

# The Smart Roof People



Talk to **THE SMART ROOF PEOPLE**  
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Brownbuilt | HH Robertson



# Total Roofing Solutions From GRS

Global Roofing Solutions consists of two leading South African roofing brands, Brownbuilt Metal Sections (established in 1964) and HH Robertson (established in 1958), making it one of the largest metal roofing and roofing accessory manufacturers in South Africa.

Both Brownbuilt and HH Robertson are household names for the manufacture of commercial and industrial steel roof covering and wall cladding profiles (concealed fix and pierced fix), composite steel floor decking profiles and lightweight coated metal roof tiles (ARMA-TILE™ and UNI-TILE™).

With exports to over 20 countries worldwide, GRS has established itself as a global supplier of roofing products. Through its broad and established South African manufacturing base, the company is committed to expanding its supply to the SA construction sector and throughout Africa.

## Capabilities and Facilities

- Roll forming and pressing capacity in excess of 4000 tons per month.
- Continuous research and development.
- Numerous static roll forming mills, producing several million square metres of sheeting and tiles per annum.
- 15 mobile roll forming mills for on-site roll forming of long length sheets.
- Extensive design and architectural experience to assist quantity surveyors, contractors and architects with projects.

## Certificates & Memberships

- ISO 9001:2008 - certification for quality management.
- Agrément South Africa – certification of selected Brownbuilt and HH Robertson products.

- SAMCRA – South African Metal Cladding and Roofing Association
- SAISC – Southern Africa Institute of Steel Construction.
- AFSA – Aluminium Federation of South Africa.
- SASSDA – Southern Africa Stainless Steel Development Association.

## World Class Products

The roofing products supplied by GRS, are available in various materials: Galvanised steel, Zincalume®, ZincAL®, stainless steel, aluminium, copper, polycarbonate, GRP (fibreglass) and other composite materials, with a variety of coloured and textured finishes, such as: Embossing, Chromadek®, Clean COLORBOND™, COLORPLUS®, corrosion resistant Global-Duro™ and 100% Acrylic and Grit coatings.

## Ventilators, Louvres, Flashings and Industrial Rainwater Goods

Helm Engineering, a Global Roofing Solutions subsidiary, manufactures Ventilators, Louvres, Flashings and Industrial Rainwater Goods.

### Ventilators

Natural Ventilation:

- Ridge Vents (H-RV)
- Slope Vents (H-SV)
- Super Ventilation (H-HVD/H-UF) – designed for the removal of large heat loads from plants such as glassworks, boiler houses, steel and aluminium smelters.

Smoke Ventilation:

- Automatic Release Ventilators (H-ARV/H-RLV/H-AWL) – designed to automatically provide maximum exhaust area under fire conditions, while providing a fully weathered unit in its normally closed position.
- Multi-Purpose Ventilator (H-MK111) – Smoke & Natural Ventilation.



