



# Austvision SpiderTruss – Structural Glass System

The Austvision Spider Truss is Tension a Truss System for glass walls. The tension trusses are used as vertical or horizontal supports for wind bracing large glass facades.

The SpiderTruss System utilises two pre-tensioned catenaries supporting inward and outward wind loading. Loads are transferred from the glass through Austvision spider fittings to the compression struts. The trusses are tensioned between the floor slab and the roof structure.



### Key Features

- ▶ Modern mechanical design with cast components.
- ▶ Suitable for 10mm to 19mm TSG.
- ▶ Suitable for 11.5mm to 22mm TLGG.
- ▶ Can be used with point fixed IGUs, up to maximum 42mm thick.
- ▶ Good corrosion resistance.
- ▶ High strength.

### Types:

The SpiderTruss Systems can vary but are typically characterised by the number of connections at each end of the truss, and the number or spars to support the spider fittings, for example;

- ▶ V Truss – Single connection – 1 or more spars.
- ▶ X Truss – double connection – 1 or more spars.

Connection to the truss is via a Austvision 446 series heavy duty spider fitting, and glass fittings can be countersunk, disc or swivel to suit the application and glass thickness.

### Material and Finish:

- ▶ A combination of machine and cast components are used with the SpiderTruss system.
- ▶ All spider fittings are cast 316 marine grade satin stainless steel, available in satin or polished finish.
- ▶ All tension rods are 2205 duplex grade stainless steel in satin finish.
- ▶ All fork ends and nodes junction are cast 329 grade hardened stainless steel in satin finish.

### The system is glazed with Metro Performance Glass, as follows:

- ▶ Toughened Safety Glass
- ▶ Toughened Heat Soak Glass
- ▶ Toughened Screen Print Glass
- ▶ Toughened Digital Print Glass
- ▶ SAFELITE® EVA or SAFELITE® STF (Sentry®) toughened laminated structural glass.

### Compliance

- ▶ The SpiderTruss is specifically designed on a project to project basis depending on the design loads for the project.

### Scope of Use

- ▶ Designed for the 'All-Glass' Look.
- ▶ Can be used on Residential and Commercial Projects Custom design and fabrication is available for specific projects.


### Support Inquiries

- ▶ Metro Technical phone (09) 927 3000 or email [technical@metroglass.co.nz](mailto:technical@metroglass.co.nz)


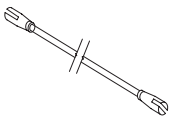
## FRAMELESS SPIDER COMMERCIAL FACADES

## Austvision Spidertruss – System Fittings



Product	Model	Sizes mm	Finish	Material	Type	Application	Area
<b>TENSION NODE</b>  (INLINE & OFFSET)  	301475	TCN1	SSS	316 STAINLESS STEEL	SPIDER TENSION NODE	CONNECTION TO SPIDER TIEROD / TIE FORK	Frameless Structural walls and facades
	301476	TCN2	SSS				
	301477	TCN3	SSS				
		SPECIFY THICKNESS					

## Austvision Spidertruss – Components

Product	Model	Sizes mm	Finish	Material	Type	Application	Area
<b>TIE FORK</b>  	300256	M12 Left Hand	SSS	316 STAINLESS STEEL	TIE FORK	CONNECTION TO SPIDER TIEROD	Frameless Structural walls and facades
	300257	M12 Right Hand	SSS				
	300258	M14 Left Hand	SSS				
	300259	M14 Right Hand	SSS				
	300261	M16 Left Hand	SSS				
	300262	M16 Right Hand	SSS				
	300263	M20 Left Hand	SSS				
	300264	M20 Right Hand	SSS				
	301660	M25 Left Hand	SSS				
	302174	M25 Right Hand	SSS				
		SPECIFY THICKNESS					
<b>TIEROD</b>  	301660	Made to order	SSS	316 STAINLESS STEEL	TIEROD	TIEROD WITH FORKS	Fixing Component

**NOTE:** Connection to the truss is via a Austvision 446 series heavy duty spider fitting, and glass fittings can be countersunk, disc or swivel to suit the application and glass thickness (See Frameless Glass Canopies Section pXXXXX)



