

COXDOME BARREL VAULT SYSTEM



The top-selling European continuous rooflight system for new buildings and refurbishments

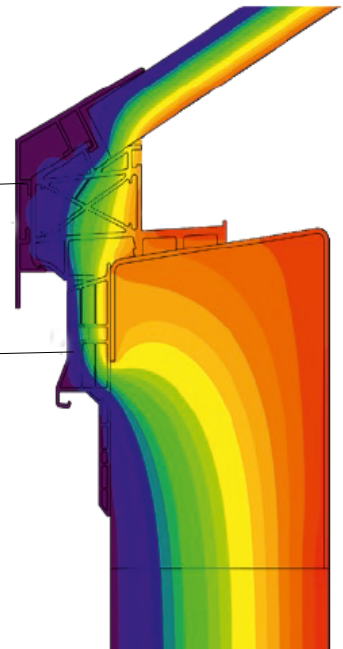
FULLY THERMALLY-BROKEN CILL SECTION CONSTRUCTED FROM MULTI-CHAMBER PVCU EXTRUSIONS, REDUCING RISK OF CONDENSATION

COXDOME BARREL VAULT

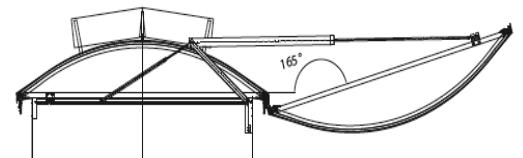
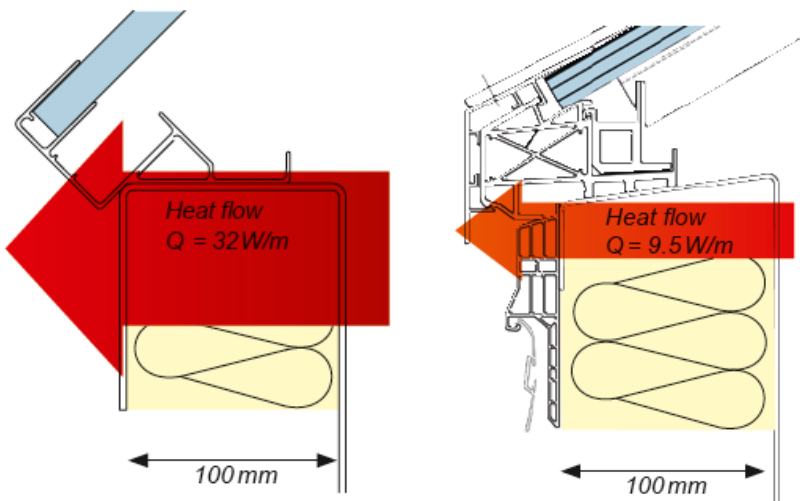
- Fully thermally broken edge profile
- No cold bridging
- European test approval ETA-15/0595
- Maximum span 10m
- Opening panel for natural ventilation
- Opening for smoke ventilation
- One opening combines daylight, natural ventilation and smoke ventilation. Fully tested to EN12101-2
- Dynamic fall-through protection system
- Kerb/upstand systems available
- U_d Value as low as $1.02\text{W}/\text{M}^2\text{K}$ far surpassing the required of Part L of the Building Regulations.

Basic profile made of rigid PVC with aluminium covering

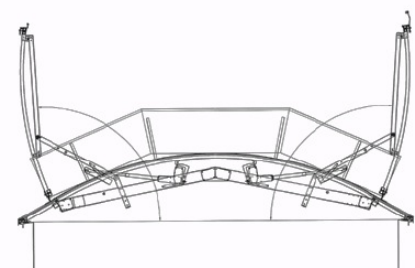
Basic profile made of rigid PVC with aluminium covering



Isothermal performance for continuous rooflight with heat flow, compared with conventional rooflight eaves profile



Cross-section of Barrel Vault rooflight with full opening panel



Cross-section of Barrel Vault rooflight with double opening panel

SHEV OPENING PANELS FOR COXDOME BARREL VAULT SYSTEM

Type of opening	Opening angle	Upper clear width of the kerb	Width/length	A_g	A_s
		cm	cm x cm	m ²	m ²
Full opening	165°	from 100 to 250	b/100	from 1.000 to 2.500	from 0.700 to 1.998
		from 100 to 250	b/134	from 1.340 to 3.350	from 0.940 to 2.538
		from 100 to 300	b/204	from 2.040 to 6.120	from 1.530 to 4.284
Double opening	95°	from 200 to 600	200/100	2.00	1.48
		from 200 to 600	200/204	4.08	3.05
		from 250 to 600	250/100	2.50	1.88
		from 250 to 600	250/204	5.10	3.89
		from 300 to 600	300/100	3.00	2.31
		from 300 to 600	300/204	6.12	4.70
		from 350 to 600	350/100	3.50	2.54
		from 350 to 600	350/204	7.14	5.28
		from 400 to 600	400/100	4.00	2.77
		from 400 to 600	400/204	8.16	5.83
Side opening	130°	from 250 to 350	180/100	1.800	1.158
		from 250 to 350	180/204	3.672	2.387
		from 280 to 410	215/100	2.150	1.384
		from 280 to 410	215/204	4.386	2.851
		from 300 to 480	250/100	2.500	1.609
		from 300 to 480	250/204	5.100	3.315
Beam opening	130°	from 350 to 1090	180/100	1.800	1.158
		from 350 to 1090	180/204	3.672	2.387
		from 400 to 1090	215/100	2.150	1.384
		from 400 to 1090	215/204	4.386	2.851
		from 480 to 1090	250/100	2.500	1.609
		from 480 to 1090	250/204	5.100	3.315

A_s values (aerodynamic effective opening surface)

A_g values (geometrical surface)