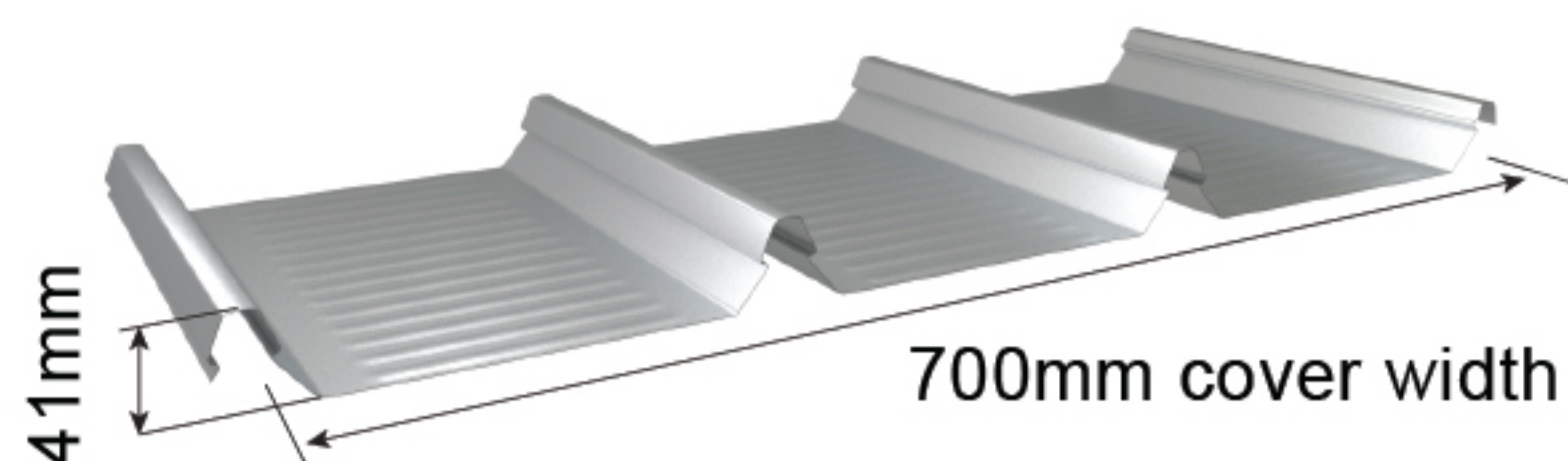
## MISSION STATEMENT

*“To provide total roofing solutions to the global marketplace”*

## MANUFACTURING & QUALITY POLICY

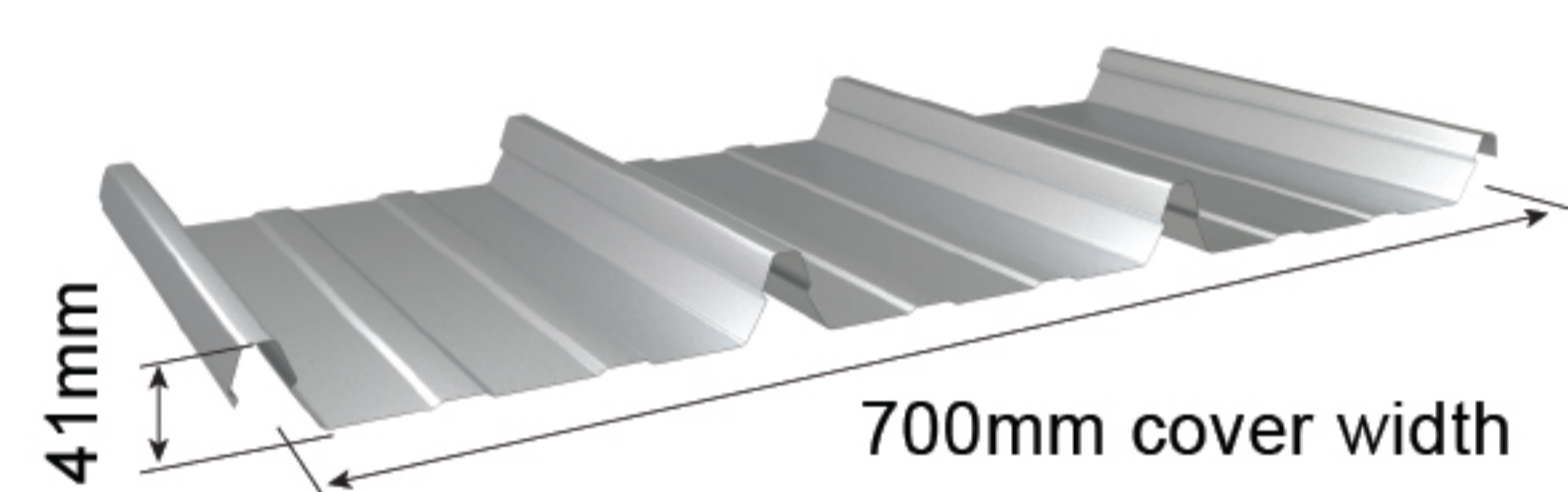
*“To manufacture and market products which meet and exceed the quality and performance required on the world market.”*

# Concealed Fix Roofing Profiles



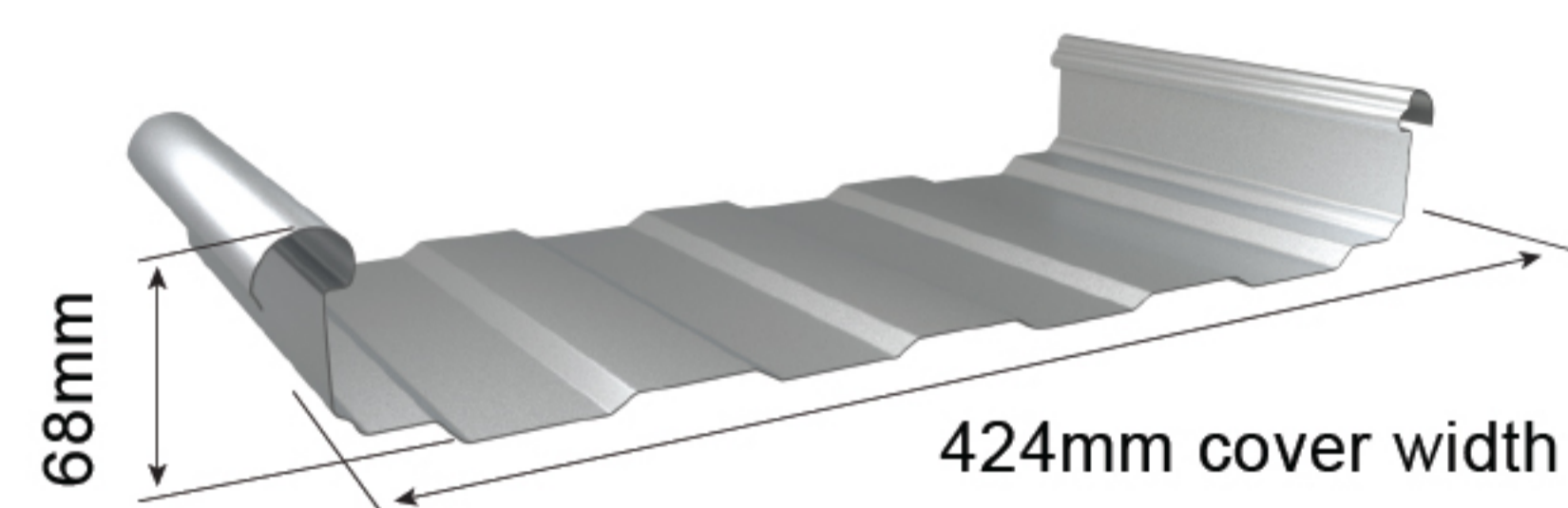
## Klip-Tite™

Similar to Klip-Lok 700 but with increased wind uplift resistance. The introduction of transverse stiffeners, in lieu of the traditional longitudinal pan stiffeners, form structural members spanning across the width of the pan. The deflection of the pan is thus reduced, increasing the wind uplift resistance of the sheet. These transverse pan stiffeners are a first in the South African sheeting market. Site-rolling is available.



