

HGR 1

Rafter Bar (Non Structural)

28mm SQUARE

Product Description

This rafter glazing bar can be used as a glazing medium on timber framed, steel and aluminium structures.

The visual impact of this system is quite a dramatic aesthetic inside the building. As the aluminium bars sit on the wooden rafters, the view from below is of natural timber, which is protected from weather as it will never be exposed to the elements.

These bars can be painted in any RAL colour and when installed with double glazed units, the combined thermal properties ensure that the system meets with the new Document L standards.

This system will accommodate a multitude of different thicknesses from 6mm to 48mm by simply adjusting the length of external caps security screws. (However 28mm D/G is our standard) Hip / Ridge / Jack bars also available.

The caps can be supplied in either ornate or square finish.

Roof Vents

Rooflights

Roof vents are purpose made to suit the rooflight and can incorporate glass thicknesses from 6 mm to 50 mm, with 28 mm double glazing as standard. The vents can be powder coated to match and can be in any standard RAL of your choice.



Special trapezoidal roof vents can be supplied made especially for multi-faceted and pyramid rooflights. The extra bars eliminated to create a smoother, tighter design aesthetic.

There is a choice of opening mechanisms available to select from the following.



Manual worm gear for use with an operating pole



Electric motor which can be used with simple on/off switch

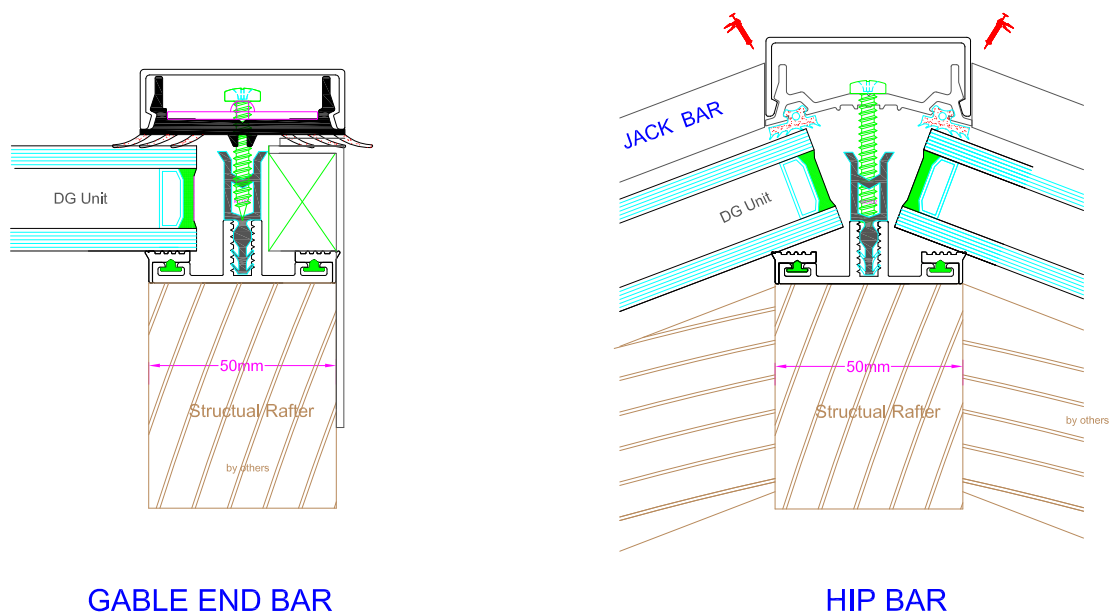
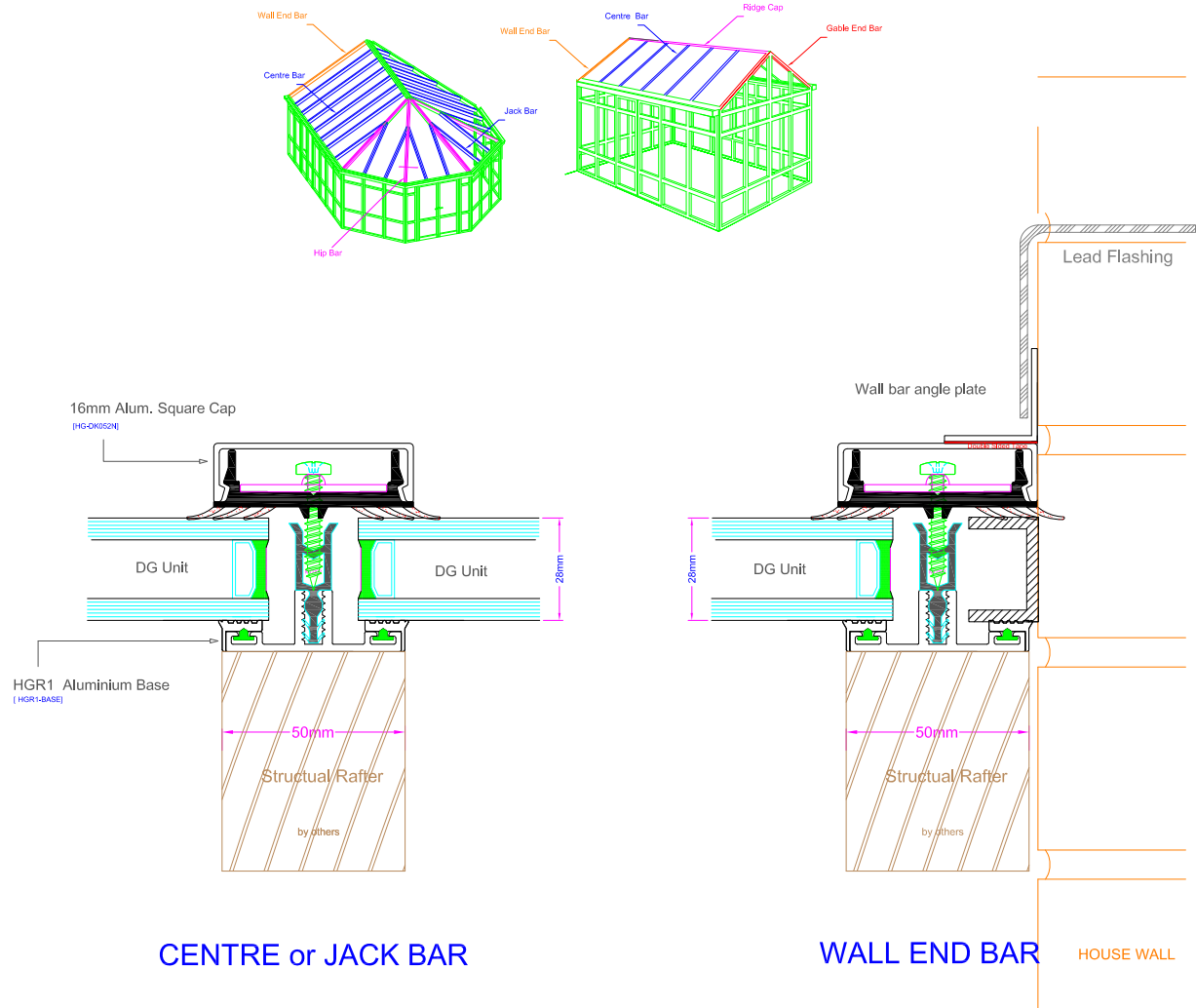


