



*High Performance – RAPID DELIVERY*  
**STANDARD SKYLIGHTS**



**GEO-ROOF**<sup>®</sup>

Segmented domes to 28' (8534mm)

**PYRAMID**

4'x4' to 20'x20' (1219mm x 1219mm to 6096mm x 6096mm)



**FLAT CURB-TYPE**

4'x4' to 5'x20' (1219mm x 1219mm to 1524mm x 6096mm)

*Now Available*  
with super-insulating aerogel!

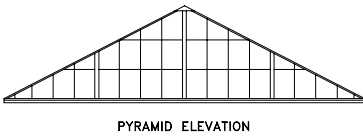
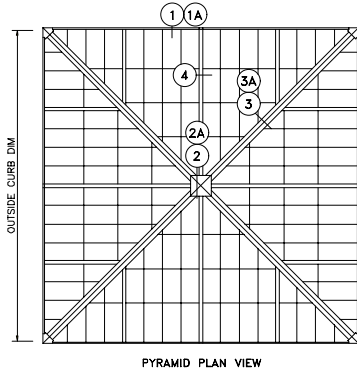


## Standard Size

# Pyramid Details and Engineering Data

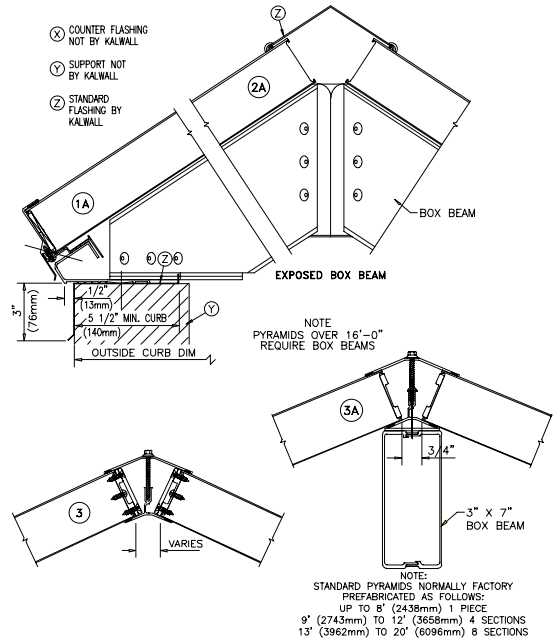
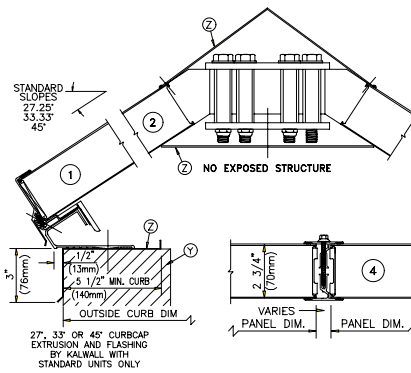
### Design

Factory pre-engineered components for standard sizes from 4' to 20' in one-foot increments... rapidly installed. All energy-efficient as well as aesthetic options are available.



### Construction

Designed for installation over the Kalwall-supplied curb cap extrusion. The pre-engineered panels, joint system and, in larger size, exposed box beams fit together precisely to form a highly dependable, weathertight structure.



Slopes at hip nominal 20°, 25°, 35°  
Slopes at face nominal

### All Standard Pyramids Designed For Installation From The Outside.

These and other details are available for downloading at [www.kalwall.com](http://www.kalwall.com)



Standard Sizes: O.C.D.		Number Panels Per Side	Maximum Horizontal Thrust Load on Curb*
4' (1219mm)		1	100 lbs. (445N)
5' (1524mm)	Factory	1	160 lbs. (712N)
6' (1829mm)	Pre-Assembled	1	225 lbs. (1001N)
7' (2134mm)		1	310 lbs. (1379N)
8' (2438mm)		1	400 lbs. (1779N)
9' (2743mm)		2	510 lbs. (2269N)
10' (3048mm)	No Exposed Structure	2	625 lbs. (2780N)
11' (3353mm)		2	760 lbs. (3381N)
12' (3658mm)		2	900 lbs. (4003N)
13' (3962mm)		4	1060 lbs. (4715N)
14' (4267mm)	No Exposed Structure	4	1225 lbs. (5449N)
15' (4572mm)		4	1410 lbs. (6272N)
16** (4877mm)		4	1600 lbs. (7117N)
17' (5182mm)	Exposed Box Beams	4	1810 lbs. (8051N)
18' (5486mm)		4	2025 lbs. (9008N)
19' (5791mm)		4	2260 lbs. (10053N)
20' (6096mm)		4	2500 lbs. (11121N)

\*Calculated at 25 (1197Pa) PSF Wind Load. Thrust Load on each side of curb. Must Be Provided For By Others.

