Clay Roof Tiles
Designed for Living
Koramic is Europe’s leading manufacturer of clay roof tiles. We cover annually around 242,000 roofs.

The wide selection of possible clay roof tile designs offers architects the possibility to reflect regional identities – from pitched roofs via arched roofs through to monopitch roofs.

With our products we provide the visual impact of a timeless modern roof together with the distinctive character of natural clay. The appeal of this material when combined with other visual elements lies in its subtlety, symmetry, natural elegance, human scale, and timeless perfection. The product line ranges from contemporary flat tiles with “engobe” to natural red plain tiles as they have been used for centuries.

Wienerberger clay roof tiles combine natural tradition and state-of-the-art technology.
# Roof Solutions

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Roof Solutions

9 types of clay roof tiles

Choose your clay roof tile …
Choose from 50 types of clay roof tile

9 TYPES OF CLAY ROOF TILES

PLAIN TILE
The plain tile is a small flat tile that is laid crosswise. The large overlap means that only one-third of the tile is visible. The tile gives the roof an even appearance.

FLAT TILE WITH INTERLOCKING
Tile with interlocking and flat surface for water drainage. The tile gives the roof plane an even appearance.

SLIGHTLY CURVED TILE WITH INTERLOCKING
Tile with interlocking and flat surface for water drainage. It is fitted with a nosing that gives the roof plane a gently undulating appearance.

INTERLOCKING HOLLOW TILE
Tile with interlocking, the water-drainage section of which has an arched shape and the head lock of which follows the tiled body. The tile gives the roof plane an undulating appearance.

Surface treatment

NO SURFACE TREATMENT
The oxidising firing results in the tile taking on the natural colour of baked clay.

BRAISED
When clay roof tiles are subjected to blue braising, one of Koramic’s specialities, oxygen is extracted from the firing process. This results in the tiles taking on a very typical blue-grey colour in the mass.

WEATHERED PATINA
The authentic weathered look is obtained by subjecting the unfired tiles to a special treatment. This gives these tiles the typical patina of age-old tiles once they have been fired, combining the charm and characteristics of old tiles with the quality of new ones. Weathered patinating is one of Koramic’s specialities.

SANDED
Here the still plastic tile surface is sand-blasted, the colour and size of the grains of sand varying according to the design. During firing a solid bond is created between the sanding and the top layer of the tile.
The extremely wide and varied range of Koramic clay roof tiles comprises of 50 different types. All differ in shape and size, from the smallest plain tile of which 95 are needed per sqm, to the largest tile of which only eight are needed to cover one square metre. In terms of form, the range can be subdivided into nine types.

**ENGOBE**
Engobing involves the dry unfired tile being fully or partially sprayed with an argillaceous suspension to which the appropriate colour-developing oxides have been added. During firing the engobe layer sinters into the tile.

**Noble Engobe**
Slate engobe is a ceramic coating which is a finish that is between a traditional engobe and a glaze. Just like an engobe or a glaze, the noble engobe is applied to the roof tile surface as an aqueous suspension before firing. During the subsequent firing process the noble engobe melts and embeds itself in the underlying roof tile mass. This produces a soft satiny sheen.

**Glazed**
Matt or glossy. Glazing is the application of a glassy suspension to the dry unfired tile. During the firing process this applied coating melts permanently into the tile to create a genuine glass layer. This hard, smooth and pore-free glass layer affords the tile exceptional protection against algae growth. Glazing is a Koramic speciality.

**DARK MASS**
For the finishing of valley gutters, north-facing stiles, dormer windows and other breaks in the roof, clay roof tiles are often cut. The brown, charcoal and black shades from various Seltz, Lantenne, Narvik Deest and Pottelberg tile models are produced on a dark body instead of a natural red mass. This renders the saw cut virtually invisible. Braised blue tiles naturally have a dark mass.
An arched roof has major advantages over a pitched roof. First of all, it offers extra space. For a given ridge height, an arched roof affords a much greater usable height, which can be important if the town planning rules stipulate a maximum ridge height. What’s more, the space created by an arched roof can also be utilised to much better effect, since in a traditional roof a higher ridge often leads to corners and edges that cannot be used for any practical purpose.

