

From clay. From concrete. From experience.

NELSKAMP

NIBRA[®] plain clay tile



Nibra[®]



The NIBRA® plain clay tile.



NIBRA® plain clay tile 18/38



NIBRA® "Berliner" plain tile 15.5/38



Plain clay tiles are amongst the oldest and most popular clay roof tiles.

We have transformed the different laying possibilities into a broad range of products.

Tiles with a circular and segment cut offer a wide scope for the individual design of old and new houses.

Plain clay tile in detail:

- Pressed roof tile according to DIN/EN 1304 with far better quality requirements than required
- Waterproof, frost-resistant, breathable
- Regular roof pitch 30°



NIBRA® tiles are manufactured from Westerwald clay in a ceramic quality. The correspondingly low water absorption of below 3 % and extreme resistance to frost are preconditions for the long life of NIBRA® tiles.

Plain clay tile roofing



Double-lap



Crown-tiles



The Colours.



(01) natural red



(02) red engobed



(03) old colours engobed



(04) brown engobed



(18) black noble engobed
(matt black glazed)

Colour deviations: Our clay roof tiles are environment-friendly building materials. When using natural raw materials you may experience colour deviations. This is often the case with naturally red tiles since the fired colour is the sole result of natural raw materials with no added metal oxides to change the colour. Deviations are possible in the colours for reasons of printing methods.

Clay roof tile surfaces: Minor impairments to the surface are possible due to transport. This does not affect the quality of the tiles.

Laying the NIBRA® plain clay tile.

Technical data

Roof tile	NIBRA® plain clay tile 18/38
Roof tile	NIBRA® "Berliner" plain tile 15.5/38
Manufacturer	Nelskamp (D)
Overall length	~ 138.0/238.0 cm
Requirement per m ²	~ 136/242 pieces
Weight per tile	~ 12.0/21.6 kg
Weight per m ²	~ 172.0/267.2 kg
Regular roof pitch	30°
Tile clip	415c° 07 for laths 24 x 48 cm 415c° 08 for laths 30 x 50 cm 415c° 09 for laths 40 x 60 cm

¹ Plain clay roof tile 18/38

² "Berliner" plain tile 15.5/38

Laying!

The following applies when laying our clay roof tiles:

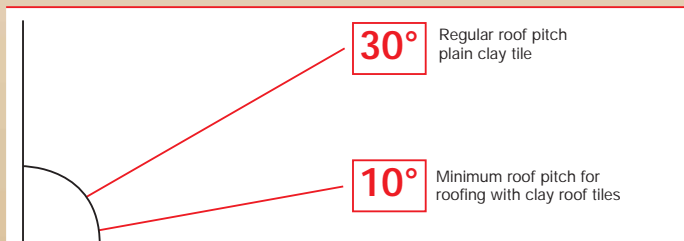
1. The NELSKAMP manufacturer's instructions take priority (laying instructions)
2. The specialist rules of the roofing trade (rules for coverings with clay roof tiles)
3. The German Construction Contract Procedures (VOB) (clay roof tile cover)

Material requirements for coverage

Laths	~ 6.8 m/m ² (incl. 10% waste)
Counter-laths	~ 1.7 m/m ² (incl. 10% waste)
Plain tile	~ 136/242 pieces/m ²
Packing unit*	
Tiles per pallet	1400/2500 pieces
Half plain tile, divisible	as required, ~ 3.0 pieces/m
Plain verge tile (only possible with double-lap)	~ 6.5 pieces/m (divided up into: 3.2 pieces/m 3/4 and 3.2 pieces/m 1 1/4)
Plain walking grid tiles	as required
Plain walking grid tile with alu step	as required
Standard ridge tile	~ 2.5 pieces/m
Large plain ridge tile	~ 3.0 pieces/m
Small plain ridge tile	~ 4.0 pieces/m
Copper roll/Alu roll 2000 (5 m per roll)	as required
Ridge/crest clip 470°/41	1.0 piece per standard ridge
Ridge/crest clip 470°/135	1.0 piece per small plain ridge
Ridge/crest clip 470°/150	1.0 piece per large plain ridge
Wood screws	1.0 piece per ridge tile d = 4.5 mm Screw depth: 24 mm
Ridge or crest initial tile	1.0 piece per ridge or crest start
Ridge end tile	1.0 piece per ridge end
Ridge lath holder	1.0 piece per rafter
Crest lath holder	1.0 piece/ ~ 70 cm
Eaves fresh air element	~ 1.1 piece/m Fresh air ~ 200 cm ² /m

* only applies for deliveries in Germany

Regular roof pitch for clay roof tiles



If the pitch is below the regular roof pitch the additional measures of the roofing trade rules must be carried out (cf. table).

