

Ergoldsbacher **Plain Tile**

Technical Details

PRODUCT SHEET

ERLUS 

Quality made in Germany

Ergoldsbacher Plain Tile – a historical shape for distinctive properties

The Ergoldsbacher plain tile plays an important role when it comes to the preservation of historical monuments. And because standard sizes or solutions can rarely be used here, ERLUS offers readily available custom-made commodities in consistent top quality. With it, ERLUS plain tile manufacture encompasses one of the largest ranges of plain tile in the industry. This historical tile can also provide an exciting contrast in new construction projects as well though, particularly as the classic tile is available in numerous colours and profiles.

Economical

barge board (3 tiles/m.), ridge type without groove vents for ridge 2 or ridge 19

Also available sintered

Very good proofing against drifting snow
(no convex plain tiles)

Particularly robust and shatter-resistant

e.g. hail resistance class 5 for the 18 mm-thick church plain tile

Countless surfaces and profiles from the ERLUS plain tile manufacture

Complete accessories including aluminium accessories from one source

Different verge tile solutions

6er, 3er, $\frac{3}{4}$, $1\frac{1}{4}$

Wide range of colours





Technical data

Size:

18,0 x 38,0 x 1,5 cm ± 2%

Gauge: each from 30 °

Double formation: 14,5 - 16,5 cm

Crown formation: 29,0 - 33,0 cm

Average cover width:

approx. 18,0 cm ± 2%

Quantity required per m² (double/crown formation):

33,7 – 44,5 pcs, quantity depends on cover and format

Real weight without battens:

approx. 69 - 71 kg*

Weight per m² in accordance with DIN 1055 incl. battens:

approx. 0,75 kN/m²

Real weight without battens:

approx. 0,53 kN/m²

Pallet capacity:

512 tiles

Pallet weight:

approx. 1.040 kg

Bundle capacity:

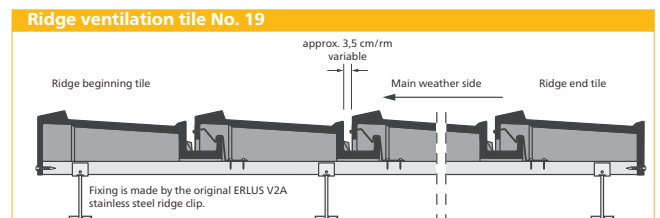
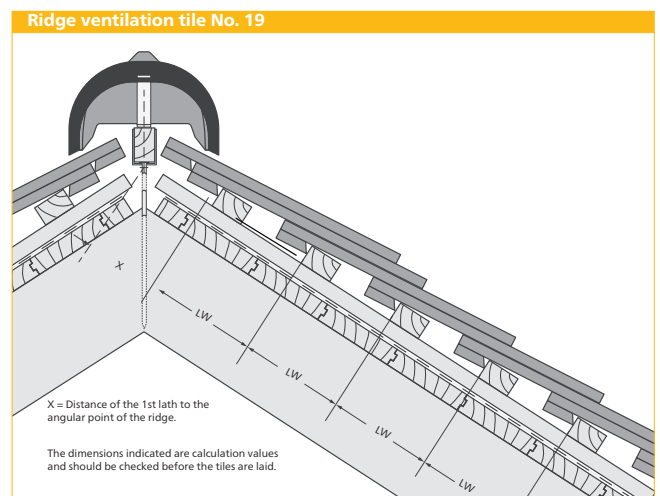
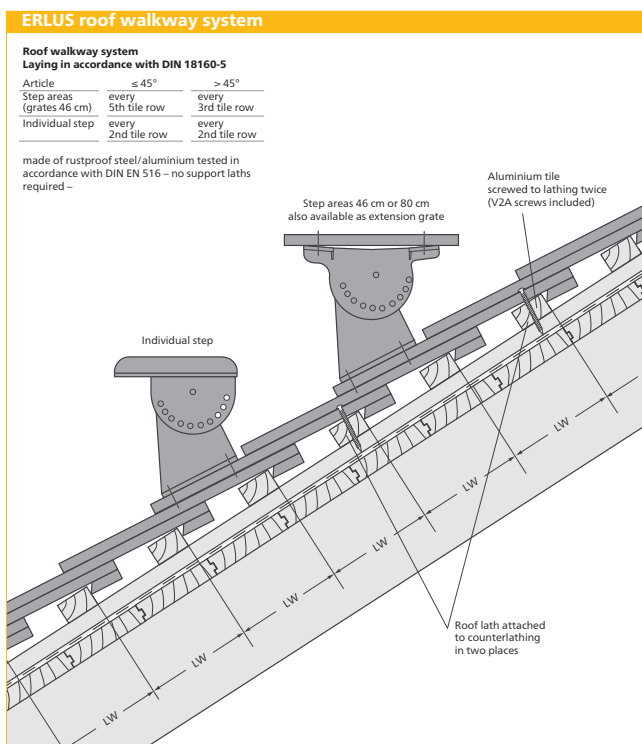
8 tiles

