

Case Study

Noosa Junction Station



Sustainable Design

Jointly funded by Sunshine Coast Council (formerly Noosa Council), Translink Transit Authority (Queensland Government) and Federal Government, the project aimed to create an integrated transit hub to service the greater Noosa area and help to revitalise the area's commercial precinct.

The sustainable design, which recently received a 2012 Queensland Australian Institute of Architects (AIA) State Commendation for Urban Design, features the use of recycled timbers coupled with the distinctive steel framed skillion roofs of the central pavilions.

The use of steel enabled a faster construction phase, ease of erection with limited labour, minimising safety issues,

controlling costs and minimal impact on the existing local transport infrastructure, and also allowed for long spans and uninterrupted open spaces.

The project is located in a coastal environment with high levels of sea salt, detrimental to the long-term life of steel. Exposed, easily accessible members and simple bolted connections used hot dip galvanizing as the steel protection system which showcased the natural 'silver' characteristic of steel.

In contrast and to serve the branding requirements of the client, other steel elements such as the platform structures were painted in a neutral, visually unobtrusive colour and two-pack finish.

The steel is omnipresent in every detail throughout the Noosa Junction Station. The design team (architect, structural engineer, builder, steel detailer and steelwork fabricator) worked closely together in order to create a series of components which could be easily fabricated, transported, hot dip galvanized and erected, and would arrive onsite ready to erect with no additional cutting, welding or adjustment required.



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2012 AIA Sunshine Coast Awards Citations

Public Architecture

Noosa Junction Station provides a welcoming destination and departure hub for Noosa with a series of public waiting zones, used also as social meeting spaces, linked by an axial arbour. The flexible outdoor rooms, characterised by the recycled timber and dappled light act as an unexpected oasis from the busy adjacent street and bus zones. Practical requirements of Translink have been synthesised with the placemaking goals of the regional council to achieve a unique outcome.

Urban Design

Noosa Junction Station serves both as a link between nearby local residential and commercial communities and a gateway to Noosa from the south. It incorporates existing cycle and pedestrian paths within an integrated retail and social context. New public facilities have provided social and practical spaces which invigorate the southern end of Noosa Junction creating the backdrop for a new, vibrant public precinct.

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HDG in the Tropics

In the tropics hot dip galvanizing will protect steel from corrosion for many years, similar or better to the life achieved in unpolluted temperate urban areas. In addition HDG is unaffected by UV radiation.

Acknowledgements

Architect: Bark Design

Structural Engineer: Sinclair Knight Merz

Text: Australian Steel Institute (Alan Marshall),

Australian Institute of Architects, 2012

Sunshine Coast Awards Jury Citations



Eight Reasons to Choose Hot Dip Galvanizing

1. No hold ups due to weather – steel can be galvanized in any weather conditions
2. Speed – modular design compatibility to speed up construction
3. Tough coating system – reduces transport damage & minimises on-site repairs
4. Inbuilt durability – minimises in-service damage in the transport environment
5. Withstands UV – the surface is immune to damage from the extreme Australian sun
6. Superior corrosion protection – provides initial and lifetime cost savings
7. Aesthetics – natural good looks
8. Sustainable – Zinc and steel are 100% recyclable

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