

sentrel
Vertical Cable Barrier System

PRODUCT INFORMATION

2019

Sentrel Australia Pty Ltd

sentrel.com.au

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Overview

Sentrel manufactures a unique range of vertical cable balustrade and pool fence systems that incorporate powder coat aluminium or hardwood timber rails with marine grade stainless steel cables. Our products have emerged from the need for a new style of barrier that embraces the advantages and popularity of horizontal cable systems, but comply with strict new safety legislation.

Sentrel balustrades and pool fences are made as finished panels delivered to site ready for installation. We manufacture and distribute nationally from Wauchope NSW.

Specifications

Aluminium System

- 40 standard panels to fit opening sizes from 100 - 2700mm
- Panels are self-tensioning
- Horizontal upper and lower rails made from 75x40mm extruded aluminium
- Handrail options are 80x32 aluminium, 90x32 or 110x32 timber
- Handrail can run between or over the top of mounting posts
- Stair panels and gates are available
- Supporting uprights are 25.4mm, 316 grade stainless steel tube with high polish finish
- Cables are 2.5mm, 7x7 lay, 316 grade stainless steel
- All cables are terminated with 6mm copper stop swages
- All plastic components are injection moulded UV stabilised Acetal

Timber System

- 34 standard panels to fit opening sizes from 100 - 2400mm
- Panels can be easily re-tensioned if required
- Horizontal upper and lower rails are made from 70x42mm spotted gum or merbau
- Handrail options are 90x32, 110 x 32 or larger sizes upon request
- All timber is pre-treated in the factory with Cutek Timber Preserver - see section on Timber information.
- Stair panels and gates are available
- Supporting uprights are 25.4mm, 316 grade stainless steel tube with high polish finish
- Cables are 2.5mm, 7x7 lay, 316 grade stainless steel
- All cables are terminated with 6mm copper stop swages
- All plastic components are injection moulded UV stabilised Acetal

Installation

- Installation of Sentrel balustrade and pool fence panels is fast and simple
- Aluminium panels mount to existing posts with proprietary brackets or to Sentrel posts as a part of the aluminium system. See the 'Aluminium Installation Instructions' available to download from our website
- Timber panels are supplied oversize to be trimmed on site. Panels mount to posts with stainless steel pins that are fitted into the posts and protrude to receive the panels via slots in the underside of the upper and lower rail. See 'Timber Installation Instructions' available to download from our website
- Time required to fit each panel (once posts have been fixed in place) is approximately 5 minutes for aluminium and 15 minutes for timber.

Information about Timber

Sentrel manufactures timber products from either select grade Spotted Gum or Merbau. The merbau has FSC Chain of Custody certification that ensures it has been sourced from sustainable, legally operated forests overseas. The spotted gum is sourced locally and dried in accordance with Australian Standards 2796 and 2082.

We do our best to supply a quality product. However, timber is a natural commodity that cannot be completely controlled—it is susceptible to variation in colour, texture and performance over time. We warranty our products against faulty workmanship, not degradation of the timber. That said, both merbau and spotted gum are hardy, stable and durable timbers, and have been selected for use in this application for these reasons. With the correct care, Sentrel timber products will last many, many years.

Positioning

The positioning of your balustrade or fence will have an impact on its longevity. Panels positioned in moist conditions may develop rot over time. It is best for all panels to have airflow around them to avoid this risk. The grain of timber in panels installed in hot dry climates may tend to open up. They may also close up in high humidity environments. This is normal, especially for spotted gum.

Timber finishes and maintenance

There are many products on the market today designed to protect or enhance timber, and they all purport to being the best! It can be very difficult to make a choice, and because of this, we have done the research for you. From monitoring the performance of our panels over time, we have learned that the best solution for Sentrel Timber panels is to use *traditional oils*, as opposed to any kind of 'sealing' products like lacquers or varnishes either mineral or water based.

The reason that traditional oils are best is because if moisture enters the timber and cannot also be released, it may become trapped and this can compromise the quality of the timber. Traditional oils allow the timber to breathe, whereas varnishes and lacquers seal the timber and trap the moisture within.

To this end we pre-treat all timber panels with an extremely good quality preserver made by Cutek. The rails of each panel are soaked in an untinted *Cutek Timber Preserver* which allows the solution to deeply penetrate the timber. Several days later, the rails are then assembled into the panels for your installation.

Only the rails of the panels are pre-treated. Handrail supplied is not treated. You will need to finish the handrail and also further finish and maintain the timber in the panels if you wish that it does not 'silver' (go grey) with age. Any quality traditional oil will do the job, however we do recommend the Cutek range with an appropriate coloured tint*

Information about Stainless Steel

All stainless steel will discolour, 'tea' stain or rust if not maintained correctly—even 316 marine grade—due to the build up of accumulating grime and minerals on the surface over time. The simplest and easiest way to prevent this happening is to wash with mild dishwashing soap and warm water. Put a few drops of detergent in a bucket of warm water, wash down, then rinse off thoroughly. The more aggressive the environment is, the more maintenance will be required. If your installation is in one of the following environments listed below, we recommend that cleaning takes place weekly, otherwise once every month or two should keep it in great shape.

- Coastal areas which have sea spray
- On main roads with excessive carbon monoxide
- Below an air conditioner unit
- Below a wood beam or steel gutter
- Subject to spray from chemicals or bore water holes
- Washing glass or tiles with certain chemicals
- Some borehole waters

* It is the coloured tint in oils that provide UV protection and reduces the rate of 'silvering'.

Sentrel timber products are a beautiful addition to your home that will require a degree of ongoing maintenance. Sentrel aluminium products are an equally stylish addition that require minimal maintenance.

Supply

Sentrel balustrades and pool fences are made to order. Timber products will be ready for dispatch four weeks from date of order and aluminium products will be ready six weeks from order.

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.