Hail resistance class:

4 (Church Beaver: HRC 5)

* for 1,5 cm thickness

For details of special designs, e.g. segment cut, straight cut, gothic cut, church plain tiles (approx. 1.8 - 2.4 cm thick), roughened finishes, undulated tiles, brushed finishes etc., please see the price list. On request, we offer products customised to suit the property, such as glazes, for example.



Distance between the 1st lath and the angular point of the ridge

X (distance) in mm	Plain Tile										Sinter Plain Tile											
	10	15	20	25	30	35	40	45	50	55	60	10	15	20	25	30	35	40	45	50	55	60
Ridge tile No. 1	–	–	–	–	65	60	55	45	40	–	–	–	–	–	–	65	60	55	45	40	–	–
Ridge tile No. 2	90	90	80	80	80	80	75	70	70	65	65	90	90	80	80	80	80	75	70	70	65	65
Ridge tile No. 15	100	100	100	90	90	90	90	90	90	–	–	–	–	–	–	–	–	–	–	–	–	–
Ridge ventilation tile No. 15	100	100	100	90	90	90	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Ridge ventilation tile No. 19	100	100	90	80	80	80	80	85	90	90	100	100	100	90	80	80	80	80	85	90	90	100
Ridge tile No. 21	100	100	90	80	80	80	80	70	70	65	60	–	–	–	–	–	–	–	–	–	–	–

* fixed with mortar

Table battens

Roof pitch in °	< 30°	> 30° – ≤ 35°	> 35° – ≤ 40°	> 40° – ≤ 45°	> 45° – ≤ 60°	> 60°
Minimum overlap:	9,0 cm	9,0 cm	8,0 cm	7,0 cm	6,0 cm	5,0 cm
Double formation:	14,5 cm	14,5 cm	15,0 cm	15,5 cm	16,0 cm	16,5 cm
Crown formation:	29,0 cm	29,0 cm	30,0 cm	31,0 cm	32,0 cm	33,0 cm

Assignment of additional measures for the Ergoldsbacher Plain Tiles

According to the Central Association of German Roofers' pamphlet on sub-roofs, sub-coverings and under-bracings, and the basic regulations of the Roofers' Guild, regular roof pitch 30°, minimum roof pitch Plain tile 18°/Sinter Plain tile 10°, according to the state of technology.

Increased demands due to

Use: of the attic level, especially for residential purposes (residential use equals two increased demands)

Construction: special roof shapes (e.g. butterfly roof), long spar lengths (longer than 10 meters), heavily structured roof shapes (e.g. due to valleys, gables, etc.)

Climate situation: exposed locations, extreme locations, areas with a lot of snow, special weather situations, areas with a lot of wind

Technical installations: On-roof or in-roof systems, air-conditioning systems, antenna systems, roof access systems, rooflight/skylight systems, snow guard systems, etc.

Classification

Class 1: Waterproof sub-roof (1.1.)

Class 2: Rainproof sub-roof (1.2.)

Class 3: Seam and perforation secured under-bracing (2.1.)
Seam and perforation secured sub-covering (3.1.)

Class 4: Welded or glued sub-covering (2.2.)
Coated under-bracing made of strips of bitumen (2.3.)
Seam-secured sub-covering (3.2.)