Or be controlled by a digital control unit that can operate multiple vents, in either 24 or 230 volt

An addition of **rain** or **smoke sensors** can also be incorporated to your design to suit your individual setting requirements.



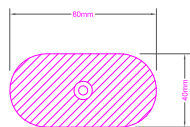
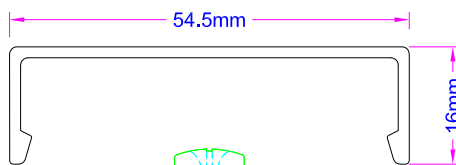
HGR1/DG 28mm CENTRE BAR OVERVIEW



HGR1/DG 28mm CENTRE/JACK BAR EXPLODED VIEW

16mm Alum. Square Cap

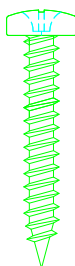
[HG-DK052N]

80mm x 40mm
Galv. Retention Plate

[CFT-RET01]

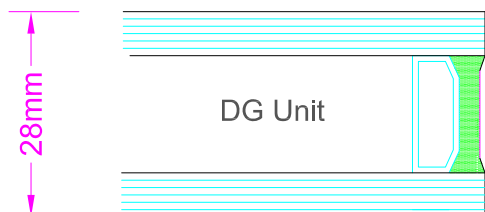
Fixing for pressure plate to base

[No10 R/Head Wood 1" 1/4 (32mm)]

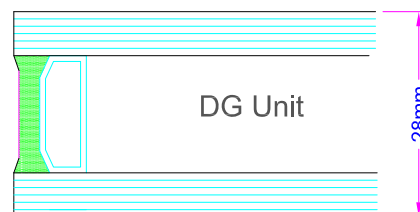
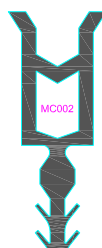
Rigid PVC Thermal Pressure Plate
with co-extruded gasket [HG-DK154]

HGR1-Thermal Break

[MC002]



DG Unit



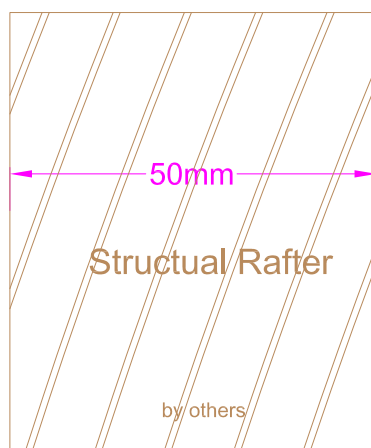
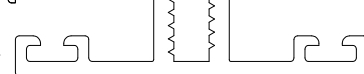
DG Unit

EPDM Gasket

[EU-AE059]