\*\*May require beams.

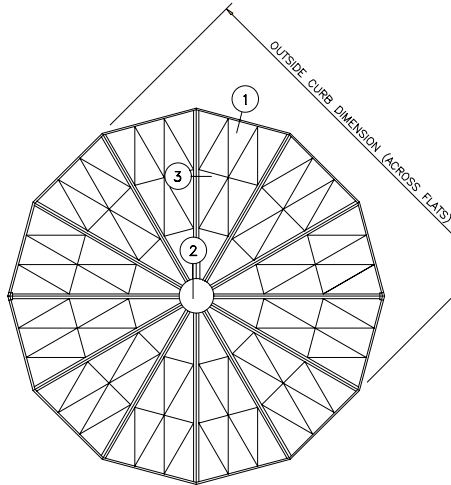




# Standard Size Geo-Roof® Details and Engineering Data

## Design

Prefab elements in sizes from 8' to 28' provide a new concept to highlight any overall design... easily engineered into any construction. Optional colored inserts are available for added interest. Optional colored finishes are also available on exposed aluminum.



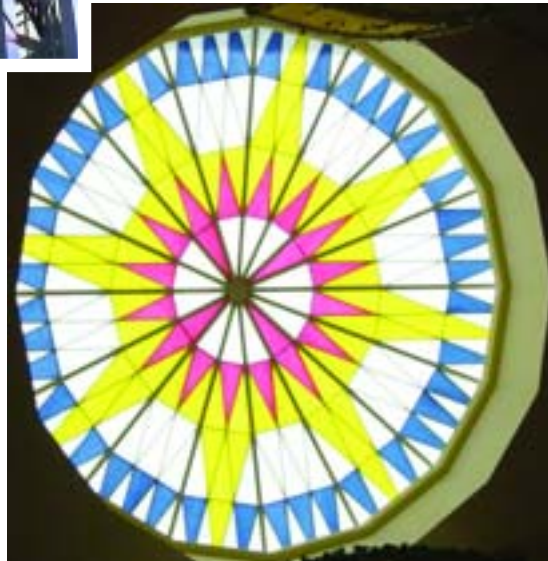
GEO ROOF PLAN VIEW



ELEVATION

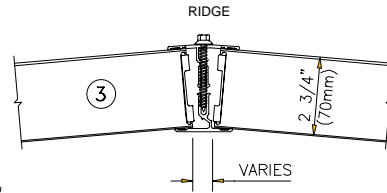


**Custom  
Size and  
Units  
Up to 100'  
also available!**



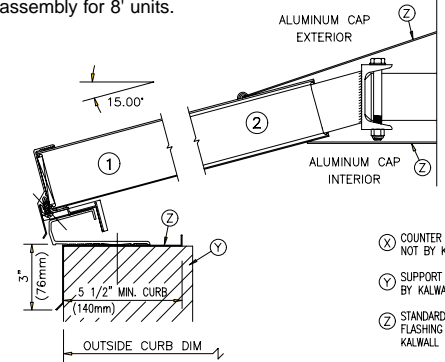
## Construction

Clean design for thrust-bearing curb mounting and watertight seal. Light weight simplifies installation. Factory assembled elements easily installed on site; only two joints and perimeter to seal on units 9' and 16' diameter — complete factory assembly for 8' units.



**CURB INSTALLED TO WITHSTAND THRUST LOAD REQUIREMENT BY OTHERS.**

U.S. Pat. Nos. 2,931,468 & 2,981,382  
and Pats. Pend.