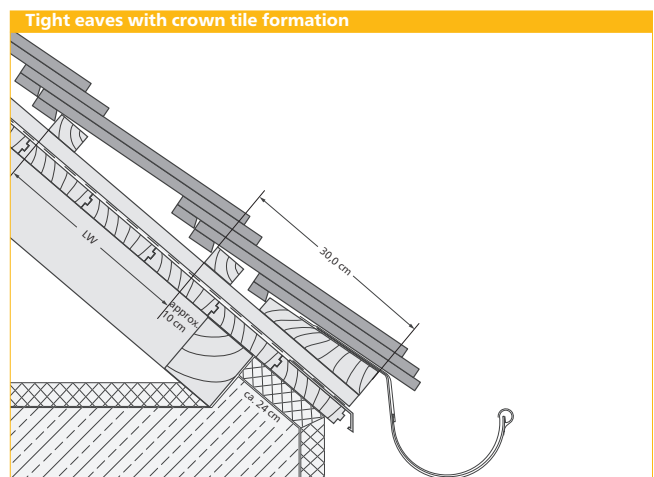
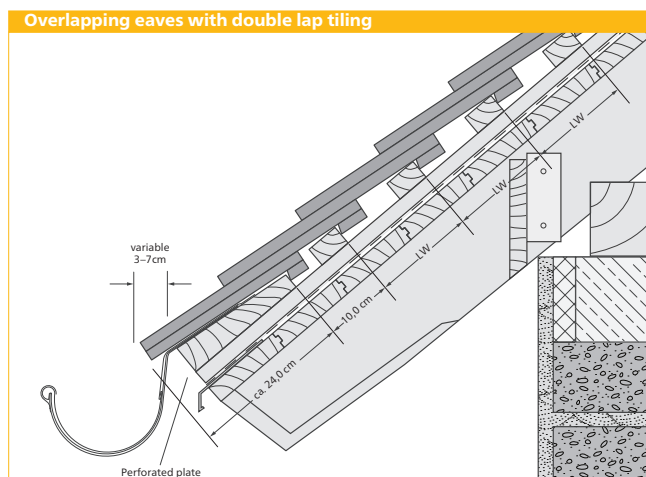
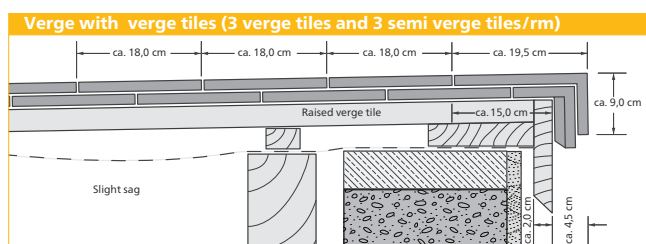
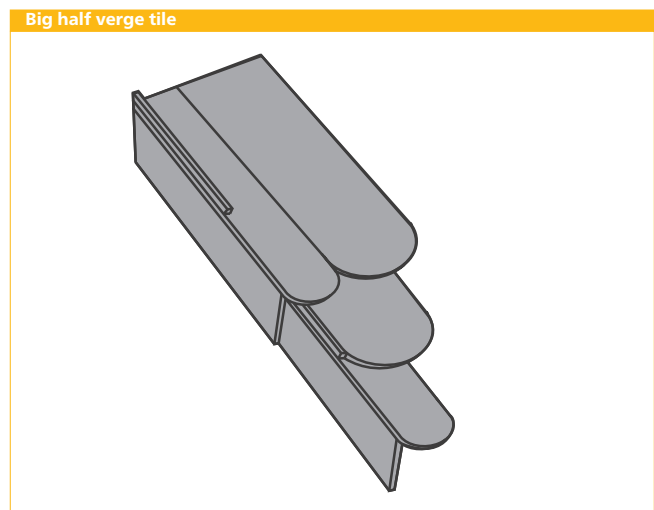
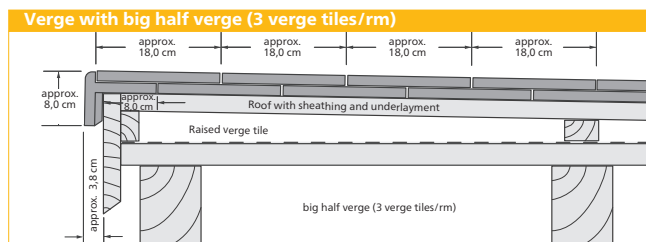
Class 5: Overlapped / tongue in groove sub-covering (2.4.)

Class 6: Under-bracing (3.3.)