HGR1 Aluminium Base

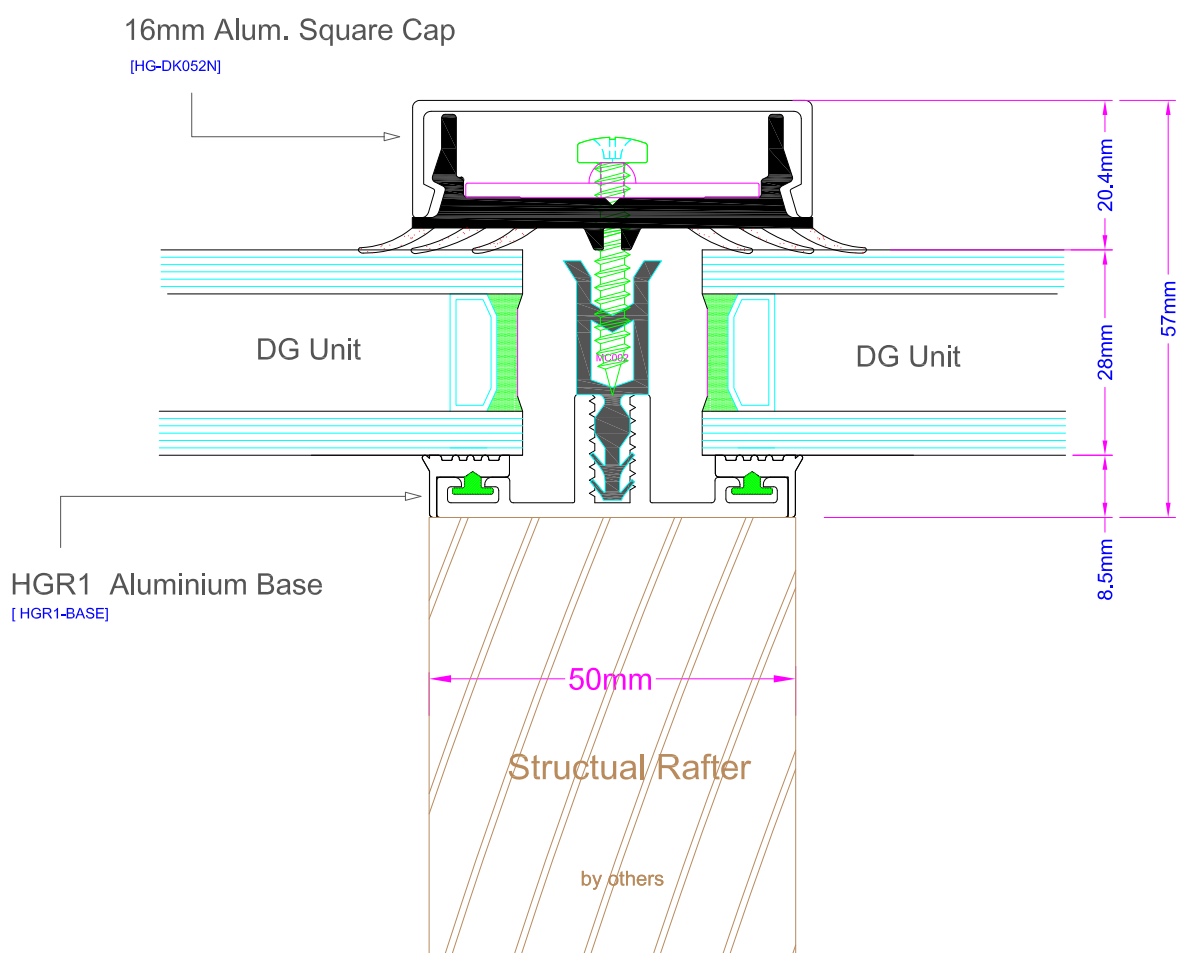
[HGR1-BASE]



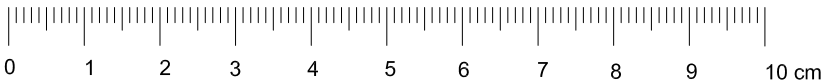
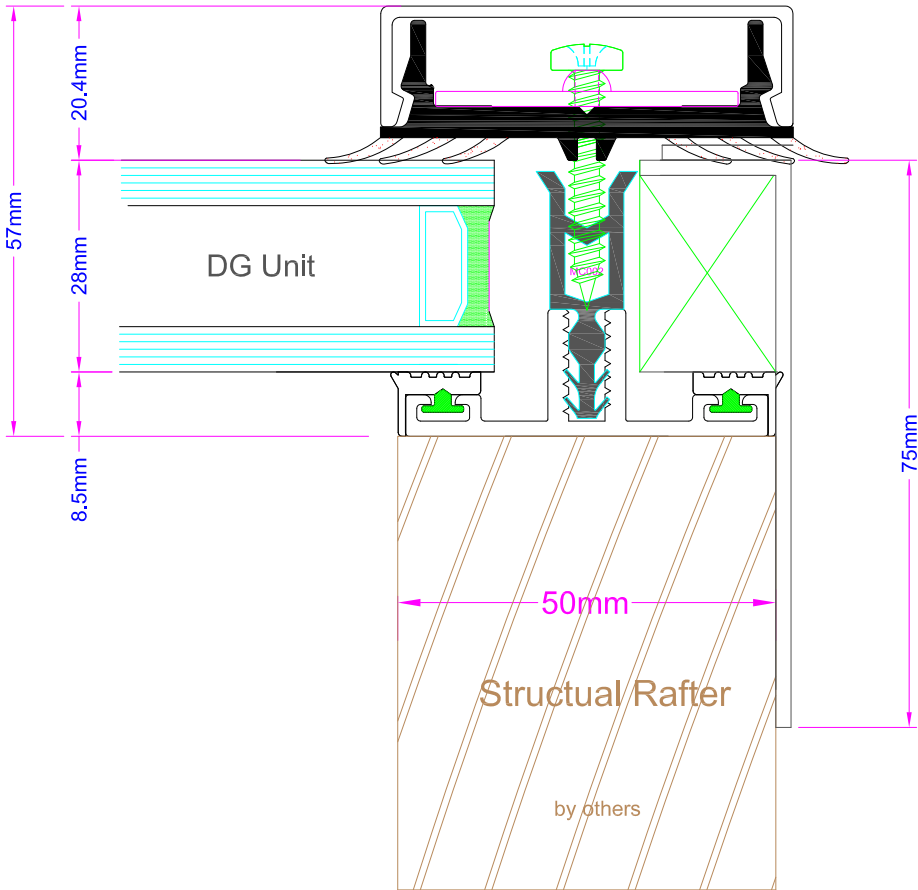
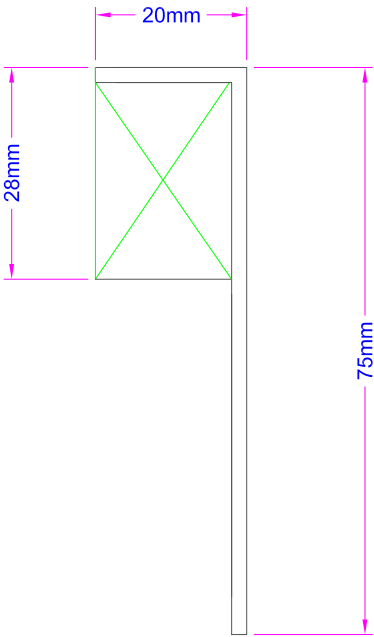
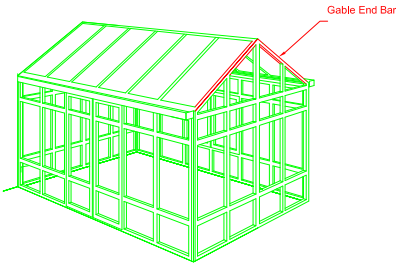
Structural Rafter

