

## Barrel Vault Rooflights Solid Polycarbonate Glazed



*The Roofglaze range of high quality rooflights are designed to provide the maximum efficient distribution of natural light, together with a variety of ventilation options.*

- Building Regulation Part L compliant design to achieve low U-value targets
- Non Fragile in accordance with European Regulations
- Ventilation options for Natural Ventilation in accordance with Building Regulation Part F
- Automatic Opening Vents for Smoke Ventilation

RG self supporting Barrel Vaults are designed to be installed to a weathered builders kerb.

All Barrel Vaults are purpose made to suit variable overall kerb sizes, within a span range from 0.6m to 13m and of any length.

Design Shapes:

$\frac{1}{8}$   $\frac{1}{5}$   $\frac{1}{2}$  Rise available

RG Barrel Vaults are manufactured from Polyester Powder Coated Aluminium Extrusions and glazed with solid polycarbonate glazing cassettes.

## Glazing Options and typical performance values.

Glazing	Glazing Options	U-Value	Light Transmission	G-Value
Double Glazed *	- Clear	2.6 W/m <sup>2</sup> K	67%	0.67
	- Opal		40%	0.48
	- Tinted Bronze		41%	0.55
	- Cool & Clear		46%	0.37
Triple Glazed *	- Clear	1.9 W/m <sup>2</sup> K	59%	0.59
	- Opal		35%	0.42
	- Tinted Bronze		36%	0.48
	- Cool & Clear		40%	0.32

## Performance Standard

RG Barrel Vaults are Class 1 surface spread of flame, TPa and have an AA designation.

Acoustic Reduction for Triple Skin Rw 25 dB

Roofglaze Limited offer a 10 year warranty against discolouration of the polycarbonate.

This is underwritten by the glazing manufacturer.

RG Barrel Vaults are designed to standard loadings of 640 N/m<sup>2</sup> (wind) and 750 N/m<sup>2</sup> (snow) and in accordance with the following British Standards:

BS 6375 : Part 1 : Weather Tightness

BS EN 1026 : Air Permeability

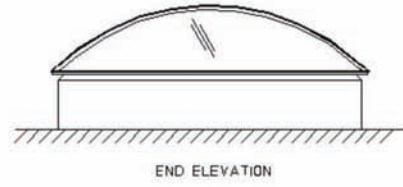
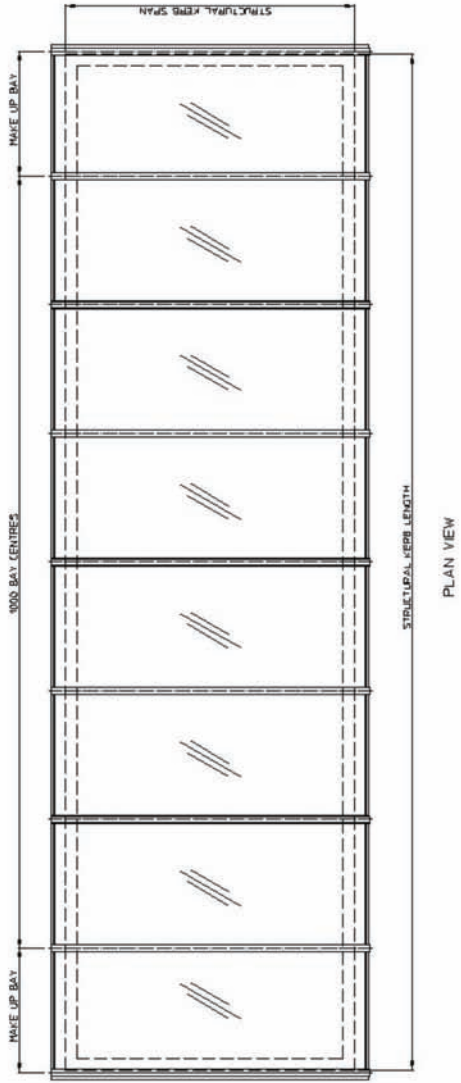
BS EN 1027 : Water Tightness Test

