

We build your future...



GROUP INTERNATIONAL

PERFECTO LTD.

www.perfecto-bg.com

ROOFING Systems

***PERFECT@** tiles - your roofing secure solution!*

Finish your house with the perfect roofing
- your safety tiled by **PERFECTO!**



CATALOGUE
2014

Solidity • Durability • Security



PERFECT@TILES

Manufacturing & sales of polymer-sand tiles

Since the inception of the large-scale cement industry the tiles started to be manufactured not only from clay but from a cement solution as well.

In the middle of the 90-es the cement as a fitting material in the polymer-sand tiles were changed with polythene. Thus a new polymer-sand tile came into existence – an innovative and contemporary material, exceeding by its own features a large number of roofing materials and answering the technological and ecological requirements of the 21-st century.

Advantages of the polymer-sand tiles

- Longevity of tile at least 50 years.
- Weight of one square meter of polymer-sand tile is 2-3 times less than that of similar tiles from ceramics or cement-sand composition.
- Polymer tiles roof is easy to clean and resistant to water, alkalis, acids and other corrosive environments.
- Environmental cleanliness - lack of harmful impurities.
- Good toleration to temperature fluctuations. Low thermal conductivity material—provides the ideal underroof space temperature mode, even without use of additional insulation materials.
- High impact resistance, convenient for transport and stowage.
- Good sound insulation.
- Thanks to the use of polymer-based dye "Bayferrox" of "Bayer" company (Germany) it does not fade, decay or mold.
- Natural tile appearance.
- Does not cover with frost.
- No rust.
- Not a conductor and does not attract electricity.
- Lightning protection is not mandatory.
- Does not interfere with of radio wave , television, mobile phone reception and transmission.
- Easy multi-purpose installation and assembly process.

To Order Call: +359 878 94 8119

We offer you a new type of roofing material – polymer-sand tile, which holds much promise as a roofing material and has shown itself on industrial and civic buildings. Polymer-sand tile is produced according to state-of-the-art technology of ultrahigh-reinforced thermoplastics and sand by pressing method.

PERFECTO supplies polymer-sand tiles and accessories in a wide variety of shapes, surface finishes and colors. Our innovative material high-quality tiles offer outstanding aesthetics, durability and safety. They come in single or multiple colors, and can be smooth or textured, with matt or gloss surfaces. We offer tiles in a wide range of sizes to meet your requirements – from industrial-scale modern buildings to tiles for renovation as well as restoration projects and geographically styled new houses.

One person without roofer skills can make installation of polymer-sand tile. Having comparatively light weight, 1 m² doesn't exceed 20 kg, our tile doesn't require reinforcement of roof frame and metal covering. Roof timbers are used 5 X 150 mm with spacing 800 mm, lathing – 50 X 40 mm with spacing 345 mm. This frame of roof is analogue to metal tile one. It is not necessary to buy self-tapping screws with seals since tile is not corrodible. Galvanized self-tapping screws are used and at the same time polymer-sand tile doesn't break during tightening so it is possible to use electric tool. During installation of odd-shaped roofing waste of tile make up the minimum percent as tile can be cut with hacksaw or angle grinder and at the same time it doesn't crumble and break.



PERFECT@TILES

Our Roofing Products

Tiles

ROOF TILE "WAVE"

9PCS./SQ.M.



ROOF TILE "CLASSIC"

9.5PCS./SQ.M.



RIDGE-TILE "CLASSIC"



OUTSIDE/END ROOF TILE "WIND"-LEFT



RIDGE-TILE "ROYAL"



OUTSIDE/END ROOF TILE "WIND"-RIGHT



OUTSIDE/END RIDGE-TILE

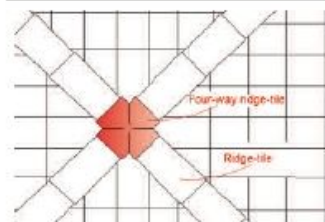
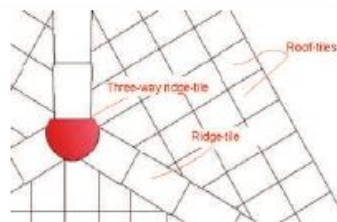
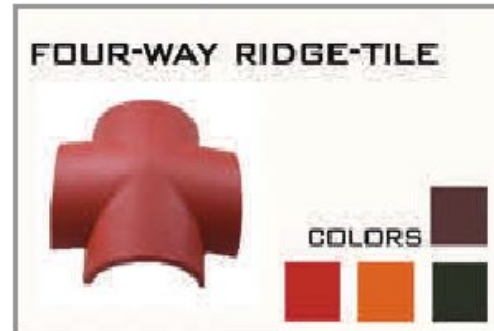
"ROYAL"



