



Governer Philip Tower, Sydney, Australia

Area: ... m²

Architects: Denton Corker Marshall Pty Ltd

Structural & Façade Engineers: Arup Façade Engineering

Specialist Contractor: Hudson Pacific



Hycast Metals manufactured structural nodes and spiders for tension trusses supporting glazed wall and roof areas in the lobby of Sydney's landmark high-rise development known as Governor Philip Tower.

Cast CF-8M stainless spiders by Hycast Metals attach the visually unobtrusive tension trusses directly to glazing panels. Truss slenderness in both vertical and horizontal planes contributes to the architect's vision of transparency and openness.

The construction challenge Hycast met was to efficiently tool up and produce a limited yet varied range of castings which would be adequately cater for the different spans and spacing generated by a tension truss.

Forces impacting upon the glazing are primarily lateral wind loads and vertical dead loads which in turn are supported by both tension trusses and vertical hangers respectively.

The tension truss utilises two prestressed catenary rods each acting to balance positive and negative wind loads. These lateral loads are transferred through the cast spiders by structural members into the cable system's nodal points. Hycast Metals' lost-wax precision investment casting process offers architects infinite design flexibility. Whether it is a spider, a node or a truss component, Hycast Metals can manufacture it.