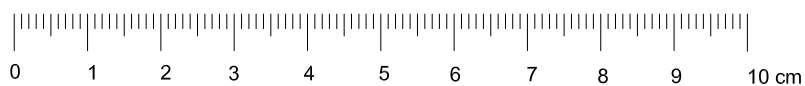
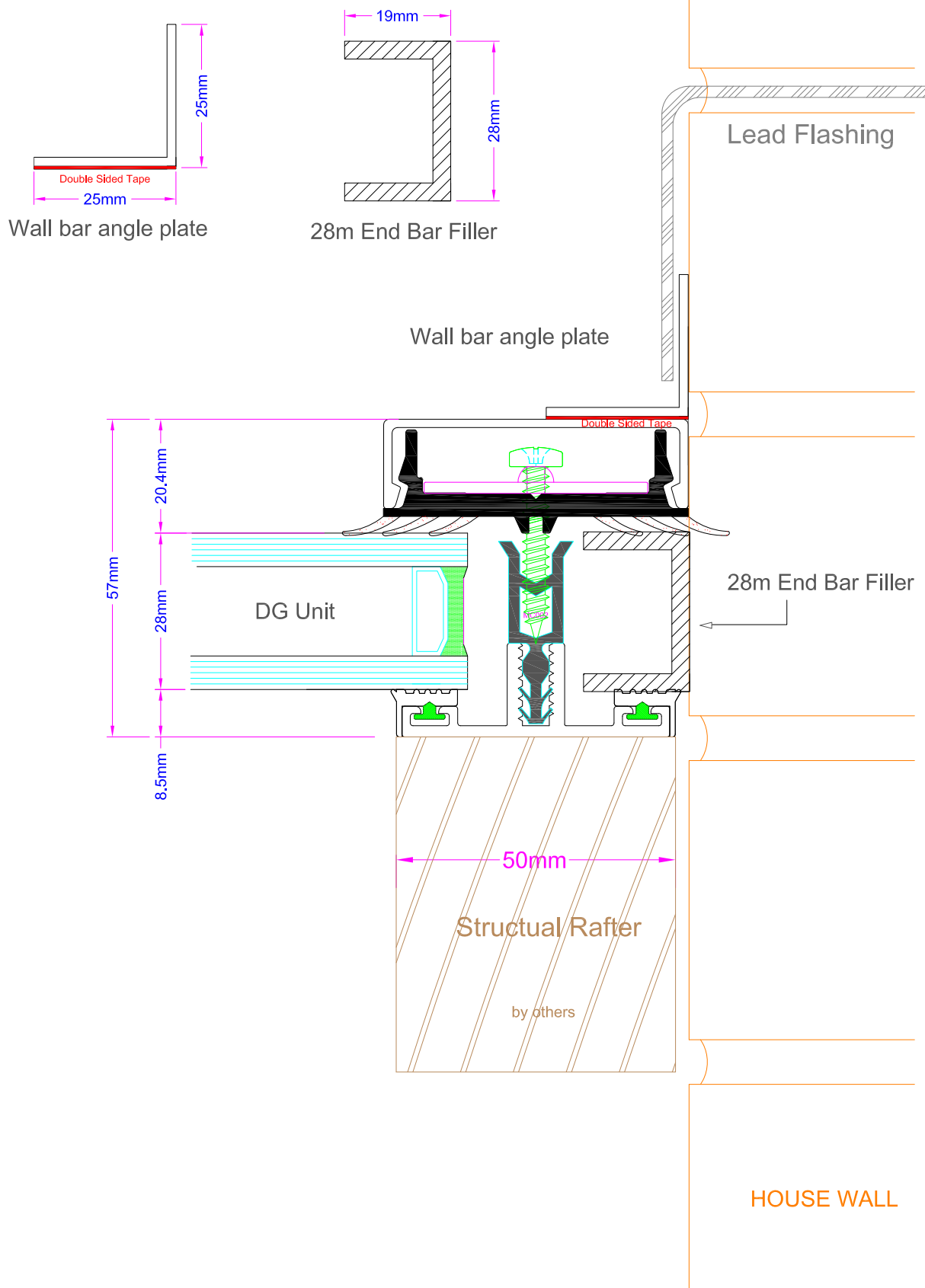
by others



HGR1/DG 28mm CENTRE BAR SECTION THROUGH

HGR1/DG 28mm GABLE END BAR SECTION THROUGH

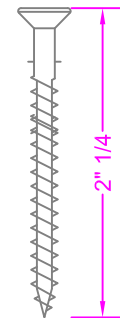


HGR1/DG 28mm WALL END BAR SECTION THROUGH

Wall Bar



To secure base to timber support



—50mm—

Double Sided Tape
WALL BAR ANGLE FIITED BY OTHERS

A diagram of a square corner joint. Two plates, each 25mm thick, meet at a 90-degree angle. A red line representing a weld is shown along the inner corner of the joint. Dimension lines indicate that both the horizontal and vertical plates have a thickness of 25mm.

