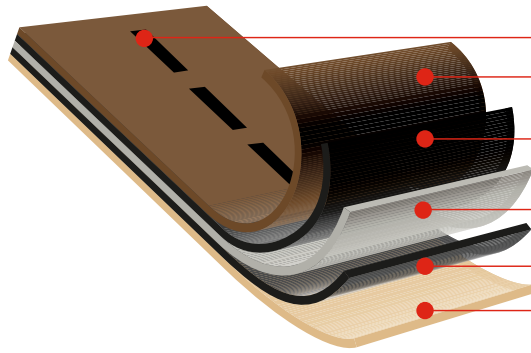


APP Modified Bitumen Shingles



- Self adhesive tabs
- Ceramic Slate granules
- Distilled bitumen modified with atactic polypropylene (APP)
- Double reinforcement non-woven polyester and glass fibre, or single reinforcement with high weight glass fibre**
- Distilled bitumen modified with atactic polypropylene (APP)
- Anti-adherent sand

INNOVATION

Tegola Italiana Roofing Shingles are the first shingles in the World manufactured using a **double reinforcement non-woven polyester plus glass fibre and APP modified bitumen**, therefore far superior to competing types offering single layer glass reinforcement only and manufactured with oxidised bitumen.

WIDE RANGE OF STYLES

<p>CLASSIC</p>			<p>MAJOR</p>
<p>CASTOR</p>			<p>ELEGANCE</p>
<p>GEMMA</p>			<p>ONDA</p>

WIDE RANGE OF COLOURS

<p>A48 Red T 100</p>	<p>B48 Dark red</p>	<p>C48 Black</p>	<p>D48 Slate</p>	<p>E48 Cathedral grey</p>	<p>F48 Light brown</p>	<p>G48 Brown</p>
<p>H48 Light green</p>	<p>I48 Dark green</p>	<p>M48 Light grey</p>	<p>P48 Brindle red</p>	<p>Q48 Dark brown</p>	<p>U48 Dark blue</p>	<p>N48 Light blue</p>

Because of the printing process the colours must be considered only an indication.

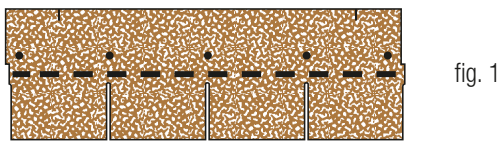


fig. 1

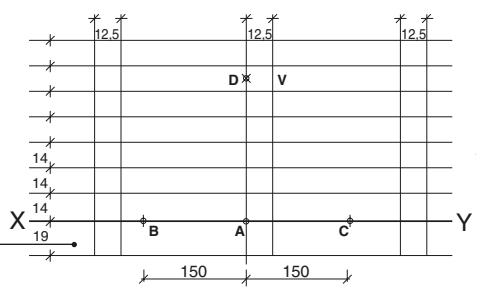


fig. 2

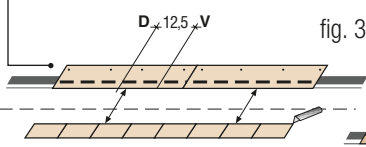


fig. 3

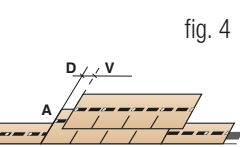


fig. 4

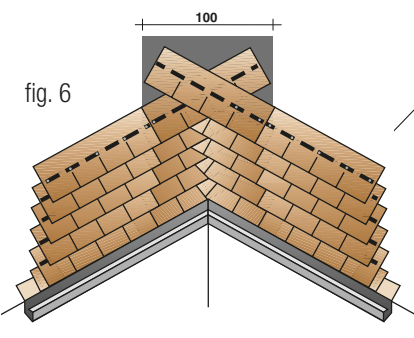


fig. 6

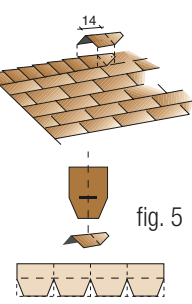


fig. 5

CLASSIC

INSTALLATION INSTRUCTIONS

The simple and correct installation of CLASSIC shingles is entirely dependent on the roof decking being smooth, clean, dry and seasoned. The decking can therefore be of wood (tongue and groove planks, plywood, cementboard, etc.) or a suitable support on top of the substructure (concrete, steel or similar).

Marking the roof (fig. 2)

1. Mark a line X Y (parallel to the gutter at a distance of 19 cm from the eaves);
2. Determine on this line point A;
3. Either side of A, mark points B and C at a distance of 100 - 150 cm;
4. Starting from points B and C with opening not less than 200 cm, using a chalk line mark the point D;
5. Join A and D, thus marking the roof centre line;
6. Snap another chalk line parallel to A D at a distance of 12,5 cm (V);
7. Starting from the line X Y mark other horizontal lines at a distance of 14 cm, going up to the ridge.

