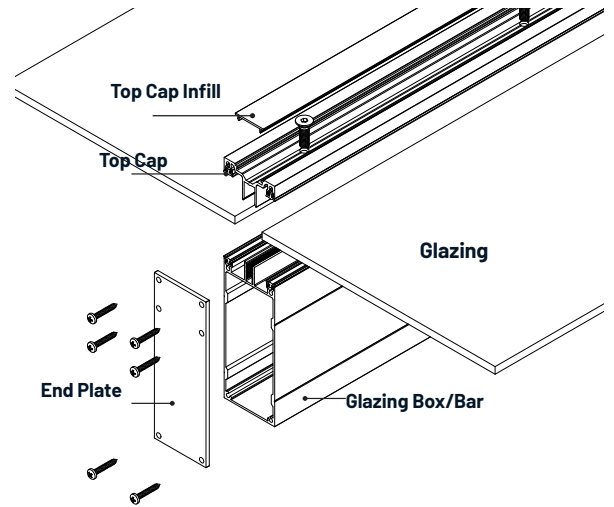


The **UGS Clear Span** Structural Glazing system is a unique patented system that is designed to provide a simple and effective universal mounting and sealing method for various glazing materials, such as glass, polycarbonate (solid sheet or structured/twinwall/tri-wall), or acrylic.

This system utilises a top-cap compression clamping method to provide a positive clamping pressure onto the glazing material to achieve an effective weather tight seal by utilising the compressed double-lip TPV seal. This system will accommodate glazing sheets ranging in thickness from 4mm up to 16mm.

The **ClearSpan box glazing bar** assemblies are available in 2 standard lengths, 4050mm and 6050mm, with either powdercoat or natural aluminium finish. Each glazing bar assembly is supplied with the following components: box glazing bar base extrusion, top cap extrusion, top can infill extrusion, stainless steel top cap compression screws, end plates (with screws, 2 per bar assembly).

#F150-Box-4050 Glazing box-bar assembly 4050mm
#F150-Box-6050 Glazing box-bar assembly 6050mm



Thermal expansion

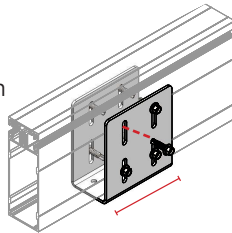
Allow 3-5mm per lineal metre of glazing panel for polycarbonate and acrylic solid sheet.

ADDITIONAL COMPONENTS

Saddle Brackets

Made from aluminium and powdercoated to match. Available in 50mm, 75mm, and 100mm wide (at base). Supplied with ss fasteners.

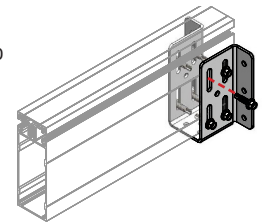
#SB050
#SB075
#SB100



Hanger Bracket

Made from aluminium and powdercoated to match. Designed to provide secure connection between a wall and support glazing bar. Supplied with ss fasteners.

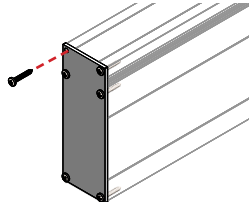
#HB50



Box End Plates

Made from aluminium and powdercoated to match. Available to suit 4mm - 16mm glazing thickness. Supplied with ss fasteners.

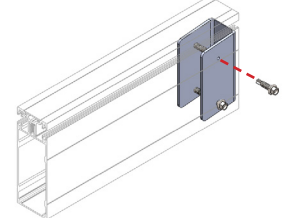
#BXC-6
#BXC-8*



Internal Bracket

Made from aluminium, designed to sleeve inside the box glazing bar to provide a secure connection. Supplied in natural aluminium with ss fasteners.

#IB05



*Other sizes available on our website.

Bracket Fasteners

10-gauge 20mm self-drill tek-screw
#FS12GX20-SDTS (100pk)

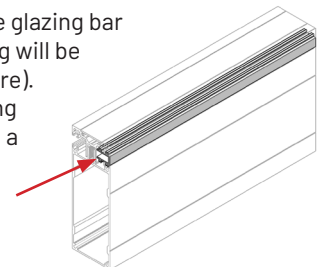
10-gauge 50mm self-drill wood tek-screw
#FS12GX50-SDTS (100pk)



Edge Spacers

Edge spacers are designed to fit in the glazing bar assembly to blank-off where no glazing will be fitted (at the edges of the roof structure). These should be matched to the glazing thickness (ie 6mm glass would require a 6mm edge spacer). Available in lengths of 4050mm or 6050mm.

#ES6-4050/6050
#ES8-4050/6050*

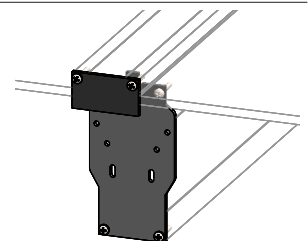
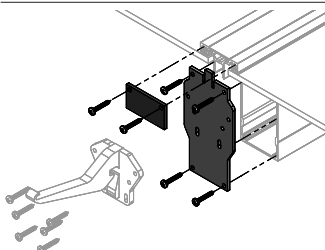


*Other sizes available on our website.

