



Govan Mbeki Sports Centre, PE – durability with style on a tight budget.

Roofs are becoming more than a primary defence from the elements – they are becoming the hardest working part of the building envelope.

Sustainable architecture:

Steel roofing leads “the charge for change”

The built environment is responsible for 40% of the world’s greenhouse gas emissions and utilises one third of the world’s resources. With these alarming numbers, embracing sustainability in buildings is no longer an option – it is a necessity. A well-designed roofing system is a critical part of the total building’s durability and service life.

Roofing systems should provide the owner with optimum levels of performance and lifespan.

Unlike other roofing materials,

metal has a low thermal mass with a propensity to radiate heat away from a building rather than storing it. The simple addition of insulation material creates a highly efficient roof cavity with reduced air leakage and reduced intake of dust – making both the roof and the insulation much more efficient than an insulated tiled roof of the same design.

These properties make a steel-roofed building more comfortable to occupy in extreme weather, thus reducing the use of heating and cooling systems during the useful life of the building.

The structural nature of a steel sheet is able to readily incorporate solar panels and other superstructures. Mechanical mounting systems attach directly to the roof rib, with no penetration of sheet, to ensure maximum water-tightness for the service life of the roof sheet. The structural integrity of the roof system is also unimpaired by the superstructure.

Safintra South Africa features a range of non-piercing clips for all sorts of attachments to the roof, from solar

STEEL ROOFING FACTS:

- Steel is 100% recyclable.
- Better coatings for steel deliver optimal performance.
- Metal roof performance depends on reflection or emittance.

thermal to PV panels, walkways and service ramps, and more – all without creating a single hole in the steel sheet.

Safintra is the sole African distributor of S-5 clamps, with international performance proven over two decades in the field.

Safintra Roofing is part of the Safal Group, the largest steel roofing manufacturer in Africa. Safintra operates from 30 operations in eleven countries on the continent, and is committed to making “A world of difference” in the lives of people in all walks of life.

IN STEEL ROOFING MATERIALS, SUSTAINABILITY IS DEFINED AS:

- Being ultimately recyclable.
- Using less material, but delivering better performance.
- Being thermally efficient/heat-reflective.
- Helping to reduce energy consumption during its useful occupied life.

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