Building plots are becoming smaller, and this is where a second advantage is to be found. With a constant usable height under the roof, a house with an arched roof can have a smaller surface area, which of course positively impacts the construction budget. The saving in materials is another major financial advantage, since an arched roof calls for fewer building materials. The aesthetic aspect is another factor in its favour. The flowing line of the arched roof means a break can be made with the straight lines of the traditional pitched roof, without sacrificing anything in terms of rigidity.

Arched roofs are often chosen for aesthetic reasons, but also to create more height on the upper floor. One tends immediately to think of metal roof cladding for arched roofs. But clay tiles are also ideally suited for use as an attractive and long-lasting finishing for an arched roof.

Arched roofs are usually associated with zinc and copper. But metal roof cladding can lead to condensation, which in turn can cause corrosion. Clay roof tiles, by contrast, are corrosion-resistant and age very slowly, and in a uniform and aesthetically pleasing way.

An arched roof made of clay roof tiles is maintenance-friendly, and does not produce an annoying noise when it rains. Moreover, a clay material is thermally stable, meaning it does not expand or contract when there are temperature variations. Cracking sounds are therefore ruled out.

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A ROOF WITH CLAY ROOF TILES CAN ALSO BE ROUND

SPACE GAIN
An arched roof has major advantages over a pitched roof. First of all, it offers extra space. For a given ridge height, an arched roof affords a much greater usable height, which can be important if the town planning rules stipulate a maximum ridge height. What’s more, the space created by an arched roof can also be utilised to much better effect, since in a traditional roof a higher ridge often leads to corners and edges that cannot be used for any practical purpose.

BUDGET FRIENDLY
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SOUND-INSULATING
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A WHOLE HOST OF SHAPES, SIZES AND COLOURS
Arched roofs are often chosen for aesthetic reasons, but also to create more height on the upper floor. One tends immediately to think of metal roof cladding for arched roofs. But clay tiles are also ideally suited for use as an attractive and long-lasting finishing for an arched roof.
EXCELLENT SYSTEM FOR THERMAL INSULATION

Clay roof tiles form an outer layer, which is separated from the inner space by a ventilated cavity. Between the supporting structure and the clay frontage, very thick layers of insulation can be fitted without the foundation having to be made wider (and therefore becoming more expensive). The most stringent maximum U-values for vertical walls can therefore easily be met.

SIMPLE LAYING AND REPAIR

Laying is pretty much identical to the laying of tiles on a sloping roof. To this end, consult our specific “Wall cladding with clay roof tiles” tile laying instructions. Damaged wall cladding can easily be repaired by replacing a few individual tiles.

IDEAL FOR THE RENOVATION OF OLD HOUSES

A wall cladding using clay roof tiles is especially suited to renovation. Wall cladding not only conceals an uneven or irregular subgrade, but is also the ideal solution for carelessly built cavity walls with moisture bridges between the inner and outer cavity leaves, and for non-insulated walls.

CREATIVE AND ECONOMICAL

A wall cladding with clay roof tiles is a reliable and economical choice. After all, the same tiles are used for wall cladding as for roofing. What’s more, clay roof tiles come in many shapes and sizes, and thus offer plenty of scope for creativity. Use the same cladding for roof and walls, and the creative possibilities increase still further.

Good architecture is by definition creative, progressive and constantly on the lookout for new application possibilities. The use of clay roof tiles as wall cladding fits perfectly into this philosophy. Clay roof tiles have long been used for the protection of dormer windows, gables and wall frontages pending adjoining construction in the case of terraced and semi-detached houses. They also offer major technical and architectural advantages as wall cladding.

CLAY TILES ALSO IDEAL FOR THE WALL

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Whether building a house in contemporary or traditional style, or renovating an authentic barn or country house, Koramic clay roof tiles provide you with a customised solution for your construction project thanks to the wide range of shapes, sizes, colours and surface treatments. Clay roof tiles are suitable for pitched and arched roofs or can be used as wall cladding. You will also find what you want at Koramic when it comes to the budget – not only today but also in the future, for example if you subsequently want to add an extension to your home you will be able to use the same clay roof tiles.