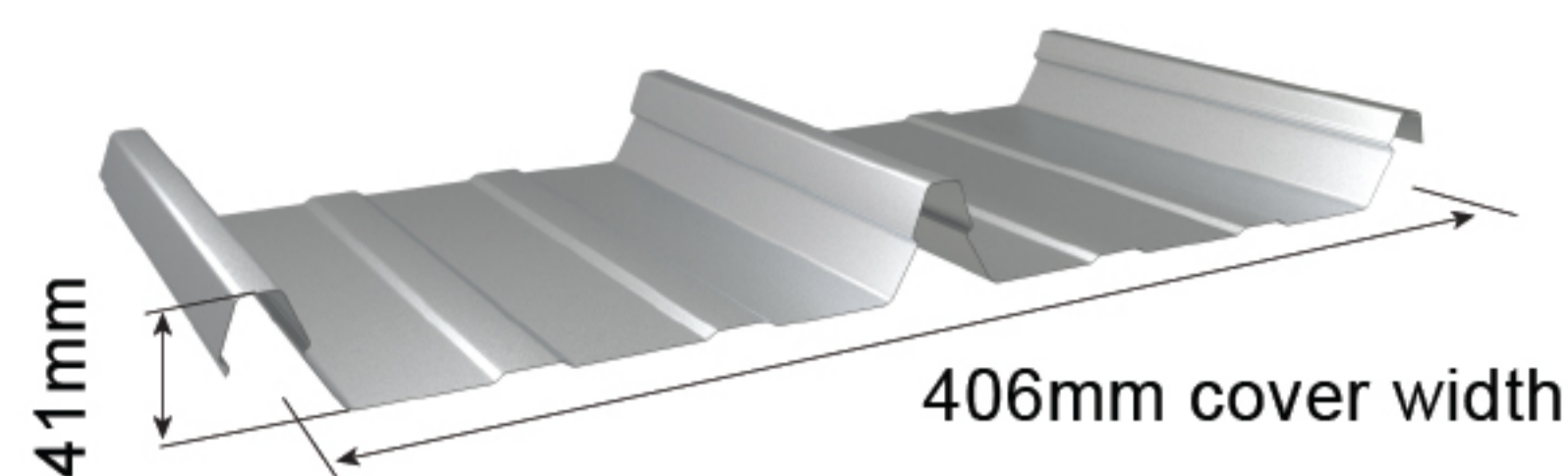
## Klip-Lok 700™

Similar to Klip-Lok 406 but wider. This sheet is even faster to install yielding greater savings. This profile is ideally suited to low roof pitches. Manufactured from certified high yield steel making it lighter and stronger. Site-rolling is available. Klip-Lok 700 will be phased out and replaced by Klip-Tite, however it will be available for remedial work at limited capacity.



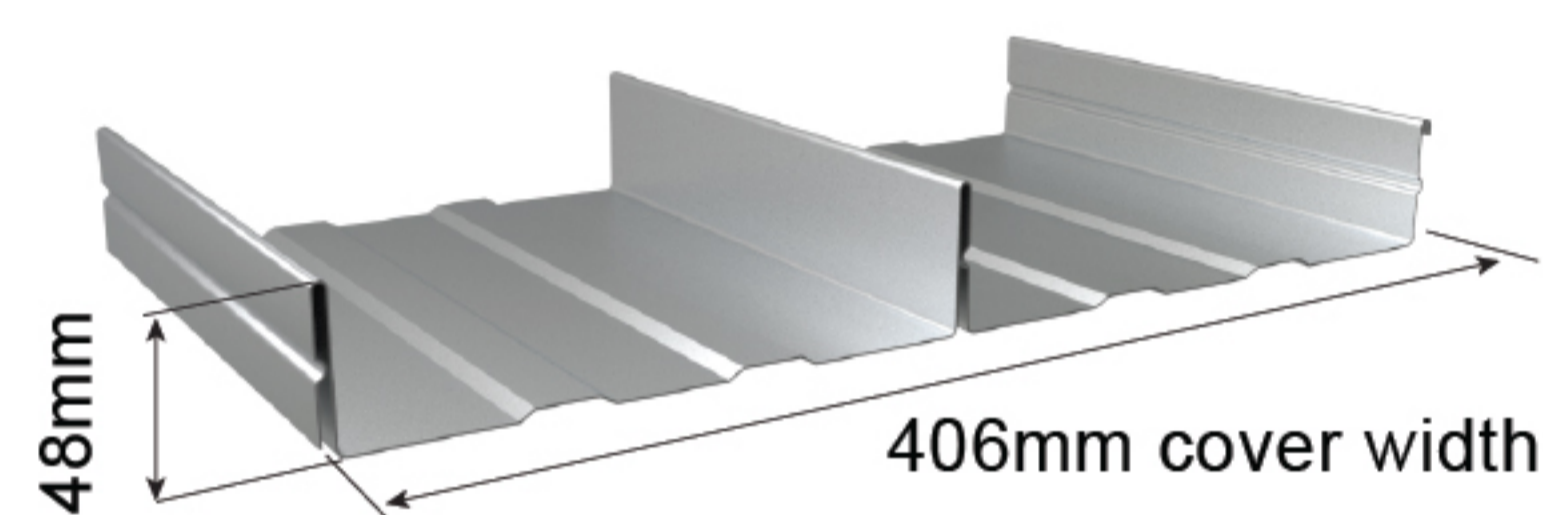
## Zip-Tek 420

This unique concealed fix system is commonly known as a standing seam system. This is one of the only concealed fix systems where the sheet can be tapered, as well as smooth curved. It is also the only concealed system that can be reverse curved.



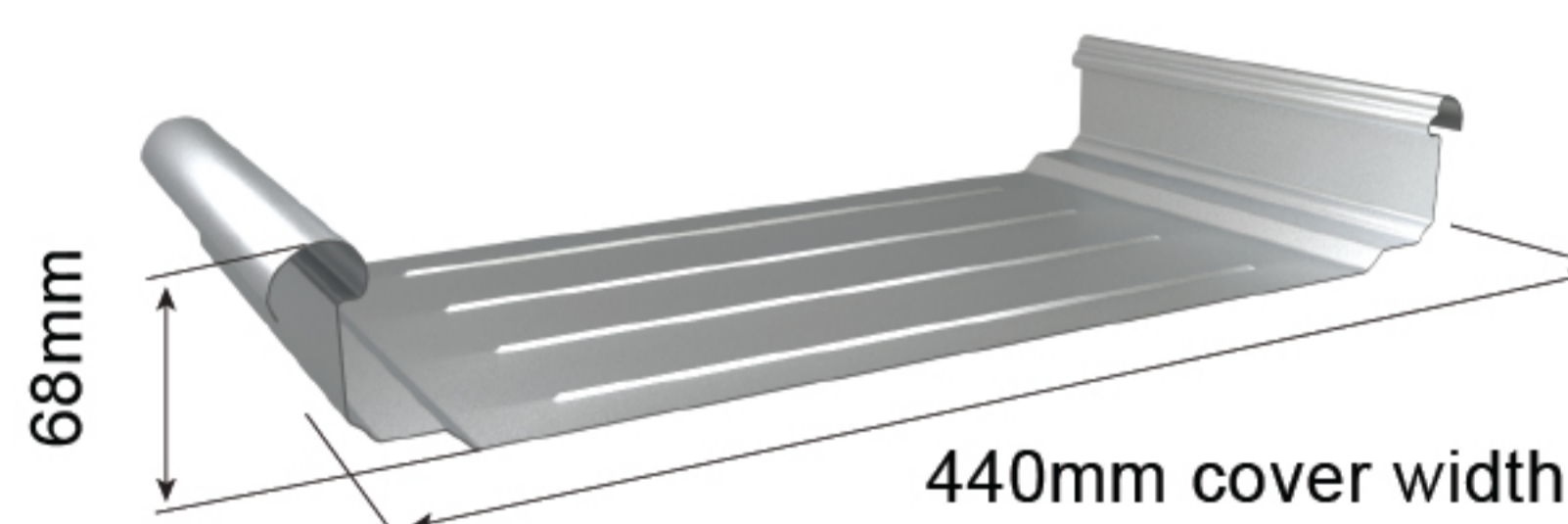
## Klip-Lok 406™

A concealed fix profile with unique double interlocking side laps makes this a very fast installing roof sheet. This profile is ideally suited to low roof pitches. Manufactured from certified high yield steel or special grade aluminium making it lighter and stronger. Site-rolling is available.



