

CLINKER ROOF TILES



ABOUT US

We, the ABC Clinker Group, are a family-owned business in the brick and tile industry in Germany and can look back on around 130 years of experience. Today, our ABC Clinker Group is in the fifth generation and manufactures various brick products at six locations in Germany. Our product portfolio includes facing bricks, brick slips, ceramic facades, clay pavers, clinker roof tiles and floor ceramics.

SUSTAINABILITY

We produce sustainable natural building materials as environmentally friendly as possible. For this reason, we focus on low energy consumption in production with gentle, efficient use of resources and low material consumption.

The natural slate clay of the Tecklenburger Land forms the basic material of our ABC products - a valuable, genuine natural product!

VISIT OUR SHOWROOM "RINGOFEN" IN HÖRSTEL

In our showroom, the Ringofen, Dornierstr. 11 in Hörstel, we offer you numerous suggestions and various possibilities for your house construction. For an individual consultation we are available Monday to Friday from 08.30 am to 05.30 pm and Saturday from 09.00 am to 01.00 pm. For an appointment, you can reach us by phone at +49 (0) 54 59 / 93 43 11 or by e-mail at ausstellung@abc-klinker.de.







Features of our products



Frost-resistant



Environmentally friendly



Water absorption \leq 3 %





Colourfast



Standardized

Fire behavior: euroclass A1

Weatherproof



Graffiti removable





Flat roof tile Modena 11

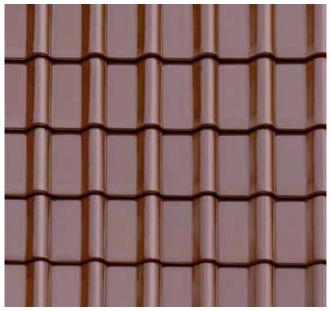






Copper-brown (Engobe)

Nut-brown (Engobe)





Amarena (Noble engobe)

Palisander-brown (Glaze)

Variations in colour, play of colours and proportions may be possible due to production/printing reasons.



Flat roof tile Modena 11





Basalt-grey (Noble engobe)



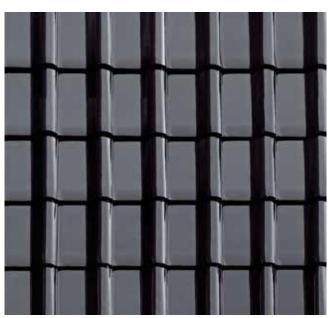
Slate-black (Engobe)



Graphite-metallic (Noble engobe)



Diamant-black (Noble engobe)



Brilliant-black (Glaze)

Variations in colour, play of colours and proportions may be possible due to production/printing reasons.



Flat roof tile Modena 11

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Advantages

Finest hard clinker quality

• slate clay - the best raw material

Adjustable gauge

• adjustable roof tile with batten spacing tolerance of 25 mm

Storm-proof

• every roof tile can have storm-proof fastening – easy, secure and cost-effective

Very economical

• with an average of only 11.5 roof tiles per m²

Harmonious roof appearance

• balanced roof appearance without disturbing joint lines

Fast and watertight

- easy, single-handed roofing installation
- waterproof 4-tile corner
- double head and side grooves
- rainfall resistance very good
- reinforced webs on the back side (walkable, even with low roof pitch)

Environmentally friendly

• no subsequent siliconisation

Low algae growth

• algae and moss like it damp - ABC clinker roof tiles with low water absorption of less than 3%

Low roof slope

• at roof slopes of 14° Modena 11 can be laid with a rainproof subroof

Technical Data

Gauge	34 - 36,5 cm
Recommended gauge	35,5 cm
Coverage width	232 - 23,8 cm
Recommended coverage width	23,5 cm
System dimensions verge tile left	14,5 cm
System dimensions verge tile right	17,5 cm
Requirement	11.1 10.3 units
Average requirement per m ²	approx. 11,5 units
Weight per unit	3,5 kg
Average standard weight	40,5 kg/m²
Standard pitch	18°
Water absorption	≤ 3%

The tile dimensions must be checked in accordance with DIN 1304 and the roofing rules of the German Roofing Trade Association before roofing.

