

BlueScope at the Blue Route Mall Upgrade



A pre-painted AZ200 roofing material, manufactured by BlueScope Steel, was recently used in a major upgrade of the Blue Route Mall

Amazing White, an exclusive colour in the Clean COLORBOND™ ULTRA steel range, was formed into Ziptech 420 by Hualamin for the main roof, covering 30,000m². The product was also formed into Ziptech XT cladding and used as Cladtech F350 panels for eaves and soffits.

According to Lance Wilson of Hualamin, Clean COLORBOND™ ULTRA steel was specified for its “cost effective corrosion resistance, the durability of the substrate and superior coating”.

The roof was designed and roofing material specified given the windy and often stormy wet conditions that rake the South Peninsula, with the following criteria in mind:

- Water carrying capacity. The roof had to offer sufficient resistance to ingress of water - due to profile height and standing seam lap design
- Ability to reverse smooth curve – effectively a reverse concave design,
- Ability to meet these criteria via single long reverse smooth curved sheets
- Negative wind resistance due to seaming of upstands and not clipping.
- Aesthetic features

A white pre-painted roofing material was chosen for energy conservation reasons. “The white colour chosen by the designers of the mall upgrade provides an ideal cool roof. The unique paint system used on all colours of the entire Clean COLORBOND™ steel range incorporates various essential sustainability features

such as high reflection of incoming solar radiation (SRI), exceptional colour retention, anti-chalking and dirt resistance”, says Wayne Miller, the BlueScope Steel head of operations in Southern Africa.

To enhance a project’s rating under the Green Star system or simply in promoting sustainable building practice during refits, GBCSA member company, BlueScope Steel recommends that roofing systems should optimise levels of performance and lifespan, in addition to minimising their carbon footprint. BlueScope Steel defines this sustainability as follows:

- Long service life & ultimately recyclable
- Dematerialisation of the substrate and the coating – lower coating mass - but giving better performance
- Reflect maximum amount of incoming solar radiation via advanced infrared coating system

(Reference: ‘Steel in Sustainable Building’ - SA Roofing Magazine Jul/Aug 2011)

Under harsh climatic conditions, especially within the sensitive 5km coastal zone, Miller advises “Use only premium grades of alloy-coated steel such as ZINCALUME® and pre-painted steel such as Clean COLORBOND™ to gain much longer service life...If you are building in severe industrial environments where there are aggressive fumes or particulate fallout within a 200m radius of if the location is within 100 - 400m of the sea, we would advise using our Clean COLORBOND™ ULTRA. This has an AZ200 coating – in this case, coated to a mass of 200 g/m² over the steel substrate.

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* Depending on colour, level of insulation, building shape and function.

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