

# StructuresUnlimited

ENGINEERING DAYLIGHT



## Pre-engineered Pool Enclosures

800 225 3895

| [StructuresUnlimitedInc.com](http://StructuresUnlimitedInc.com)

| +1 603 645 6539



- Natural, glare-free diffused daylighting
- Low solar heat gain coefficients
- Low condensation & corrosion resistance
- Low maintenance requirements
- Clearspans™ of over 120 feet (36 meters)
- Aluminum framing systems
- Truss systems available
- Engineering & project management
- Single source responsibility



photo: courtesy of Stephen Casey, Architect

### Residential Projects

- Simplify design & coordination
- Design & budget assistance
- Fast reliable factory installation
- Cost effective turn key solutions
- Meets local building codes
- Energy efficient & sustainable
- Corrosion resistant system & finish
- 100% made in the USA

## Resilient, Reliable and High Performance

All of Structures Unlimited systems are engineered to withstand the toughest environments from hail storms and hurricane winds, to high snow and drift loads. Kalwall® translucent panels are secured to aluminum box beam members to form a rigid, cohesive structure. The unique panel overlap system provides a “shingle effect”, virtually eliminating leaks, while our thermally-broken system improves the building envelope performance by reducing solar heat gain and heat loss.

## Renovation Projects

- Enhance aesthetics of your indoor pool
- Energy efficient panel design
- Updated operable roof systems
- Hurricane high impact design options
- Existing structural aluminum framework can be reused saving time & money
- Proven track record over 45 years



photo: courtesy of Kitchen & Associates



**Performance Data: 2-3/4" (70mm) Panel**

FRP Face Sheet Combinations		Visible Light Transmission (VLT) % by NFRC 202					Solar Heat Gain Coefficient @ 0° by NFRC 201				
Exterior FRP	Interior FRP	0.53 U	0.29   <b>0.23 U</b>	0.22   <b>0.14 U</b>	0.18   <b>0.10 U</b>	<b>0.05 U</b>	0.53 U	0.29   <b>0.23 U</b>	0.22   <b>0.14 U</b>	0.18   <b>0.10 U</b>	<b>0.05 U</b>
Crystal	White	37%	26%	13%	7%	20%	0.33	0.31	0.18	0.14	0.27
White	White	23%	16%	9%	4%	14%	0.26	0.25	0.16	0.11	0.20
Crystal	Crystal	58%	35%	14%	9%	N/A	0.55	0.36	0.20	0.14	N/A

**Performance Data: 4" (100mm) Panel**

FRP Face Sheet Combinations		Visible Light Transmission (VLT) % by NFRC 202				Solar Heat Gain Coefficient @ 0° by NFRC 201			
Exterior FRP	Interior FRP	<b>0.55 U</b>	<b>0.15 U</b>	<b>0.08 U</b>	<b>0.05 U</b>	<b>0.55 U</b>	<b>0.15 U</b>	<b>0.08 U</b>	<b>0.05 U</b>
Crystal	White	37%	13%	5%	N/A	0.52	0.09	0.04	N/A
White	White	23%	11%	4%+	N/A	0.38	0.06	0.04*	N/A
Crystal	Crystal	58%	17%	6%	N/A	0.65	0.11	0.07	N/A

U-value SI conversion: 1.0 W/m²K = 0.176 Btu/hr/ft²/°F

= Air Gap Only
  = Fiberglass 'Batts'
  = Lumira® Aerogel

**U-values shown in bold denote thermally-broken grid core panels.**

Visible light transmission (VLT) - NFRC 202 as noted. VLT percentages over 30% are not recommended for most Kalwall applications.

Panel U-values include panel grid-core by NFRC 100 or 102. NFRC certified system U-values vary depending on framing. Project-specific Information available by request.

Shading Coefficient (SC) is equal to 1.15 times the Solar Heat Gain Coefficient (SHGC). \*By calculation only (not by NFRC 201). By calculation only (not by NFRC 202)



Structures Unlimited, Inc. is continually engaged in research to improve our products. Therefore, the material in this brochure is descriptive in nature and does not constitute a warranty, either express or implied. Please contact us for a copy of the warranty that is given with the sale of our products.

Clearspan is a trademark of Structures Unlimited, Inc. Kalwall is a registered trademark of Kalwall Corporation.  
 10 | 22 | 2019 ©2019 Structures Unlimited, Inc. Lumira is a registered trademark of Cabot Corporation.