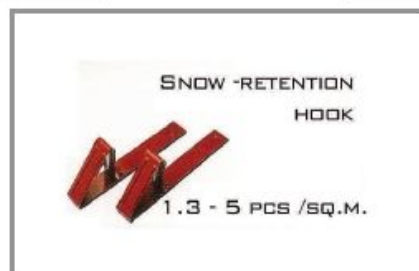
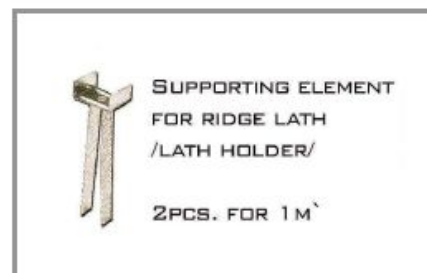
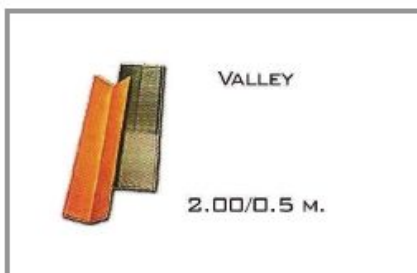
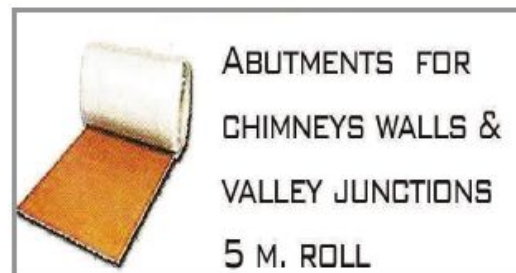
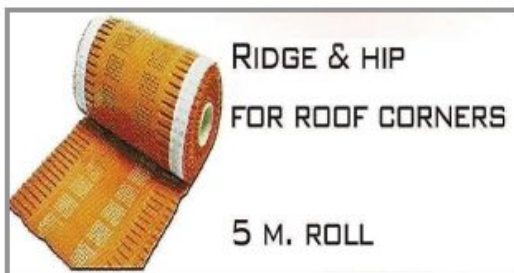
ROOF TILE "CASTLE"



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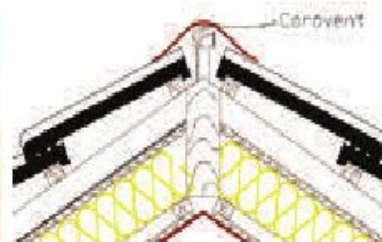


Roofing accessories



Explanatory note

Ridge & hip roof corners



A ventilating tape used under ridges and hips of most common roof coverings (including pan tile sheeting) made of aluminum and high quality PP fabric. It provides excellent ventilation of inner roofing system and prevents dust and water (snow) from getting under the roof covering. The butyl layer on

Abutments for chimneys, walls & valley junctions



A self-adhesive aluminum (lead-option)-based flashing tape with butyl adhesive layer designed to seal any abutments with chimneys, roof windows (skylights) and jutties.

Snow retention hook



A snow guard support made of flat iron appropriately shaped to allow for fixing the ladder of snow guard and to resist the snow load. A universal snow guard support for roofs covered with flat metal sheets, shingles, etc. Possibility of fixing it on a vertical seam in the case of flat metal sheets.

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VALLEY

Tape for valley consolidation

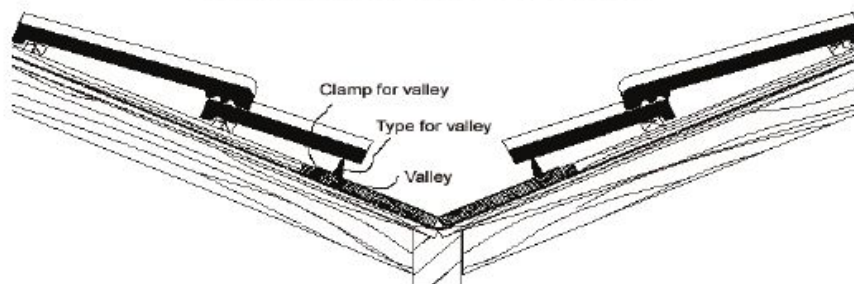


Clamp for valley embedding



A transversely corrugated roof valley flashing designed to cover roof valleys (places where two roof slopes meet). Thanks to the transverse corrugation, which enhances the flashing rigidity, there is no need to apply a fully-boarded underlay.