## Brownbuilt™

This classic and well-known concealed fix sheeting system is available upon request and also for site-rolling in neighbouring countries (subject to minimum order quantities). Also frequently used as underslung / ceiling sheets on fuel station canopies.

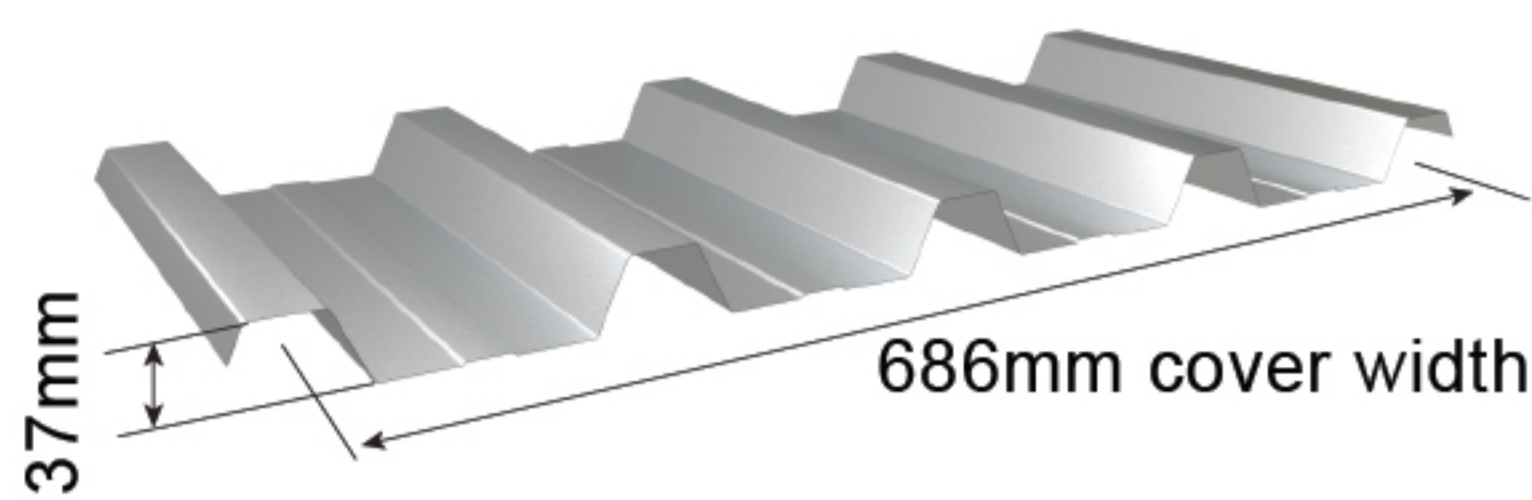


## Zip-Tek 440

Similar to Zip-Tek 420 but wider, and incorporates transverse stiffener ribs. Please note, Zip-Tek 440 is only available for exports, SADC and African countries.

