

Thermoformed Barrelvault

VELUX®

Commercial

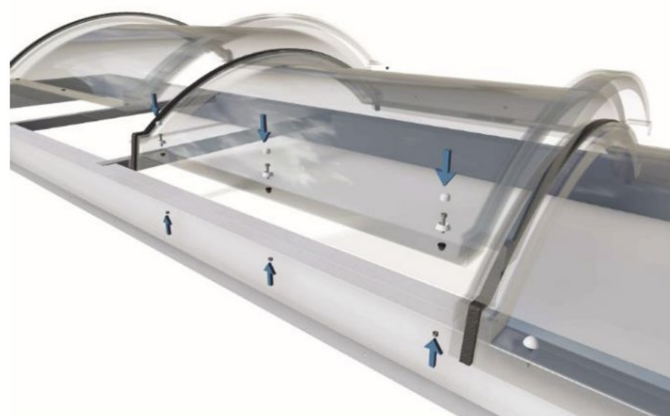


Self-supporting, frameless thermoformed continuous barrel vault system

Overview

Suitable for spans of up to 2.4m opening size x unlimited length consisting of 1.0m wide modules. Suitable for installation between 0° and 15° in either orientation as long as the rolled joints are positioned correctly to allow water to cascade down the slope.

Our interlocking overlap design allows for ease of installation, also meaning this is a fixed only solution. We can offer single, double or triple skin polycarbonate glazing in either clear, bronze, opal or diffused.



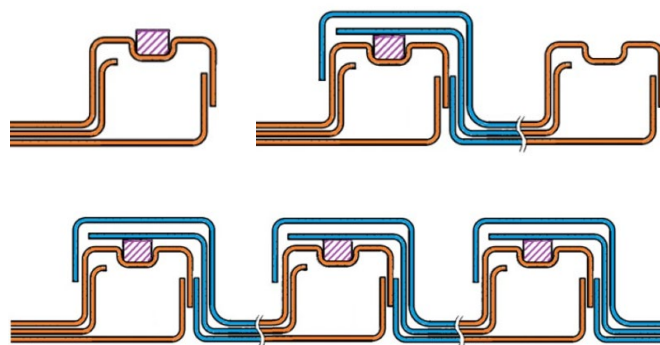
Installation Process

The orange and blue diagrams show the rolled joint interface, the first module in orange (top left).

The next module placed shown in blue (top right) overlapping the first module.

This process is then repeated for all units (bottom).

Once all modules are placed over the kerb and checked for even spacing they are then secured in place with anti-tamper fixings.