VALLEY ASSEMBLY DIAGRAM



Grille



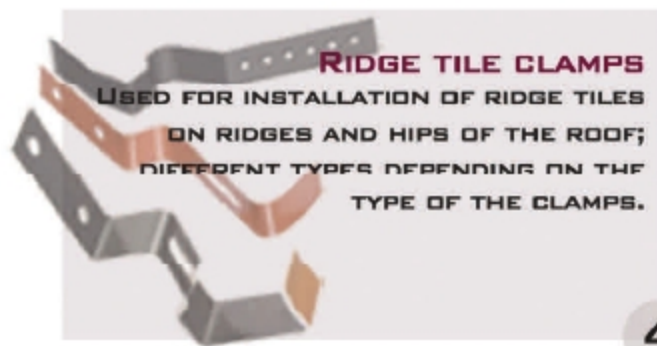
Multy-purpose grille



An eaves closing comb protecting the eaves area and underside roof space against access of birds and rodents as well as blown-in leaves and twigs. It protects thermal insulation against mechanical damage, at the same time providing unobstructing air circulation in the ventilation roof space.

PERFECT@TILES

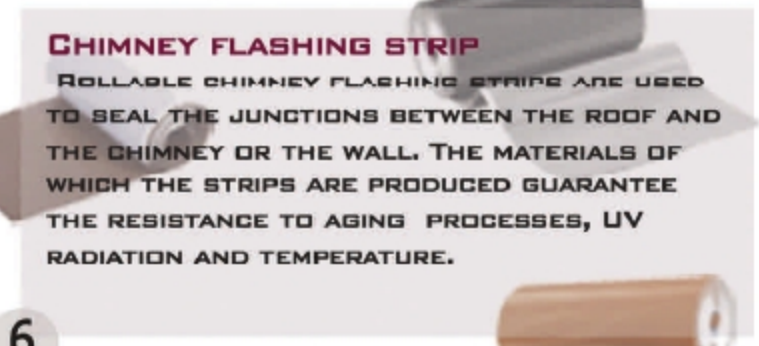
RIDGE TILE CLAMPS
 USED FOR INSTALLATION OF RIDGE TILES ON RIDGES AND HIPS OF THE ROOF; DIFFERENT TYPES DEPENDING ON THE TYPE OF THE CLAMPS.



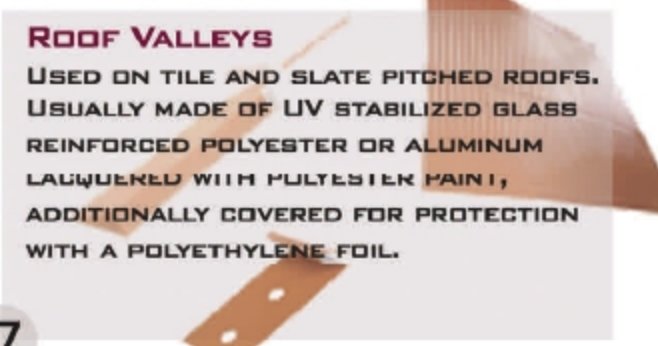
VENTILATION ROOF TILES
 INCLUDED: UNIVERSAL OR SPECIAL VENTILATION CHIMNEYS AND DIFFERENT TYPES OF VENTILATION TILES. ENSURES DURABLE AND AESTHETIC WAY OF LEADING VENTILATION DUCTS OR AERIALS THROUGH THE ROOF SURFACE OR WHEN USED TOGETHER WITH A RAIN TILE IT CAN SERVE AS AN ATTIC ILLUMINATOR.