Großhohlfalzziegel TG10



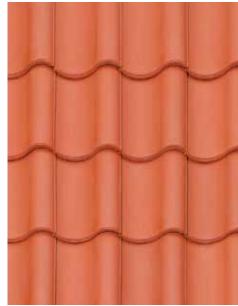


Copper-brown (Engobe)





Amarena (Noble engobe)



Nut-brown (Engobe)

Nature-red



Slate-black (Engobe)



Diamant-black (Noble engobe)

Variations in colour, play of colours and proportions may be possible due to production/printing reasons.



Großhohlfalzziegel TG10



Advantages

Finest hard clinker quality

• slate clay - the best raw material

Storm-proof

• every roof tile can have storm-proof fastening – easy, secure and cost-effective

Very economical

• with an average of only 10.5 roof tiles per m²

Harmonious roof appearance

• balanced roof appearance without disturbing joint lines

Fast and light

- easy, single-handed roofing installation
- uniquely low weight 3.8 kg/p. i. m.
- waterproof 4-tile corner
- double head and side grooves
- rainfall resistance very good
- reinforced webs on the back side (walkable, even with low roof pitch)

Environmentally friendly

• no subsequent siliconisation

Low algae growth

 algae and moss like it damp - ABC clinker roof tiles with low water absorption of less than 3%

Technical Data

Gauge	37,5 - 39 cm
Recommended gauge	38 cm
Coverage width	25 - 25,4 cm
Recommended coverage width	25,2 cm

System dimensions verge tile left	16 cm
System dimensions verge tile right	18 cm
Requirement per m ²	10,2 - 11 units
Average requirement per m ²	approx. 10,5 units

Weight per unit	3,8 kg
Average standard weight	39,9 kg/m²
Standard pitch	22°
Water absorption	≤ 3%

The tile dimensions must be checked in accordance with DIN 1304 and the roofing rules of the German Roofing Trade Association before roofing.

Hohlfalzziegel





Nature-red



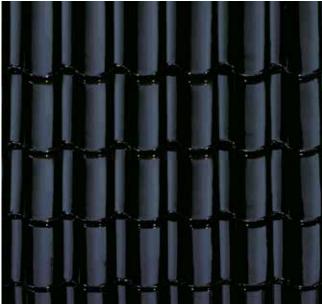
Copper-brown (Engobe)



Slate-black (Engobe)



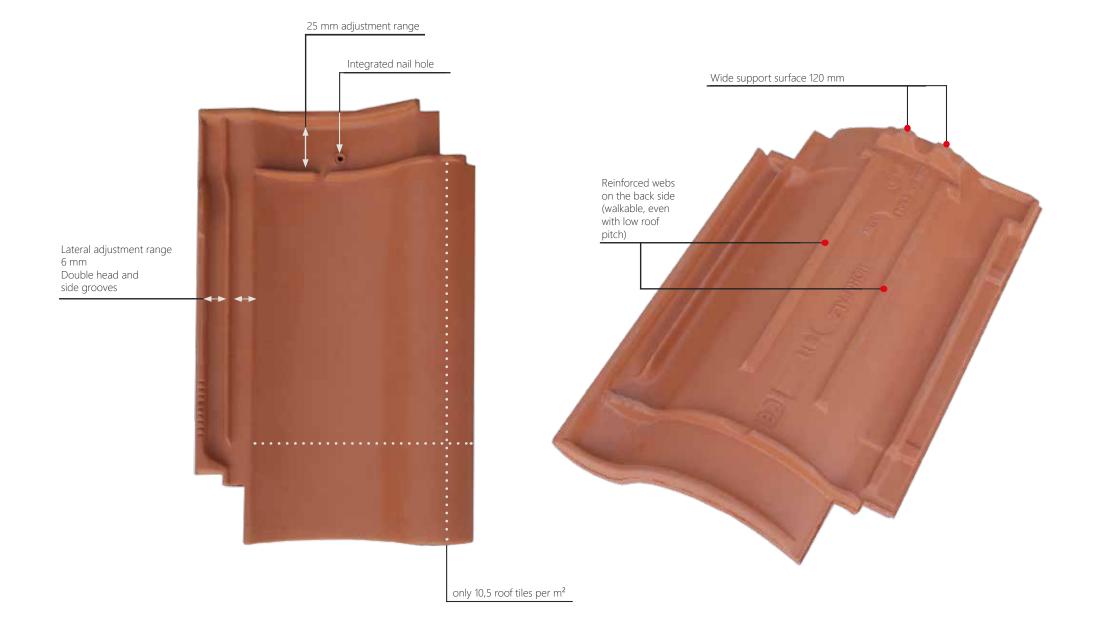
Diamant-black (Noble engobe)



