KALWALL®

high performance translucent building systems



photo: Bruce Damonte

SKYLIGHTS

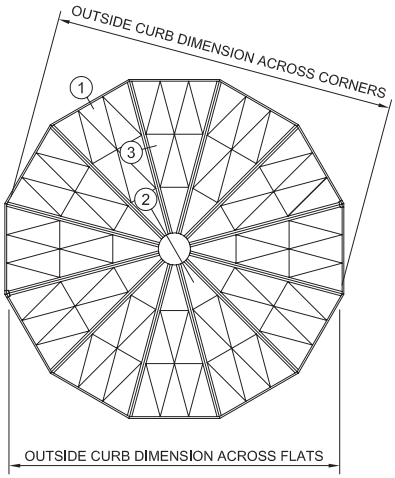
Geo-Roofs®

Pyramids

S-lines

KALWALL.COM

Geo-Roofs®



GEO-ROOF PLAN VIEW



Preferred Credit, Inc. Headquarters | Saint Cloud, MN

Miller Architects & Builders, Inc.

Standard Skylights

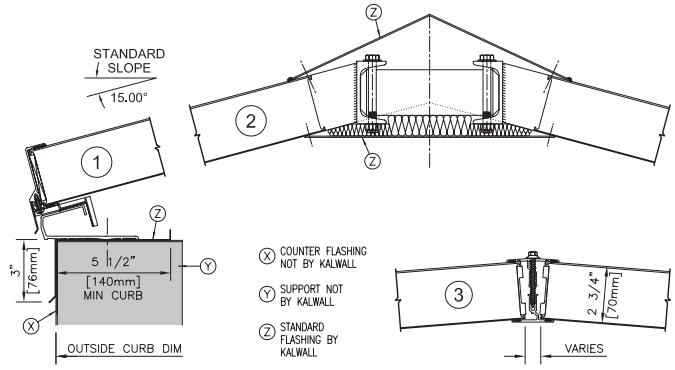
Geo-Roofs, Pyramids & S-line skylights are all available in many standard sizes to offer both value and selection. All three standard skylight configurations offer superior thermal performance while providing museum-quality daylighting™ to illuminate interiors while reducing energy consumption.

Solar Heat Gain Coefficients (SHGC) from 0.65 to 0.04

U-factors range from 0.53 to 0.05 (3.01 to 0.28 W/m²K)

Visible Light Transmission (VLT) Values from 3% to 50%

Complimentary Daylight Modeling Simulation Studies



Standard Geo-Roofs: sizes from 8' (2438 mm) to 24' (7315 mm) outside curb dimension (O.C.D.) across flats in 1' (305 mm) increments as shown above.

Standard Sizes O.C.D. Across Flats	Shipping Information	# of Sides	O.C.D. Across Corners	O.C.D. @ Each Side	Horizontal Thrust Each Curb Segment*
8'-0" (2438 mm)	factory welded	8	8'-7-15/16" (2640 mm)	3' - 3-3/4" (1010 mm)	350 lb (1557 N)
9'-0" (2743 mm)	shipped in 2 units	8	9'-8-7/8" (2969 mm)	3' - 8-3/4" (1137 mm)	440 lb (1958 N)
10'-0" (3048 mm)	shipped in 2 units	8	10'-9-7/8" (3299 mm)	4' - 1-11/16" (1262 mm)	545 lb (2425 N)
11'-0" (3353 mm)	shipped in 2 units	8	11'-10-7/8" (3629 mm)	4' - 6-11/16" (1389 mm)	660 lb (2936 N)
12'-0" (3658 mm)	shipped in 2 units	8	12'-11-7/8" (3959 mm)	4' - 11-5/8" (1515 mm)	780 lb (3470 N)
13'-0" (3962 mm)	shipped in 2 units	10	13'-8" (4166 mm)	4' - 2-11/16" (1287 mm)	720 lb (3203 N)
14'-0" (4267mm)	shipped in 2 units	10	14'-8-5/8" (4486 mm)	4' - 6-9/16" (1386 mm)	835 lb (3714 N)
15'-0" (4572 mm)	shipped in 2 units	10	15'-9-1/4" (4807 mm)	4' - 10-1/2" (1486 mm)	960 lb (4270 N)
16'-0" (4877 mm)	shipped in 2 units	12	16'-6-3/4" (5048 mm)	4' - 3-7/16" (1307 mm)	900 lb (4003 N)
17'-0" (5182 mm)	shipped in 12 units	12	17'-7-3/16" (5364 mm)	4' - 6-11/16" (1389 mm)	1015 lb (4515 N)
18'-0" (5486 mm)	shipped in 12 units	12	18'-7-5/8" (5680 mm)	4' - 9-7/8" (1470 mm)	1140 lb (5071 N)
19'-0" (5791 mm)	shipped in 14 units	14	19'-5-7/8" (5940mm)	4' - 4-1/16" (1322 mm)	1080 lb (4804 N)
(A) 20'-0" (6096 mm)	shipped in 14 units	14	20'-6-3/16" (6253 mm)	4' - 6-3/4" (1391 mm)	1055 lb (4693 N)
(B) 21'-0" (6401 mm)	shipped in 14 units	14	21'-6-1/2" (6566 mm)	4' - 9-1/2" (1461 mm)	1005 lb (4471 N)
(C) 22'-0" (6706 mm)	shipped in 14 units	14	22'-6-13/16" (6879 mm)	5' - 0-1/4" (1530 mm)	930 lb (4137 N)
(C) 23'-0" (7010 mm)	shipped in 16 units	16	23'-5-7/16" (7149 mm)	4' - 6-7/8" (1394 mm)	885 lb (3937 N)
(D) 24'-0" (7315 mm)	shipped in 16 units	16	24'-5-5/8" (7458 mm)	4' - 9-5/16" (1456 mm)	790 lb (3514 N)