28mm End Filler

~~-52mm-~~

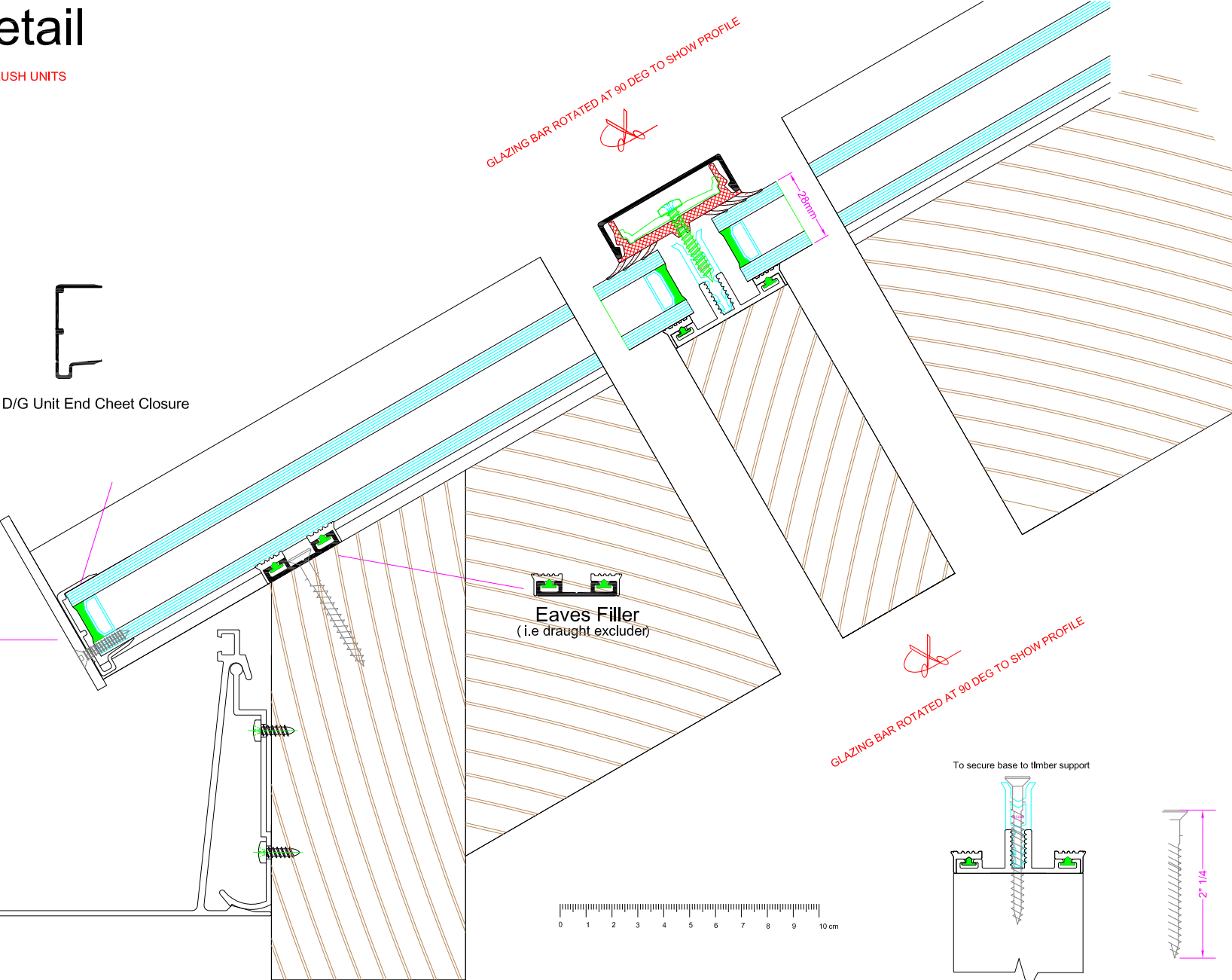
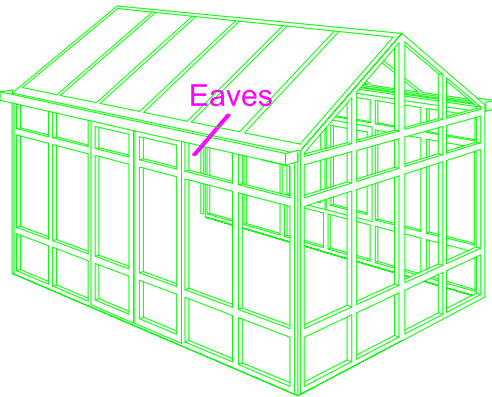
Structural Rafter



Typical Eaves Detail

(30 degree shown in this example)