Gutter End Plates

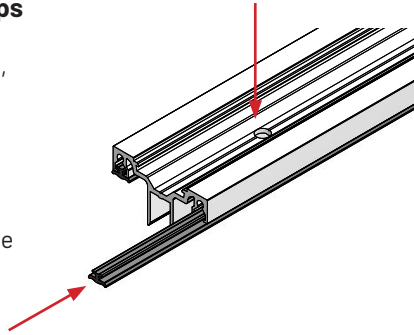
Made from aluminium and powdercoated to match. One size fits all glazing thicknesses. Supplied with stainless steel fasteners. Designed to accommodate most gutter brackets.

#BXG



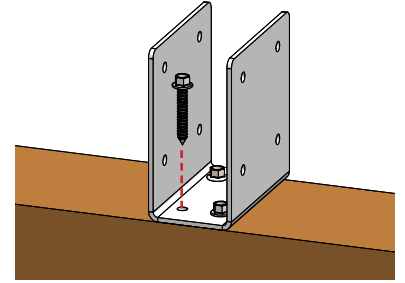
Step 1. Prepare Top Caps

Drill 7mm diameter holes at approx 300mm centres, starting 100mm from the end. Insert the rubber gaskets into the slots and trim to the length of the glazing bar. Note: Insert only 1x rubber gasket in the glazing bar that is located at the end(s) of the roof, as the vacant slot will have an aluminium edge spacer inserted.



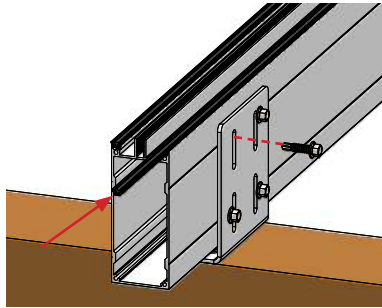
Step 2. Attach the mounting brackets

Attach the glazing bar mounting brackets to the support structure. Ensure brackets are securely fastened with appropriate centres to suit glazing sheet width. To calculate glazing bar centres use the following formula: glazing sheet width +20mm.



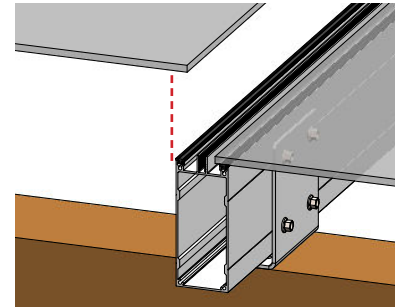
Step 3. Attach the glazing bars

Insert the rubber gaskets into the slots and trim to the length of the glazing bar. Note: Insert only 1x rubber gasket in the glazing bar that is located at the end(s) of the roof, as the vacant slot will have an aluminium edge spacer inserted. Position the glazing bar in the bracket and attach using the stainless steel self drilling screws provided. The screw hole centres should align with the visual lines on outside wall of the glazing bar.



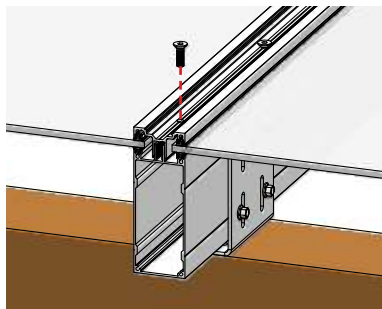
Step 4. Insert the glazing Sheet

Position the glazing sheets into their resting position on the rubber gasket/glazing bar, ensuring the sheet is centrally located and in its correct position.



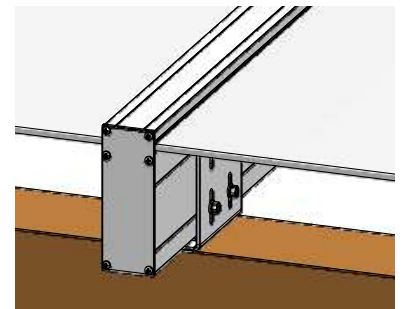
Step 5. Fit top caps

Insert the stainless steel countersunk compression screws (provided) through the 7mm diameter holes in the glazing bar top cap. Using the 4mm hex driver tighten the screws to compress the glazing bar top cap and rubber gaskets against the glazing sheet. Be careful not to over tighten. The recommended torque is 6Nm (4.4ft/Lbs) max.



Step 6. Insert infills and fit end plates

Ensure the top cap infill is cut to the same length of the top cap. Then insert either by sliding it in from the end, or alternatively gently tapping it in from the top using a soft face hammer/mallet. Fit the end plates to the end of the extrusion assembly using the 6x self-taping screws provided.



Accommodating a gutter (optional)

If you are installing a gutter system, we recommend having the top cap (edge spacer) and glazing sheet 50mm longer than the base glazing bar, as this will provide a suitable overhang into the gutter.

We also recommend using the gutter bracket endplates (#f150-BEP) as this will provide a suitable mounting surface for most brands of gutter brackets.

