



INFRASET

THE AVENG GROUP



| BUILDING PRODUCTS |





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THE AVENG GROUP

Building Products Division

INFRASET manufactures and supplies a range of concrete through coloured roof tiles with all the fittings and accessories that compliment the required products for the roofing market. All its products are manufactured to stringent quality standards in accordance with the SABS.

As one of the market leaders in the industry we pride ourselves on quality, excellence and service.

Its factories are all SABS ISO 9001-2000 accredited.

Concrete Roof Tiles

Horizon™

Concrete Shingle Tile

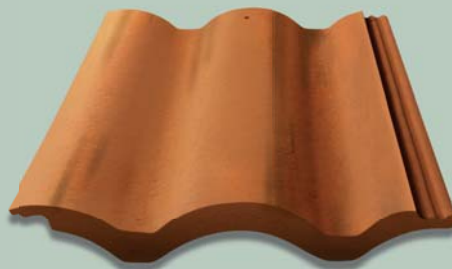
- Weight per tile: 5.1kg
- Weight per m²: 53kg
- Minimum roof pitch: 17°
- Tiles per m²: 10.42
- No half tiles
- Lay straight bond, no overlapping
- Undertile membrane mandatory



Sunset™

Double Roman Concrete Bold Roll Tile

- Weight per tile: 4.6kg
- Weight per m²: 47kg
- Minimum roof pitch: 17.5°
- Tiles per m²: 10.42



- All fittings, accessories and undertile membrane available
- Strapping of tiles – Pre-packed in easy-to-handle 5 tile packs, then 5 packs of eight strapped together in one pack
- Colours – a variety of body through colours, multiblends, standard and vintage
- Designs also available
- Manufactured to SABS standards.



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FEATURES OF INFRASET CONCRETE ROOF TILES



Easy loading

Infraset roof tiles are pre-packed in an easy-to-handle five-tile pack making loading and stacking onto the Roof quick and secure.



Secure strapping

All Infraset concrete roof tiles are securely strapped in the yard to minimise any breakages during transportation.



Quick turnaround

Our commitment to quality service and delivery ensures a quick turnaround time at the point of loading.



Multi-Blend applications

Multi-Blend tiles should be premixed on the ground before moving to the roof surface. The ratio of tiles to be used in our Vintage Multi-Blend colour ranges can be found in this brochure.

SUNSET™ DOUBLE ROMAN CONCRETE BOLD ROLL TILE

Features

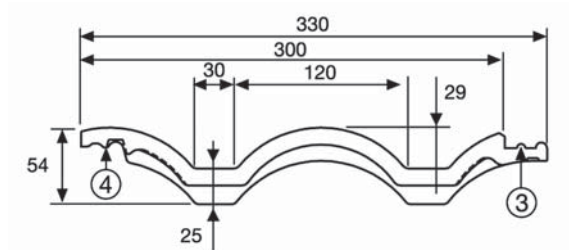
- Weather barrier against wind-driven rain (triple weather bars)
- Clip housing
- Tile interlock to ensure protection under adverse conditions
- Precision interlock to fit position 3
- Strengthening transversal ribs
- Batten lugs and bearers

Available in the following colour options:

Brown Standard SS BR STD	Amber Standard SS AM STD	Red Standard SS RE STD	Slate Standard SS SL STD	Terracotta Standard SS TC STD
				

Brown Vintage SS BR VT	Amber Vintage SS AM VT	Red Vintage SS RE VT	Slate Vintage SS SL VT	Terracotta Vintage SS TC VT	Dolomite Vintage* SS DO VT
					

* Available in: Slate • Terracotta • Red • Brown



Technical Specifications	
Tile size (overall)	420 x 330mm
Effective width	300mm
Nominal tile mass	4.6kg
Overlapping	100mm
Battens centre	320mm
Tiles per m ²	10.42 tiles
Weight per m ²	47kg
Roof pitch minimum	17.5°



HORIZON™ CONCRETE SHINGLE TILE

Features

- Weather barrier against wind-driven rain (triple weather bars)
- Clip housing
- Tile interlock to ensure protection under adverse conditions
- Precision interlock to fit position 3
- Strengthening tile support
- Batten lugs
- Batten bearers
- Nail hole

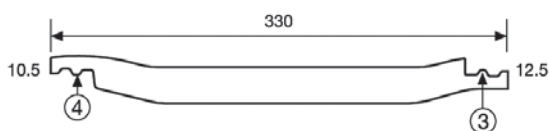
Special note: No half tiles required. Straight bond tiling.