FOR FLUSH UNITS

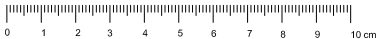


GLAZING BAR ROTATED AT 90 DEG TO SHOW PROFILE

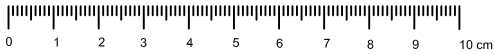
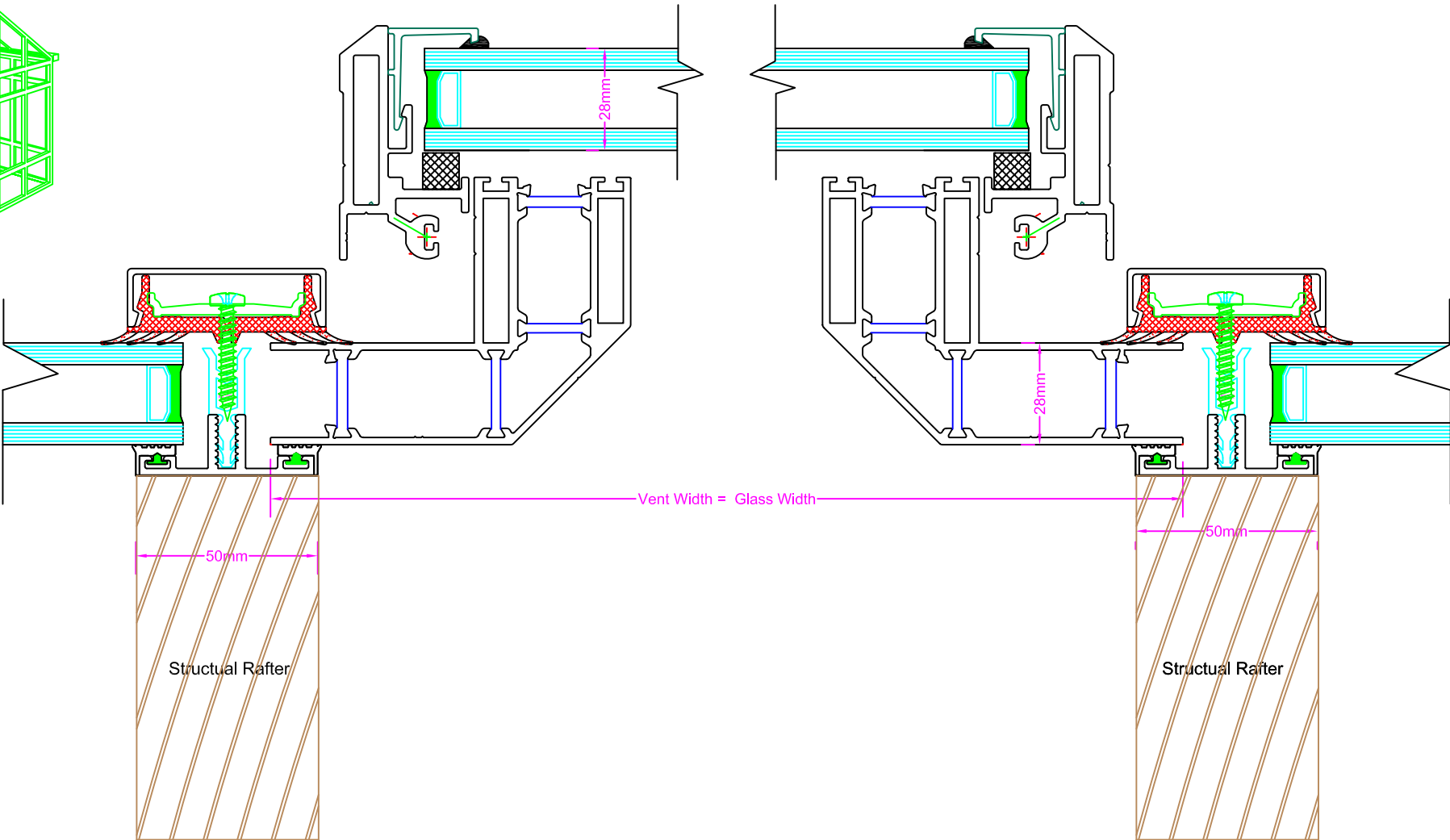
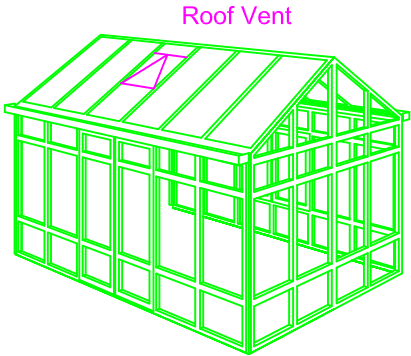
GLAZING BAR ROTATED AT 90 DEG TO SHOW PROFILE

'Click In'
Alum. Ogee Gutter
(Optional Extra)