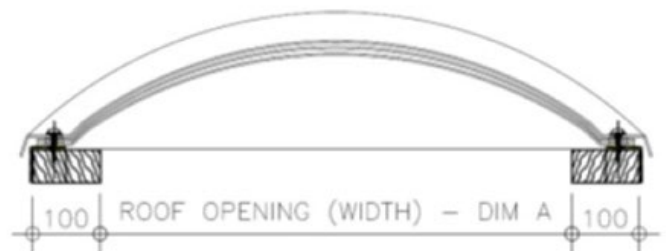
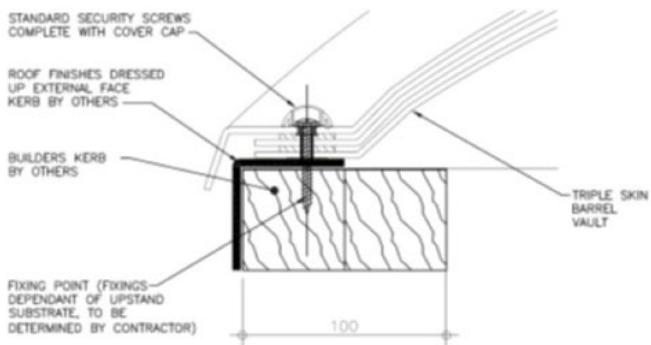
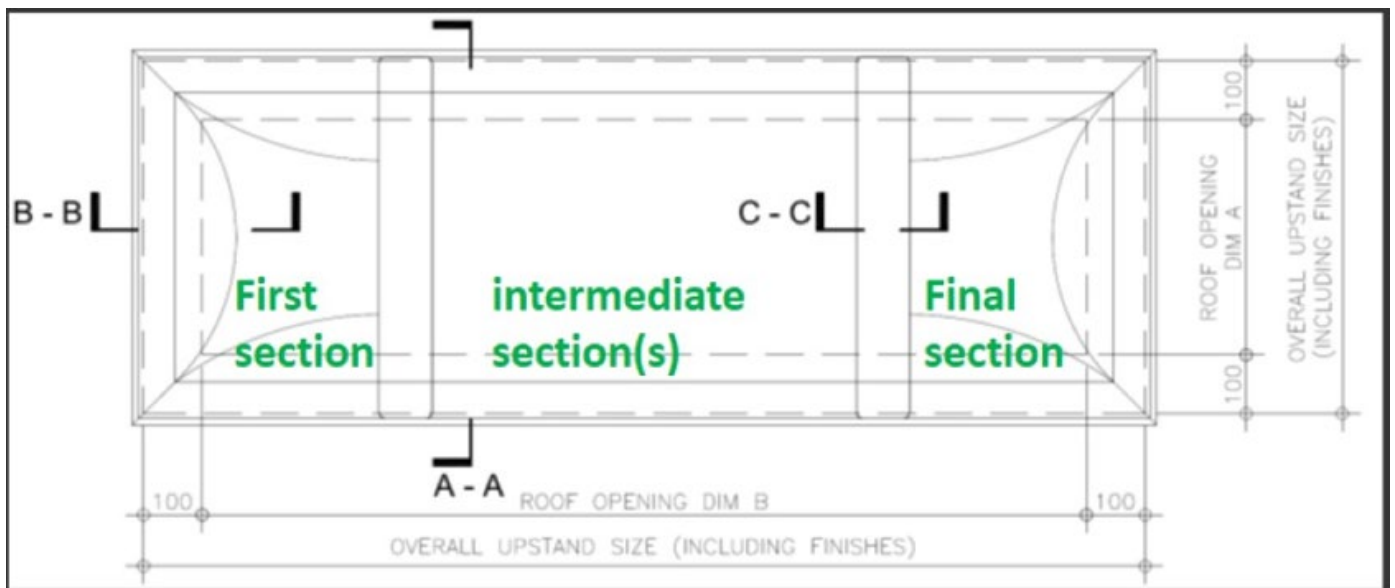
Kerb Options

- Vertical UPVC (X2V)
- Splayed UPVC (X2)
- Insulated Aluminium (X3)
- Uninsulated Aluminium (X5)
- Site built builders kerb



Both the UPVC (left) and aluminium (above) kerbs can be supplied in 3m sections and joined giving a fully pre-fabricated kerb to suit openings spanning 2.4m by any length.

Site built kerb based on 50, 75 or 100mm width and minimum 150mm height, maximum internal opening size "Dim A" 2400mm with 55mm or 100mm fixing flange, maximum overall external 2600mm. roof opening "Dim B" unlimited.



Glazing Options

Glazing Build Up	Kerb Option	Thermal Transmittance (Ug)	U-Value (Urc)	Light Transmittance (T) %	Solar Factor (g) %	Rain Noise Lia (dB)
Single Skin 3mm Clear – Lid Only or Uninsulated Kerb (X5)	X5	5.3 (5.4)		87	79	n/a
Single Skin 3mm Stipple – Lid Only or Uninsulated Kerb (X5)	X5	5.3 (5.4)		87	78	n/a
Double Skin 3mm Clear – Lid Only	n/a	2.7				65.9
Triple Skin 3mm Clear – Lid Only	n/a		1.72	69	62	64.2
Triple Skin 3mm Clear/Clear/Stipple – Lid Only	n/a		1.72	68	61	64.2
Triple Skin 3mm Clear	X2		1.8	69	62	64.2
Triple Skin 3mm Clear/Clear/Diffused	X2		1.8	68	61	64.2
Triple Skin 3mm Clear	X2V		1.7	69	62	64.2
Triple Skin 3mm Clear/Clear/Diffused	X2V		1.7	68	61	64.2
Triple Skin 3mm Clear	X3		1.6	69	62	64.2
Triple Skin 3mm Clear/Clear/Diffused	X3		1.6	68	61	64.2

We can also offer bronze and opal polycarbonate layers, please contact us for more information.

Performance

Air Permeability	3m ³ /hr/m ² at 50 pascals
Reaction to Fire	Classified as TP(a) and achieves Class B- s1, d0
External Fire Performance	Achieves B _{roof} (t4)
Fragility	ACR[M]001 Class B

Additional Information

Rooflights should be stored on their edge with an air gap between each rooflight and out of direct sunlight on a dry level surface.

The rooflights should not be laid flat on the roof before fixing and should not be stored on top of one another.