

Concrete Roof Tiles

Description

Vortex tiles (named after the make of equipment used in their manufacture) come in three styles: Flat, Double Romane and Canadian along with associated flat and round ridges. Manufactured at Geoffroy, they can be fixed directly on pitched roofs. They can also be used on timber roof structures.

Advantages: Aesthetic appeal, reduction of indoor temperature, roof protection and ease of fixing.

Normative Reference

- EN 490: 2004 - Concrete roofing tiles and fittings for roof covering and wall cladding - Product Specifications
- EN 491: 2004 - Concrete roofing tiles and fittings for roof covering and wall cladding - Test Methods

Technical Specifications

Description	Vortex Flat	Vortex Canadian	Vortex Double Romane
Interlocking or Non-interlocking tile (IL or NL)	IL	IL	IL
Profile depth (d)	< 5mm	24mm	44.5mm
Regular or irregular front edge (RF or IF)	RF	RF	RF
Overall dimensions	330mm x 420mm	330mm x 420mm	330mm x 420mm
Cover width (cw)	300mm	300mm	300mm
Hanging length (l1)	400mm	400mm	400mm
Flatness	< 3mm	< 3mm	< 3mm
Thickness	12mm ±2mm	12mm ±2mm	12mm ±2mm
Mass of tile	±5kg	±5kg	±5kg
Ø of fixing holes	6mm	6mm	6mm
Mechanical resistance – Fmin Transverse strength (N)	1200	2000	2000
Quantity per m²	±10 units	±10 units	±10 units
Most common colors available	Cement Grey, Terracotta, Dark Grey, Brown Yellow, Red, Green, Brown, Black Matt & Acrylic Aspect Other colors can be provided on request		

Materials Specifications

- Cement
ORDINARY PORTLAND CEMENT (CEM I – 42.5N)
Compliance with BS EN 197-1:2000 – Cement. Composition, specifications and conformity criteria for common cements.
- Aggregates
Coral Sand
Compliance with BS 882: 1992 – Specification for aggregates from natural sources for concrete.
- Water
BOREHOLE – Clean and free from any harmful amounts of deleterious matter either in suspension or in solution controlled each month by external laboratories.
- Pigment
Iron Oxides.

Test and Compliance Certificates

Appropriate certificates are issued upon request. In case of no particular specifications / requirements on the product, the test and compliance certificates will be according to EN 490.



Double Romane



Canadian



Flat



Flat Ridge



Rounded Ridge