Brilliant-black (Glaze)

Variations in colour, play of colours and proportions may be possible due to production/printing reasons.





Advantages

Finest hard clinker quality

• slate clay - the best raw material

Adjustable gauge

• adjustable roof tile with batten spacing tolerance of 25 mm

Storm-proof

• every roof tile can have storm-proof fastening – easy, secure and cost-effective

Very economical

• with an average of only 11.5 roof tiles per m²

Harmonious roof appearance

• balanced roof appearance without disturbing joint lines

Fast and watertight

- easy, single-handed roofing installation
- waterproof 4-tile corner
- double head and side grooves
- rainfall resistance very good
- reinforced webs on the back side (walkable, even with low roof pitch)

Environmentally friendly

• no subsequent siliconisation

Low algae growth

 algae and moss like it damp - ABC clinker roof tiles with low water absorption of less than 3%

Low roof slope

• at roof slopes of 14° Modena 11 can be laid with a rainproof subroof

Technical Data

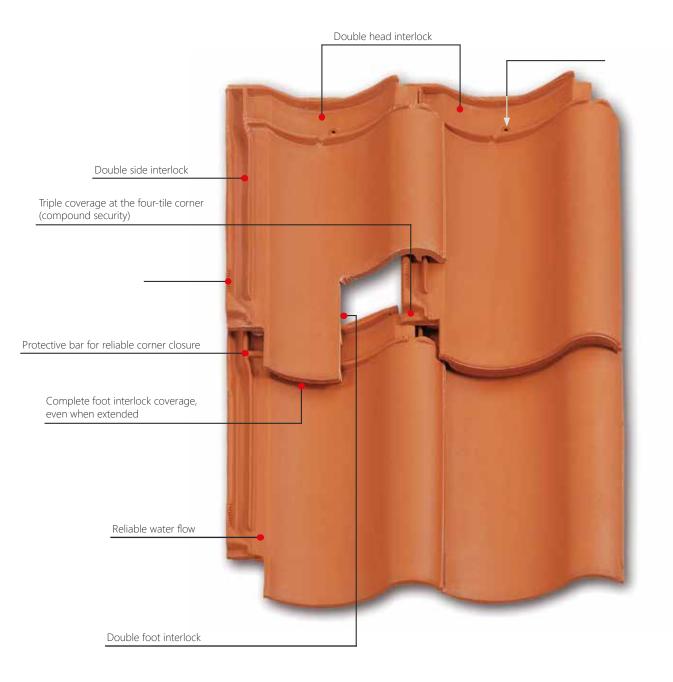
Gauge	32,5 - 35 cm
Recommended gauge	33,5 cm
Coverage width	22,1 - 22,7 cm
Recommended coverage width	22,4 cm

System dimensions verge tile left	13,5 cm
System dimensions verge tile right	17 cm
Requirement per m ²	12,5 - 13,8 units
Average requirement per m ²	approx. 13,5 units

Weight per unit	3,6 kg
Average standard weight	48,6 kg/m²
Standard pitch	22°
Water absorption	≤ 3%

The tile dimensions must be checked in accordance with DIN 1304 and the roofing rules of the German Roofing Trade Association before roofing.