Span designed for 25 PSF (1197 Pa) Wind Load and 40 PSF (1915 Pa) Snow Load, except as noted: (A) = 35 PSF (1676 Pa) Snow Load; (B) = 30 PSF (1436 Pa) Snow Load; (C) = 25 PSF (1197 Pa) Snow Load; (D) = 20 PSF (958 Pa) Snow Load. Kalwall+Lumira® aerogel and Kalwall100 are not available in Geo-Roof configurations.

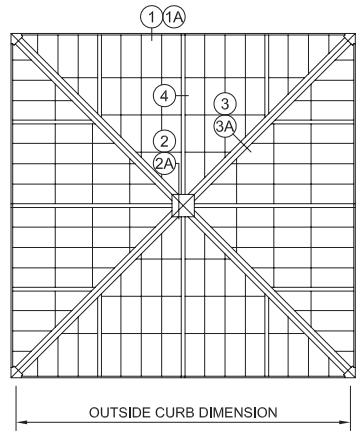
*Thrust loads on each side of curb must be provided for by others. Geo grid pattern standard. Standard Geo-Roofs have a 15° slope on all sides.

Pyramids

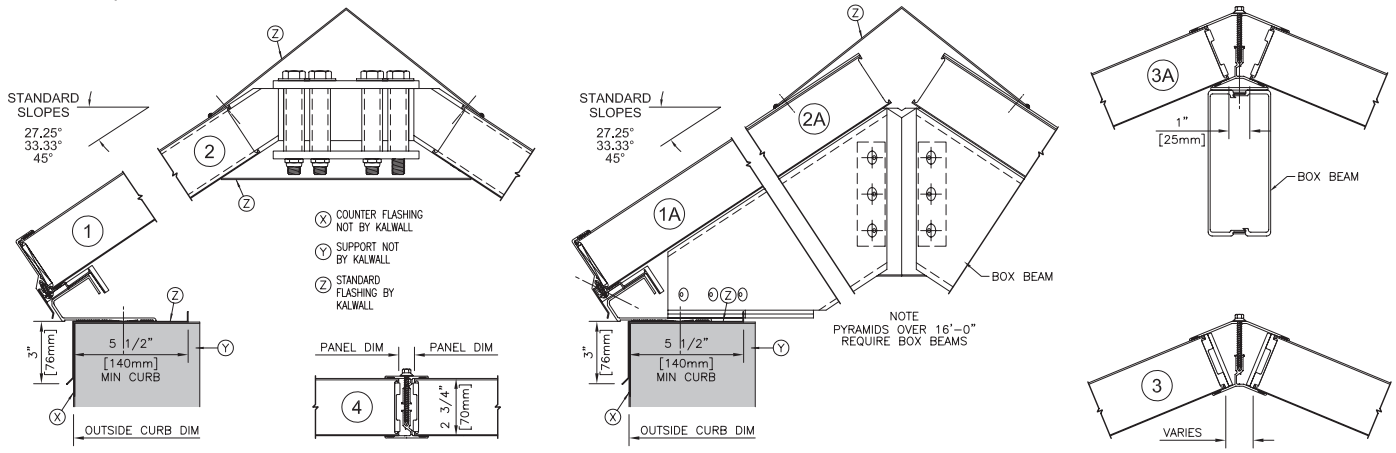


Paradise Valley Community College | Phoenix, AZ

Smith Group JJR



PYRAMID PLAN VIEW



Standard Pyramids: sizes from 4' x 4' (1220 mm x 1220 mm) to 20' x 20' (6096 mm x 6096 mm) outside curb dimension (O.C.D.) in 1' (305 mm) increments

Standard Sizes O.C.D.		Factory Pre-Assembled	Field Assemby Required	Exposed Box Beams	# of Panels per Side	Maximum Horizontal Thrust Load per Side*	
4'-0"	(1220 mm)	Yes	No	No	1	100 lb	(445 N)
5'-0"	(1524 mm)	Yes	No	No	1	160 lb	(712 N)
6'-0"	(1829 mm)	Yes	No	No	1	225 lb	(1001 N)
7'-0"	(2134 mm)	Yes	No	No	1	310 lb	(1379 N)
8'-0"	(2438 mm)	Yes	No	No	1-2***	400 lb	(1779 N)
