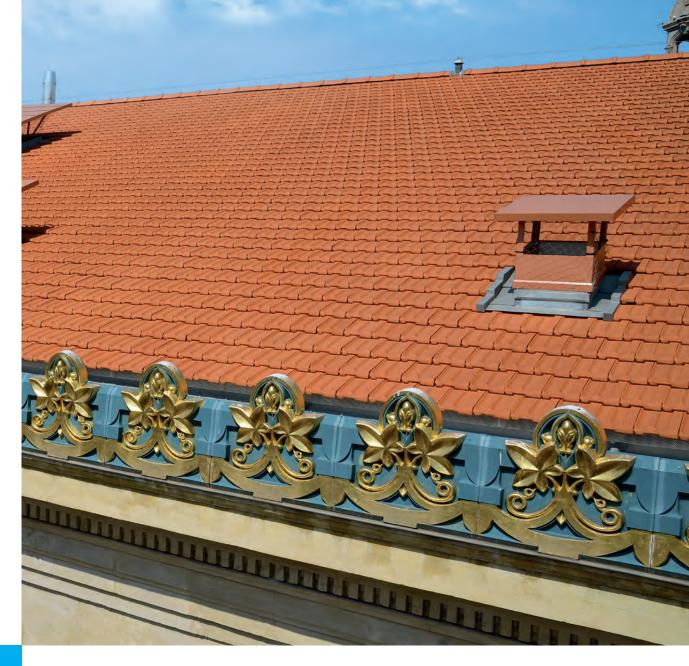
Marseille The historic tile





CLAY TILE Large-format - Low-profile tile

Marseille

- The interlocking tile from the 19th century
- Variable gauge: a great flexibility of laying
- The "Bee" mark exclusive to Monier





43.3 cm

Overall dimensions in cm



TECHNICAL CHARACTERISTICS

Туре	Clay roof tile large format, low-profile, Treble lock and double lapping, variable gauge	
Number of tiles per m ²	≈ 12,5 to 14	
Variable gauge	32 to 36 cm	
Linear cover	22,1 to 22,5 cm**	
Linear meter of battens/m ²	2,8 to 3,2 ml	
Gutter ventilation section	0 cm²/ml	
Tile interlocking category	Classe G1	
Unit weight	≈ 3.4 kg	
Weight per m ²	42.5 à 47.6 kg	
Number of tiles per pallet	240	
Weight per pallet	820 kg	
Production site	Roumazières	
Laying	Broken bond from right to left	
Silicone product	An additive is required for sealing	
Product standard	NF EN 1304	
Application standard	NF P 31-202 [DTU 40.21]	
Minimal gradient*	30 % / 16°70' (Zone 1, sheltered site with underlay)	

DoP

PRESCRIPTION RECOMMENDATION

The tile will be in terracotta from the large-format low-profile tile, treble lock double lapping and variable gauge, 12,5 to 14 per square meter, type MARSEILLE from MONIER or similar.

Its fitting tolerance should be 4 cm long and 0,4 cm transverse.

It will be laid broken bond from right to left, on battens according to the standard of NF application NF P 31-202 [DTU 40.21].

Its installation shall be carried out using all parts specially designed for dry mortarless laying of ridges and edges as specified in the DTU.

* See the gradient table on the back of this document.

** Usual fitting tolerance stated apply from actual average gauges and widths checked on delivery as per DTU.

GUARANTEES







CLAY TILE For any project developed within the context of an HQE® approach, en Environemental and Health Declaration Sheet for this tile is available on request.





COLOURS



Antique Red (7E)



Rustique Brown (5G)



Red (1B)