CHIMNEY FLASHING STRIP
 ROLLABLE CHIMNEY FLASHING STRIPS ARE USED TO SEAL THE JUNCTIONS BETWEEN THE ROOF AND THE CHIMNEY OR THE WALL. THE MATERIALS OF WHICH THE STRIPS ARE PRODUCED GUARANTEE THE RESISTANCE TO AGING PROCESSES, UV RADIATION AND TEMPERATURE.



ROOF VALLEYS
 USED ON TILE AND SLATE PITCHED ROOFS. USUALLY MADE OF UV STABILIZED GLASS REINFORCED POLYESTER OR ALUMINUM LACQUERED WITH POLYESTER PAINT, ADDITIONALLY COVERED FOR PROTECTION WITH A POLYETHYLENE FOIL.



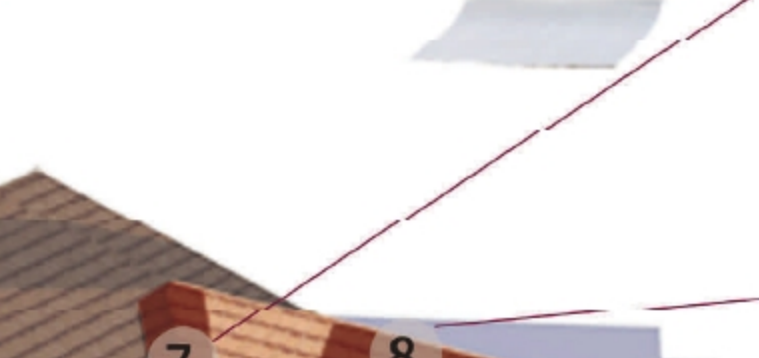
ROOF WALKWAYS
 ENSURES SAFETY WHILE WALKING AND WORKING ON THE ROOF. DIFFERENT TOOLS AND EQUIPMENT TO SUPPORT WORK ON THE ROOF.



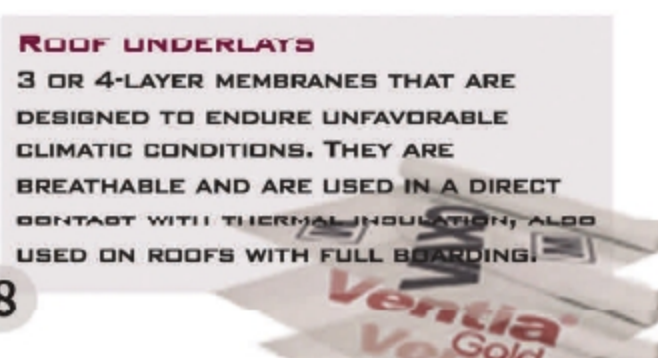
RIDGE & HIP VENT SYSTEM
 THE ROLLABLE RIDGE VENT ENSURES PROTECTION AND VENTILATION OF RIDGES AND HIPS. USUALLY IT IS PRODUCED BY POLYPROPYLENE MEMBRANE WITH A MESH FABRIC OR THICK CORRUGATED ALUMINUM LACQUERED WITH POLYESTER PAINT AND A TECHNICAL FABRIC, GLUED AND SEWN TOGETHER WITH THREADS RESISTANT TO ENVIRONMENTAL FACTORS WITH BUTYL GLUE APPLIED TO THE EDGES OF THE REVERSE SIDE, OR MADE OF COPPER, LEAD, ALUMINUM WITH AN ADHESIVE LAYER OF BUTYL. THE TEMPERATURE RESISTANCE IS IN A WIDE RANGE DEPENDING ON IT'S MATERIAL, USUALLY IN THE RANGE OF -40 TO +90 DEGR. C.