Special features Hohlfalzziegel



Straight cut

Field of application

- optimises and preserves valuable historic building substance
- corresponds to the shape and profile of historic roof tiles
- system advantages of today's roof tiles
- variable cover length and triple overlap with optimum bond security are compatible with renovation of old buildings

The straight cut provides the typical laying pattern of a historic roof

- a straight edge can be seen at the lower end
- the front sealing rib of the roof tiles is offset upwards on the underside
- the overlapping area of the roof tiles visually floats above the roof tile surface









Quality of the clinker

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Clinker roof tiles



Concrete roof tile

Advantages of clinker roof tiles

- clinker roof tiles offer protection against algae, moss and lichen
- long life
- very high material density
- colour fastness and colour stability
- low water absorption

System components for roof tiles

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Variations in colour, play of colours and proportions may be possible due to production/printing reasons.

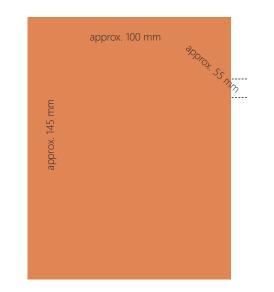
Ridge ventilator (semi-circle)	Ridge closure plate	Big ridge closure plate	Ridge ventilator starter tile	Ridge ventilator end tile	Ridge ventilator starter tile plus

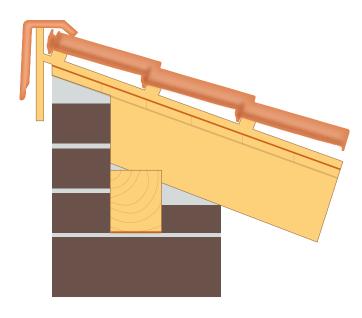




Universal shed roof ridge

Requirement: 3 units per linear metre







Additional measures¹

RDN 18°	RDN 22°	Additional requirements ² use · construction · climate conditions							
Modena 11	Hohlfalz, TG10	no additional requirement ²	one additional requirement ²	two additional requirements ²	three additional requirements ²				
≥ 18°	≥ 22°	class 6 sheathing	class 6 sheathing	class 5 overlapping/folded membrane	class 4 welded/blended membrane				
≥ 16°	≥ 18°	class 4 welded/blended membrane	class 4 welded/blended membrane	class 3 seam and perforation secured membrane	class 3 seam and perforation secured membrane				
≥ 14°	≥ 14°	class 3 seam and perforation secured membrane	class 3 seam and perforation secured membrane	class 3 seam and perforation secured membrane	class 2 rainproof sub-roof				
≥ 10°	≥ 10°	class 2 rainproof sub-roof	class 2 rainproof sub-roof	class 1 waterproof sub-roof	class 1 waterproof sub-roof				

¹ The additional measures listed in the table are minimum measures and refer to the regulations in Germany by the German Roofing Trade DDH. ² For particularly high requirements and / or special local regulations a higher-value additional measure is to choose. (Instruction sheet for sub-roofs, sub-coverings, sub-spanings, Table 1, DDH trade rules). Generally higher-value additional measures can also be used instead of the minimum measures.

The minimum roof slope under rules of the Central Association of the German Roofing Trade ZVDH for roof tiles is 10 degrees.