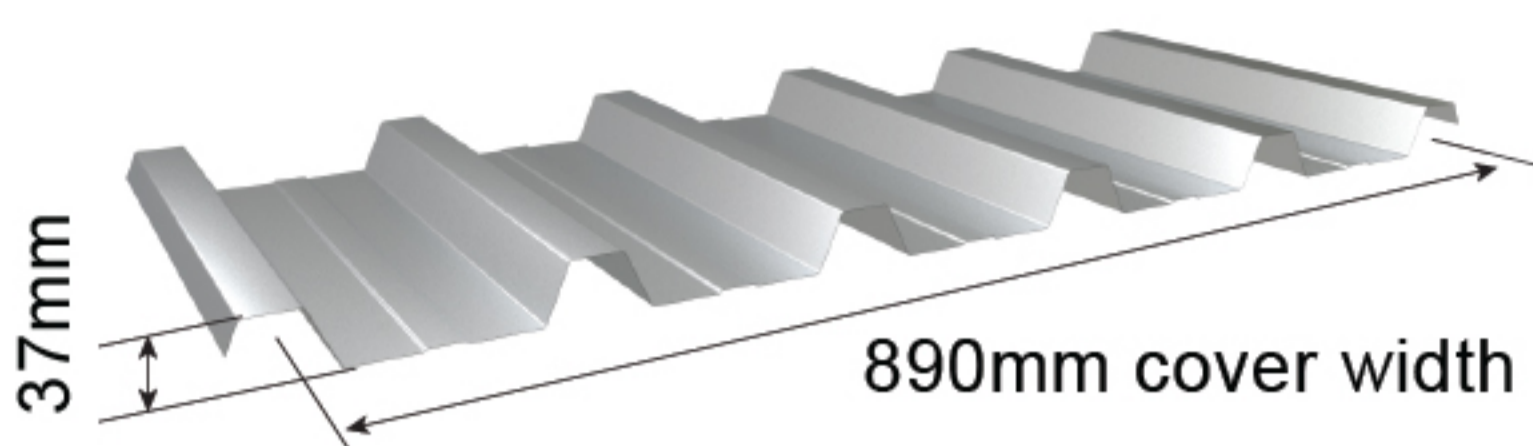


# Pierced Fix Roofing and Cladding Profiles



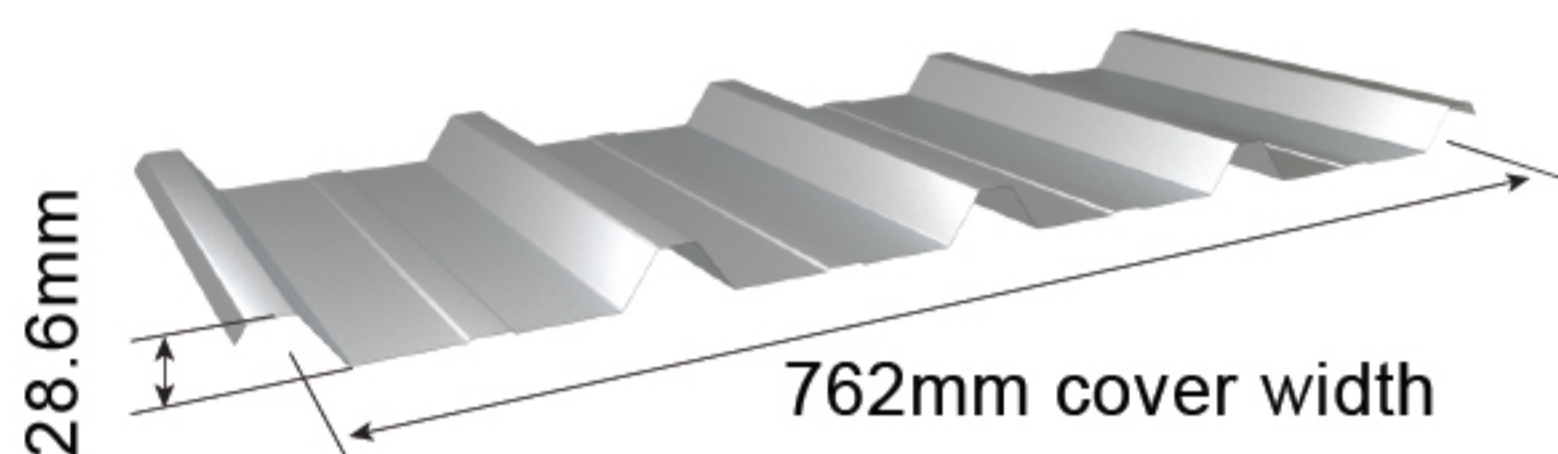
## IBR 686

The trapezoidal flute design still offers the optimum strength, mass and load-span characteristics compared to alternative profiles.



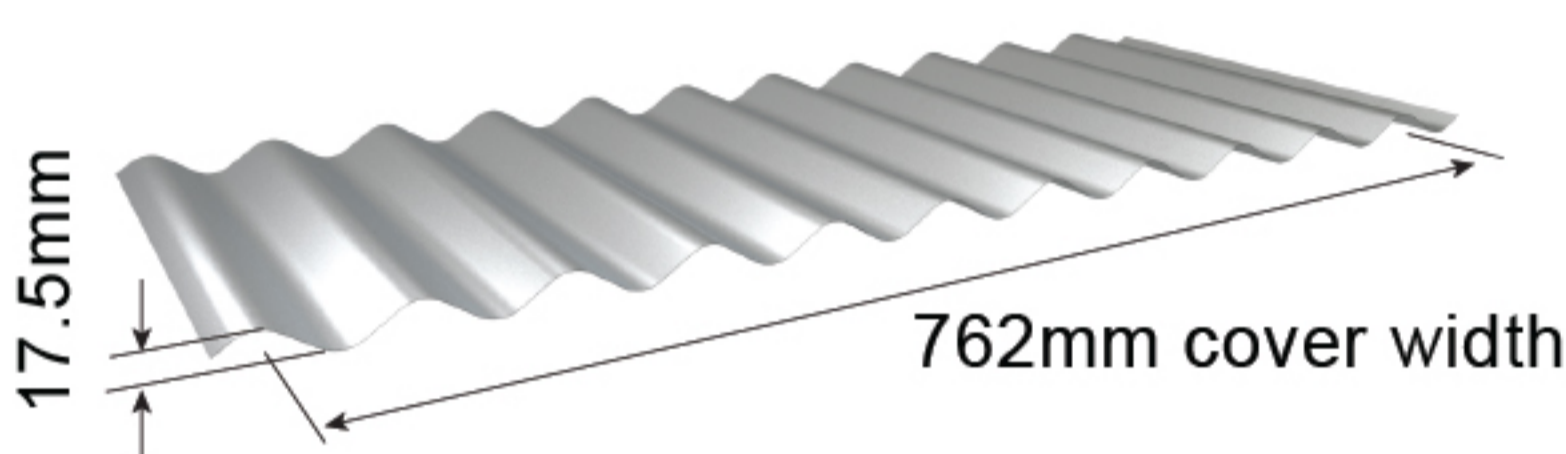
## IBR 890 (Supa-Clad)

This wide span trapezoidal profile provides the choice of wider cover and more effective installation, saving on purlins and labour.



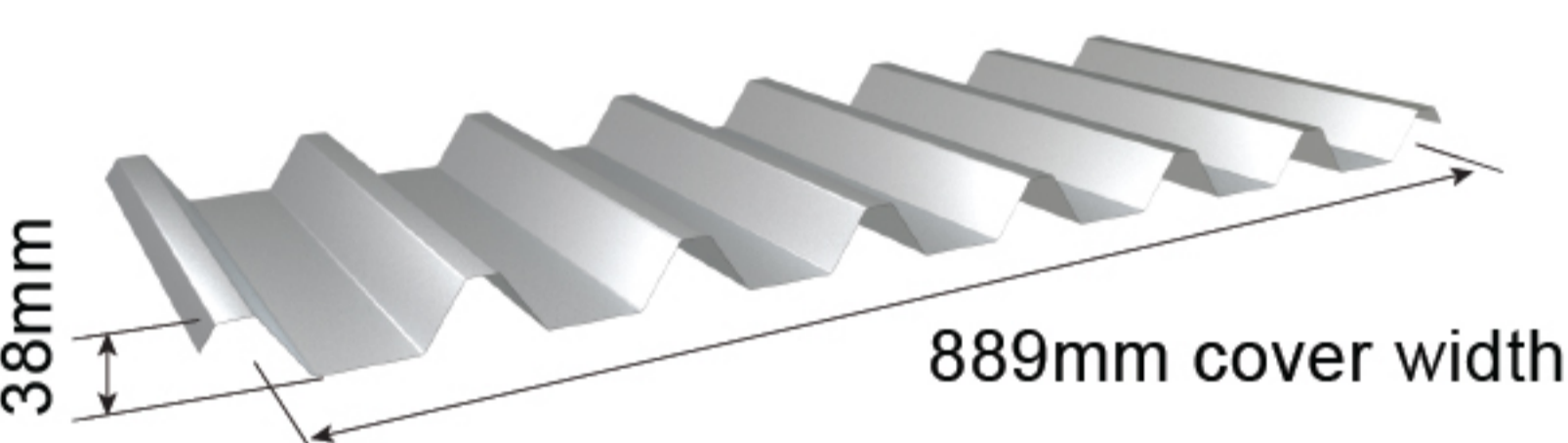
## Nu-Rib™

Effectively bridges the gap between Corrugated and the standard IBR 686 box ribbed profile.



