

GRS ARMA-TILE™

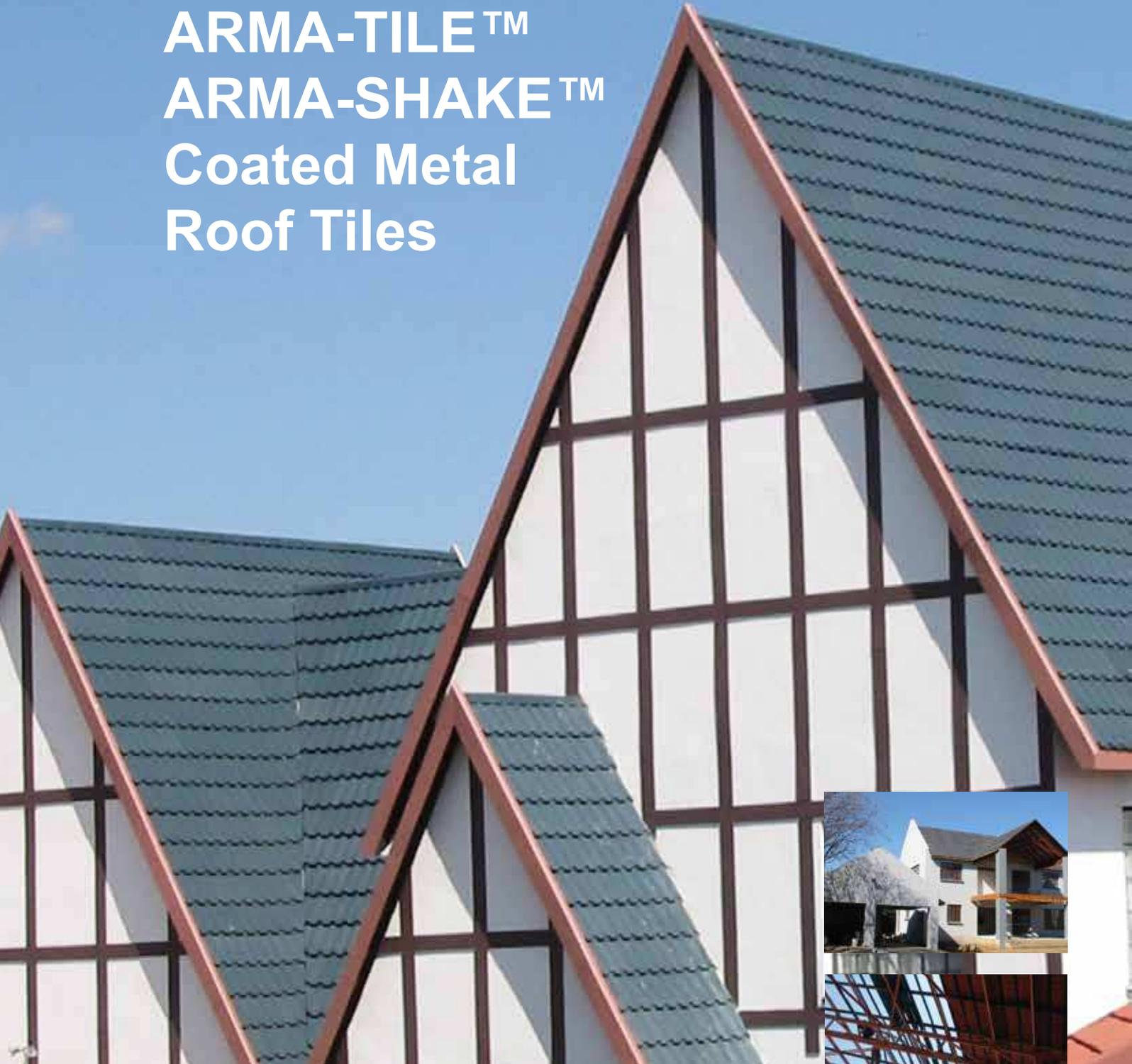
GRS ARMA-SHAKE™

Global Roofing Solutions

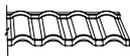
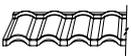
ARMA-TILE™

ARMA-SHAKE™

Coated Metal Roof Tiles



Talk to us, **The Smart Roof People** on +27 11 898 2900 or visit www.globalroofs.co.za or info@globalroofs.co.za