GUARANTEED FROST RESISTANT

Clay roof tiles have to be frost-resistant, to ensure their rainproof quality is guaranteed. Koramic clay roof tiles meet this important criterion thanks to the know-how that our company has built up over the last 125 years. A targeted selection of raw materials, an ideal mix of ingredients, and state-of-the-art manufacturing technologies give the clay roof tiles a very special pore structure. A large number of pores do not absorb water, so that no damage can occur. Frost turns water into ice, which has a larger volume and causes stresses and damage. The pore structures developed at Koramic are able to absorb these stresses without any damage being caused to the tile. Frost resistance is guaranteed by a 30-year warranty, which covers delivery and laying of new tiles.

DIMENSIONALLY STABLE

Clay roof tiles are also dimensionally stable because fired clay hardly expands at all under the influence of temperature differences or moisture. This means your roof remains weatherproof and does not make any irritating cracking noises.

INVESTMENT IN ADDED VALUE

All this means that clay roof tiles represent a major investment, not just in terms of peace of mind and comfortable living, but also with a view to the future. Indeed, they increase the value of your home, which in the long run constitutes a sizeable added value. You can also feel safe in the knowledge that you have our 30 year quality guarantee on frost resistance to fall back on.
LASTINGLY BEAUTIFUL

Fired clay is a natural material, with all the advantages this represents. It is chemically stable and therefore resistant to all possible aggressive impacts: weather conditions, air pollution, the effect of salt in coastal areas, etc. The tiles permanently form a shield that is impervious to water, and do not lose any of their colour. After some time a natural patina develops, beneath which the tiles’ original colour remains wholly intact.

THE LAST WORD IN DURABILITY

A correctly constructed roof with a clay tile finishing lasts longer and works better. If the structure and ventilation meet all the requirements, clay roof tiles boost the structure’s life span and the efficiency of the thermal insulation. Clay roof tiles are suitable for use as wall cladding. You can fit insulation under the tiles in the case of an existing house with no insulation. In this way you can also protect a wall frontage pending adjoining construction, until such a time as the adjoining building is built. Clay roof tiles are recyclable, making them very attractive from an environmental and budgetary point of view.

But if the tiles come from a non-insulated roof, re-use is sometimes not quite so self-evident, since they may have suffered damage that may or may not be visible. If they are then re-used on a thermally insulated roof, they will be subject to further adverse effects and their rainproof quality will be compromised.

CAST-IRON GUARANTEES

The above qualities are constantly monitored by means of stringent internal and external checks carried out under the supervision of recognised certification and inspection organisations. In its own central laboratory Koramic regularly analyses samples of the raw materials and end products, backed by know-how built up over 125 years. ISO 9001-certification confirms that Koramic meets stringent quality criteria in all stages (development, production, and sales). The Belgian and German factories as well as the factory Janssen-Dings in the Netherlands are ISO 9001 certified. Koramic clay roof tiles have all European quality marks for clay roof tiles, such as the Belgian BENOR, the Dutch KOMO, the French NF, the German Güteschutz and the European CE mark.
Tempest tile 44

TECHNICAL DATA

- Slightly curved interlocking clay roof tile with double head and single side lock
- Tiles per sqm: ± 20.5
- Minimum pitch: 22°
- Batten spacing: ± 248 mm
- Effective cover width: ± 195 mm
- Weight per piece: ±1.90 kg / ±1.71 kg
- Certificates: Benor & KOMO
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

[Images of tile samples: Natural Red 600, Amarant 848, Rustic 872, Lustré 877, Old Copper 876, Antracite 736]
Tempest tile 993

TECHNICAL DATA

- Slightly curved interlocking clay roof tile with triple head and double side lock
- Tiles per sqm: ± 20.5
- Minimum pitch: 20°
- Batten spacing: ± 248 mm
- Effective cover width: ± 210 mm
- Weight per piece: ± 2 kg
- Certificates: Benor & KOMO
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Alegra 12 Sturmfix

TECHNICAL DATA
- Slightly curved interlocking clay roof tile with double head and double side lock
- Tiles per sqm: ± 12.4 – 13.5
- Minimum pitch: 20°
- Min. batten spacing: ± 330 mm
- Max. batten spacing: ± 360 mm
- Effective cover width: ± 224 mm
- Weight per piece: ± 3.7 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Natural Red 600  Red Engobe 602  Dark Brown 673  Noble Copper 607  Noble Ruby 619  Noble Titanium 738