Available in the following colour options:

Brown Standard HZ BR STD	Amber Standard HZ AM STD	Red Standard HZ RE STD	Slate Standard HZ SL STD	Terracotta Standard HZ TC STD
				





Brown Vintage HZ BR VT	Amber Vintage HZ AM VT	Red Vintage HZ RE VT	Slate Vintage HZ SL VT	Terracotta Vintage HZ TC VT	Dolomite Vintage* HZ DO VT
					

* Available on request. Subject to lead time and minimum order quantity.



Technical Specifications	
Tile size (overall)	420 x 330mm
Effective width	300mm
Nominal tile mass	5.1kg
Overlapping	min. 100mm
Battens centre	320mm
Tiles per m ²	10.42 tiles
Weight per m ²	53kg
Roof pitch minimum	17°

VINTAGE MULTI BLEND ROOF TILES

Vintage Multi Blend - MB1		Colour	Ratio	M2 Mix	Fittings Taper Ridge - Terracotta Standard Rake Verge - Terracotta Standard
		Brown	2	20%	
		Red	2	20%	
		Amber	3	30%	
		Terracotta	3	30%	
Vintage Multi Blend - MB2		Dolomite VT SL	3	30%	Fittings Taper Ridge - Terracotta Standard Rake Verge - Terracotta Standard
		Red	3	30%	
		Amber	2	20%	
		Terracotta	2	20%	
Vintage Multi Blend - MB3		Brown	2	20%	Fittings Taper Ridge - Red Standard Rake Verge - Red Standard
		Red	4	40%	
		Amber	4	40%	
Vintage Multi Blend - MB4		Terracotta	4	33.3%	Fittings Taper Ridge - Amber Standard Rake Verge - Amber Standard
		Amber	3	33.3%	
		Dolomite VT SL	3	33.3%	



FITTINGS AND ACCESSORIES

A full range of fittings and accessories is available in all colours.

Fixing

All tiling and fixing must comply with SANS 062:1991 code of practice. Infraset Building Products cannot be held responsible for excessive breakages due to bad tiling installation and mishandling.

Undertile membrane







Infraset undertile membrane should form part of any roof tile installation in exposed and semi-exposed areas. The undertile membrane is mandatory in all cases and does not serve as waterproofing but merely as a membrane.

Through body colours

Through colour tiles are manufactured with pigmentation embedded in the body of the product (tiles and fittings) and no surface colouring is required. Due to the manufacturing process using natural material such as sand, cement and colouring pigments, discoloration can occur due to efflorescent once exposed to the environment, therefore colour uniformity cannot be guaranteed.

Please note

The colours of the tiles represented in this leaflet may vary slightly from the true colours due to limitations in the photography, reproduction and printing processes. Always choose your tile from the tile samples.

Butt V-Ridge 2.3/lm	Rake Verge 3.2/lm (Left and Right)	Mono Ridge 2.5/lm	Tapered Ridge 2.5/lm	Tapered Hip Starter	V-Hip Starter
					

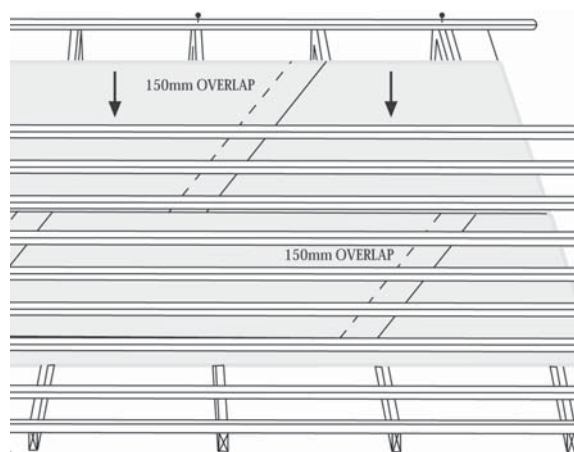
UNDERTILE MEMBRANE – THE ULTIMATE BARRIER

Gusting wind is one of the biggest threats to roofs. The air pressure difference above and below the roof itself, be it metal or tile, caused by wind gusts can create forces that could remove part, or all, of the roof.

Undertile barrier membranes, correctly installed, are the key to ensuring the long-term, superior performance of your roof. Not only does Infraset Undertile Membrane 400 protect the roof but it also acts as an insulator and prevents dust and moisture from entering into the loft area.

Infraset Undertile Membrane 400 is white and is not only a superior insulator but the added light also makes working in the loft easier.

The Agreement Certificate, number 2008/340, has been provided by the manufacturer.