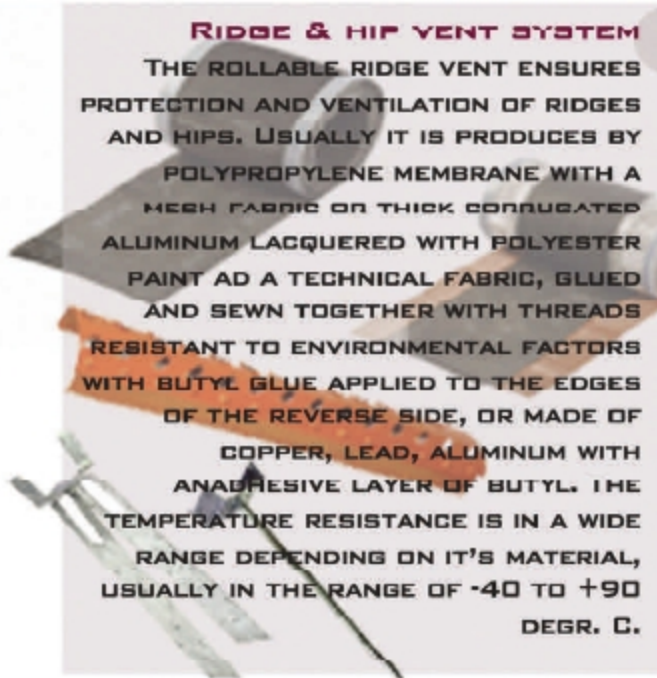
ROOF UNDERLAYS
 3 OR 4-LAYER MEMBRANES THAT ARE DESIGNED TO ENDURE UNFAVORABLE CLIMATIC CONDITIONS. THEY ARE BREATHABLE AND ARE USED IN A DIRECT CONTACT WITH THERMAL INSULATION, ALSO USED ON ROOFS WITH FULL BOARDING.



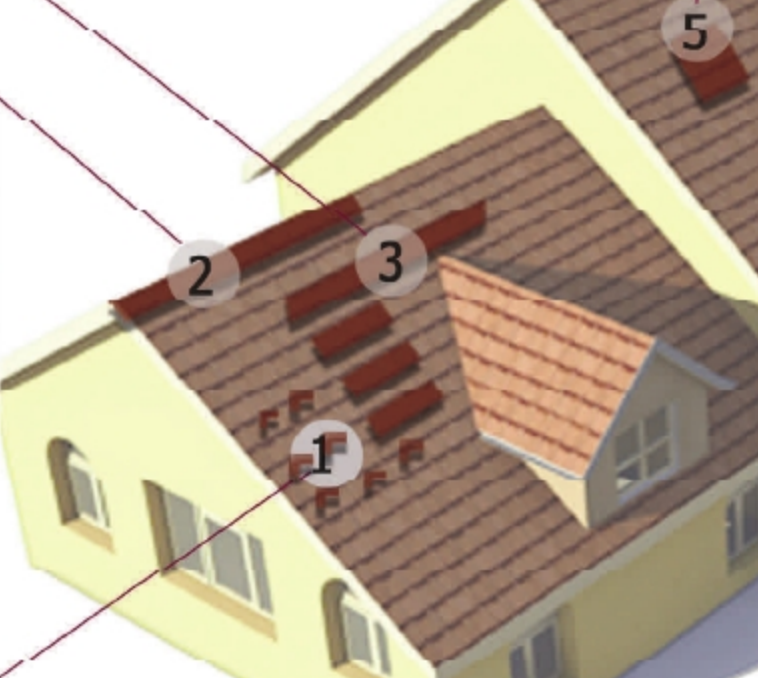
ROOF TILE CLIPS
 USED FOR FASTENING CUT TILES IN ROOF VALLEYS AND ON HIPS. THE USE OF THE ROOF TILE CLIPS IMPROVES THE SNOW AND WIND AND SNOW RESISTANCE OF THE ROOF TILES. THERE ARE DIFFERENT TYPES OF CLIPS FOR THE SPECIFIC TYPES OF ROOF TILES.



SNOW PROTECTION
 SNOW GUARDS, FENCES, BARRIERS, CONNECTORS, FENCE GRIPS, ETC. SNOW GUARDS PREVENT SNOW FROM FALLING DOWN PITCHED ROOFS.