9'-0"	(2743 mm)	No	Yes	No	2	510 lb	(2269 N)
10'-0"	(3048mm)	No	Yes	No	2	625 lb	(2780 N)
11'-0"	(3353 mm)	No	Yes	No	2	760 lb	(3381 N)
12'-0"	(3658 mm)	No	Yes	No	2	900 lb	(4003 N)
13'-0"	(3962 mm)	No	Yes	No	2-4***	1060 lb	(4715 N)
14'-0"	(4267 mm)	No	Yes	No	4	1225 lb	(5449 N)
15'-0"	(4572 mm)	No	Yes	**	4	1410 lb	(6272 N)
16'-0"	(4877 mm)	No	Yes	**	4	1600 lb	(7117 N)
17'-0"	(5182 mm)	No	Yes	Yes	4	1810 lb	(8051 N)
18'-0"	(5486 mm)	No	Yes	Yes	4	2025 lb	(9008 N)
19'-0"	(5791 mm)	No	Yes	Yes	4	2260 lb	(10053 N)
20'-0"	(6096 mm)	No	Yes	Yes	4	2500 lb	(11121 N)

Span designed for 25 PSF (1197 Pa) Wind Load and 40 PSF (1915 Pa) Snow Load.

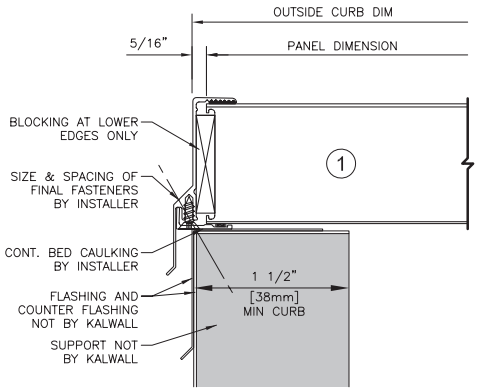
*Thrust Loads on each side of curb must be provided for by others. Shoji grid pattern standard: 12" x 24" (300 mm x 600 mm). Standard Pyramids available in 27°, 33° & 45° slopes.

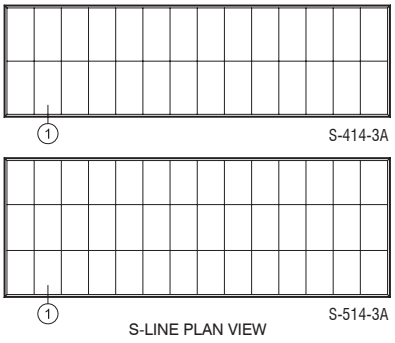
**May require box beam framing. Required for 15' (4572 mm) > 35 PSF (1676 Pa) Snow Load and 16' (4877 mm) > 25 PSF (1197 Pa) Snow Load

***1 @ 27°, 33° | 2 @ 45° & 2 @ 27°, 33° | 4 @ 45°

Please visit KALWALL.COM for all standard skylight specifications, CAD details, BIM families & performance charts online

