



TECHNICAL FILE

Cintralux Megasky®

PRV barrel vault

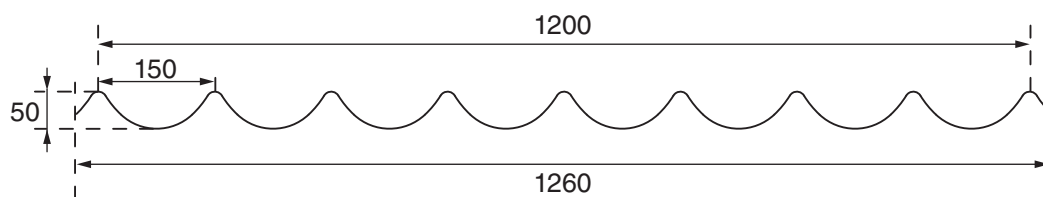


General product description

The Cintralux Megasky® PRV barrel vaults are made of lengthwise profiled PRV polyester sheets with excellent light transmission, available as a single- or double-walled version. These PRV sheets are vaulted with a bend radius of 4 to 6 metres (depending on the chosen barrel vault width) and they are made of UV-stabilised polyester resins with glass fibre reinforcement. The outer walls have a surface finish with high UV-resistant Melinex® Longlife (LL) film. The polyester end parts are white and completely insulated with PUR.

Possible versions for single- or double-walled:

Outer wall BTW	Clear Longlife (LL)
	Opal Longlife (LL)
	Self-extinguishing and clear Longlife (LL)
	Self-extinguishing and opal Longlife (LL)
Inner wall BNW	Clear
	Self-extinguishing and clear

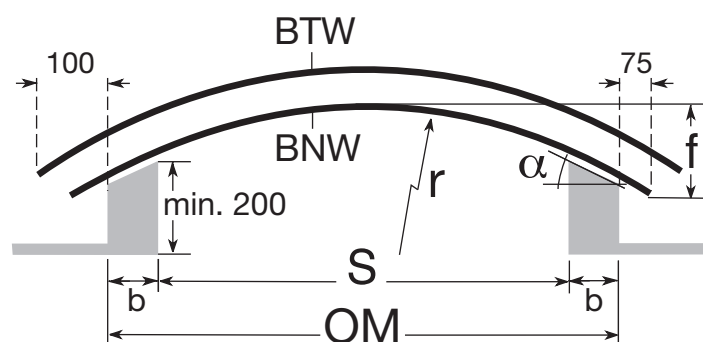


Specific characteristics

Mechanical characteristics	Self-supporting up to a width of 6 m in accordance with the applicable snow and wind load. Unlimited in length in accordance with the applicable snow and wind load. Hail-resistant. Impact resistance SB800 (800 Joule).
Chemical characteristics	Highly resistant to chemical influences and weather circumstances.
Thermal characteristics	U-value SW single-walled: 5,74 W/m ² .K (EN ISO 6946:1997) U-value DW double-walled: 3,13 W/m ² .K (EN ISO 6946:1997)
Light transmission	Clear: 88,5 % per wall in accordance with EN 1013-1 Opal: 71,0 % per wall in accordance with EN 1013-1
Sizes	Overall size of the curb: > 4 m to 7,10 m (sizes per 10 cm) Useful sheet width: 1200 mm Overall size sheet width: 1260 mm Thickness of inner wall: 1,00 mm (+0,14 - 0,10) Thickness of outer wall: 1,00 mm (+0,14 - 0,10) Bend radius: 4000-6000 mm depending on the width of the daylight size
Similar density	1665 kg/m ³
Optional	1200 J fall-safe protection with safety nets (little visible)

Technical specifications

Curb width	Min. 60 mm to 6 m overall size barrel vault; > 6 m min. 90 mm
Minimum height of the curb	200 mm
Sheet overhang towards the curb	Curb must be strong enough BNW 75 mm / BTW 100 mm



S = daylight size, width of the barrel vault
 OM = overall size
 r = radius (radius BNW = BTW)
 b = curb width
 f = barrel rise

Z-profiles are needed for the installation of the double-walled Megasky PRV barrel vault.

Available sizes

OVERALL SIZE OF CURB (cm)	Radius r (PRV) (cm)	Angle of curb α	Barrel rise f (cm)
410	400	31°	56,5
420	400	32°	59,6
430	400	33°	62,7
440	400	33°	65,9
450	400	34°	69,3
460	400	35°	72,7
470	400	36°	76,3
480	500	29°	61,4
490	500	29°	64,1
500	500	30°	67,0
510	500	31°	69,9
520	500	31°	72,9
530	500	32°	76,0
540	500	33°	79,2
550	500	33°	82,4
560	500	34°	85,8
570	500	35°	89,2
580	500	35°	92,7
590	500	36°	96,3
600	500	37°	100,0
610	500	38°	103,8
620	500	38°	107,7
630	550	35°	99,1
640	550	36°	102,7
650	550	36°	106,3
660	550	37°	110,0
670	550	38°	113,8
680	600	35°	105,6
690	600	35°	109,1
700	600	36°	112,7
710	600	36°	116,3

Attestations and certificates

- B_{ROOF}(t1) for single- and double-walled in accordance with ENV 1187 and EN 13501-2:
BTW clear: M2 & BNW clear: M4; all other double-walled combinations: BTW & BNW: M2
- M2 in accordance with CEMATE/2 Nr.8090401
- M4 in accordance with NF P92 507
- Fire class E in accordance with EN 13501-1:2007

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