Definition of sub-roof's type to use

Roof pitch	No further increased demands*	One further increased demand*	Two further increased demands*	Three further increased demands*
≥ 30°	Class 6	Class 6	Class 5	Class 4
From < 30° to ≥ 26°	Class 4	Class 4	Class 3	Class 3
From < 26° to ≥ 22°	Class 3	Class 3	Class 3	Class 3*
From < 22° to ≥ 18°	Class 2	Class 2	Class 1	Class 1
From < 18° to ≥ 10°	Class 1	Class 1	Class 1	Class 1

* The additional measures listed in the table are minimum measures under consideration of Table 1 in the pamphlet on sub-roofs, sub-coverings and under-bracings. Sub-covering panels are to be assigned according to the classification in the pamphlet on sub-roofs, sub-coverings and under-bracings. Increased demands make up categories according to chapter 1.1.3. Further increased demands can arise out of the weighting within a category according to 1.1.3. For example, climate situations can result in several increased demands. Only permitted if the manufacturer provides proof of the functionality and safety of the products used, including accessories (sealing tapes, sticky tapes, sealing compounds, pre-assembled seam securing, etc.), as part of a deluge test and 24-hour rain test on a roof pitch of 15°. Otherwise, the next class up is to be selected. Any limitations noted by the manufacturer are to be taken into account. See the product data information sheet for instructions regarding protection against perforation. These can be used for classes 3 to 6.



Plans above are not drawings to scale. To help with planning, you can download all the drawings as CAD drawings from the Internet at www.erlus.com. We recommend using an eaves flashing.

ERLUS Plain tile manufacture – great variety for cultural heritage management

On request, we can produce special cuts, thicknesses and surfaces for individual properties. Here are a few examples:



Round Cut



Segment Cut



Straight Cut



Straight Cut with rounded corners



Basket Cut



Pointed plain with 3 grooves



Rautenspitz



Gothic



Pointed



Amberg Style



Augsburg Style



Berliner Style



Segment Cut with 4 ribs



Hoyerswerda Style



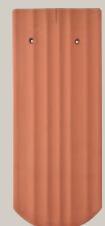
Beuerberg Style



Historic "Heilig Kreuz"



Small Cathedral



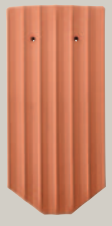
Potsdam Style



Saxon-Berlin tile with 3 ribs



Wasserburg Style



Blunt nose point



"Schiffsmeisterhaus"



"Wappenbiber"



Brushed



Hand Cut Plain



Roughened



Segment Cut with grooves

Like all Ergoldsbacher clay roof tiles, the **Ergoldsbacher Plain Tile** exceeds the quality requirements set out in the DIN EN 1304 roof-tile norm, the Ergoldsbacher Sinter Plain Tile even meets the requirements of the DIN 105, Part 4 for ceramic klinker. Ergoldsbacher roof tiles are natural building materials through and through. This is also evident from the fact that the individual tiles display slight variations in colour.

Given that the regulations and roofing traditions vary throughout Europe, our manufacturer's instructions should be given priority when you lay the tiles. Additional measures for wind protection should generally be carried out in accordance with current local regulations. To this end, two screw holes are provided on the standard tile (RS). Flexible, time-saving storm protection is possible with the ERLUS B1 plain tile storm clips, which vary according to tile thickness.

The sizes and weights given are nominal values. Owing to changes in the raw materials and varying shrinkage characteristics, it is not always possible to prevent deviations. It is therefore advisable to check the dimensions of the roof before laying the tiles.

Occasional imperfections are an inherent part of the production/transportation process and do not affect the quality of the roof tiles.