GRS ARMA-TILE™

GRS ARMA-SHAKE™



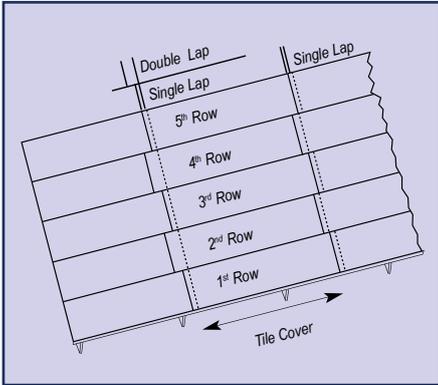
GRS

GLOBAL ROOFING SOLUTIONS

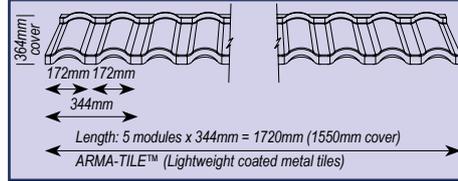
BrownBuilt | HH Robertson

Staggering of Tiles

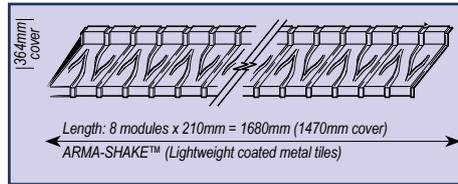
In order to break up the line of joints visible on the roof and to enhance the aesthetic appearance, it is recommended that tiles follow a staggered pattern when installed. The staggered pattern is obtained by laying every second tile, in alternate courses, with a double side lap. The remainder of the tiles are then laid in the conventional way, with a single side lap.



ARMA-TILE™

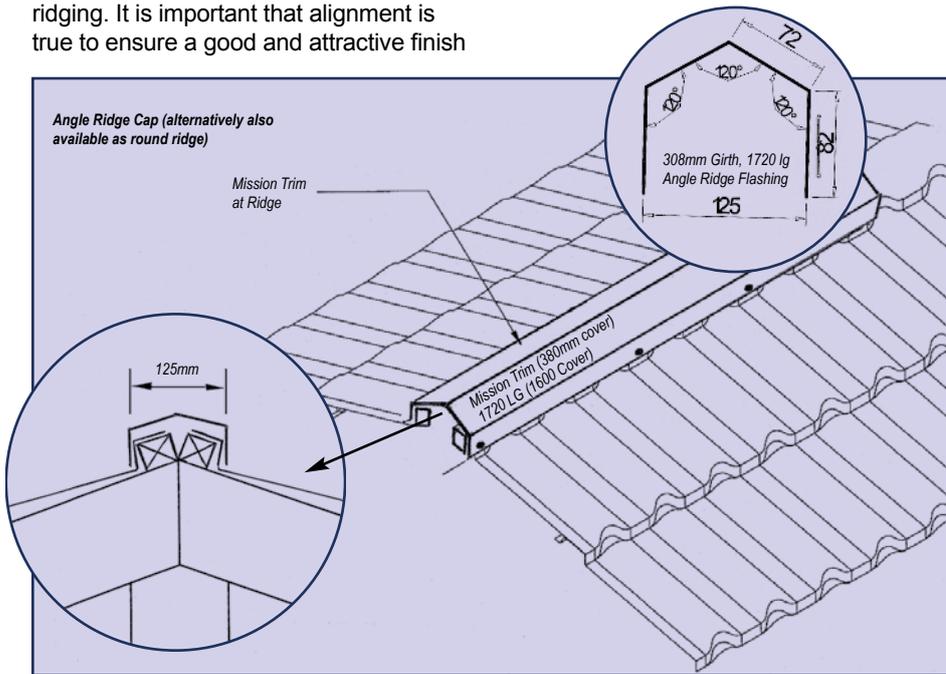


ARMA-SHAKE™

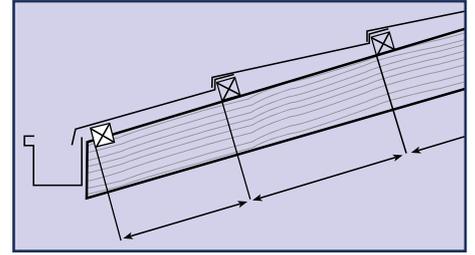


Ridge Cap (Angle Ridge or Mission Trim)