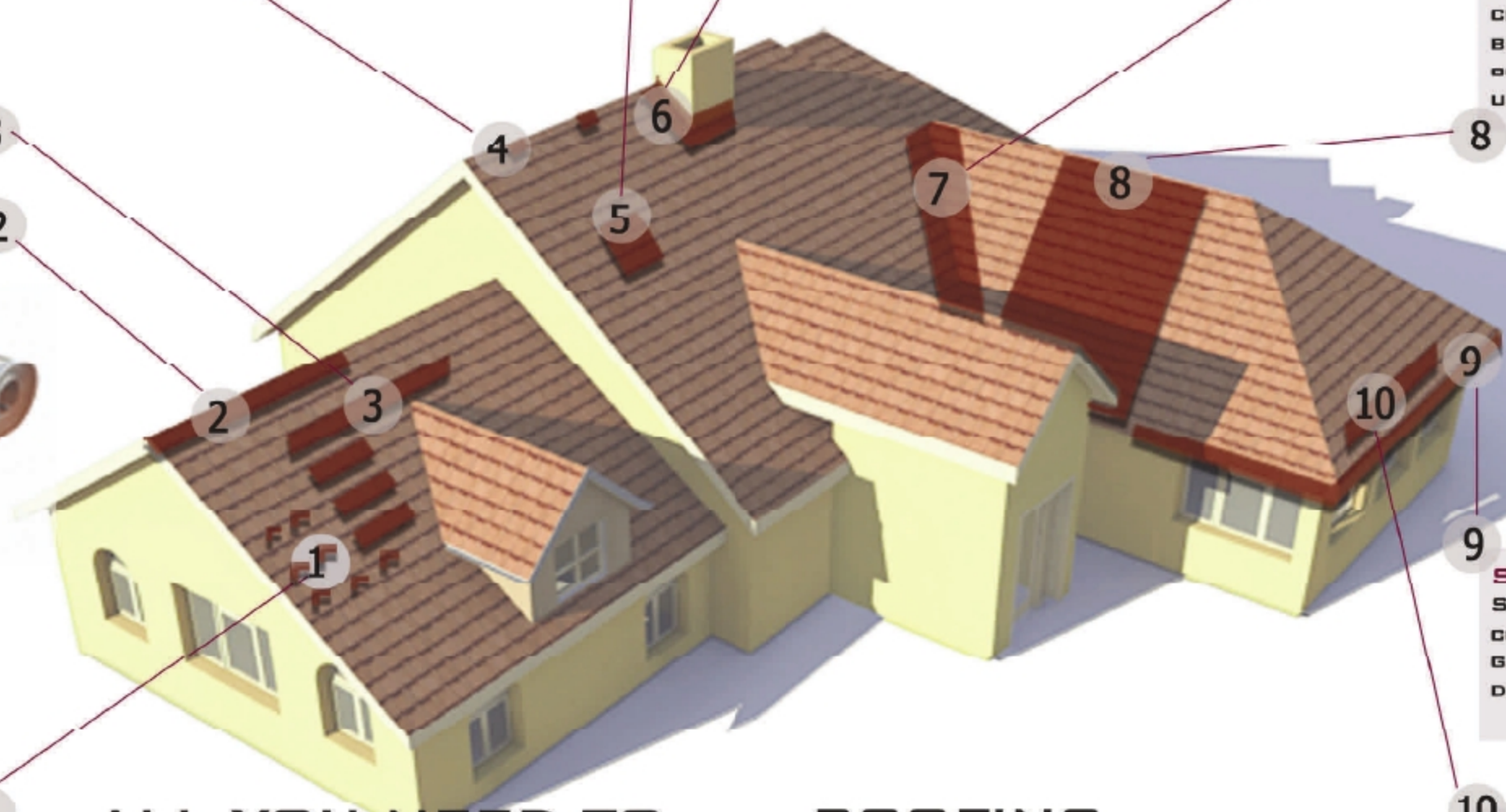
ROOF EAVES
 THE EAVES PRODUCTS ENSURE BETTER CIRCULATION OF THE AIR AND PROTECTION AGAINST BIRDS, RODENTS AND INSECTS.



VENTILATION ROOF TILES
 INCLUDED: UNIVERSAL OR SPECIAL VENTILATION CHIMNEYS AND DIFFERENT TYPES OF VENTILATION TILES. ENSURES DURABLE AND AESTHETIC WAY OF LEADING VENTILATION DUCTS OR AERIALS THROUGH THE ROOF SURFACE OR WHEN USED TOGETHER WITH A RAIN TILE IT CAN SERVE AS AN ATTIC ILLUMINATOR.