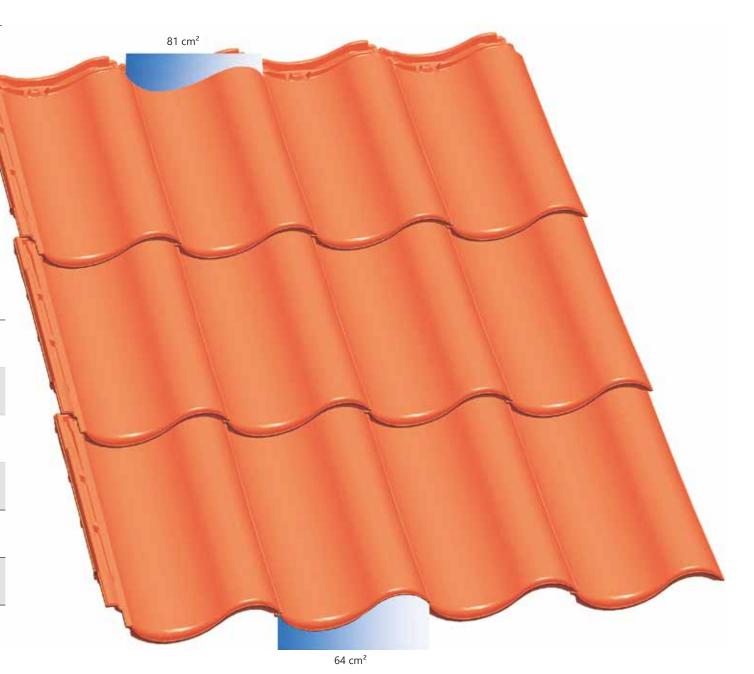
Eave and ridge ventilation

Ventilation system

Our roof tile models have the following minimum ventilation cross sections per meter of eaves and ridge.

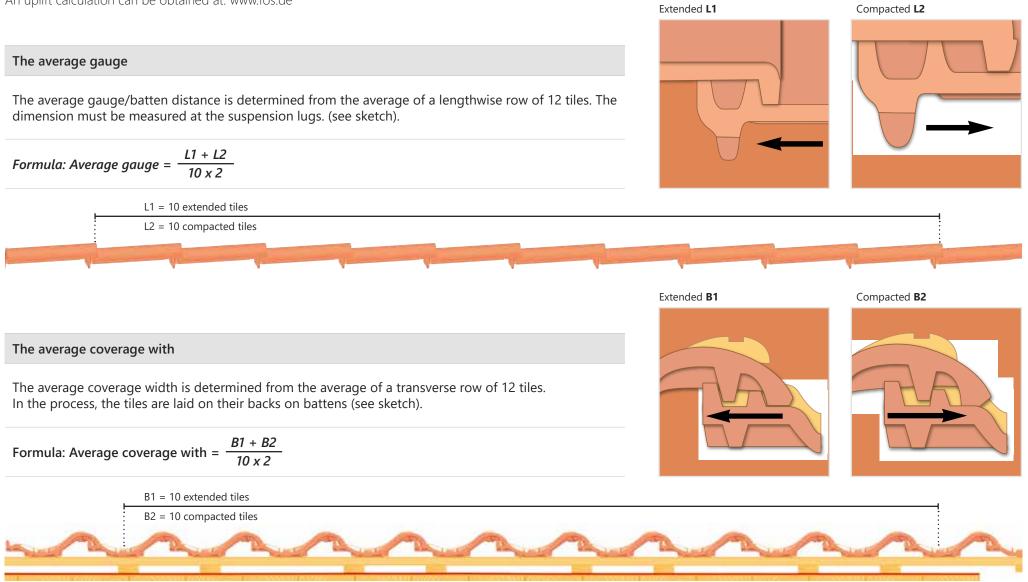
Ventilation cross-section in cm²

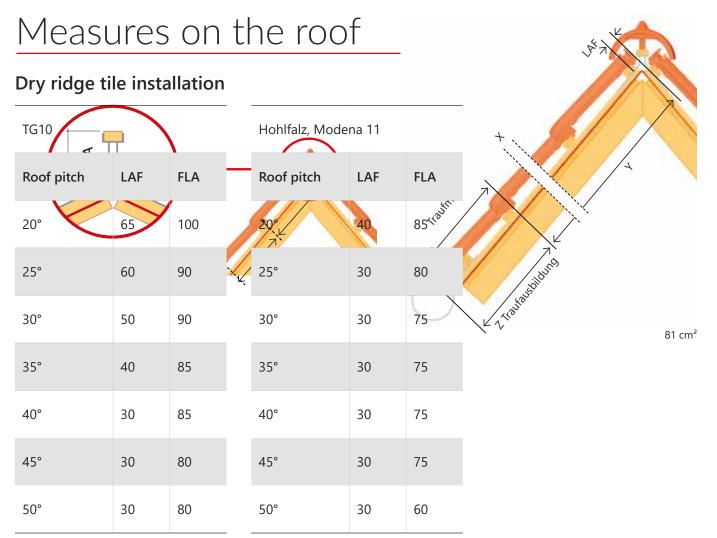
	per tile		per metre			
	Eave	Eave Ridge Eave				
TG10	64	81	256	324		
Hohlfalz	46	59	202	260		
Modena 11	46	59	202	260		



