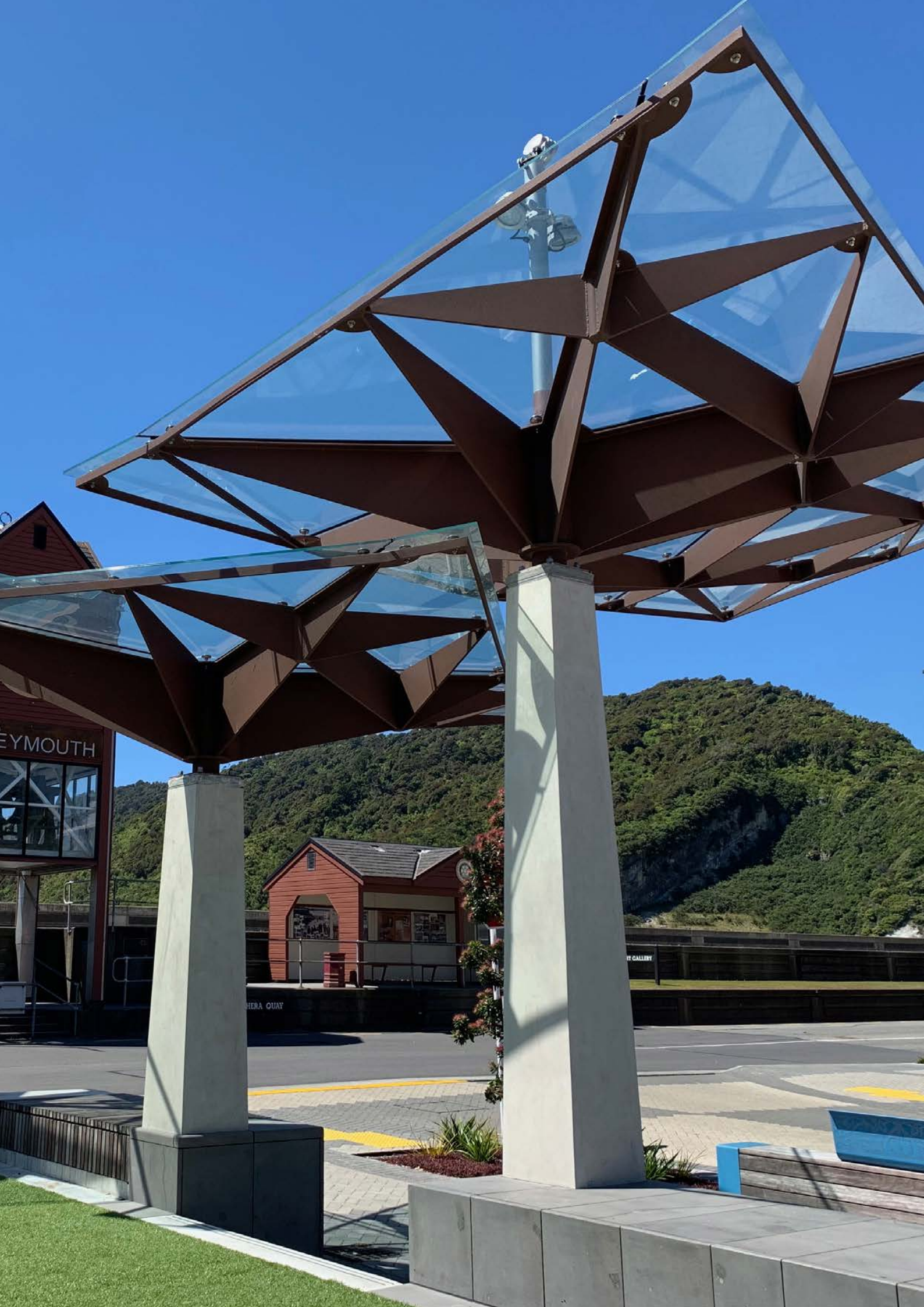