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ALL YOU NEED TO BUILD YOUR PERFECT ROOF

ROOFING ACCESSORIES

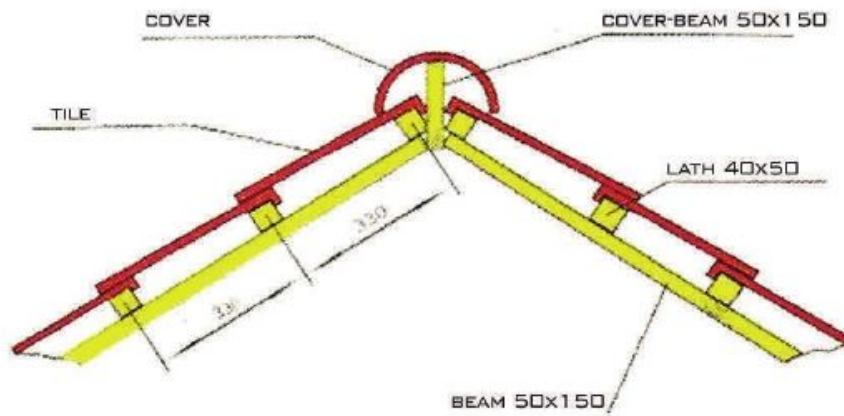
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PERFECT@TILES

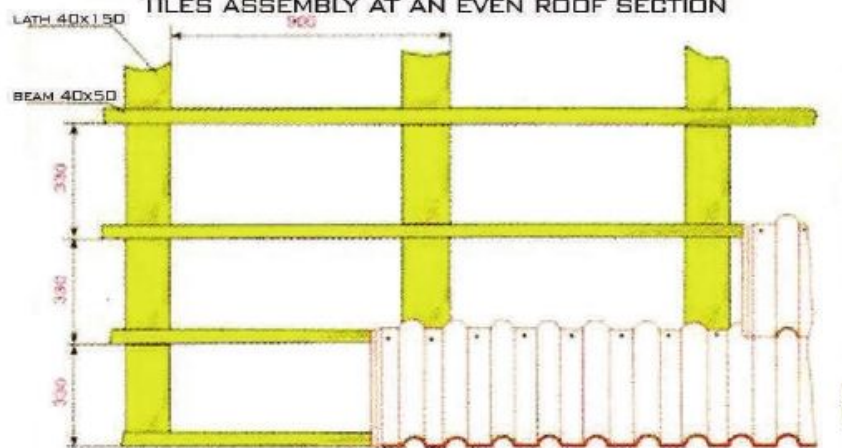
Installation & assembly

TILES INSTALLATION SCHEME

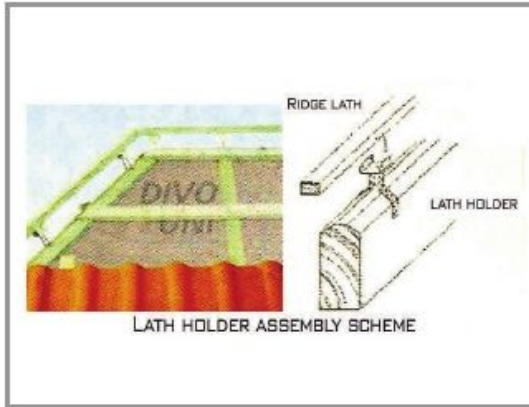
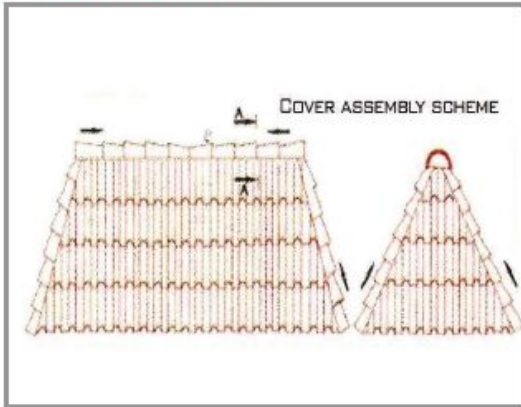
A-A



TILES ASSEMBLY AT AN EVEN ROOF SECTION



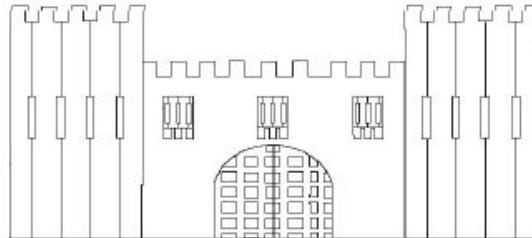
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Installation process photos



Roof tile "CASTLE"



