

Sentrel Balustrades and Pool Fences

... a fresh new look incorporating a beautiful marriage of Australian hardwood rails with marine grade stainless steel cable to produce safe and affordable protection around decks, lofts, balconies and pools. Or now with Aluminium rails, powder coated in a range of colours to suit your decor.

Overview

Sentrel balustrades and pool fences have emerged from the need in the marketplace for a new style of product that embraces the advantages and popularity of tensioned cable systems, yet complies with strict new safety legislation. The solution is a vertically tensioned cable system that is manufactured efficiently and effectively.

We supply a quality, high end product at a middle market price, making Sentrel balustrades and pool fences an increasingly desirable choice. We also manufacture and supply gates, pool gates, and stair balustrade (timber only).

Sentrel manufactures and distributes nationally from Wauchope NSW.

The following information is presented for your perusal. Further enquiries can be addressed to;

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Technical

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Technical Information

Sentrel Panels

Balustrade, Pool Fence and Stair Rails are made as finished panels supplied to site ready for installation. Balustrades can be used for both internal and external purposes. Sentrel manufactures standard panels from which an opening between posts from 100mm to 2700mm can be filled. Timber Panels can be trimmed on site to fit the exact opening between any two posts, and Aluminium Panels will be supplied with posts or brackets to fit your particular requirements.

Materials & Specifications - Timber

- The horizontal upper and lower rails are constructed from Australian Hardwoods – specifically Spotted Gum, and are 70 x 42 mm in section. The top handrail is of the same material and can be supplied in either 90 x 32 or 110 x 32 as standard, or special sizes and profiles to order. The timbers have been selected for their class 1 durability rating, structural integrity, attractive appearance, low tannin/leaching properties, and compliance with fire rating requirements. For internal use, or where fire rating is not a concern, other hardwood timbers can be used as a special order
- There are 40 standard panels up to 2700mm long
- The top handrail is screwed to the upper rail and can run *between* mounting posts or *over* the top of the mounting posts
- Standard Pool gates are 860mm in width, to fit a 900mm opening. Other sizes up to 1100 can be made upon request
- Raked panels for stairs and ramps available
- The supporting uprights that hold the upper and lower rails apart are 25.4mm 316 grade stainless steel tubing, mirror finish. For internal purposes, a 400 grit finish may be used for a softer look if requested
- The cable is 2.5mm 7x7 lay 316 grade stainless steel
- All cables are terminated with 6mm copper stop swages
- Plastic sleeves and grommets are injection moulded UV stabilised Acetal
- Mounting pins are 12.7 mm 304 stainless steel
- Timber is left unfinished for the client's choice of finish
- Please refer to our website for further information. Installation instructions, and a video explaining the re-tensioning process is available on the technical page

Materials & Specifications - Aluminium

- The horizontal upper and lower rails are constructed from extruded aluminium and are 75 x 40 mm in section. An optional top handrail can be supplied and is 80 x 32mm. The aluminium can be powder coated in most standard and premium colours, although there are certain standard colours that are more readily available
- There are 35 standard panels up to 2500mm long
- The top handrail snap fits to the upper rail, and runs over the top of the posts supplied for a smooth continuous look
- Standard Pool gates are 880mm in width, to fit a 900mm opening. Other sizes up to 1100 can be made upon request
- The supporting uprights that hold the upper and lower rails apart are 25.4mm 316 grade stainless steel tubing, mirror finish. For internal purposes, a 400 grit finish may be used for a softer look if requested
- The cables are 2.5mm 7x7 lay 316 grade stainless steel and are a self tensioning
- All cables are terminated with 6mm copper stop swages
- Plastic sleeves and grommets are injection moulded UV stabilised Acetal
- Please refer to our website for further information

Installation

- Installation of Sentrel balustrade and pool fence panels is fast and simple
- Timber Panels are supplied oversize, and are trimmed to exact length on site. Panels mount to posts by stainless steel pins that are fixed into the posts and received by slots in the underside of the panel's rails. The fit is an 'interference' fit, and there is not necessarily a need for any further fixing (see 'Sentrel Timber Panels - Installation Instructions')
- Aluminium Panels mount to existing posts, or to aluminium posts supplied as a part of the system. The system is designed and supplied with no trimming required (see 'Install Instructions for Sentrel Aluminium System – Installation Instructions')
- Time required to install is estimated at approximately 10 - 15 minutes/metre/person. Therefore, a team of 2 can install an average domestic job (25 metres) in about 2 - 3 hours

Maintenance – Timber Panels

- Timber will need to be maintained in accordance with the specific product that has been applied. Cracks may appear more readily in the timber if no finish is applied. If a more natural 'silvered', aged look is desired, please discuss the best way to achieve this with us
- In harsh environments (close to the ocean), it is recommended to regularly wash stainless steel with soap and water to prevent 'tea staining' over time. We can also recommend products (polishes) that will help protect/and or restore stainless steel
- The vertical cables are tensioned in the factory by 'spreading' the upper and lower cables apart thus creating tension in the cables. There is one continuous cable running between each supporting upright. It is unlikely that these cables will require re-tensioning over time; however, there is provision for this if necessary. Re-tensioning is simple and fast and is achieved by turning the bolts that are accessible under each supporting upright an equal amount. A video showing how to do this is available on the technical page of the website

Maintenance – Aluminium Panels

- The Aluminium rails are maintenance free
- In harsh environments (close to the ocean), it is recommended to regularly wash stainless steel with soap and water to prevent 'tea staining' over time. We can also recommend products (polishes) that will help protect/and or restore stainless steel
- The vertical cables are pre-tensioned in the factory, and the panels incorporate a mechanism to keep the cables tensioned. Therefore there is no requirement to check tension over time.

Supply

Generally, an average size job (20 – 40 metres) can be supplied within 3 – 4 weeks from date of official order. Aluminium panels require 4 - 5 weeks.

Certification

Sentrel balustrades are engineer certified and are suitable for the following occupancy types listed in table 3.3 of AS/NZS 1170.1:2002; A, B, E, C, C1/C2, C3, D, F/G. They are suitable for use at heights over 4 metres. Sentrel pool fences have been engineer certified in accordance with NATA's accreditation requirements.