Anthracite 736  Noble Garnet 690  Noble Deep Black 745

Wienerberger
Building Material Solutions
Alegra 10 Sturmfix

TECHNICAL DATA
- Slightly curved interlocking clay roof tile with double side lock and variable batten space
- Tiles per sqm: ± 10.7 – 12.4
- Minimum pitch: 18°
- Min. batten spacing: ± 330 mm
- Max. batten spacing: ± 375 mm
- Effective cover width: ± 248 mm
- Weight per piece: ± 4.2 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Alegra 8 Sturmfix

**TECHNICAL DATA**

- Slightly curved interlocking clay roof tile with single side lock and variable batten space
- Tiles per sqm: ± 8.7 – 9.5
- Minimum pitch: 16°
- Min. batten spacing: ± 370 mm
- Max. batten spacing: ± 400 mm
- Effective cover width: ± 285 mm
- Weight per piece: ± 4.5 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Cosmo 13

TECHNICAL DATA
- Slightly curved interlocking clay roof tile with double side lock and variable batten space
- Tiles per sqm: ± 12.1 – 14.9
- Minimum pitch: 25°
- Min. batten spacing: ± 300 mm
- Max. batten spacing: ± 368 mm
- Effective cover width: ± 223 mm
- Weight per piece: ±3.4 kg
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Alegra

TECHNICAL DATA
- Slightly curved interlocking clay roof tile with double side lock and variable batten space
- Tiles per sqm: ± 10.5
- Minimum pitch: 13°
- Min. batten spacing: ± 345 mm
- Max. batten spacing: ± 375 mm
- Effective cover width: ± 251 mm
- Weight per piece: ± 4.3 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Slightly curved tile with interlocking

### TECHNICAL DATA

- Slightly curved interlocking clay roof tile with double head and double side lock
- Tiles per sqm: ± 14.5
- Minimum pitch: 13°
- Minimum pitch: 11° (for Panne TFP with certificate DTA5/09-2048, for very low pitch roofing)
- Batten spacing: ± 200 mm
- Effective cover width: ± 223 mm
- Weight per piece: ± 3 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

**PANNE ATHRACITE**

Arch. Bureau d’architectes Benoît Hock

**PANNE NATURAL RED**

**Panne & Panne TFP**

**Natural Red 600**

**Multiblend 875**

**Noble Havana 691**

**Copper 678**

**Aubergine 633**

**Dark Brown 668**

WITH DARK CLAY TILE BODY

Stark Engobe 703

WITH DARK CLAY TILE BODY

Anthracite 736

WITH DARK CLAY TILE BODY
Prima 9

TECHNICAL DATA
- Slightly curved interlocking clay roof tile with double side lock and variable batten space
- Tiles per sqm: ± 9.5
- Minimum pitch: 13°
- Min. batten spacing: ± 340 mm
- Max. batten spacing: ± 380 mm
- Effective cover width: ± 275 mm
- Weight per piece: ± 4.4 kg
- Certificate: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Alegra 12

TECHNICAL DATA
- Slightly curved interlocking clay roof tile with variable side lock, variable head and variable batten space
- Tiles per sqm: ± 12.5 – 14.1
- Minimum pitch: 25°
- Min. batten spacing: ± 340 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 208 – 216 mm
- Weight per piece: ± 3.3 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty

Natural Red 600  Red Engobe 602  Slate Engobe 703  Noble Black Engobe 745  Noble Vulcano Black 755  Black Glazed 738
Alegra 10

**TECHNICAL DATA**

- Slightly curved interlocking clay roof tile with variable batten space
- Tiles per sqm: ± 10.6
- Minimum pitch: 25°
- Min. batten spacing: ± 333 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 254 mm
- Weight per piece: ± 4.2 kg
- Certificate: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty
Modula

TECHNICAL DATA
- Slightly curved interlocking clay roof tile
  with variable head lock and variable batten space
- Tiles per sqm: ± 9
- Minimum pitch: 25°
- Min. batten spacing: ± 320 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 300 mm
- Weight per piece: ± 4.2 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty
Opalys

TECHNICAL DATA
- Slightly curved interlocking clay roof tile
- Tiles per sqm: ± 9.5
- Minimum pitch: 24°
- Batten spacing: ± 257 mm
- Effective cover width: ± 403 mm
- Weight per piece: ± 3.8 kg
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Slightly curved tile with interlocking

