

# IMPACT TESTED PRODUCTS

Durable Solutions Designed to Withstand Any Environment



# 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
<b>90° No Post Infold Aluminum Reinforced</b>	36" x 96"	FL #12278.1	Up to ±80 PSF	Up to 9 PSF	Yes
<b>Outfold All Wall Aluminum Reinforced</b>	36" x 96"	FL #12278.2	Up to ±80 PSF	Up to 12 PSF	Yes
<b>Outfold Aluminum Reinforced</b>	36" x 96"	FL #12278.3	Up to ±80 PSF	Up to 9 PSF	Yes
<b>Infold Aluminum Reinforced</b>	36" x 96"	FL #12278.4	Up to ±80 PSF	Up to 9 PSF	Yes
<b>Outfold Not Reinforced</b>	36" x 90"	FL #12278.5	Up to ±55 PSF	Up to 4 PSF	No
<b>Infold Radius Wall Aluminum Reinforced</b>	36" x 96"	FL #12278.7	Up to ±70 PSF	Up to 9 PSF	Yes

## SI3000 G3 Folding Glass Wall\*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
<b>Outfold 3' x 10'</b>	36" x 120"	FL #13407.1	Up to ±70 PSF	Up to 10.5 PSF	No
<b>90° No Post Infold — Flush Sill</b>	42" x 114"	FL #13407.2	Up to ±55 PSF	Up to 9 PSF	Yes
<b>90° No Post Infold — Standard Sill</b>	42" x 114"	FL #13407.3	Up to ±80 PSF	Up to 9 PSF	Yes
<b>90° No Post — Outfold</b>	42" x 114"	FL #13407.4	Up to ±80 PSF	Up to 9 PSF	Yes
<b>Infold Standard Rail</b>	42" x 114"	FL #13407.5	Up to ±70 PSF	Up to 9 PSF	Yes
<b>Outfold Standard Rail</b>	42" x 114"	FL #13407.6	Up to ±70 PSF	Up to 12 PSF	Yes
<b>Outfold Lite Rail</b>	42" x 114"	FL #13407.7	Up to ±50 PSF	Up to 12 PSF	Yes

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



## SI8000 Sliding Glass Doors & SI8600 Lift Slide Doors\*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
G2 Sliding Glass Door	60½" x 99"	FL #16028.1	Up to ±65 PSF	Up to 12 PSF	Yes
G2 Sliding Glass Door (Non-HVHZ)	60½" x 99"	FL #16028.2	Up to ±65 PSF	Up to 12 PSF	No
G3 Sliding Door (90° No Post)	60½" x 114¾"	FL #17268.1	Up to ±60 PSF	Up to 8 PSF	No
G3 Multi-Track Sliding Glass Door	63¾" x 114¾"	FL #17268.3	Up to ±70 PSF	Up to 10.6 PSF	No
G3 Lift Slide Door	63¾" x 114¾"	FL #17287.1	Up to ±70 PSF	Up to 12 PSF	No

## SI2000 Swing Doors\*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
G2 Outswing Terrace w/Sidelites (HP Sill)	39" x 108¾"	FL #17582.2	Up to ±50 PSF	Up to 12 PSF	No
G2 Outswing Terrace w/Sidelites	32 <sup>11</sup> / <sub>16</sub> " x 93½"	FL #17582.3	Up to ±50 PSF	Up to 6 PSF	No
G3 LT Outswing French	44" x 104¾"	FL #17582.4	Up to ±40 PSF	Up to 12 PSF	Yes

## SI5100 Curtain Walls\*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
2X4 — Aluminum Fixed	60" x 90"	FL #18578.1	Up to ±65 PSF	Up to 12 PSF	No
G2 HGB — Aluminum Fixed	60" x 120"	FL #18578.2	Up to ±65 PSF	Up to 20 PSF	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	Up to ±65 PSF	Up to 12 PSF	No
G2 International Hopper Window	48" x 32"	FL #17265.2	Up to ±65 PSF	Up to 9.8 PSF	No
G2 International Casement Window	36" x 72"	FL #17266.1	Up to ±65 PSF	Up to 12 PSF	No
G2 International Fixed Window	36" x 72"	FL #17267.1	Up to ±65 PSF	Up to 15 PSF	No
G2 Frame Back-to-Back Mullion	Varies	FL #21405.1	Varies	Varies	No
G2 International HP Tilt Turn Window	60" x 99"	FL #22640.1	Up to ±60 PSF	Up to 20 PSF	No

## SI5200 Skylights\*

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
Flat Welded Curb Skylight	36" x 72"	FL #11259.1	Up to ±80 PSF	Up to 30 PSF	Yes
Variable Pitch Welded Curb Skylight	48" x 66½"	FL #11259.2	Up to ±65 PSF	Up to 30 PSF	Yes

## SI5200 Structures

PRODUCT	PANEL SIZE	FLORIDA APPROVAL#	DP RATING	WATER PENETRATION	HVHZ APPROVAL
SI5200 Lean-To Structure	35½" x 76⅞"	FL #32489.1	Up to ±65 PSF	Up to 15 PSF	No

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