

Steel Trussed Bridges



- One piece construction
- Fully assembled
- Superior vibration characteristics
- Corrosion and graffiti resistant paint
- Available with bikeway rails

Outdoor Structures Australia (OSA) produces cambered trusses in two configurations, the Warren and the Howe. The Warren (main image) with all its' webs symmetrical, gives superior aesthetics, making it the truss of choice for residential subdivisions and high profile locations. The Howe, (smaller image) utilises a vertical web and has slightly better strength characteristics making it ideal for very long spans.

The trusses are completely welded U frame construction which means they are too large to galvanise. Instead, a hi-tech paint system, Ameron PSX700 is used. This finish is rated as equal to hot dipped galvanised but has the advantage of more than 50% gloss retention after 12 years and graffiti wipes off!! All our steel footbridges incorporate pre-oiled Deckwood, OSA's own patented premium grade hardwood decking which has proven durability and weathering characteristics. Footbridges are supplied fully assembled and ready for installation which provides considerable savings in planning and construction times.



OSA steel bridges are designed for 5 kPa live loads as required for the Austroads Bridge Code (AS 5100) and for the more stringent 4.5kN concentrated load. Typical bridges are designed for a Load Factor of 1.5 but can be designed to the more stringent Load Factor of 1.8 (AS 5100) if crossing railways or major roads. Handrails are normally designed for 0.75 kN/m but can be modified to carry the crowd (crush) loadings if required. Sections are kept large to keep the natural frequency outside the vibration problem range which can often be annoying in large span pedestrian bridges.



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Single Piece Construction

The fully welded U frame in conjunction with heavy diagonal bracing results in a bridge free of dynamic problems. Bridges come fully assembled and can be ready for pedestrians in a matter of hours.



Handrails

The truss bridge is available with either a painted timber or a galvanised steel barrier. The timber balustrading adds colour and is inexpensive to repair, while the steel system with 16mm round balustrading is difficult to vandalise.



Bikeways

To avoid confusion, bikeways should never be called footbridges as handrail and width requirements are very different. A bikeway compliant rail with a 150mm offset rail is available. The top cord of all the trusses is at 1.3m as required for a bikeway. This means a bike rail can be retrofitted to footbridge if ever required.



Abutment Design

An abutment with back and side walls will maximise the life of the bridge by keeping soil away from the steel. OSA can assist with abutment design.



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Technical Support

OSA has written a comprehensive 32 page technical publication on light bridges. This can be downloaded from our website: www.outdoorstructures.com.au