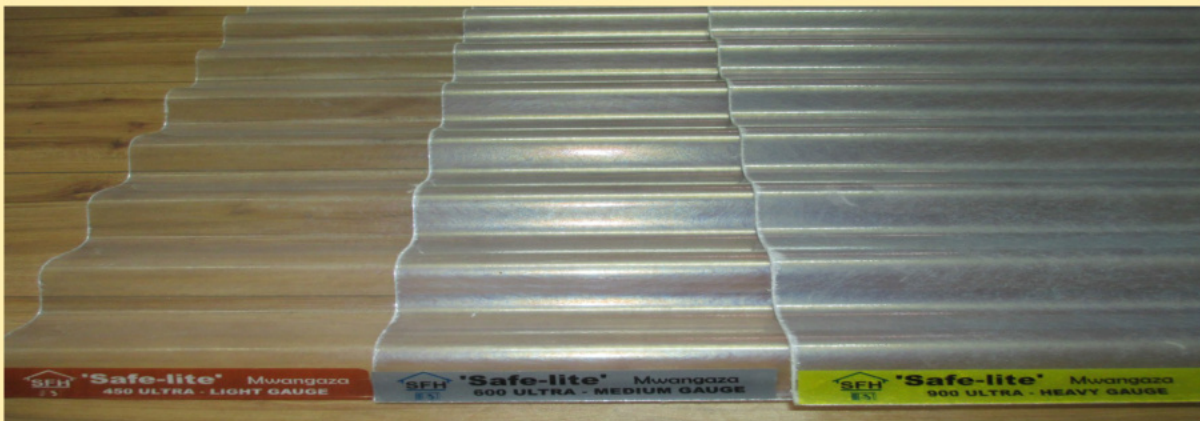
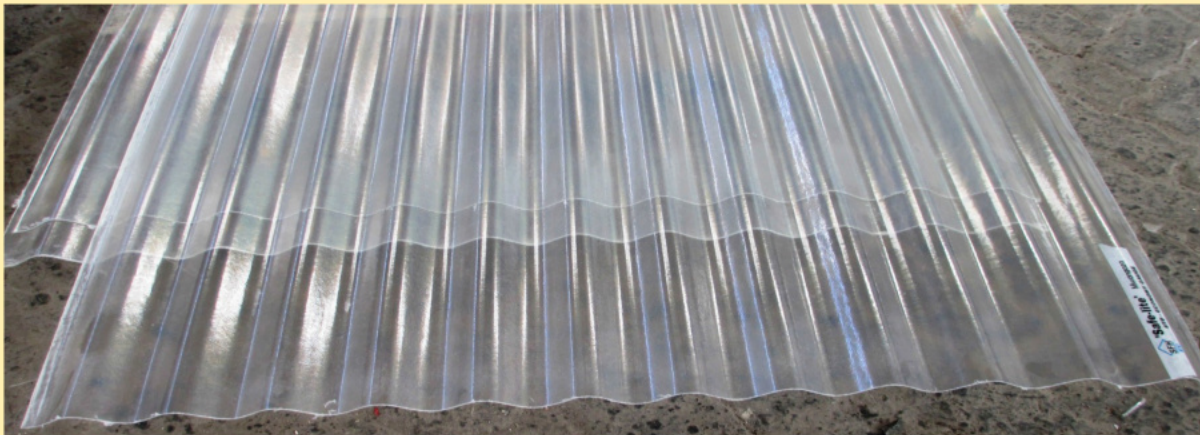




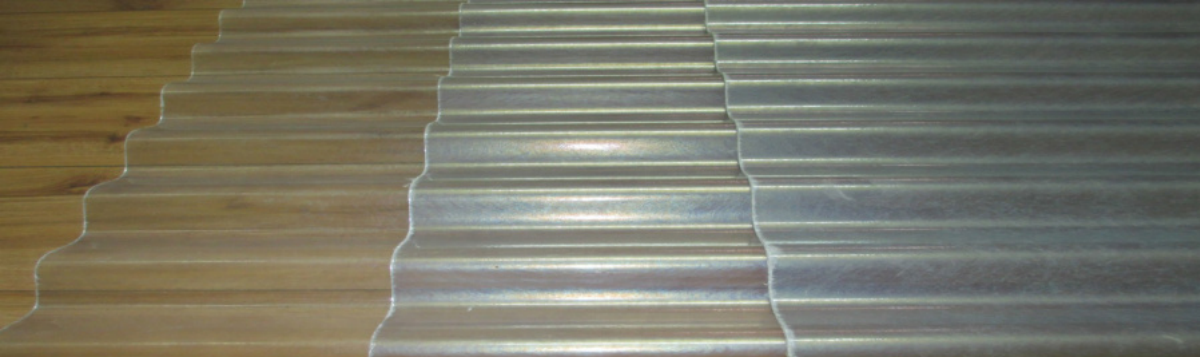
Safe-lite Mwangaza®
GLASS REINFORCED ULTRA VIOLET
TRANSLUCENT ROOFING SHEETS

(made to SANS 1150:2007– South Africa National Standards)



SPECIALISED FIBREGLASS (H) LTD

Brighter days with Safe-lite® !