With equivalent roof substructure alternatives: pay attention to the manufacturer's and laying instructions. Warranty must be assumed by the relevant manufacturer.

Classification of additional measures except for subordinate buildings ¹⁾ according to the technical rules of the German roofing trade, last revised January 2010

Roof pitch	Higher requirements ²⁾			
	Use - Design - Climatic conditions			
	no further increased requirement ²⁾	one further increased requirement ²⁾	two further increased requirement ²⁾	three further increased requirement ²⁾
≥ 30°	Class 6 3.3 Underlayment (USB- A) ⁴⁾	Class 6 3.3 Underlayment (USB- A) ⁴⁾	Class 5 2.4 Overlapping / interlocking undercover (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾	Class 4 2.2 Welded / bonded undercover 2.3 Undercover covered with bitumen sheeting 3.2 Underlayment secured at seams (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾
≥ 26°	Class 4 2.2 Welded / bonded undercover 2.3 Undercover covered with bitumen sheeting 3.2 Underlayment secured at seams (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾	Class 4 2.2 Welded / bonded undercover 2.3 Undercover covered with bitumen sheeting 3.2 Underlayment secured at seams (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾	Class 3 2.1 Undercover secured at seams and perforations 3.1 Underlayment secured at seams and perforations (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾	Class 3 2.1 Undercover secured at seams and perforations 3.1 Underlayment secured at seams and perforations (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾
≥ 22°	Class 3 2.1 Undercover secured at seams and perforations 3.1 Underlayment secured at seams and perforations (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾	Class 3 2.1 Undercover secured at seams and perforations 3.1 Underlayment secured at seams and perforations (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾	Class 3 2.1 Undercover secured at seams and perforations 3.1 Underlayment secured at seams and perforations (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾	Class 3 2.1 Undercover secured at seams and perforations 3.1 Underlayment secured at seams and perforations (UDB- A; UDB- B ⁵⁾ ; USB- A) ⁴⁾
≥ 18°	Class 2 1.2 Rainproof roof substructure	Class 2 1.2 Rainproof roof substructure	Class 1 1.1 Waterproof roof substructure	Class 1 1.1 Waterproof roof substructure
≥ 10°	Class 1 1.1 Waterproof roof substructure	Class 1 1.1 Waterproof roof substructure	Class 1 1.1 Waterproof roof substructure	Class 1 1.1 Waterproof roof substructure
MRP	10°			

¹⁾ The additional measures named in the table are minimum measures taking into account table 1 of the "Leaflet for roof substructures, undercovers, underlays".

²⁾ Higher requirements form categories in accordance with Section 1.1.3. Further higher requirements may result from the weighting within a category according to Section 1.1.3. For example, climatic conditions can lead to several higher requirements.

³⁾ Only allowed if proof has been rendered of the functional reliability of the products used including accessories (sealing tapes, adhesive tapes, sealing compounds, ready-made seam protection, etc.) by the manufacturer during a driving rain test. The next highest class should otherwise be chosen.

⁴⁾ Undercover plates are to be assigned according to the classification in the "Leaflet for roof substructures, undercovers and underlays".

⁵⁾ If indices 2), 3), 4), 5) in the product data sheet are met:

2) Resistance to driving rain, proven by the "Driving rain test underlay and undercover sheets - TU Berlin"

3) Higher requirements on ageing are proven by increasing the temperature in the test method Appendix C 5.2 of DIN EN 13859- 1 to 80 °C.

4) The manufacturer specifies the duration of the outdoor weathering period whilst warranting the aforementioned properties.

5) The manufacturer confirms the suitability as a provisional cover and specifies the duration of the outdoor weathering period whilst warranting the aforementioned properties.

Ridge design

Roof design: rafters, barrier sheet, counter-lath, lath, ridge lath

Rafter pitch		30°	35°	40°	45°	50°	60°
FS (dry laying)	LAF	90	90	85	80	80	-
FG (dry laying)	LAF	90	90	95	100	100	105
FK (mortared)	LAF	65	60	55	45	40	-

FLA = To be determined by customer
 LAF = Lath distance to ridge crown
 FS = Standard ridge tile ~ 2.5 pce./m
 FG = Large ridge tile ~ 3.0 pce./m
 FK = Small ridge tile ~ 4.0 pce./m

The dimensions are planning figures and should be checked before laying.

