

Client:

Maroochydore Shire Council

Architect:

Sanders Turner Ellick

Project Manager:

Connell Wagner

Design & Construction By:

Tension Span Structures Pty Ltd

Project Size:

1,250 sq.m (13,450 sq.ft)

Tension Span® flies over Sunshine Coast Airport

Sunshine Coast Airport has been upgraded and extended to handle increased traffic to the beautiful Queensland Sunshine Coast.

Tension Membrane Entry, Carpark and Internal Structures add exciting architectural features to the facility.

The Entry Structure consists of 7 individual Conical and Hypar membranes supported by 3 masts, perimeter columns and backstays.

Wing like canopies span the main carpark walkway providing shade and visual impact to the entrance. Internal Membranes consisting of 21 individual Hypars of high translucency fabric are located under the central glass skylight which is over 90 metres in length.

Advanced fluoropolymer fabric in various translucencies was used throughout the project. TSS in-house finite element analysis was extensively used for modelling, shapefinding and patterning.

1. Entry structures
2. Carpark Hypars
3. Main entry by night



Winner of
the I.F.A.I.
International
Outstanding
Achievement
Award for the
Sunshine Coast Airport
tension membrane canopies
awarded by the Industrial Fabrics
Association International.