15° CURB CAP  
EXTRUSION AND FLASHING  
BY KALWALL WITH  
STANDARD UNITS ONLY

- ⊗ COUNTER FLASHING NOT BY KALWALL
- ⊙ SUPPORT NOT BY KALWALL
- ⊚ STANDARD FLASHING BY KALWALL

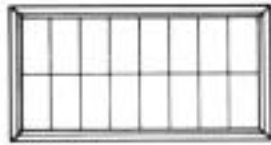
**Most Geo-Roofs Require Both Inside and Outside Access for Installation.**

Nominal O.C.D. Across Flats		Number of Sides	O.C.D. Across Corners	O.C.D. @ Each Side	Horizontal Thrust Each Curb Segment
8' 0" (2438mm)	Factory Welded	8	8' - 7-15/16" (2640mm)	3' - 3-3/4" (1010mm)	350 lb. (1557N)
9' 0" (2743mm)	Shipped in Two Units	8	9' - 8-7/8" (2969mm)	3' - 8-3/4" (1137mm)	440 lb. (1958N)
10' 0" (3048mm)		8	10' - 9-7/8" (3299mm)	4' - 1-11/16" (1262mm)	545 lb. (2425N)
11' 0" (3353mm)		8	11' - 10-7/8" (3629mm)	4' - 6-11/16" (1389mm)	660 lb. (2936N)
12' 0" (3658mm)		8	12' - 11-7/8" (3959mm)	4' - 11-5/8" (1515mm)	780 lb. (3470N)
13' 0" (3962mm)		10	13' - 8" (4166mm)	4' - 2-11/16" (1287mm)	720 lb. (3203N)
14' 0" (4267mm)		10	14' - 8-5/8" (4486mm)	4' - 6-9/16" (1386mm)	835 lb. (3714N)
15' 0" (4572mm)		10	15' - 9-1/4" (4807mm)	4' - 10-1/2" (1486mm)	960 lb. (4270N)
16' 0" (4877mm)		12	16' - 6-3/4" (5048mm)	4' - 3-7/16" (1307mm)	900 lb. (4003N)
17' 0" (5182mm)	Shipped in Individual Units	12	17' - 7-3/16" (5364mm)	4' - 6-11/16" (1389mm)	1015 lb. (4515N)
18' 0" (5486mm)		12	18' - 7-5/8" (5680mm)	4' - 9-7/8" (1470mm)	1140 lb. (5071N)
19' 0" (5791mm)		14	19' - 5-7/8" (5940mm)	4' - 4-1/16" (1322mm)	1080 lb. (4804N)
(A) 20' 0" (6096mm)		14	20' - 6-3/16" (6253mm)	4' - 6-3/4" (1391mm)	1195 lb. (5316N)
(B) 21' 0" (6401mm)		14	21' - 6-1/2" (6566mm)	4' - 9-1/2" (1461mm)	1320 lb. (5872N)
(C) 22' 0" (6706mm)		14	22' - 6-13/16" (6879mm)	5' - 0-1/4" (1530mm)	1445 lb. (6428N)
(D) 23' 0" (7010mm)		16	23' - 5-7/16" (7149mm)	4' - 6-7/8" (1394mm)	1380 lb. (6139N)
(D) 24' 0" (7315mm)		16	24' - 5-5/8" (7458mm)	4' - 9-5/16" (1456mm)	1325 lb. (5894N)

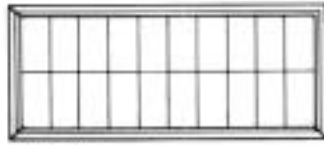
Designed for 25 PSF (1197 Pa) Wind Load and 40 PSF (1915 Pa) Live Load, except as noted: (A) = 35 PSF (1676 Pa) Live Load, (B) = 30 PSF (1436 Pa) Live Load, (C) = 25 PSF (1197 Pa) Live Load, (D) = 20 PSF (958 Pa) Live Load.