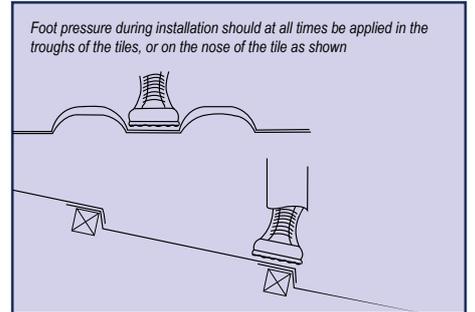
The Mission Trim is used as flashing for ridging. It is important that alignment is true to ensure a good and attractive finish



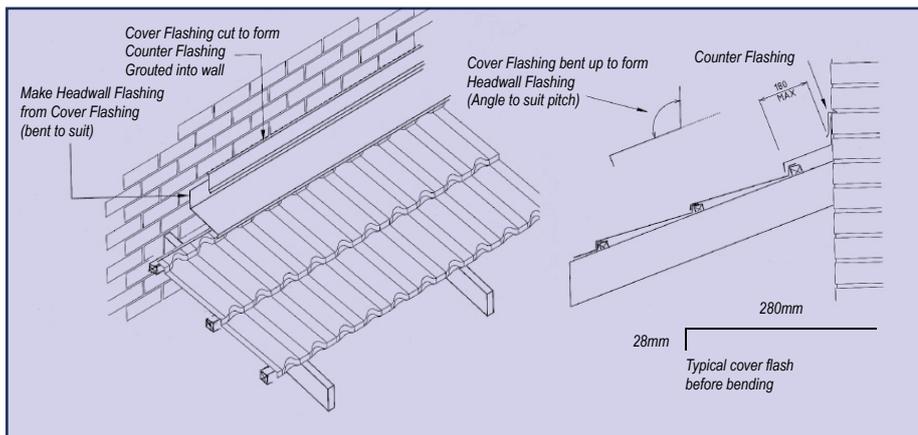
Batten Spacing



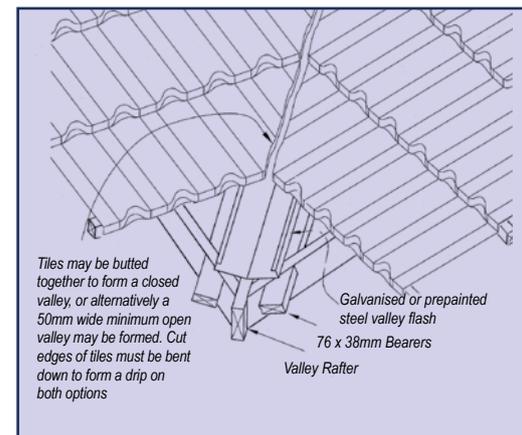
Foot Traffic Precautions



Headwall Flashing

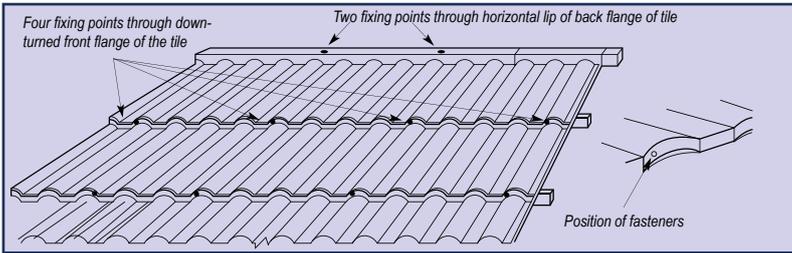


Valley Gutter

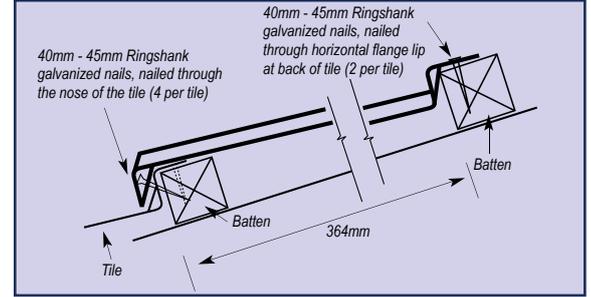


The Fixing Procedure

Each ARMA-TILE™ is fixed at two points on the back of the panel and at four points through the front of the panel.



ARMA-TILE™ / ARMA-SHAKE™



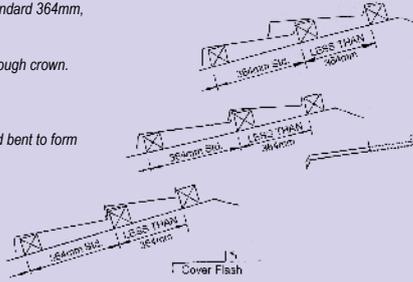
Short Tile at Ridge

Where the last batten spacing at ridge is less than the standard 364mm, one of 3 options may be applied.