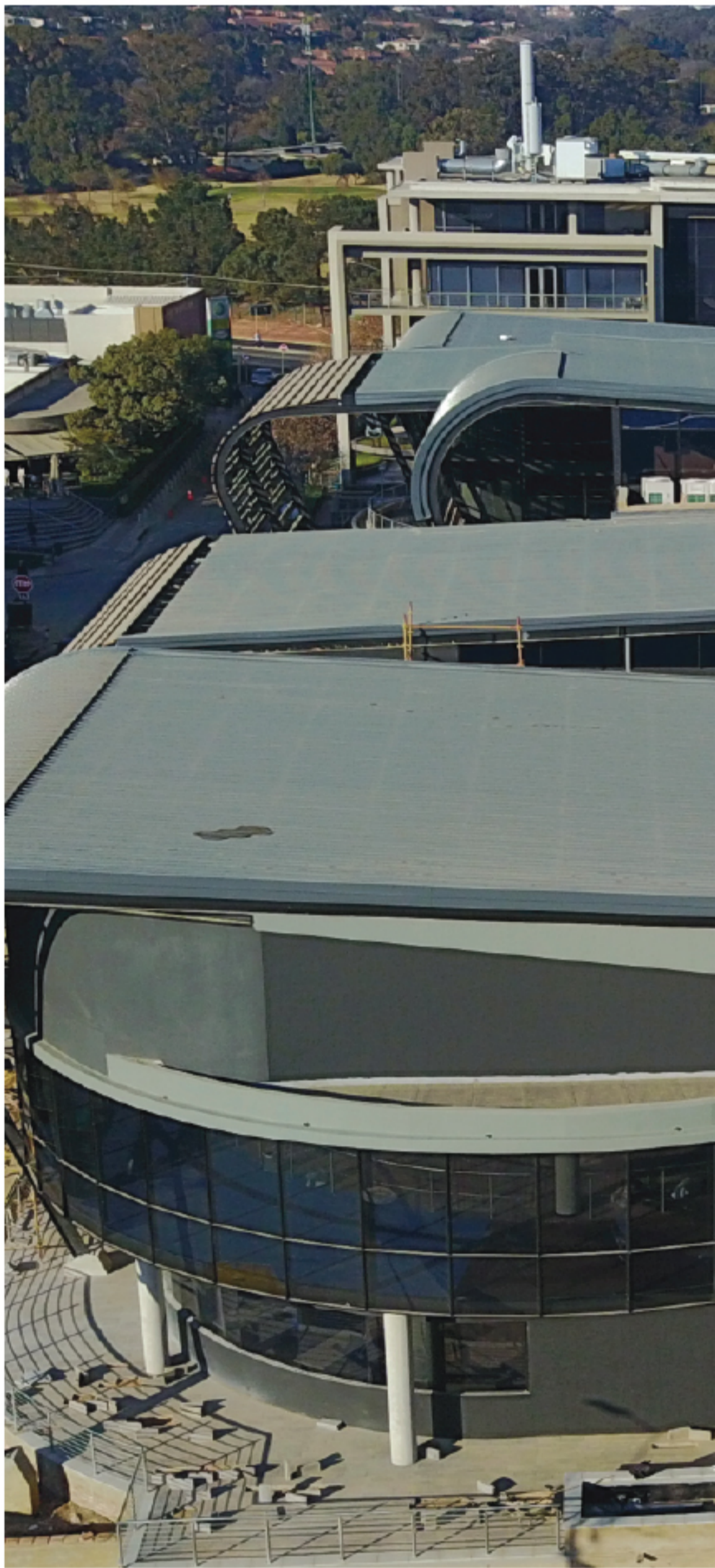
## Corrugated 10.5

Corrugated 10.5 has a tranquil appearance, is relatively light, easy to handle and provides an economical coverage per unit mass.



## BR7

BR7 was designed to provide a more effective utilisation of aluminium with its span vs. economics element. BR7 can also be manufactured in steel.



# Total Roofing Solutions From GRS

## Louvres

Standard and custom-made Louvres are manufactured. The Louvres are designed to operate in conjunction with either mechanically powered or natural ventilators to replace hot stale air. Fixed Louvres provide permanent ventilation, whereas adjustable Louvres can be set to deliver variable amounts of air depending on the day to day climatic conditions.

## Flashings

Standard flashings are manufactured for all roofing profiles in different thicknesses, materials and finishes. Special configurations of flashings can be manufactured to clients' specifications within certain limitations.

## Industrial Rainwater Goods

Standard and custom-made Industrial Rainwater Goods include Gutters, Downpipes and Accessories.

## Certificates & Memberships:

- AS 2428.3 / 2428.4 / 2428.5 – 1983/ 4792-2-85 & 1581 & 1586
- SASFA
- FPA

## Additional Services

### Design and Consulting Services

The extensive design and architectural experience of the GRS team assists specifiers with product choice and technical advice.

GRS can also assist with technical advice with regards to the roof design, and produce a material cutting list too.

## Bullnosing, Cranking and Curving

GRS has introduced state-of-the-art machinery to provide accurate bullnosing, cranking and curving of the sheeting to suit the most stringent requirements of architects and specifiers. These details add to the aesthetics of many buildings countrywide, and our experts will assist in the design of the details to suit your building.