## Standard Size

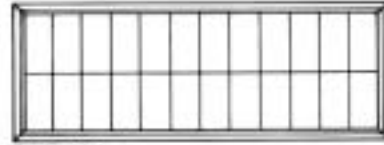
# Flat Curb-Type, Standard S-Line Skylights



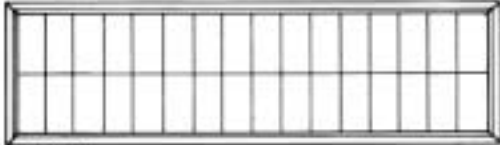
S-48-3A



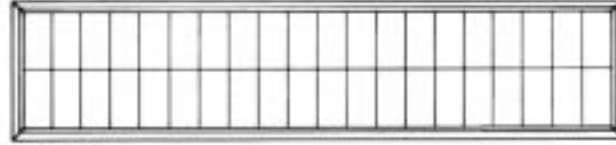
S-410-3A



S-412-3A



S-416-3A

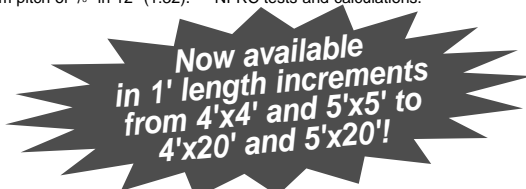


S-420-3A

Listed below are the Outside Curb Dimensions (O.C.D.) required to accommodate the Standard Series.\*

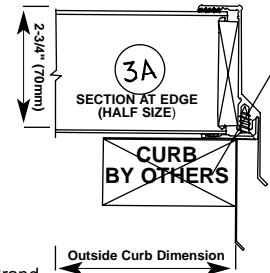
Unit Number For Standard Sizes	O.C.D. Curb Type Frame	Unit Number For Standard Sizes	O.C.D. Curb Type Frame
S-48-3A	4'-0" x 8'-0" 1220mm x 2440mm	S-58-3A	5'-0" x 8'-0" 1525mm x 2440mm
S-410-3A	4'-0" x 10'-0" 1220mm x 3050mm	S-510-3A	5'-0" x 10'-0" 1525mm x 3050mm
S-412-3A	4'-0" x 12'-0" 1220mm x 3660mm	S-512-3A	5'-0" x 12'-0" 1525mm x 3660mm
S-416-3A	4'-0" x 16'-0" 1220mm x 4880mm	S-516-3A	5'-0" x 16'-0" 1525mm x 4880mm
S-420-3A	4'-0" x 20'-0" 1220mm x 6095mm	S-520-3A	5'-0" x 20'-0" 1525mm x 6095mm

Install with minimum pitch of 3/8" in 12" (1:32). \*NFRC tests and calculations.



## Standard Series Features

- Thickness 2 3/4" (70 mm)
- Grid pattern size 12" x 24" for 4' Series; 12" x 20" for 5' Series
- Insulation "U" = .29\* (1.6 W/m<sup>2</sup>K) standard and .23\* (1.3 W/m<sup>2</sup>K) optional with Thermal Break core
- Curb-type aluminum perimeter pre-sealed at factory installation on curb
- Translucent shatter-proof fiberglass faces for 15%, 20%, or 30% light transmission standards
- Designed for 40 lbs./sq. ft. (1915 Pa) live load
- 50% light transmission optional for north light or solar applications
- Withstand Class A Fire Brand



## General Specifications for Standards

**INSULATION:** "U" = .29 standard. Options .53, .22 and .18 or Thermally Broken .23, .14, .10 and .05.

**EXPOSED ALUMINUM FINISH:** Standard is mill finish. Optional Kalwall corrosion-resistant finish in a variety of colors.

**PANEL THICKNESS:** 2 3/4" only.

**COLOR INSERTS:** Color inserts are optional and available in a wide range of colors.

**LIGHT TRANSMISSION:** Any interior/exterior combination of exclusive super weathering translucent faces with erosion barrier resulting in light transmission range of 14% to 60%. Options from 3% to 74% in other colors. See Kalwall brochure, 08 45 23/KAL, for full explanation.

**DESIGN LOAD:** All standard Geo-Roofs and Pyramids designed for 40 lbs./sq.ft. live load, except as noted. Higher loads may require a different design.

**GRID PATTERN:** Geo-grid standard for Geo-Roof. Shoji pattern Pyramids and custom grids optional.

**FACTORY PRE-ASSEMBLY:** Units up to 8' nominal pre-assembled into one piece. Geo-Roofs over 8' to 16' overall outside dimensions shipped in halves. Larger roofs shipped in segments. Pyramids shipped knock-down in 4 sections for 9' to 12' and 8 sections for 13' to 20'.

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