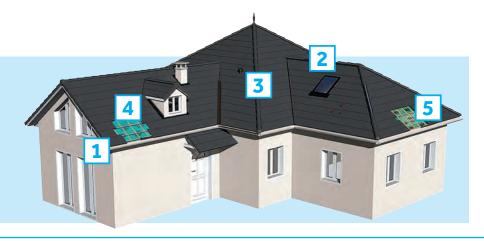


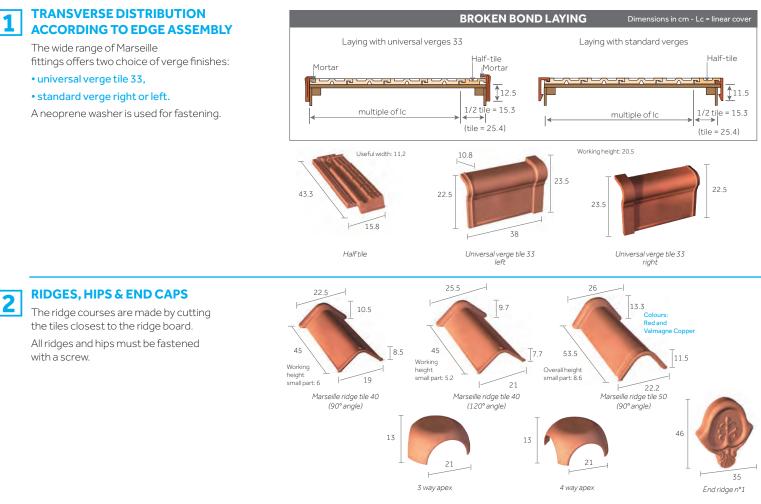
Valmagne Copper (6C)

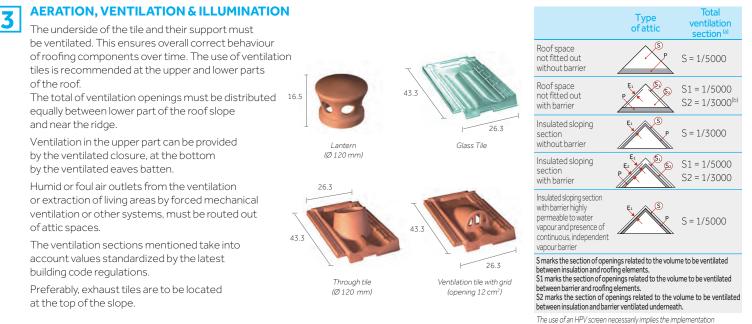




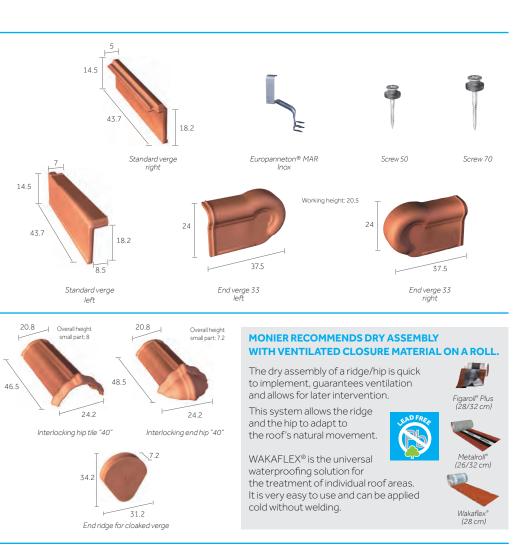
As a pioneer in the development of complete roofing systems, Monier has designed an innovative range according to the rules of the trade: terracotta and concrete tiles, roofing components and external thermal insulation. The professionals at Monier are authentic in their relationships and offer support and advice for their customers.







of a continuous vapor barrier on the underside of the insulation.



5

UNDERLAYS 4

- The underlays are mainly for:
- to ensure a complementary seal and protect the underlying premises against the penetration of powdery snow, dust, pollen, soot and water infiltration,
- to preserve the performance and the durability of the insulation in under face,
- allow to lower the slopes minimum cover when the DTUs provide for it.



-ch® 200F

For more information, consult the Monier General Catalog

THE ADVICE OF THE PRO

The half-tile is used on both the right and left, you will notch the nose of the tile at the overlap with the half-tile to ensure a good assembly. This operation is only done on the right bank line.

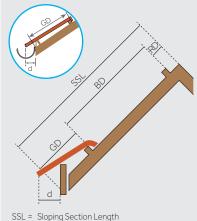
DISTRIBUTED OVER THE LENGTH OF THE SLOPING SECTION

All tiles on the eaves must be fastened. Please refer to the DTU in force

• Europanneton® MAR Inox

Laying of a ventilated eaves batten (ventilation 199 cm²/ml) on the tilt batten guarantees linear ventilation in the lower section in accordance with the DTU's recommendations.

The dimension GD mentionned by Monier will vary according to several parameters : height, gauge, roof pitch and overhang d, and may be adjusted to achieve the required overlap. The interlocking part (water flow) must to be taken into account when defining dimensions GD and overhang distance (d).



