

PRODUCT INFORMATION

2019

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
- The timber is left unfinished - 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 hundreds of products on the market today designed to protect or enhance timber, and they all purport to being the best! Unfortunately, there is no straightforward solution as to how best finish your timber. The correct choice will depend on how you want the timber to look, the positioning of the installation and the climate where you live. Consultation with a trusted painting professional may be helpful. The 3 main options you have are; 1. Use a traditional (mineral based) oil. 2. Use a coating finish (varnish, lacquer and water based protectants). 3. Leave the timber unfinished, let it 'silver'.

1. Traditional oils penetrate deep into the timber to help protect it. We consider Cutek CD50, Extreme or Preservative to be quality products designed for this purpose. Any moisture that becomes trapped in the timber—especially on the bottom rail—is likely to compromise the quality of the timber. Traditional oils allow the timber to breathe which minimises this risk. They are easy to apply on the panels, however application is required more often than a varnish or lacquer to maintain a fresh timber look.
2. Varnish, lacquer and any finish that coats and seals the timber can often look terrific and last longer than penetrating oils before reapplication. However there is a risk that these finishes can trap moisture in the rails. Because they are invariably a more viscous paint, they are more difficult to apply to the Sentrel panels, and if not reapplied before any signs of deterioration the panels may need to be stripped before reapplication.
3. Some people like the 'silvered' look of weathered timber and the idea of minimal ongoing maintenance. Being hardwoods, both merbau and spotted gum may be ok left untreated. However, this is not an exact science, and comes with a degree of risk.

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 no ongoing 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 five 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.