'Safe-lite' Mwangaza
450 ULTRA - LIGHT GAUGE



'Safe-lite' Mwangaza
600 ULTRA - MEDIUM GAUGE



'Safe-lite' Mwangaza
900 ULTRA - HEAVY GAUGE

DOMESTIC ROOFING

Safe-lite Mwangaza Products are available in various profiles for domestic roofing.



WHY SAFE-LITE MWANGAZA SHEETS?

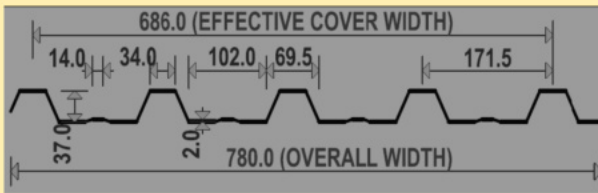
- UV stabilised.
- Provides natural day lighting (translucent sheets).
- Highly resistant to corrosion in the most challenging environments.
- Ideal for chemical manufacturing industries due to its high resistance from exposure to acids and alkaline solvents.
- High strength to weight ratio.
- Gel coated sheets have better colour retention than other conventional sheets.



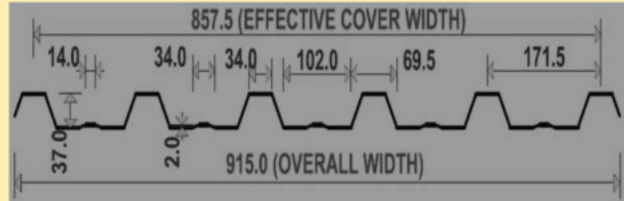
Brighter days with Safe-lite® !

MANUFACTURED PROFILES: (dimensional drawings are guidelines only)

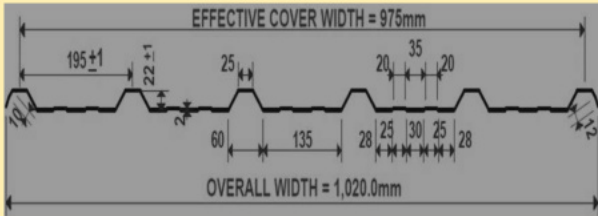
IT4



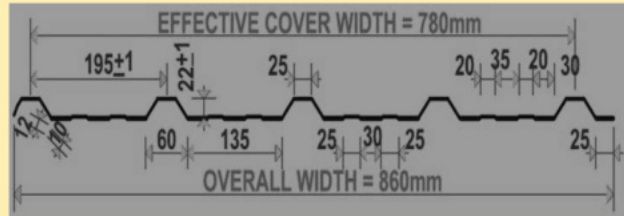
IT5



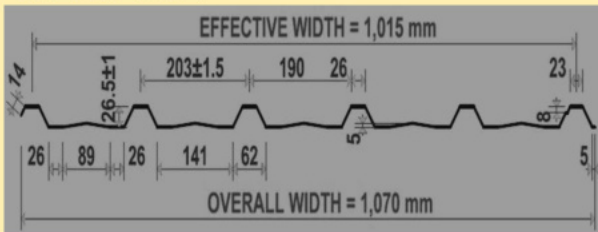
CX 980



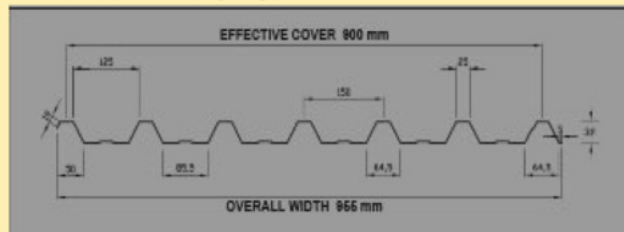
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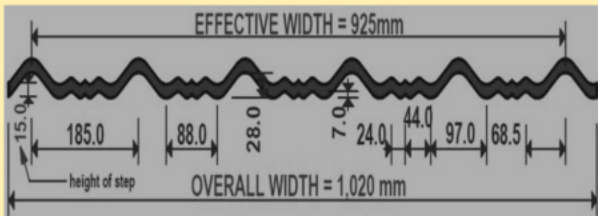
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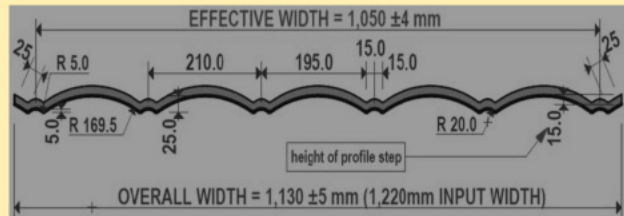
RIGIDAL 5/6/7