- RD = Distance from batten to ridge = 4.5 ± 0.5 cm BD = Battening distance = 32 to 36 cm
- GD = Distance from batten to gutter
 - This dimension is to be adjusted according to the projection of the gutter tile (dimension d) and the roof gradient.
- d = 8 cm. The gutter projection is determined according to the type of gutter. The tile nib must be aligned ± 1 cm with the gutter



Ventilated eaves batten without com $(I \ 1 \ m - H \ 30 \ mm)$

LAYING TILES IN A SQUARE LAYOUT

The attachments must be compliant with the requirements described in paragraph 5.4 of the D.T.U. 40.21 of october 2013.

The regions in question are the ones on the wind map

(reference NF EN 1991-1-4/NA).

The sites exposed to the winds shown on the wind map correspond to the situations defined in Appendix B of the D.T.U. 40.21 of october 2013.

All edging and guttering tiles are attached.

Use of Europanneton® MAR Inox recommended by Monier.

For violent winds, Monier recommends going beyond the DTU recommendation and therefore fastening all tiles.

the high performance range

OUTDOOR INSULATION

The sarking, thermal insulation process

the roof to insert a thin layer of insulation.

by the outside dedicated to the attic

or developable, is to enhance

Monier offers a complete range:

quality at the best price,

• CLIMA COMFORT®,

SARKING

• CLIMA FIRST®,

For more information, consult the Monier General Catalog

THE REGULATIONS

MINIMUM PITCH TABLE IN %

MINIMUM ACCEPTABLE PITCHES IN % (WITH UNDERLAY)

Zones Sites	Zone 1	Zone 2	Zone 3
Sheltered	30	30	45
Normal	35	45	50
Exposed	50	60	70

MINIMUM ACCEPTABLE PITCHES IN % (NO UNDERLAY)

Zones Sites	Zone 1	Zone 2	Zone 3
Sheltered	35	35	50
Normal	40	50	60
Exposed	60	70	80

These data are appropriate for rakes the ground plan of which does not exceed 12 m.

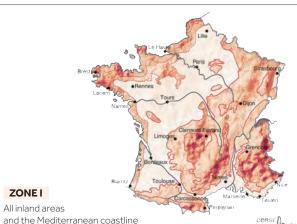
Building code recommendations.

Snow Protection: Revised 40.2 DTUs indicate: the protection against powder snow by the installation of a underlay screen must be specified in the specific documents of the market. Its implementation falls under DTU 40.29.

ZONES FOR THE APPLICATION OF MINIMUM PITCHES

France is divided up into 3 zones for the application of minimum pitches (with regard to wind/rain concomitance).

Note: the map below is indicative, only the definitions areas prevail.



for altitudes of less than 200 m.

ZONE 2

- Atlantic coastline up to 20 km inland, from Lorient to the Spanish border - Strip between 20 to 40 km from the coast, from Lorient
- to the Belgian border. - Altitudes between 200 m and 500 m

ZONE 3

- Atlantic, Channel and North Sea coastline and inland to 20 km,
- from Lorient to the Belgian border.
- Altitudes above 500 m and below 900 m.

DEFINITION OF SITES ACCORDING TO THE DTU

SHELTERED SITUATION

Bottom of bowl bordered of hills on all its periphery and thus protected for all the directions of the wind.

NORMAL SITUATION

Plain or plateau of great extent that may have minor slopes of less than 10% slope (undulations, undulations).

EXPOSED SITUATION

In the vicinity of the sea: The coastline on a depth of about 5 km, the cliff tops, islands or narrow peninsulas.

Inside the country: The narrow valleys where the wind rushes, isolated and high mountains.

This division into three zones should not be confused with the division into Regions of Snow and Winds given in the rules NV.



BMI Group

Monier SAS 23-25, av. du Docteur Lannelongue 75014 Paris Tel: 01 40 84 67 00 Fax: 01 40 84 67 01

Fabienne Alexandre - Export Manager

23-25, avenue du Docteur Lannelongue - 75014 Paris T: 00 33 (0)1 40 84 66 98 - E: fabienne.alexandre@bmigroup.com Contact: export.fr@bmigroup.com

BMI France, is part of the BMI Group, the largest manufacturer of flat and pitched roofing and waterproofing solutions throughout Europe with a significant presence in parts of Asia and Africa.

With 128 production facilities and operations in Europe, parts of Asia and Africa, the company brings more than 165 years of experience and employs over 9,500 employees.

BMI Group is headquartered in London.