TECHNICAL DATA
- Slightly curved interlocking clay roof tile with variable batten space
- Tiles per sqm: ± 15
- Minimum pitch: 25°
- Min. batten spacing: ± 288 mm
- Max. batten spacing: ± 308 mm
- Effective cover width: ± 218 mm
- Weight per piece: ± 2.6 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty

VHV Deest

Natural Red 600  Rustic 872  Red Satiny 610  Autumn Satiny 898  Victoria 878  Wine Red Matt Glazed 613
Slightly curved tile with interlocking

Technological data:
- Slightly curved clay roof tile with double side lock and variable batten space
- Tiles per sqm: ± 10
- Minimum pitch: 13°
- Min. batten spacing: ± 335 mm
- Max. batten spacing: ± 390 mm
- Effective cover width: ± 263 mm
- Weight per piece: ± 4.3 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
JPV 2

TECHNICAL DATA

- Slightly curved clay roof tile with double side lock and variable batten space
- Tiles per sqm: ± 12
- Minimum pitch: 24°
- Min. batten spacing: ± 300 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 223 mm
- Weight per piece: ± 3.5 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Roof Solutions

Hollow interlocking tile

Flemish tile 401

TECHNICAL DATA
- Hollow ceramic tile with double side lock and double head lock
- Tiles per sqm: ± 16.5
- Minimum pitch: 22°
- Batten spacing: ± 300 mm
- Effective cover width: ± 201 mm
- Weight per piece: ± 2.6 kg
- Certificates: BENOR + KOMO
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Natural Red 600
Amarant 848
Rustic 872
Anthracite 736
Slate Matt Glazed 705
Black Glazed 738
VHV Janssen-Dings

TECHNICAL DATA
- Hollow ceramic tile with double side lock, double head lock and variable batten space
- Tiles per sqm: ± 15
- Minimum pitch: 25°
- Min. batten spacing: ± 288 mm
- Max. batten spacing: ± 308 mm
- Effective cover width: ± 218 mm
- Weight per piece: ± 2.6 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty
**VHV Tegelen**

**TECHNICAL DATA**

- Hollow ceramic tile with variable batten space
- Tiles per sqm: ± 15
- Minimum pitch: 25°
- Min. batten spacing: ± 288 mm
- Max. batten spacing: ± 308 mm
- Effective cover width: ± 218 mm
- Weight per piece: ± 2.6 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty

- Natural Red 600
- Rustic Glazed 900
- Light Brown Glazed 669
- Night Blue Glazed 638
- Slate Matt Glazed 756
- Black Glazed 738
OVH Janssen-Dings

TECHNICAL DATA
- Hollow ceramic tile with single side lock and single head lock
- Tiles per sqm: ± 15.9
- Minimum pitch: 25°
- Batten spacing: ± 308 mm
- Effective cover width: ± 204 mm
- Weight per piece: ± 2.6 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty
OVH

TECHNICAL DATA
- Hollow ceramic tile with single side lock
  and single head lock
- Tiles per sqm: ± 15.9
- Minimum pitch: 25°
- Batten spacing: ± 308 mm
- Effective cover width: ± 204 mm
- Weight per piece: ± 2.7 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty

Natural Red 600
Rustic 872
Red Satiny 610
Autumn Satiny 896
Victoria 878
Black-Brown Engobe 737
Madura

**TECHNICAL DATA**

- Hollow ceramic tile with variable side and head lock and variable batten space
- Tiles per sqm: ± 11.3
- Minimum pitch: 25°
- Min. batten spacing: ± 335 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 234 – 240 mm
- Weight per piece: ± 3.8 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty

![Madura Noble Black Engobe](image)
Old Hollow Tile 451

**TECHNICAL DATA**

- Hollow ceramic tile without interlockings
- Tiles per m²: ± 19
- Minimum pitch: 25°
- Batten spacing: ± 281 mm
- Effective cover width: ± 190 mm
- Weight per piece: ± 2.3 kg
- Certificates: BENOR + KOMO
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Sinus