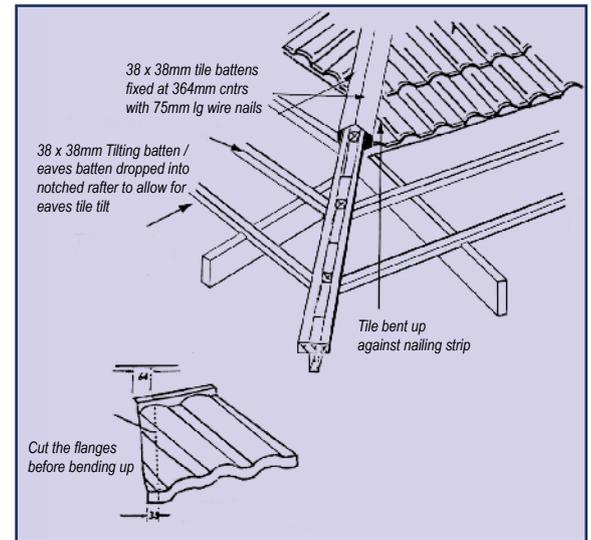
Option 1 - The last tile may be shifted down and fixed through crown.

Option 2 - the last tile may be cut and bent up.

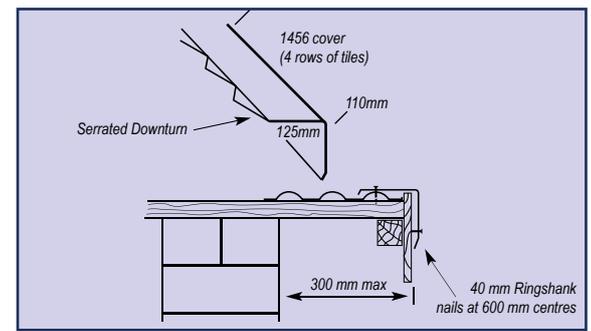
Option 3 - Instead of using a tile, a Cover Flash is cut and bent to form Quarter Tile.



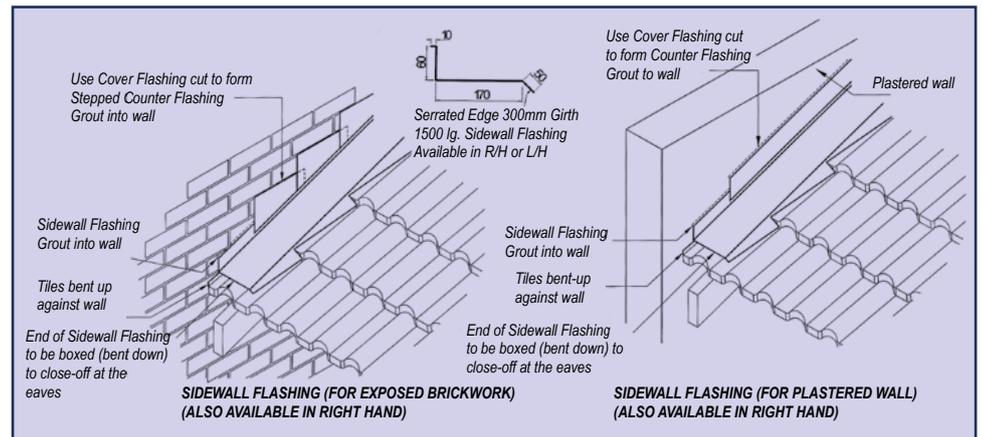
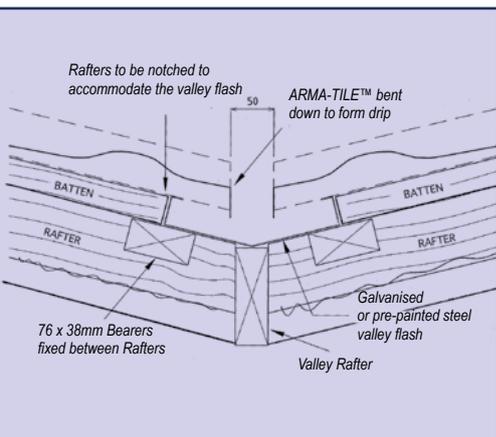
Angle Ridge as Hip Cap



Barge Board Flashing



Sidewall Flashing





Black



Blue



Charcoal



Terracotta



Burgundy



Green



Bronze

The Standard Colour Range

- * Note colours may vary from that shown below, due to printer ink variation
- * Non Standard colours may be requested, subject to minimum orders