Description

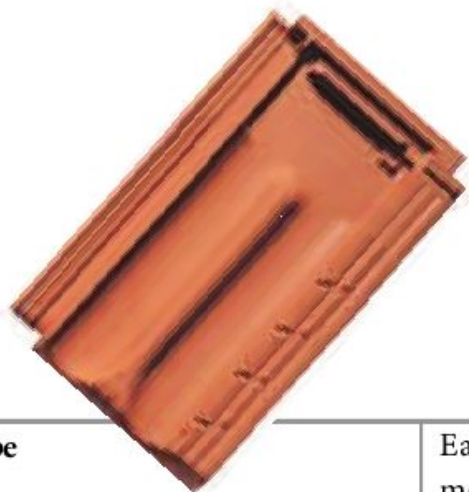
The prototype of the "Castle" polymer-sand tile was clay tile produced and launched back in 1874, when it was patented along with the first industrial clay presses. The fact that moulds and presses were sold as a package ensured all tiles were regular in size, and made it the first global roofing standard.



If you like roofs with instantly recognizable visual effects, the Castle is the perfect choice. Its distinctive yet traditional profile makes it equally suitable for renovating roofs, restoring historical buildings and roofing stylish new-build houses.

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Technical characteristics



| | |
|------------------------------|--|
| Type | Earth Tile-cooked nesting relief large mould, triple nesting |
| Number Hanson m ² | ~ 12.5-14 |
| Unit weight | ~ 1.7 kg / ~ 3,4 kg for clay tiles with the same form and dimensions |
| Overall length | ~ 43.3 cm |
| Overall width | ~ 26 cm |
| Useful width | ~ 22.3 cm |
| Longitudinal Assembly | 4 cm |
| Transverse Assembly set | ± 0.2 cm |
| Flexural strenght | 1,6 kN |
| Water resistance | 100 % |
| Frost resistance | Up to -100 ° C |
| Acid resistance | 100 % |
| Temperature range | - 65 ° C to +150 ° C |
| Wearability | ~ 0,2 gr/sq.m. |
| Number of tiles per pallet | 500 |
| Weight of the pallet | 900 Kg |

Characteristics of the polymer-sand tiles

1. Composition

- 73% river sand /use terms – millions years/
- 25% polythene
- 2% ferriferous-oxygen paint
- An UV-stabilizer is added to the moulding substance.

2. Coloring

The Polymer-sand roof-tile is colored by its mass i.e. before its moulding and production. The product has a homogeneous coloring within its whole structure. Due to that fact the roof-tiles of PERFECTO do not need any additional or secondary coloring within the whole term of their exploitation.

3. Water absorption

The Polymer-sand roof-tile manufactured by PERFECTO is water resistant. It has no pores, where the water can be accumulated and can damage the material when freezing. It has a high freeze resistance – over 200 cycles according to laboratory data. The Polymer-sand roof-tiles of PERFECTO possess the so called “goose-skin” effect – the water slides on their surface and your roof remains dry after rain.

4. Temperature regime

The polymer-sand roof-tile of PERFECTO stands a temperature variation between -65°C and +250°C. Important fact is that in contrast to the bitumen tile it does not release dangerous chemical substances in high temperature conditions.

5. Shock resistance

The pressure resistance of the polymer-sand roof-tile of PERFECTO is 150 kg./single tile and you can walk freely on a roofing with these tiles. The roof-tile is shock resistant – it does not break during transportation, arranging or load/unload operations. It is resistant to falling objects including ice, hail, etc.

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Advantages of the polymer-sand tiles

- Perfect sound insulator
- No drumming effect at rain and hailstorm
- Acid-resistant
- Hydrochloric-resistant
- Petroleum products resistant
- No corrosion
- No freezing and icing
- No molding
- Not a conductor, does not attract electricity
- Substitute for lightning-conductor system
- Radio-transparency – no cell phone signal disturbance
- Does not feed combustion – refers to the non-combustibles

Polymer-sand roof-tile is a multi-use material !



PERFECT@TILES

We build your future ...



Sole representative for Lebanon :

AL HOUDA Trade Industry

LEBANON
Khenchara, El Maten

Phone: +961 3 814465
Fax: +961 4 271166

Solidity



Durability



Security

A part of :

**PERFECTO GROUP
INTERNATIONAL Ltd.**

**BULGARIA,
Sofia 1164**

**9 Tsanko Tserkovski Str.,
floor 1, office 1**

Phone::+ 359 2 9549802
Fax: +359 2 9549740



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