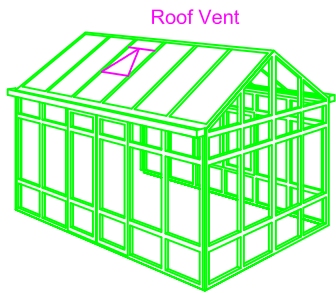
To secure base to timber support



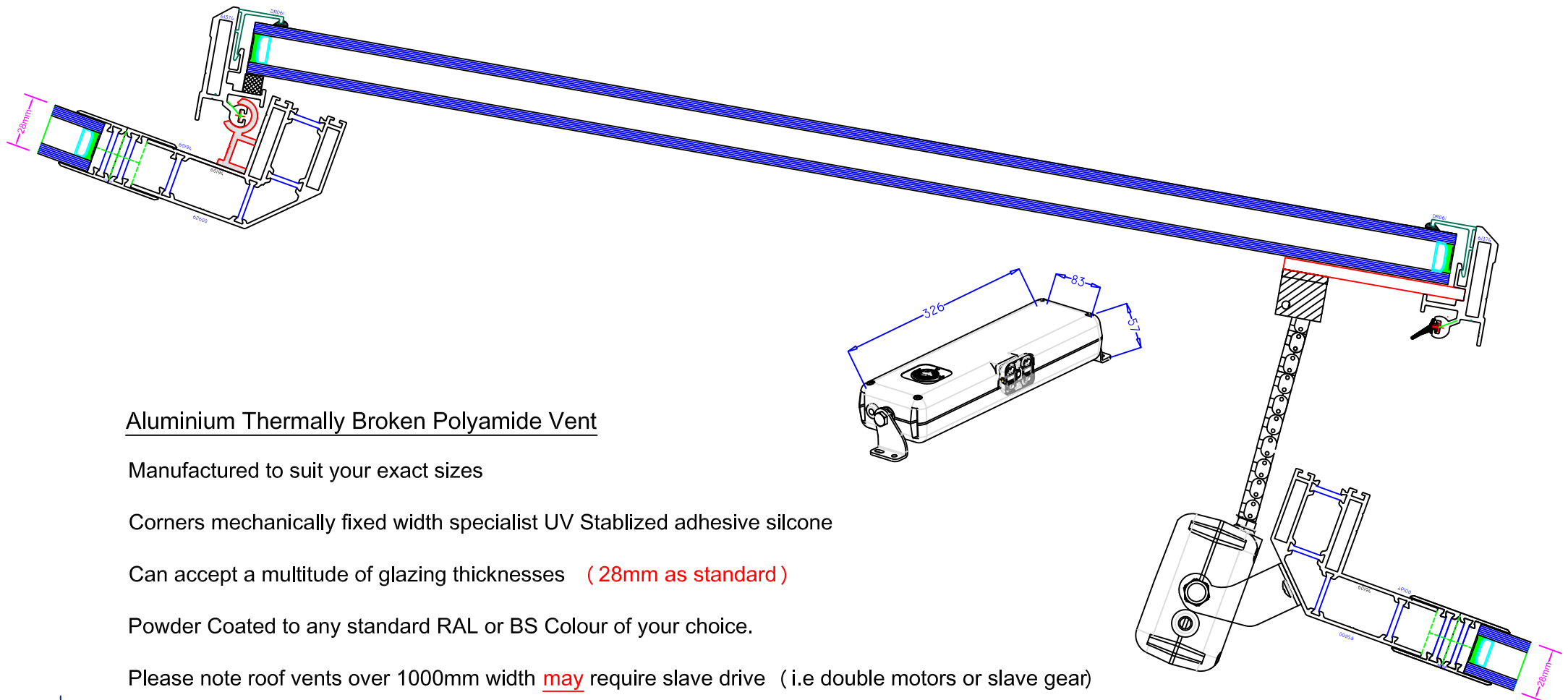
Typical Roof Vent



Typical Roof Vent



HG Thermally Broken Roof Vent Vent Assembly (Electric)