S-lines





S-LINE PLAN VIEW

S-line Skylight Features

- Shatterproof FRP face sheets
- Super-fast delivery options available
- OSHA compliant - man safe design
- Factory-sealed aluminum perimeter curb
- Can withstand Class A burning brand



Wisner-Pilger Public Schools | Wisner, NE

BVH Architecture

S-lines: 4' (1220 mm) wide flat-curb type unit skylights				**S-lines:** 5' (1524 mm) wide flat-curb type unit skylights			
Product #	**Standard Unit Sizes 4' (1220 mm) O.C.D.**			**Product #**	**Standard Unit Sizes 5' (1524 mm) O.C.D.**		
S-44-3A	4'-0" (1220 mm)	X	4'-0" (1220 mm)				
S-45-3A	4'-0" (1220 mm)	X	5'-0" (1524 mm)	S-55-3A	5'-0" (1524 mm)	X	5'-0" (1524 mm)
S-46-3A	4'-0" (1220 mm)	X	6'-0" (1829 mm)	S-56-3A	5'-0" (1524 mm)	X	6'-0" (1829 mm)
S-47-3A	4'-0" (1220 mm)	X	7'-0" (2134 mm)	S-57-3A	5'-0" (1524 mm)	X	7'-0" (2134 mm)
S-48-3A	4'-0" (1220 mm)	X	8'-0" (2438 mm)	S-58-3A	5'-0" (1524 mm)	X	8'-0" (2438 mm)
S-49-3A	4'-0" (1220 mm)	X	9'-0" (2743 mm)	S-59-3A	5'-0" (1524 mm)	X	9'-0" (2743 mm)
S-410-3A	4'-0" (1220 mm)	X	10'-0" (3048 mm)	S-510-3A	5'-0" (1524 mm)	X	10'-0" (3048 mm)
S-411-3A	4'-0" (1220 mm)	X	11'-0" (3353 mm)	S-511-3A	5'-0" (1524 mm)	X	11'-0" (3353 mm)
S-412-3A	4'-0" (1220 mm)	X	12'-0" (3658 mm)	S-512-3A	5'-0" (1524 mm)	X	12'-0" (3658 mm)
S-413-3A	4'-0" (1220 mm)	X	13'-0" (3962 mm)	S-513-3A	5'-0" (1524 mm)	X	13'-0" (3962 mm)
S-414-3A	4'-0" (1220 mm)	X	14'-0" (4267 mm)	S-514-3A	5'-0" (1524 mm)	X	14'-0" (4267 mm)
S-415-3A	4'-0" (1220 mm)	X	15'-0" (4572 mm)	S-515-3A	5'-0" (1524 mm)	X	15'-0" (4572 mm)
S-416-3A	4'-0" (1220 mm)	X	16'-0" (4877 mm)	S-516-3A	5'-0" (1524 mm)	X	16'-0" (4877 mm)
S-417-3A	4'-0" (1220 mm)	X	17'-0" (5182 mm)	S-517-3A	5'-0" (1524 mm)	X	17'-0" (5182 mm)
S-418-3A	4'-0" (1220 mm)	X	18'-0" (5486 mm)	S-518-3A	5'-0" (1524 mm)	X	18'-0" (5486 mm)
S-419-3A	4'-0" (1220 mm)	X	19'-0" (5791 mm)	S-519-3A	5'-0" (1524 mm)	X	19'-0" (5791 mm)
S-420-3A	4'-0" (1220 mm)	X	20'-0" (6096 mm)	S-520-3A	5'-0" (1524 mm)	X	20'-0" (6096 mm)

Note: All S-line skylights are available with 2-3/4" (70 mm) and 4" (100 mm) thick panels.
Designed for 40 PSF (1915 Pa) Snow Load. Shoji grid pattern standard: 12" x 24" (300 mm x 600 mm) - 4' (1220 mm) series | 12" x 20" (300 mm x 500 mm) - 5' (1524 mm) series.
A minimum slope of 3/8":12" is required for all S-line skylights. Kalwall+Lumira aerogel is available in 2-3/4" (70 mm) thick panels only.

Not sure which standard skylight is best for you? Trying to determine the proper Visible Light Transmission (VLT) levels?

Please visit KALWALL.COM to request a complimentary Daylight Modeling analysis to optimize your daylighting design.

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