IMPACT PRODUCT NUMBERS AVAILABLE
Solar Innovations® has two in-house test labs that provide the company with the unique ability to quickly complete project specific testing on air, water, impact, non-impact, and structural products. Many of Solar's products are approved with Non-Impact Florida Product Numbers including folding glass walls, sliding glass doors, fixed and operable skylights, windows, and more.

SI7000 Window Systems*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
G2 International Awning Window	36" x 72"	FL #17265.1	±65psf	Up to 12psf	Yes
G2 International Hopper Window	48" x 32"	FL #17265.2	±65psf	Up to 9.8psf	Yes
G2 International Casement Window	36" x 72"	FL #17266.1	±65psf	Up to 12psf	Yes
G2 International Fixed Window	36" x 72"	FL #17267.1	±65psf	Up to 15psf	Yes
SI4500 Vinyl-Composite Fixed Window	36" x 48"	FL #21405.1	±56.5psf	Up to 15psf	No
SI4500 Vinyl-Composite Fixed Window	36" x 48"	FL #21646.1	±65psf	Up to 15psf	No
Mulled Fixed Window	60" x 60"	FL #18578.1	±80psf	Up to 15psf	No
G2 International Tilt Turn Window	60" x 94"	FL #22640.1	±60psf	Up to 20psf	Yes

SI5200 Skylights*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
FLat Welded Curb Skylight	36" x 72"	FL #11259.1	±80psf	Up to 30psf	Yes
Variable Pitch Welded Curb Skylight	48" x 66½"	FL #11259.2	±65psf	Up to 30psf	Yes
Side-Glazed Skylight	49¾" x 97¾"	FL #11259.4	±65psf	Up to 12psf	No
Bi-Parting Skylight	111⅞" x 47"	FL #17581.1	±45psf	Up to 6.9psf	No
90° Operable Skylight	86⁵/₁₆" x 66¹¹/₁₆"	FL #17581.2	±40psf	Up to 15psf	No

*Additional sizes are available at taller or wider dimensions based on design pressure and extrapolation charts.