

| Structural engineering materials, metals and non-metals |

## Stainless steel handrailing: accident and maintenance free

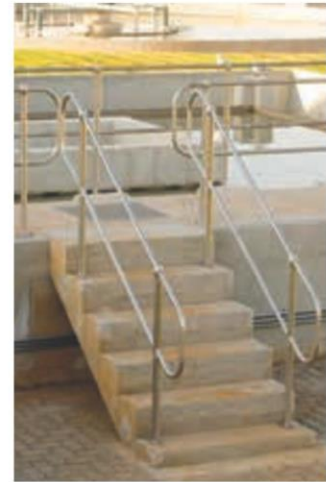
Recognised and accepted as the handrailing of choice in the food and beverage, cosmetic, mining, petrochemical and sewage industries, the Mentis stainless steel tubular handrailing system is corrosion resistant and maintenance free.

**E**laine van Rooyen, marketing manager at Andrew Mentis, says that stainless steel handrailing has become increasingly popular in certain applications. “Stainless

steel offers excellent stain and corrosion resistant properties and is an attractive alternative to traditional mild steel or painted handrailing systems,” she says. “In addition, where handrailing is corrosion resistant the wear normally associated with standard handrailing installed in metal unfriendly environments is inhibited, so accidents associated with broken handrailing will be excluded.”

Mentis’ 304 stainless steel and 3CR12 handrailing systems are completely different to the company’s standard mild steel

handrailing system. The stanchion is 44.5 mm in diameter with a 2.0 mm wall thickness and is formed from a single length of tube. The centre hole for the knee rail is drilled and then flared on both sides. The top is also flared and a half round cap is welded into place. The base plate is 8.0 mm thick and welded to the tube.



Stainless steel handrailing has become increasingly popular in applications such as wastewater treatment plants.

“The stanchion base plates are designed to allow moisture to drain from the stanchion itself, adding to the corrosion resistant benefits,” van Rooyen says.

This Mentis stainless steel handrailing system has clean, modern lines and stanchions are supplied in a range of standard angles with accessories to match. The bends and closures available for the mild steel system are also available for the stainless steel system. This approach, manufacturing a variety of components, offers versatility with different bends and end closures available. The hand, knee rail and bends are manufactured from 31.7 mm tube with a 1.5 mm wall thickness. Bends and closures have swaged ends, again allowing faster installation and preventing moisture from entering the joints.

The components of the tubular handrailing system are manufactured to allow ease of installation and no special tools are required.

“This system is available in 3CR12, 304 and 316 stainless steel polished to a satin finish. This choice of grades offers almost unlimited versatility for interior and exterior commercial applications,” van Rooyen concludes. □



Mentis’ stainless steel tubular handrailing system is corrosion-resistant and maintenance free

## Stainless steel cable ties keep order on solar farm

**T**ransformers have exposed cables running from all the devices that measure temperature, voltage and gases. These wires need to be effectively channelled to a central box using a strong, durable cable bundling solution, such as Banding & ID Solutions Africa’s tough multi-lock cables, which are being used at a large solar project in the Northern Cape.

The project, located in Prieska, is the third solar power plant constructed under the South African government’s renewable energy procurement programme, in an effort to achieve the country’s renewable energy goals and contribute significantly to the electricity grid. Construction of the Prieska solar project began in April 2015 and is set to be completed by the end of 2016.

Transformers play an important role in reducing high voltage electric-

ity that is received from power lines into the substations. The transformers supplied to the solar farm have cables running through them that hang loose and stand a chance of being damaged or becoming defective. Therefore, the multi-lock cable ties supplied by Banding & ID Solutions Africa ensure that the cables are organised, reducing the chance of errors from the transformers.

Banding & ID Solutions Africa business manager Rosa Remendos notes that the company distributes and manufactures Band-It stainless steel strapping and buckles under license from USA-based Band-It-Idex, a world leader in quality engineered band clamping and fastening solutions. “Band-It cable ties are made from high-strength, corrosion-resistant 316 stainless steel coated with Nylon 11, which has excellent chemical and weathering resistance for long life expectancy,” she says. □