Technical specifications

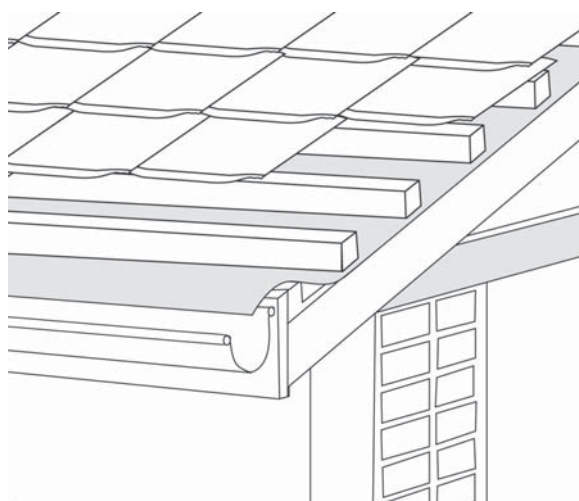
- Two-ply, 400 micron 100gsm high-tensile, tear resistant, non-woven, poly laminate barrier membrane
- Waterproof
- UV stabilised, high heat resistance
- White membrane and carries the product name and headlap indicator lines
- Coverage at 150mm headlap: 40.5m² per roll
- Packaged in 1500mm wide x 30m rolls
- Roll weight is 5.1kg.

Installation guidelines

- For detailed installation guidelines, please contact Infraset Building Products or visit our website www.infraset.com.

Storage and handling

- Store rolls upright on a level surface, preferably under cover
- Rolls stored outside must be protected from longterm UV exposure
- Take care not to tear or damage the fabric during handling.





EFFLORESCENCE – GUIDELINES TO PREVENT SECONDARY EFFLORESCENCE

Efflorescence found on concrete roof tiles can be classified in two categories: Primary and Secondary efflorescence. Primary efflorescence may occur during the curing of the concrete roof tiles, while secondary efflorescence can occur after the tiles have been exposed to atmospheric conditions.

Secondary efflorescence

The secondary efflorescence mechanism is a result of the initial time of exposure of the roof tiles to outdoor conditions. The maximum intensity is reached during the early life of the product and usually begins to clear about two years after the date of initial exposure.

Secondary efflorescence is a worldwide phenomenon which occurs in extremely low rainfall areas; in highly humid climates, or in high rainfall areas.

Efflorescence is purely superficial and does not affect the durability or strength of concrete, the original colour or the functional properties of the tile. However, it detracts from the uniformity of colour and can stand out against other roofs not suffering from efflorescence.

The limitation of secondary efflorescence

Since the exact causes of secondary efflorescence are unknown, only the symptoms can be treated. The following method is to be used in the production process to prevent secondary efflorescence.

Acid treatment

Cured concrete roof tiles are treated with a dilute solution of hydrochloric acid as part of the manufacturing process. The objective of this treatment is to remove any efflorescence chemically.

Conclusion

The term efflorescence covers a number of very different phenomena. Although they all appear as a white haze of calcium carbonate on concrete roof tiles they are the result of very different causes. In the case of secondary efflorescence, a solution has not been achieved, as it is not possible to reproduce it in the laboratory.

Of the greatest importance is the fact that the natural removal of efflorescence does not affect the original colour of the product. In no way does it hinder the product's permeability, colour consistency or continuing strength growth with age. These are all important factors which contribute towards making concrete tiles an exceptionally successful and cost-effective roofing medium.

Efflorescence is purely superficial and aesthetic. It does not affect the functional properties of the tiles or the physical performance of the roof in any way.

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For further information, please contact:

BUILDING PRODUCTS

GAUTENG (Sales Office)

Samrand Avenue West, Centurion, 0157

PO Box 45, The Reeds, 0061

Tel +27 (0)12 652-0000

Fax +27 (0)12 652-0132

KWAZULU-NATAL (Sales Office)

Off Nandi Drive (North), Effingham, 4061

PO Box 40313, Redhill, 4071

Tel +27 (0)31 569-6900

Fax +27 (0)31 569-6903

HEAD OFFICE

Steeledale House

669 – 670 Power Street, Industries West, Germiston

PO Box 751752, Garden View, 2047

Tel +27 (0)11 876-5500

Fax +27 (0)11 872-1713

Email infrasetinfo@infraset.com

www.infraset.com

INFRASET is a specialised operation within the Manufacturing Division of the Aveng Group. It was formed with the specific objective of pooling the precast concrete products of the group to provide customers with a focused range of products and services.

This streamlined presence in the industry allows INFRASET to use its heritage of excellence in the provision of concrete infrastructure products to scale new heights of service and delivery to clients.

BUILDING PRODUCTS

INFRASET produces two roof tile profiles:

- Horizon™ concrete shingle tile
- Sunset™ concrete bold role tile