Wind zones and clips

For proper clipping of roof tiles, please check the roof installation in accordance with the trade rules of the German Roofing Trade Association. An uplift calculation can be obtained at: www.fos.de





LAF = batten distance from ridge intersection

FLA = ridge batten distance from ridge intersection

Exact dimensions based on the tiles must be determined on site!

Roof length

The following values are required to divide up the roof length:

X = leading eaves edge to ridge apex

Y =length of roof to be divided

Formula: Y = X - Traufmaß - LAF

The eaves dimension should be calculated on site based on the construction!

Eaves

 $Z = TG10 \cdot 415 \text{ mm}$ $Z = Holhlfalzziegel \cdot 400 \text{ mm}$ $Z = Modena 11 \cdot 410 \text{ mm}$

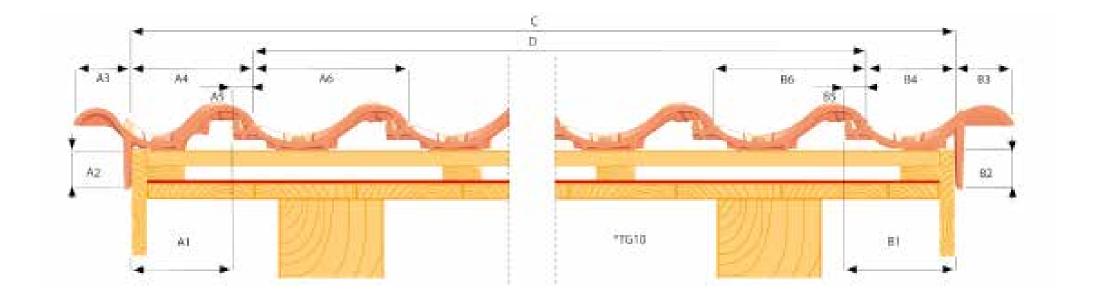
Roof width

The following values are required to divide up the roof length:

- A1 = left-hand verge offset B1 = right-hand verge offset
 - C = roof width

Formula: D = C - A1 - B1

D = roof width to be divided



Measures of the sketch in mm												
	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	В5	B6
TG10	160	60	105	195	40	252	180	60	105	140	40	252
Hohlfalz	135	60	110	190	50	224	170	60	110	120	50	224
Modena 11	145	55	100	185	45	235	175	55	100	130	45	235

Our product range













Facing bricks

Brick slips

ABC-NORDIC®

Clay pavers

Clinker roof tiles

Floor ceramics



























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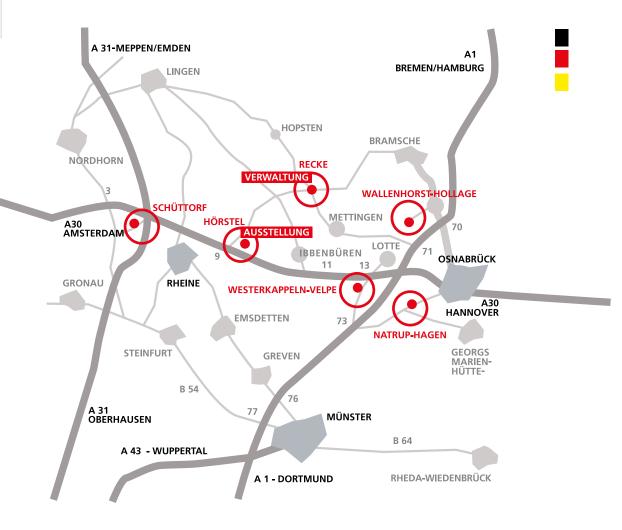
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