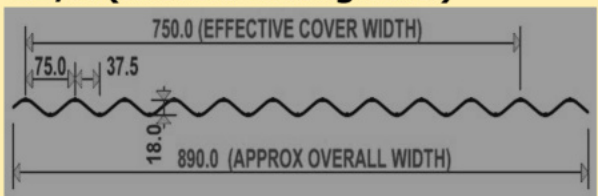
VERSATILE



ORIENTILE



11/3 (normal corrugation)



Other profiles also available in translucent and opaque;

- Super 6 and Super 7 (asbestos like profile)
- Tile profiles
- Flat sheets
- Crimped sheets
- Soaker sheets (cyclone supports)
- Ridges

Brighter days with Safe-lite® !

SAFE-LITE GAUGES / APPROXIMATE THICKNESS

Economy – 300g/ms (0.5 mm) max 4 meters
Light ----- 450g/ms (1.0 mm) max 5 meters
Medium----- 600g/ms (1.5 mm) max 6 meters
Heavy----- 900g/ms (2.0 mm) max 12 meters

* Heavy gauge does not affect light transmission.

Table of Physical Properties of Safe-lite Mwangaza Roof Sheets

Property	Units	SFH300 BUDGET	SFH450 LIGHT	SFH600 MEDIUM	SFH900 HEAVY	SANS1150:2007 (min values)
Flexural Strength	MPa	Flexible	131.3	190.0	206.8	140
Flexural Modulus	MPa	No break	6696	8994	8127	3000
Tensile Strength	MPa	73.3	62.52	63.52	96.30	72
Elongation Break	%	5.48	8.56	13.86	12.34	-
Glass Content	%	27.94	28.17	37.37	35.93	-
Resin: Glass	-	2.58:1	2.55:1	1.68:1	1.78:1	-
Barcol Hardness	BHU	40-50	40-50	40-50	50-60	40

MPa is a measurement of stress, 1MPa = 145 pound force per square inch.

All products tested were manufactured by Specialised Fibreglass Hardware Ltd at their premises.

SANS1150:2007 is a South African National Standard for Glass-reinforced polyester (GRP) laminated sheets (profiled or flat)

1. Flexural Strength – Bending strength of the laminate.

SFH600 and SFH900 meet minimum requirement with regards to the SANS1150:2007.

2. Flexural Modulus – Elasticity of the laminate, lower value means more flexible.

All products meet the minimum requirement with regards to the SANS1150:2007.

3. Tensile Strength – Pull strength of the laminate.

SFH300 and SFH900 meet the minimum requirements with regards to the SANS1150:2007

4. Barcol Hardness - Cure of the laminate and toughness of the product.

All products meet minimum requirements with regards to the SANS1150:2007

5. QUV test

Overall colour changes of all the laminates are similar and most of the significant colour change is normal.

Clarity and light transmission of the sheets is good in all stages of accelerated exposure.

SFH900 meets all minimum requirements of SANS1150:2007 standards.



CUSTOM INSTALLATION OF SAFE-LITE MWANGAZA

- Cut to size by hand using a fine toothed blade, or by use of an abrasive disc.
- Holes should be drilled not punched. Large bonded washers should be used.