Suggested designs

Double-lap pattern with plain tile $\frac{1}{1}$ and $\frac{1}{2}$

Double-lap with verge tile $\frac{3}{4}$ and $1\frac{1}{4}$

Crown-tiles (verge tile on request)

Ridge tile laying and storm protection

Plain ridge tile, dry laying

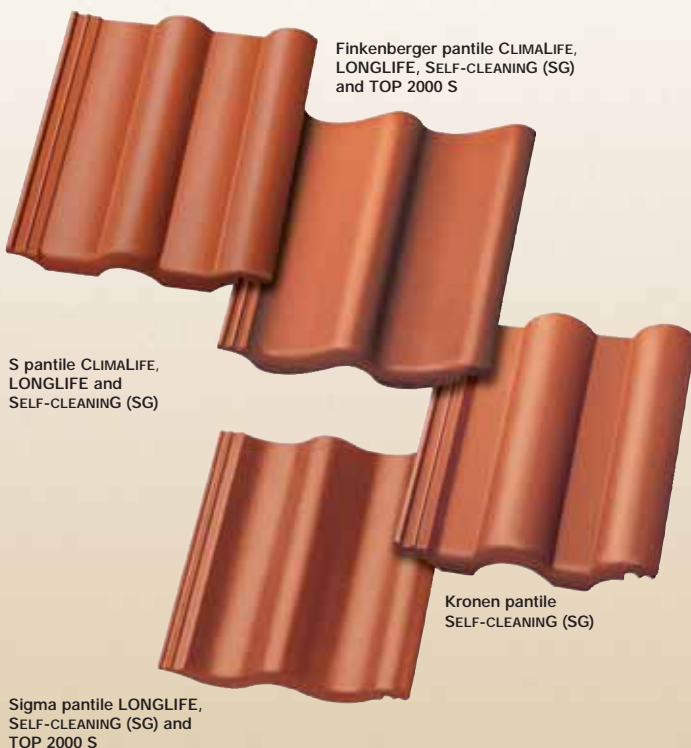
Storm protection with plain tile clip 415c®, 1-part for laths 24 x 48 or 30 x 50 or 40 x 60 for roofs with roof substructure.

On the NELSKAMP data service CD
or as a download on the Internet from
www.nelskamp.de

- Product specifications
- Laying instructions
- CAD data



For colourful, clean roofs. The Nelskamp concrete roofing tile program.



CLIMALIFE concrete roofing tiles

With their ClimaLife surface our roof pantiles clean our environment from contaminants resulting from heating, traffic and the industry. Up to 90 percent are neutralized in daylight, without sunlight up to 70 percent. This is due to the titanium oxide content in the micro concrete. It mainly converts nitrogen oxides (NO_x) into harmless substances like NO₃⁻. Again and again, because titanium oxide is a catalyst, which is never used up. The rain does the rest: It just flushes away the substances, which then are harmless.

LONGLIFE concrete roofing tiles

The leading technology of LONGLIFE concrete roofing tiles is based on the smooth surface of micro-concrete and a newly developed, silk-gloss colour coating. Both factors ensure clean roofs with long-lasting, intensive colours. The reason: dirt is washed off by rain and moss or algae find almost no base for growth.

SELF-CLEANING (SG) concrete roofing tiles

SG = Self-cleaninG concrete roofing tiles are also supplied with the newly developed colour coating. Moss and algae find almost no base for growth on the surface.

TOP 2000 S concrete roofing tiles

High-quality raw materials, the latest production methods and established coating technologies with numerous standard and special colours are characteristic of TOP 2000 S concrete roofing tiles.



Concrete roofing tiles and clay roof tiles from Nelskamp. The obvious solution.

Our strategically placed production facilities guarantee that our roof building materials are always well received. Six plants throughout Germany are the sound, logistical basis for co-operation and help spare the environment.

Administration and sales

Waldweg 6 · D-46514 Schermbeck
Postfach 11 20 · D-46510 Schermbeck
Phone: +49 28 53/91 30-0
Fax: +49 28 53/37 59
Email: vertrieb@nelskamp.de
Internet: www.nelskamp.de

Production of concrete roofing tiles

Gartrop Works
Gahlener Straße 158
D-46569 Hünxe-Gartrop
Phone: +49 28 53/91 30-31/32
Fax: +49 28 53/45 59

Dieburg Works
Lagerstraße 30
D-64807 Dieburg
Phone: +49 60 71/98 64-0
Fax: +49 60 71/16 73

Schönerlinde Works
Schönerlinder Bahnhofstraße 6
D-16348 Wandlitz
Phone: +49 30/94 03 91-0
Fax: +49 30/94 12 20 4

Production of clay roof tiles

Schermbeck Works
Waldweg 6
D-46514 Schermbeck
Phone: +49 28 53/91 30-23/17
Fax: +49 28 53/26 70

Unslieben Works
Wechterswinkler Straße 23
D-97618 Unslieben
Phone: +49 97 73/9 10 10
Fax: +49 97 73/7 49

Groß-Ammensleben Works
Magdeburger Straße 42
D-39326 Groß-Ammensleben
Phone: +49 3 92 02/88-6
Fax: +49 3 92 02/88 80 2

From clay. From concrete. From experience.

NELSKAMP