

# SENTREL PRODUCT INFORMATION

## ***Vertical Cable Balustrade & Pool Fence Panel Systems***

Sentrel Australia manufactures two unique balustrade panel and pool fencing panel systems designed for residential and architectural applications:

- Vertical Cable Balustrade & Pool Fence Panel System
- iRail Stainless Steel Rod Balustrade & Pool Fence System

Both systems provide safe, durable and visually clean barrier solutions while maintaining uninterrupted views and airflow. Sentrel systems are Australian designed and manufactured and shipped nationally ready for installation.

## **Vertical Cable Balustrade Panel System**

Manufacturing since 2007, Sentrel Australia continues to lead the market with its award-winning vertical cable balustrade panel system. Sentrel aluminium balustrade panels incorporate powder-coated aluminium rails and vertically tensioned 316 marine-grade stainless steel cables.

All aluminium panels are finished with Dulux Duratec® long-life powder coating, providing superior durability, colour retention and resistance to harsh Australian environments.

## **Aluminium Panel System Features**

- 44 standard panel sizes to suit openings from 100–3000mm
- Panels manufactured to exact length
- Cables are self-tensioning, maintaining correct tension over time
- Horizontal rails made from high tensile extruded aluminium
- Dulux Duratec® powder coated aluminium rails
- Handrail options: no handrail, 80x32 aluminium or 90x32 timber
- Handrails can run between or over mounting posts
- Stair panels and gates available
- 2.5mm 7x7 lay 316 marine-grade stainless steel cables
- 25.4mm polished 316 stainless steel uprights
- 6mm copper stop swage cable terminations
- UV-stabilised injection moulded Acetal components

Typical panel dimensions:

- 1020mm balustrade panel height
- 1220mm pool fence panel height
- 64mm cable spacing

Panels mount to 65x65 aluminium posts or between existing structurally sound posts.

## **Handrail Options**

- No handrail (pool fencing applications)
- 80x32 aluminium handrail
- 90x32 timber handrail

The timber handrail option is provided purely as a design feature and does not form part of the structural aluminium panel system.

## iRail Stainless Steel Rod System

The Sentrel iRail system is a balustrade and pool fencing system designed for on-site assembly. It incorporates vertical stainless steel rod infill within aluminium rails.

### iRail System Features

- Aluminium rails supplied in 100mm increments from 100–3000mm
- 12.7mm diameter 316 stainless steel rod infill
- Rods spaced at 100mm centres
- System assembled on site during installation
- Suitable for balustrade and pool fencing applications
- Posts and mounting brackets supplied
- Installation jig supplied for accurate rod positioning
- Handrail options: no handrail, 80x32 aluminium or 90x32 timber

Typical system dimensions:

- 1000mm balustrade height
- 1200mm pool fence height

### Installation

Vertical Cable Panels:

- Panels manufactured to exact length
- Panels mount to posts using proprietary brackets or Sentrel posts
- Installation time per panel approximately 5 minutes once posts are fixed

iRail System:

- Aluminium rails supplied to length
- Stainless steel rods inserted during installation
- Installation jig ensures accurate rod spacing

### Stainless Steel Care

All stainless steel may develop surface staining or tea staining in aggressive environments if not maintained correctly, even 316 marine-grade stainless steel.

- Warm water
- Mild detergent
- Rinse thoroughly with clean water

### Powder Coated Finishes

Sentrel aluminium balustrade panels and pool fence panels are finished using Dulux Duratec® long-life powder coating providing durability, colour retention and resistance to UV exposure.

### Supply

All Sentrel balustrade panels and pool fencing panels are manufactured to order in Wauchope NSW and distributed nationally directly to site.

- Vertical Cable Aluminium Panel System — approximately 6 weeks

- iRail Stainless Steel Rod System — approximately 6 weeks

## **Certification**

Sentrel balustrade panels are engineer certified and suitable for occupancy classifications listed in Table 3.3 of AS/NZS 1170.1. Sentrel pool fencing systems are certified in accordance with AS 1926 Swimming Pool Safety.