Ergoldsbacher Plain tiles – Product range



Standard tile



1/2 plain tile (separable)



3/4 Plain tile



1 1/4 Plain tile



Verge tile left



Verge tile right



1/2 Verge tile left



1/2 Verge tile right



Big 1/2 Verge tile left



Big 1/2 Verge tile right



Ridge connection tile



Eave tile



Biber groove ventilation tile ¹⁾



Ventilation tile (Froschmaul) ²⁾



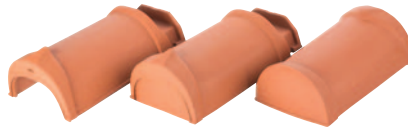
Ridge tile No. 1



Ridge tile No. 2



Ridge tile No. 15 ³⁾



Ridge ventilation tile No. 19 ³⁾

1) Size approx. 18,0x38,0x2,2cm, ventilation cross section 55 cm²/m, approx. 10 cm²/pce., groove vents are only possible with straight bond, depending on thickness

2) Ventilation cross section 14 cm²

3) Recommended for a fully ceramic roof ventilation system with rafters up to 10 m in length

4) Ø 125 mm, ventilation cross section = 122 cm²

5) With basic tile

6) Double plain

7) Ø 58 mm



Aluminium sanitary ventilator ^{4) 5) 6)}



Aluminium solar outlet ^{5) 6) 7)}



Aluminium solar panel holder ⁵⁾



Aluminium aerial ^{5) 6)}

The following accessories are also available:

- ERLUS Aluminium roof walkway system (coated)
- ERLUS Aluminium snow-guard system (coated)
- Ceramic sanitary ventilation
- ERLUS Universal storm clips in accordance with DIN EN 14437
- Ridge clips

You can find the whole available accessories under www.erlus.com/biberschwanzziegel/lieferprogramm !

Ergoldsbacher Plain tile – Colour range



Natural red



Red



Copper brown



Brazil brown



Anthracite



Historic



Maroon



Diamond black



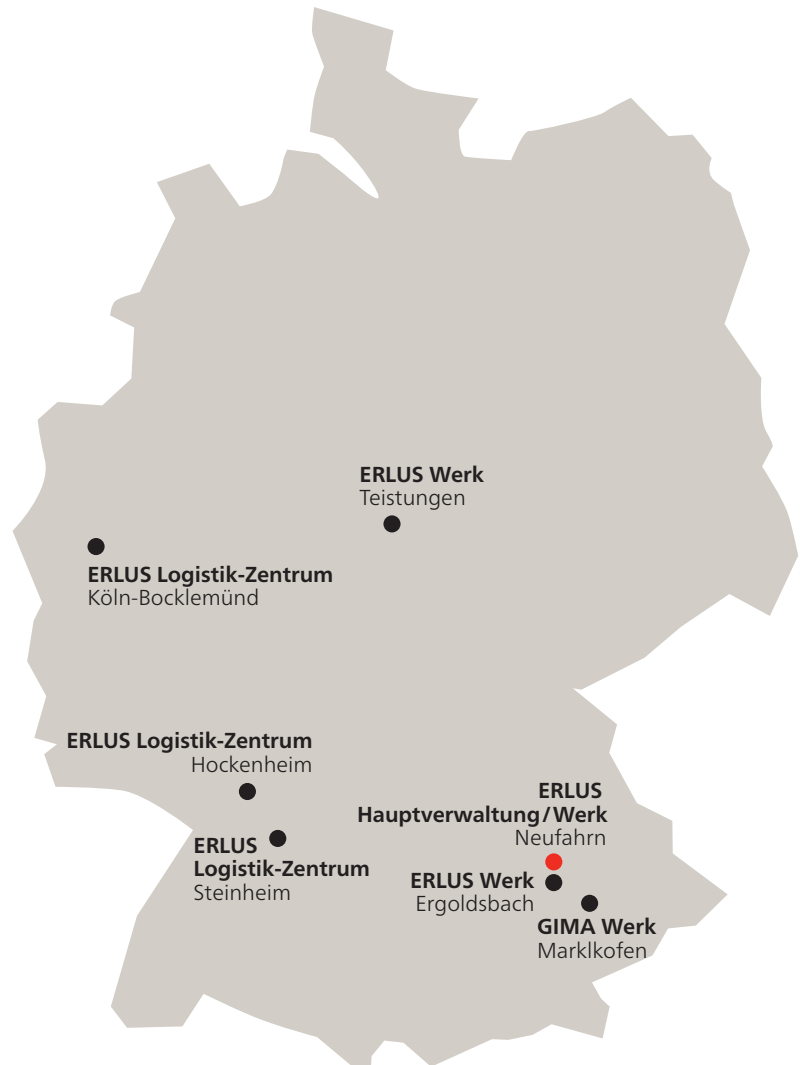
Sinter Plain Tile Sinter red



Sinter Plain Tile Siena

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