Installation (fig. 3/4)

1. Lay down one line of bitumen mastic near to the eaves (as indicated in fig. 3);
 2. The starting course is obtained by trimming off the exposed area (14 cm), and nailing the remaining shingles staggered of 12,5 cm from line A D (as indicated in fig. 3);
 3. The first course is commenced following the line A D (fig. 3/4);
 4. The second course is staggered of 12,5 cm from A D;
- This pattern is carried on up the roof until is completely covered.

Fixing

Galvanised, large-head 16-19-25 mm roofing nails must be used to fix the shingles.

The length of the nails depends on the thickness and type of decking. Nails can have smooth or ring shanks. You have to use 5 nails per shingle (as indicated in fig. 1). The nails must however be positioned in such manner as to nail the shingle underneath as well.

N.B.: for pitches in excess of 180% (85 degrees), 8 nails must be used. CLASSIC shingles are supplied with factory applied tabs of heat sensitive adhesive, which soften with heat and bond the courses together, so preventing wind up-lift. Remove the protective film during application. The adhesive tabs may be visible between the rows after shingles application, this is not a defect.

Pitch

Minimum pitch for nailing is of 30% (16,7 degrees). For low-pitched roofs (less than 30%), long slopes (more than 7 metres) or in exposed locations, an underlay APP membrane has to be installed on the substrate which therefore requires that shingles application be made by the torch-on method only.

Ridges (fig. 5)

At the apex of the roof the shingles which protrude are bent over the ridge and nailed down.

Ridge tiles are obtained by cutting the CLASSIC shingle into 4 pieces (as indicated in fig. 5).

The pieces thus obtained are bent and placed on the ridge at a distance of 14 cm. The ridge piece is held in place with 2 nails each. The nails are placed in the area that will be covered by the subsequent shingle (fig. 5).

Prefabricated ridge shingles, cm 33x33 sized, are available in the various colours.

Valleys (fig. 6)

The valley is protected by applying a 100 cm wide polyester reinforced membrane. The CLASSIC shingles are interwoven from each side of the valley, thus obtaining a "zipper" effect.

Care must be taken that the shingle extends at least 30 cm from the centre lines of the valley.

In the area protected by the underlayer the shingles must be torch-on. No nails must be placed within 30 cm from the centre line of the valley (fig. 6).

Roof ventilation and accessories

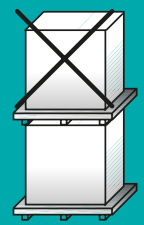
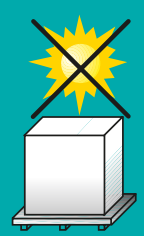
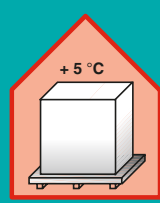
A permanent ventilation of the roof is required to avoid the risk of condensation. A range of air vents is available according to specific needs. Air vents should be placed every 20/25 m² of covered area, according to the roof pitch.

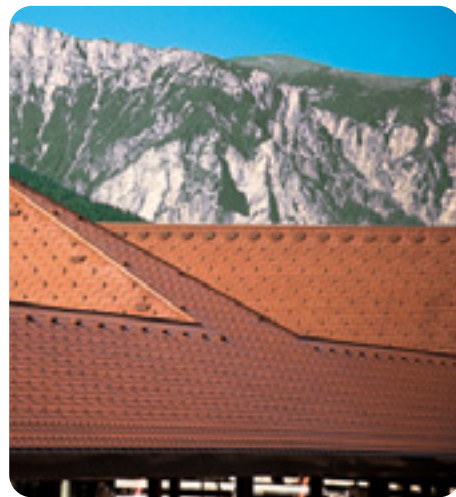
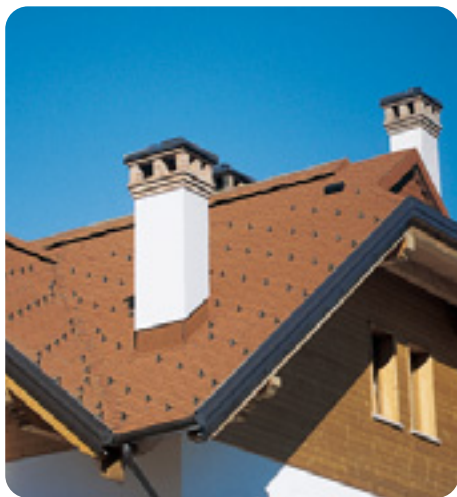
Disclaimer/Note

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	Shingle size	Weight per covered sqm	sqm per pack	Shingles per pack	Packs per pallet	sqm per pallet
CLASSIC	100 x 33 cm	10.5 Kg	2.52	18	45	113.4
CASTOR	100 x 33 cm	11 Kg	2.52	18	45	113.4
GEMMA	100 x 33 cm	10.5 Kg	2.52	18	45	113.4
MAJOR	100 x 33 cm	16 Kg	1.5	12	45	67.5
ELEGANCE	100 x 32 cm	9 Kg	2.52	18	45	113.4
ONDA	100 x 32 cm	9 Kg	2.52	18	45	113.4

Storage & Handling





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