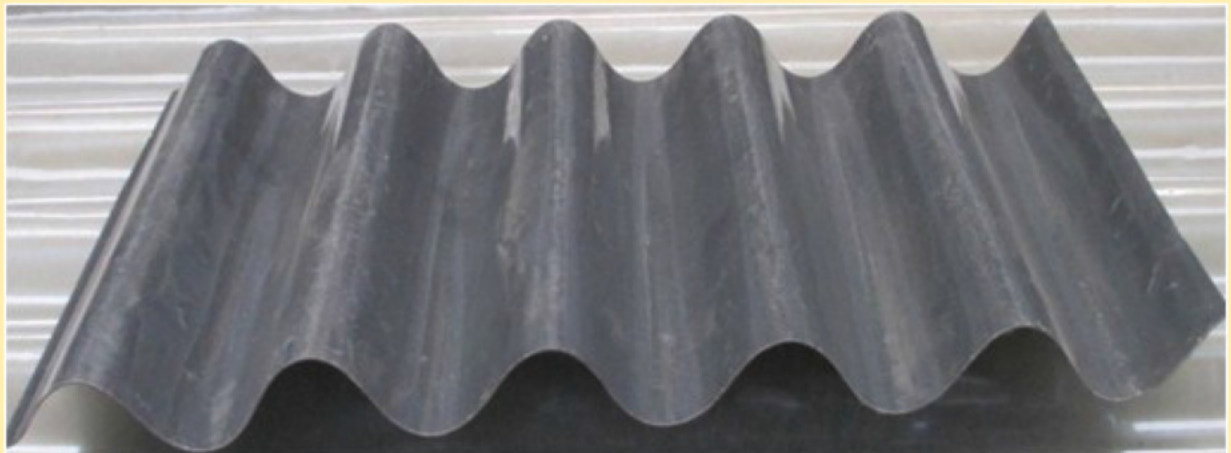
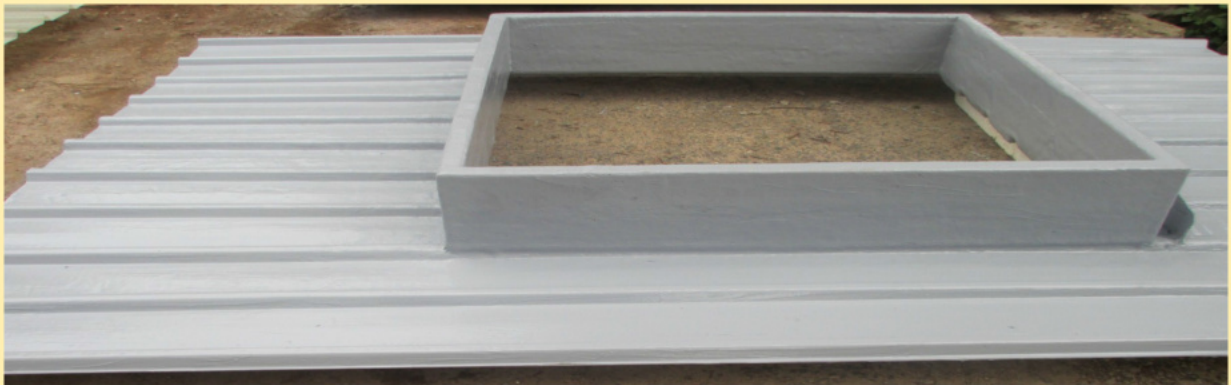
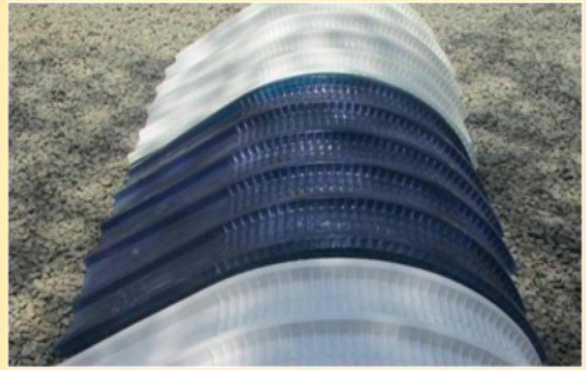
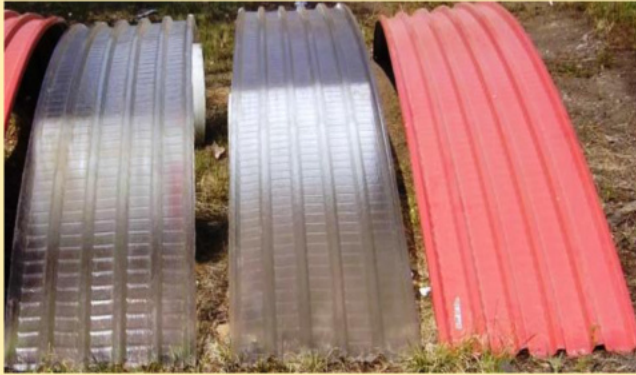
STANDARD COLOURS LIGHT TRANSMISSION

- Translucent clear sheets—80% Light transmission
- Translucent Colored Sheets — Red, Blue, Yellow, Green—50% light transmission
- Solid Sheets—Cool White, Grey, Red, Green, Blue, Yellow - opaque

NB: Special colours also available on request

***Due to continual research and development specifications are subject to change.**

Brighter days with Safe-lite® !



Brighter days with Safe-lite® !



BRIGHTER DAYS WITH SAFE-LITE!