TECHNICAL DATA
- Hollow ceramic tile with variable batten space
- Tiles per sqm: ± 14.3
- Minimum pitch: 25°
- Min. batten spacing: ± 340 mm
- Max. batten spacing: ± 350 mm
- Effective cover width: ± 200 mm
- Weight per piece: ± 2.8 kg
- Certificates: KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty
Datura

TECHNICAL DATA
- Interlocking flat tile with double head and double side lock and variable batten space
- Tiles per sqm: ± 15.4
- Minimum pitch: 25°
- Min. batten spacing: ± 270 mm
- Max. batten spacing: ± 307 mm
- Effective cover width: ± 211 mm
- Weight per piece: ± 3.1 kg
- Certificates: BENOR + KOMO
- Standards: NEN-EN1304
- Frost resistance: 30-year warranty

Natural Red 600
Rustic 872
Slate Engobe 703
Slate Matt Glazed 756
Black Matt Glazed 744

WITH DARK CLAY TILE BODY

Rustic 872
Slate Engobe 703
Slate Matt Glazed 756
Black Matt Glazed 744

WITH DARK CLAY TILE BODY
Actua 10 Sturmfix

TECHNICAL DATA
- Flat ceramic tile with double side lock and double head lock and variable batten space
- Tiles per sqm: ± 10.5 – 11.8
- Minimum pitch: 25°
- Min. batten spacing: ± 340 mm
- Max. batten spacing: ± 385 mm
- Effective cover width: ± 248 mm
- Weight per piece: ± 4.5 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Actua

TECHNICAL DATA
- Flat ceramic tile with double side lock and double head lock and variable batten space
- Tiles per sqm: ± 10.5
- Minimum pitch: 24°
- Min. batten spacing: ± 310 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 261 mm
- Weight per piece: ± 4.4 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
TECHNICAL DATA
- Flat ceramic tile with double side lock and single head lock and variable batten space
- Tiles per sqm: ± 22
- Minimum pitch: 25°
- Min. batten spacing: ± 258 mm
- Max. batten spacing: ± 273 mm
- Effective cover width: ± 168 mm
- Weight per piece: ± 2.25 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Karhago 14 Sturmfix

TECHNICAL DATA

- Roman ceramic tile with variable batten space
- Tiles per sqm: ± 13.9 – 14.5
- Minimum pitch: 22°
- Min. batten spacing: ± 330 mm
- Max. batten spacing: ± 345 mm
- Effective cover width: ± 209 mm
- Weight per piece: ± 3.8 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Romane

TECHNICAL DATA
- Roman ceramic tile with double side lock and double head lock
- Tiles per m²: ± 11.5
- Minimum pitch: 13°
- Batten spacing: ± 372 mm
- Effective cover width: ± 237 mm
- Weight per piece: ± 3.9 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

ROMANE STRAW

ROMANE NATURAL RED
Kanal 10

TECHNICAL DATA
- Roman ceramic tile with variable batten space
- Tiles per sqm: ± 10
- Minimum pitch: 13°
- Min. batten spacing: ± 362 mm
- Max. batten spacing: ± 392 mm
- Effective cover width: ± 235 – 250 mm
- Weight per piece: ± 4.5 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Kanal 10 Old Ochre
Tradi 12

TECHNICAL DATA

- Mulden clay roof tile with single head and double side lock and variable batten space
- Tiles per sqm: ± 12
- Minimum pitch: 13°
- Min. batten spacing: ± 325 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 223 mm
- Weight per piece: ± 3.5 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Natural Red 600  Multiblend 875  Dark Brown 668
WITH DARK CLAY TILE BODY
Tradi 12 Sturmfix

TECHNICAL DATA

- Mulden clay roof tile with double head and double side lock and variable batten space
- Tiles per sqm: ± 12.2 – 13.3
- Minimum pitch: 22°
- Min. batten spacing: ± 330 mm
- Max. batten spacing: ± 360 mm
- Effective cover width: ± 228 mm
- Weight per piece: ± 3.7 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Brick Colors:
- Natural Red 600
- Red Engobe 602
- Copper Brown 676
- Noble Clinker Red 601
- Black Matt 741
- Noble Black 745
Losangée