BS EN 12211 : Wind Resistance Test

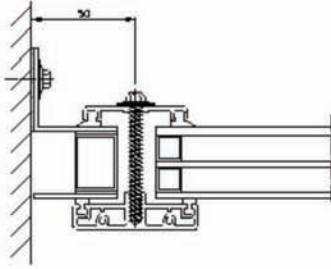
RG Barrel Vaults are terminated with either a Glazed Gable End, Open End or Wall Abutment

Nominal glazing bar Bay Centres are 1000mm with make up bays at each end.

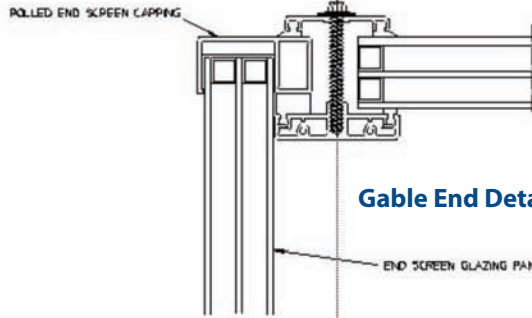
\* Figures based on 3 skins of 3mm



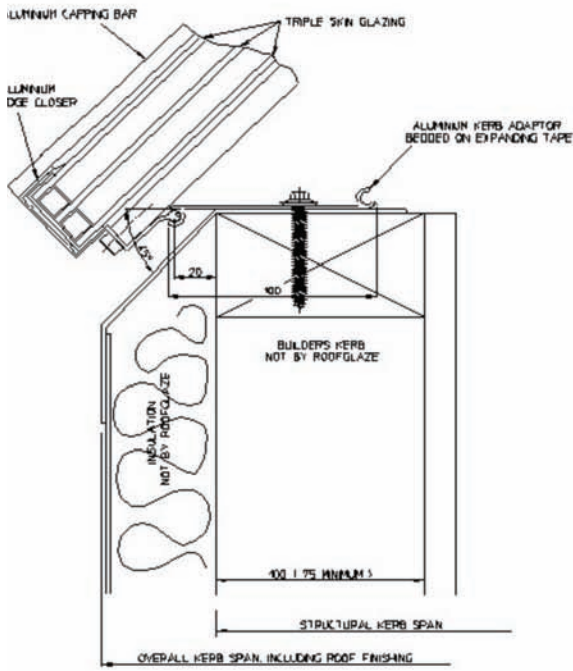
## Triple Glazed Barrel Vault



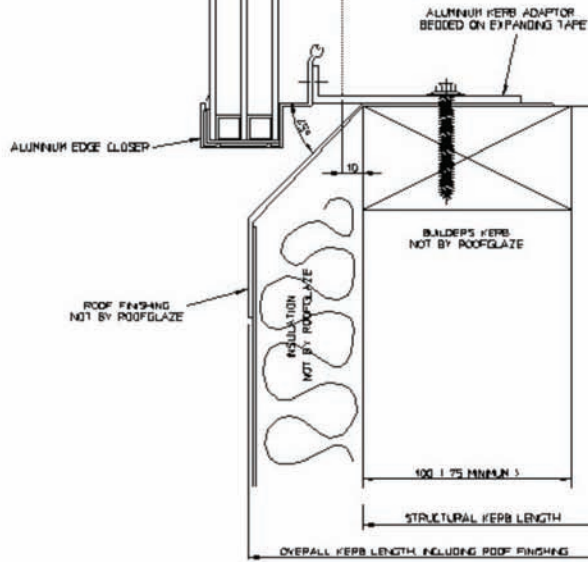
Wall Abutment Detail



Gable End Detail



Side Kerb Section Detail



End Kerb Section View

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# Roofglaze