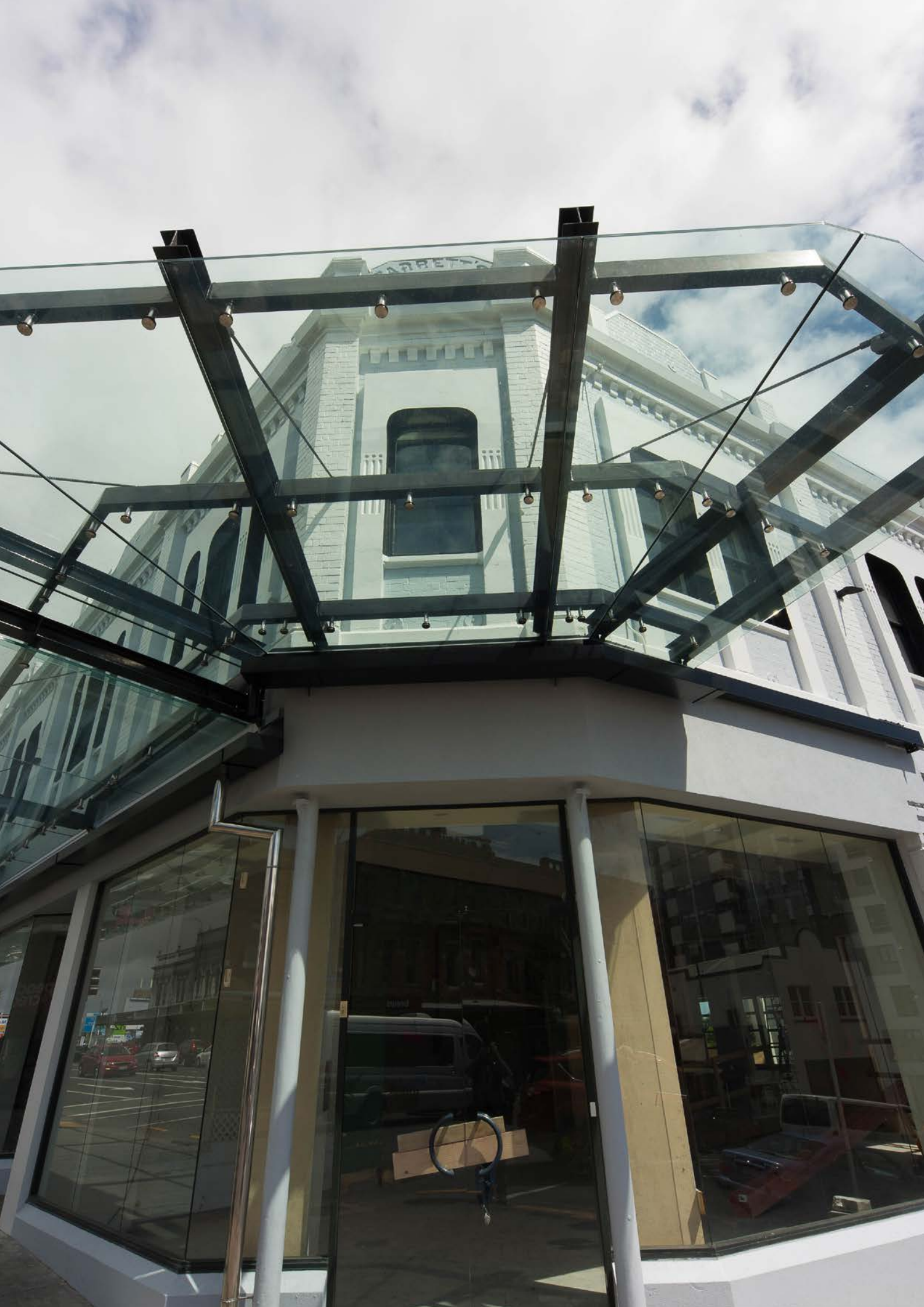