Aluminium Thermally Broken Polyamide Vent

Manufactured to suit your exact sizes

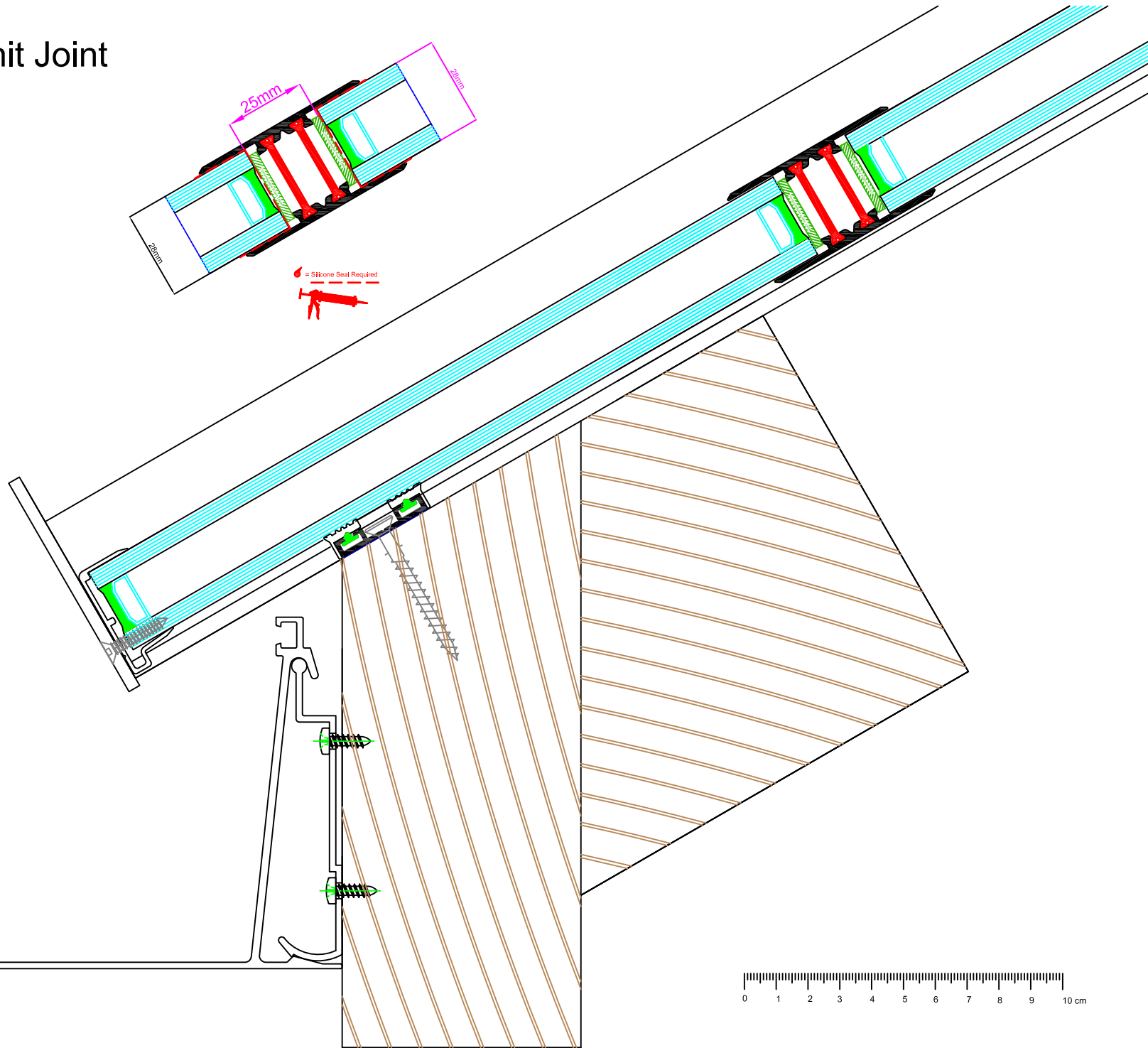
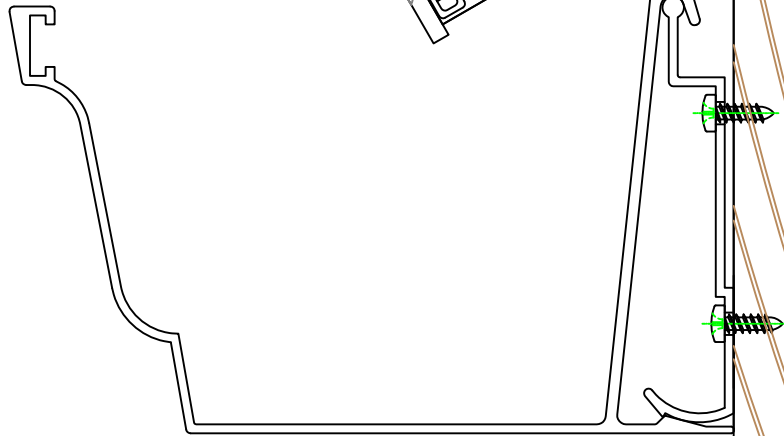
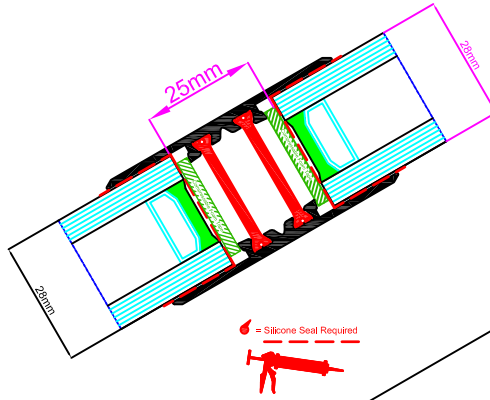
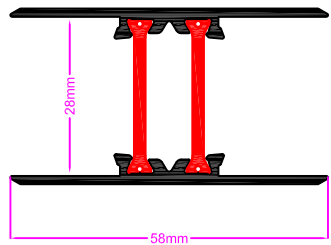
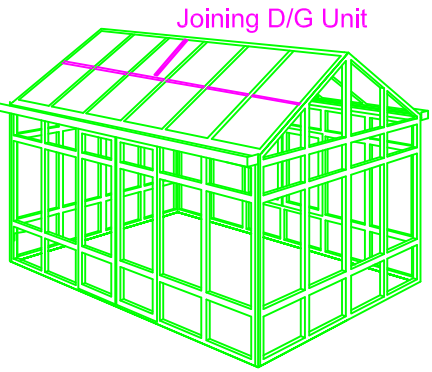
Corners mechanically fixed with specialist UV Stabilized adhesive silicone

Can accept a multitude of glazing thicknesses (28mm as standard)

Powder Coated to any standard RAL or BS Colour of your choice.

Please note roof vents over 1000mm width may require slave drive (i.e. double motors or slave gear)

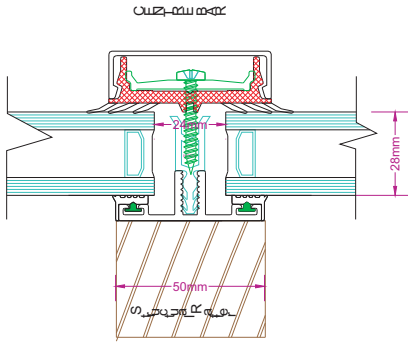
Typical Detail for D/G Unit Joint





HGR1 SYSTEM

MONO PITCH & DOUBLE HIPPED ROOF



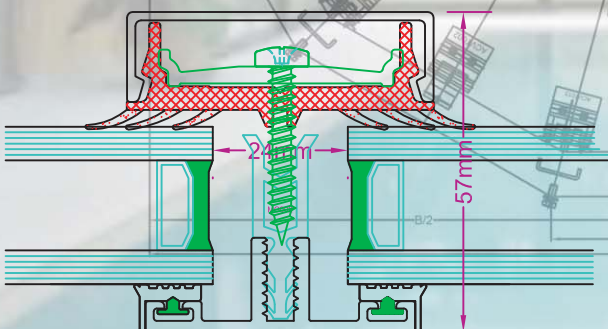
Howells Glazing Systems Ltd

Web. www.howellsglazing.co.uk Email sales@howellsglazing.co.uk

HGR1 Rafter Bar System



Architect/Designer :- Sarah Godfrey :- Tel. 01636 816398 :- Email sarah@spaces.demon.co.uk



Woods Lane, Cradley Heath, West Midlands. B64 7AS
Tel. 01384 820060 Fax. 01384 860150
Email - sales@howellsglazing.co.uk
Web - www.howellsglazing.co.uk

18.08.09



HGR1 RAFTER BAR SYSTEM