TECHNICAL DATA
- Mulden clay roof tile with single head and double side lock and variable batten space
- Tiles per sqm: ± 12 – 14
- Minimum pitch: 13°
- Min. batten spacing: ± 325 mm
- Max. batten spacing: ± 370 mm
- Effective cover width: ± 223 mm
- Weight per piece: ± 3.2 kg
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Méga

TECHNICAL DATA
- Mulden clay roof tile with double side lock, single head lock and variable batten space
- Tiles per sqm: ± 10 – 11.5
- Minimum pitch: 13°
- Min. batten spacing: ± 335 mm
- Max. batten spacing: ± 393 mm
- Effective cover width: ± 261 mm
- Weight per piece: ± 4.3 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Standard

TECHNICAL DATA
- Mulden clay roof tile with single side lock and single head lock
- Tiles per sqm: ± 14
- Minimum pitch: 25°
- Batten spacing: ± 336 mm
- Effective cover width: ± 210 mm
- Weight per piece: ± 3.15 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Optima

TECHNICAL DATA
- Mulden clay roof tile with single head and double side lock and variable batten space
- Tiles per sqm: ± 9
- Minimum pitch: 13°
- Min. batten spacing: ± 335 mm
- Max. batten spacing: ± 405 mm
- Effective cover width: ± 278 mm
- Weight per piece: ± 4.6 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Plain Tile 301 Smooth

TECHNICAL DATA
- Plain clay roof tile
- Tiles per sqm: ± 59
- Minimum pitch: 25 – 35°
- Min. batten spacing: ± 90 mm
- Max. batten spacing: ± 110 mm
- Effective cover width: ± 170 mm
- Weight per piece: ± 1.02 kg
- Certificates: BENOR + KOMO
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
PLAIN TILE 301 SMOOTH NATURAL RED, RUSTIC, AMARANT AND ANTHRACITE
Arch. Creyf Architects

State Matt Glazed 705
Anthracite 736
Black Glazed 738
Plain Tile 303 Sanded and Rustica

**TECHNICAL DATA**

- Plain clay roof tile with single head and variable batten space
- Tiles per sqm: ± 59
- Minimum pitch: 35°
- Batten spacing: ± 110 mm
- Effective cover width: ± 170 mm
- Weight per piece: ± 1.05 kg
- Certificates: BENOR
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Plain Tile Plato

TECHNICAL DATA
- Plain clay roof tile with single head lock and variable batten space
- Tiles per sqm: ± 27
- Minimum pitch: 25° – 35°
- Min. batten spacing: ± 135 mm
- Max. batten spacing: ± 145 mm
- Effective cover width: ± 255 mm, except Slate Engobe ± 252 mm
- Weight per piece: ± 2.23 kg
- Certificates: BENOR & KOMO
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Natural Red 600  Old English Weathered 797  Slate Engobe 703  Brased Black 706
Plain tile
Plain Tile Tempo 18.5 x 31

TECHNICAL DATA
- Plain clay roof tile with single head and variable batten space
- Tiles per sqm: ± 44
- Minimum pitch: 35°
- Min. batten spacing: ± 110 mm
- Max. batten spacing: ± 120 mm
- Effective cover width: ± 185 mm
- Weight per piece: ± 1.7 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Red Multi 859  Patina Burgundy 905  Patina Champagne 901  St Jean 904  Slate Engobe 703
Beaver tile 18 x 38 - Eisenberg

TECHNICAL DATA
- Plain beaver clay roof tile with single head and variable batten space
- Tiles per sqm: ± 36
- Minimum pitch: 35°
- Min. batten spacing: ± 145 mm
- Max. batten spacing: ± 155 mm
- Effective cover width: ± 180 mm
- Weight per piece: ± 2.1 kg
- Certificates: NF, Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Beaver tile 18 x 38 - Langenzenn

**TECHNICAL DATA**

- Plain beaver clay roof tile with single head and variable batten space
- Tiles per sqm: ± 34 – 38
- Minimum pitch: 30°
- Min. batten spacing: ± 145 mm
- Max. batten spacing: ± 165 mm
- Effective cover width: ± 180 mm
- Weight per piece: ± 1.8 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
**TECHNICAL DATA**

- Plain beaver clay roof tile with single head and variable batten space
- Tiles per sqm: ± 40
- Minimum pitch: 35°
- Min. batten spacing: ± 145 mm
- Max. batten spacing: ± 155 mm
- Effective cover width: ± 160 mm
- Weight per piece: ± 2.0 kg
- Certificates: Güteschutz
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Plain Tile Pontigny