## Embossing

Embossing is a unique stucco pattern, which is rolled into the metal substrate, enhancing the final product. GRS has been manufacturing metal roofing and flooring materials in the unique embossed finish for many years. Independent studies has proven that embossed material has a 20% higher yield strength than plain material for steel, thus offering a more rigid sheeting profile with improved trafficability during and after erection.

The following profiles can be embossed: IBR 686, Corrugated, Nu-Rib, BR7, Brownbuilt 406, Zip-Tek and QC Flooring.

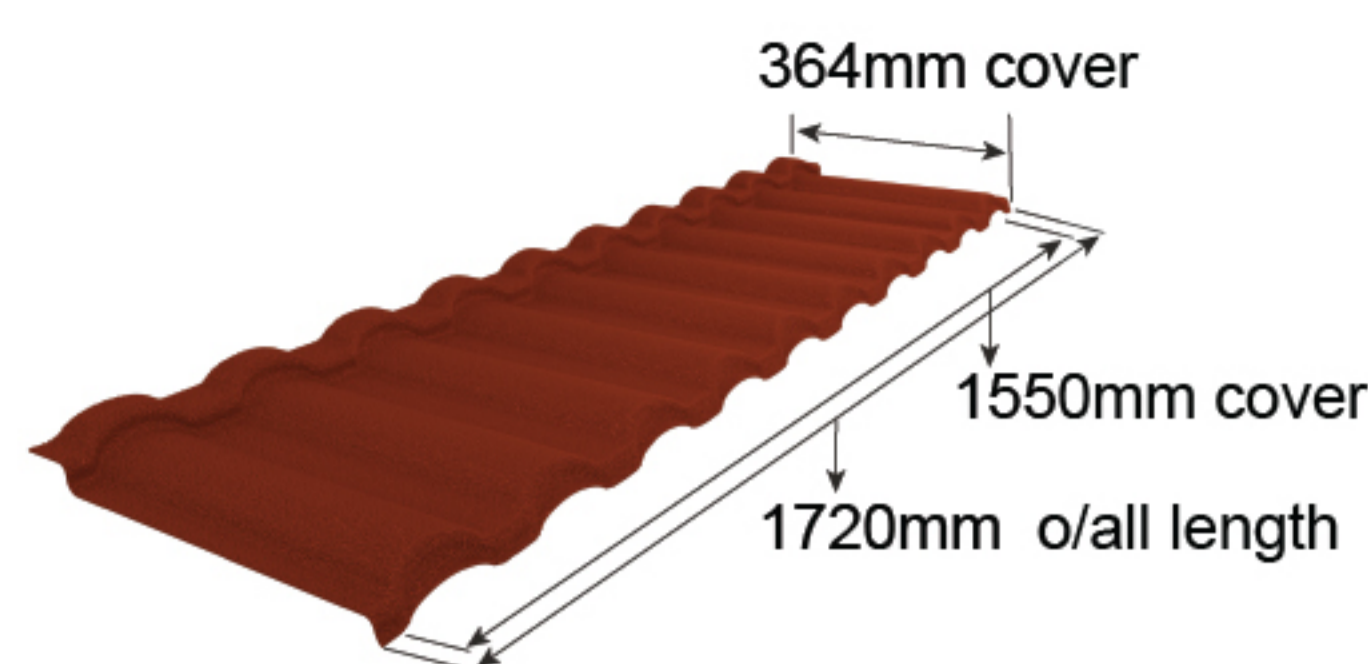
## On-site Rolling / Mobile Mill

Concealed fix roof sheeting profiles eliminate the need for piercing the roof sheets, thereby dramatically reducing the probability of roof leakage. By supplying these profiles in continuous lengths, no end lapping is required and the possibility of leakage is further eliminated. Long length sheets can be rolled on site using GRS mobile mills. The mobile mills in the GRS fleet are the most sophisticated of their kind in Africa. These fully contained, purpose-built factories on wheels, incorporate GRS's vast experience and expertise combined with the latest available technology.



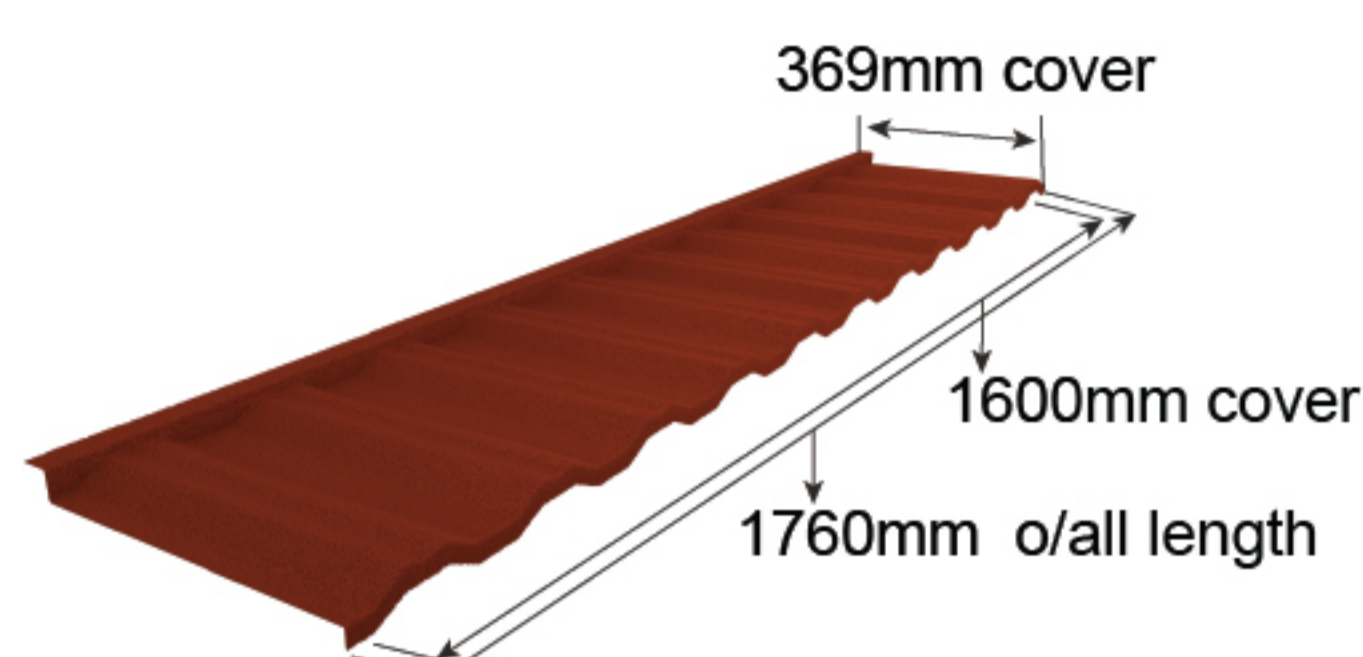
# Metal Roof Tiles

## ARMA-TILE™



A strong, attractive, light weight, pressed metal, roof tile with an acrylic grit finish. The ARMA-TILE simulates the well-known Double Roman cement tile. Its light weight significantly reduces the quantity of timber required in the support structure and provides for easy installation. These low maintenance, durable tiles are secure, tamperproof, water tight and impact resistant.