EYMOUTH
HERA QUAY

METRO
PERFORMANCE GLASS

Frameless Glass Canopies

Bespoke frameless glass canopies provide strength, light and protection from the elements. All of our systems are designed and engineered in New Zealand via Metro's Engineering Department.



METRO
PERFORMANCE GLASS

Frameless Glass Canopies

8

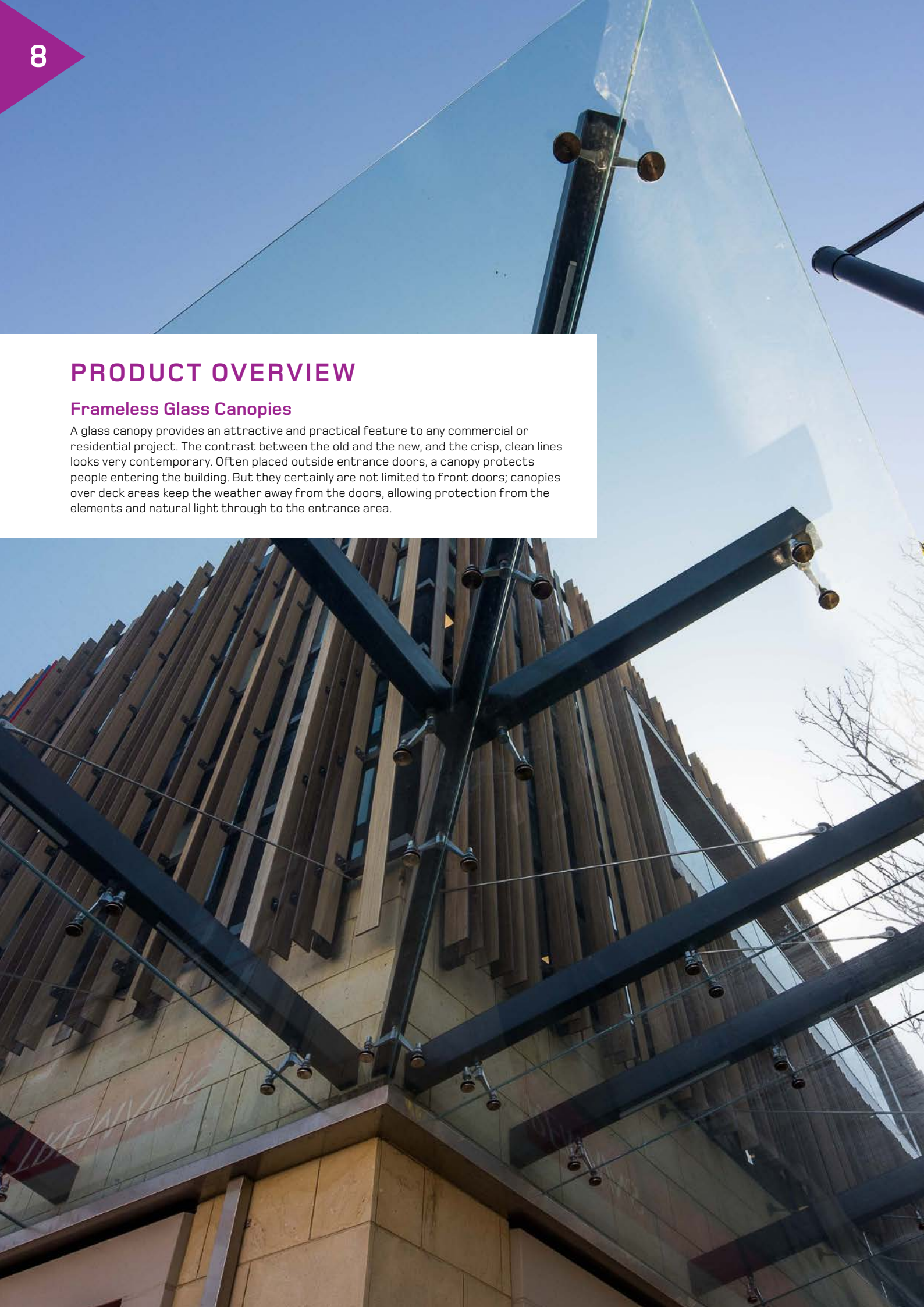
AREA ICONS KEY:

CANOPY

PRODUCT OVERVIEW

Frameless Glass Canopies

A glass canopy provides an attractive and practical feature to any commercial or residential project. The contrast between the old and the new, and the crisp, clean lines looks very contemporary. Often placed outside entrance doors, a canopy protects people entering the building. But they certainly are not limited to front doors; canopies over deck areas keep the weather away from the doors, allowing protection from the elements and natural light through to the entrance area.



Guidance Notes for Frameless Structural Glass Canopies

Glass Canopies and roof lights and skylights can utilise the unique properties of TEMPAFLOAT® toughened and SAFELITE® EVA or SAFELITE® STF (Sentry®) toughened laminated safety glass and provide lightweight floating glass skins fixed either on top or underneath the structure with proprietary fixings. The glass can either be clear or extra clear low iron glass, tinted or reflective glass and/or TEMPASCREEN® screen printed glass with special designs for shading and special effects.

Tension Rod and Spider Systems

Canopies can be suspended using tension rods or connected to a disc or spider fitting, and gutters can be connected to the building structure for water drainage. Slopes and angles for drainage can be created with a sloped structure or by utilising the adjustable design features of the tension rods and spiders including the articulating swivel fixings.

Glass Design

Glass canopy design can be complex and dependant on the design loads, structure and glass fixing method. For specific design please refer through to our technical dept.

Disc Fittings

Disc fittings are normally used if the glass is hung from the fittings and/or in more exposed conditions to provide a seal around the hole. These fittings are normally 50mm in diameter depending on the fitting design.

Articulated Swivel Fixings

The articulated swivel fixing consists of a ball joint type fixing with a countersunk or disc fitting to the glass. The swivel joint fixing on the glass panel is free to rotate up to 5 degrees in angle in any direction and laboratory tests show that the actual stress around the glass hole is greatly reduced compared to the standard fitting. This can be important in very high loading conditions. Glass panels fixed with swivel joints expect to deflect more than glass panels fixed with standard countersunk fittings.