TECHNICAL DATA

- Plain clay roof tile
- Tiles per sqm: ± 89 (14*24 cm) or ± 66 (16*27 cm)
- Minimum pitch: 35°
- Batten spacing: ± 75 – 85 (14*24 cm) or ± 90 – 100 (16*27 cm)
- Effective cover width: ± 140 mm (14*24 cm) or ± 160 mm (16*27 cm)
- Weight per piece: 14*24 cm: ± 0.8 kg (beaver cut), ± 0.9 kg (straight cut)  
  16*27 cm: ± 1.22 kg (beaver cut), ± 1.26 kg (straight cut)
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Plain Tile Patrimony handcrafted

TECHNICAL DATA

- Plain clay roof tile
- Tiles per sqm: ± 74 (15*26 cm) or ± 84 (14*25 cm) or ± 66 (16*27 cm)
- Minimum pitch: 35°
- Batten spacing: ± 85 – 95 (15*26 cm) or ± 80 – 90 (14*25 cm) or ± 90 – 100 (16*27 cm)
- Effective cover width: ± 150 mm (15*26 cm) or ± 150 mm (14*25 cm) or ± 160 mm (16*27 cm)
- Weight per piece: 15*26 cm: ± 1.13 kg (beaver cut), ± 1.14 kg (straight cut)
  14*25 cm: ± 0.98 kg (beaver cut), ± 1.04 kg (straight cut)
  16*27 cm: ± 1.24 kg (beaver cut), ± 1.27 kg (straight cut)
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

Kent Red 894  Vineyard Black 885  Lichen Green 896  Ochre Lichen 884
Saint-Vincent

TECHNICAL DATA
- Plain clay roof tile with variable batten space
- Tiles per sqm: ± 63 – 69
- Minimum pitch: 35°
- Batten spacing: ± 90 – 100 mm
- Effective cover width: ± 160 mm
- Weight per piece: ± 1.06 kg
- Certificates: NF
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Bellus

TECHNICAL DATA
- Extruded ceramic slate with continuous nib
- Tiles per sqm: ± 28
- Minimum pitch: 27°
- Min. batten spacing: ± 90
- Max. batten spacing: ± 100
- Effective cover width: ± 160 mm
- Weight per piece: ± 1.06 kg
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty
Façatile

TECHNICAL DATA
- Extruded clay tile with continuous nib for flat vertical cladding.
- Tiles per sqm: ± 24.5
- Min. batten spacing: ± 140 mm
- Max. batten spacing: ± 161 mm
- Effective cover width: ± 255 – 257 mm
- Weight per piece: ± 1.9 kg
- Certificates: BENOR & KOMO
- Standards: meets the Belgian, French, Dutch and German standards based on EN 1304
- Frost resistance: 30-year warranty

ONLY FOR FAÇADE APPLICATION!

Natural Red 600
Siena Red 645
Terra Brown 693
Sand Grey 757
Braised Blue 706
Braised Aubergine 758

Slate Engobe 703
WITH DARK CLAY TILE BODY

WITH DARK CLAY TILE BODY

WITH DARK CLAY TILE BODY

WITH DARK CLAY TILE BODY
An appropriate ventilation of the tiled roof and of the tile supporting structure has to be provided. Ventilation can be brought to the roof through an adapted number of ventilation tiles or any other means allowing the air to circulate. When using a roof underlay, an air gap must also be secured between the underlay and the roof tiles. The overall ventilation will depend on the size of the roof, on the type of attic and on local regulations. To achieve a suitable ventilation with respect to the approved building and roofing regulations and standards, please refer to the official documents of your country.

Minimum roof pitch in degrees is given with use of a roof underlay for European countries the tile model originates from. Pitch may vary according to laying understructure of tiles and to local wind and climate zones. Please refer necessarily to the official building and roofing regulations and standards of your country.
Roof Solutions

Accessories

- ridge/hip clip
- ridge batten strap
- transparent tile
- underlay
- ventilated ridge/hip roll
- snow arrest
- flange
- screw with sealing washer
- insulation material
Service & Sustainability

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