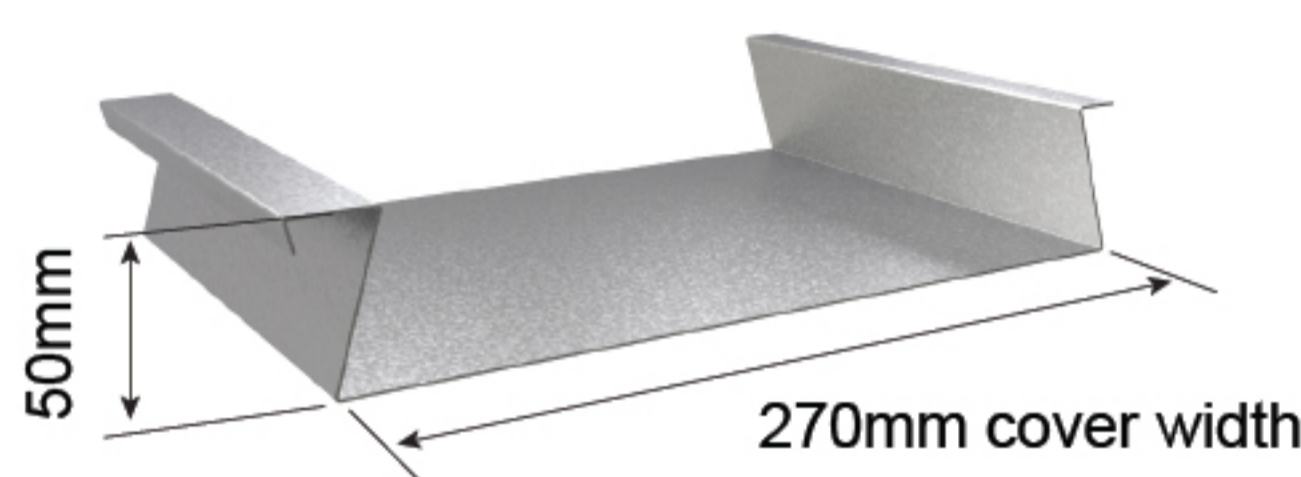
## UNI-TILE™



**UNI-TILE**

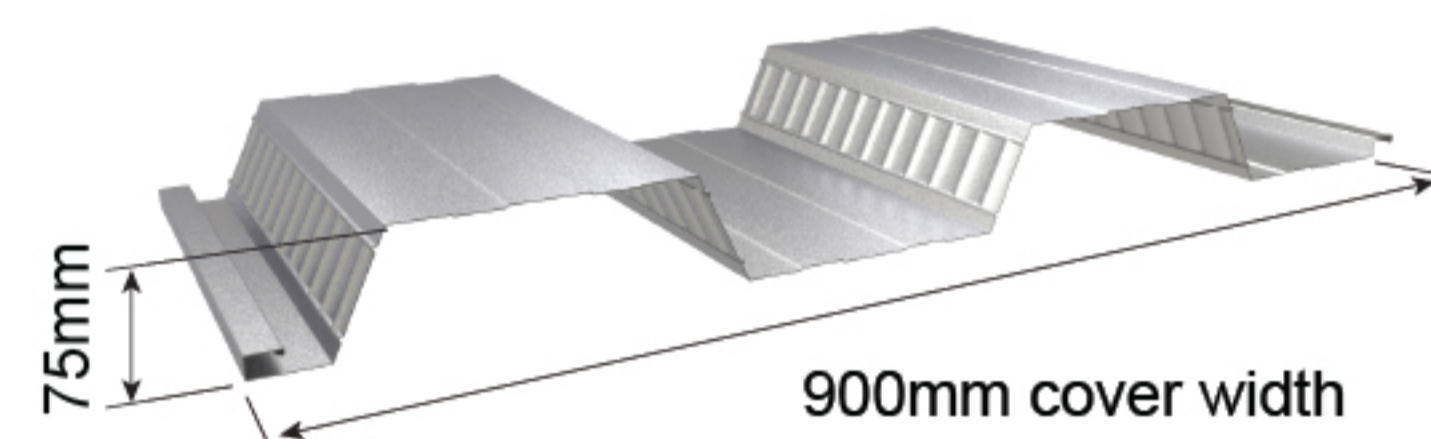
This cost-effective, new, acrylic and grit coated metal tile is universally compatible with the other popular metal tiles on the SA market. It can therefore not only be used for new roofs, but is also ideal for extensions and re-roofing projects.

# Permanent Formwork Product Range



## Bond-Lok™

A permanent formwork / shuttering which, with concrete, acts as a composite floor slab with an attractive flat ceiling on the underside. This system significantly reduces the number of props utilised and eliminates the need for reinforcing steel. Installation is extremely quick, for a further saving in labour cost.



## Bond-Dek™

An economical permanent formwork / shuttering which, with concrete, acts as a composite floor slab. This system eliminates the requirement for reinforcing steel. This profile is able to span 3m unsupported under wet concrete thus saving on props. Installation is extremely quick, for a further saving in labour cost.

## QC Flooring™



QC Flooring is a composite steel and concrete slab system with a neat ceiling, pre-painted or ready for painting underside. It provides added flexibility in that the cover width may be customised to suit the floor design.

**Note:** Full technical specifications, loads, spanning details and comprehensive CAD details are available for all the above products.

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