Textured Coating:

A 100% pure acrylic coating is applied to both tiles and accessories during the manufacturing process. Small silica granules are imbedded into the top coating, which give ARMA-TILE™/ARMA-SHAKE™ its textured appearance. Once the top coat is applied, the tiles and accessories are processed through the drying chamber for curing purposes. This acrylic coating can withstand high ultra-violet levels and the most adverse weather conditions including pelting rain and hailstorms. The elasticity of the coating furthermore prevents chipping and cracking in these adverse weather conditions. It is important to note that during every stage of the manufacturing process constant laboratory tests are being carried out to ensure that both local and international quality is achieved and maintained as prescribed by the SABS 1022 standards system.

Profile:

The tile profile is pressed in standard lengths with a granular coating applied to one side.

Two variations are offered that allow flexibility in design:

- ARMA-TILE™ (1550 x 364 mm cover) in Acrylic Grit finish.
- ARMA-SHAKE™ (1470 x 364 mm cover) in Acrylic Grit finish.

Substrate:

The tiles are produced from a Z200 spelter galvanised steel. Alternatively, the tiles may be manufactured from steel with a galvalume finish.

Mass and Quantity:

ARMA-TILE™ - 4.35 kg per tile. 1.77 tiles required per sq.m.
ARMA-SHAKE™ - 4.3 kg per tile. 1.87 tiles required per sq.m.
For Bills of Quantities, visit www.armatile.co.za

Quality assurance:

GRS Boksburg (Brownbuilt), is an ISO 9001: 2008 certified operation. Quality Management Systems are regularly assessed to ensure continuous compliance. This ensures that ArmaTile™ products are of the highest quality at all times.

The Timber Requirements

Timber specifications and calculations are based on SABS graded soft woods. Battens must be spaced according to the specifications, as set out below. Listed below are the batten sizes for the relevant maximum truss centres:

Truss Centres:

ARMA-TILE™ & ARMA-SHAKE™
1.1 m centres - Use 38 x 38 mm battens
1.2 m centres - Use 38 x 50 mm battens
1.3 m centres - Use 50 x 50 mm battens

Batten Spacing:

Roof Area: 364 mm centres
Eaves: 314 mm centres (variable) to allow for overhang

Truss Configuration:

Consult a reputable Truss Manufacturer for optimum truss design and spacing the tiles are normally used with standard 114 x 38 mm timber trusses in conjunction with 38 x 38 mm battens. To save cutting and eliminate wastage of tiles, rafter and batten lengths should preferably be designed to suit an exact number of full tile courses.

The Tiling Procedure

NOTE: Before starting to lay tiles, ensure that the entire roof support structure is correctly constructed and aligned. The tiles must be laid in strict accordance with the manufacturer's specification. ARMA-TILE™ and ARMA-SHAKE™ can be side-lapped either right over left or left over right.

The following is recommended:

1. Laps must face away from valleys or rainwater pipes discharging onto the roof.
2. Where possible, tiles are to be laid with laps facing away from normal line of sight. Tiling should commence from the bottom of the roof.

Roof Pitch:

ARMA-TILE™ and ARMA-SHAKE™ should ideally be used on roof pitches of 15 degrees and higher, not requiring an underlay. Roofs with pitches between 12 & 15° need to be installed with an SABS approved underlay.

Staggering of Tiles:

To break up the line of joints visible on the roof and enhance the aesthetic appearance, it is recommended that tiles follow a staggered pattern when installed. (See centerfold)

Site Handling:

Tile panels must be supported clear of the ground and kept under cover until installed.

Cleaning up/Touching up:

The completed roof must be handed over free of any debris, with all uncovered/cut edges touched up with the same acrylic paint as that on the tiles. Areas to specifically look out for when touching-up are:

1. All nail heads
2. All cut edges
3. All flashing detail: chimney, hips, head wall, valleys, side walls & gable ends

Equipment/Tools:

The following is a list of tools that completes the roofer's tool kit: Claw and Ball Hammer, Nail Pouch, Builders Line, Measuring Tape, Pop Rivet Gun, Metal Shears, Tin Snips, Chalk Line, Saw, Hand Benders, Angle Grinder. Tin Snips: Ideal for cutting shorter lengths of tiles required at hips, valleys and detailed flashings.

PLEASE NOTE: Use Angle Grinder only if burrs and swarf will be cleaned and edges touched-up.

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