

Ergoldsbacher **Großfalzziegel**

Technical Details

PRODUCT SHEET



ERLUS 

Quality made in Germany

The Ergoldsbacher Großfalzziegel – the traditional interlocking tile covering a 20 percent larger surface area

It's true that the shape of the Ergoldsbacher Großfalzziegel is based on its historic role model, the Ergoldsbacher Falzziegel (interlocking tile), but it covers 20 percent more surface area, so it adapts very well to fit renovation requirements. With a displacement range of 16 mm, it is easy to lay, very flexible, and easy to handle. One of the distinctive features of its shape is its high rib, which separates the interlocking joint from the deep channels which the water flows through: it also adds to the proofing against rain or drifting snow getting in.

Ideal renovation tile
(16mm displacement range)

Extensive accessories
including aluminium accessories from one source

Standard roof pitch 25°
according to roofing regulations

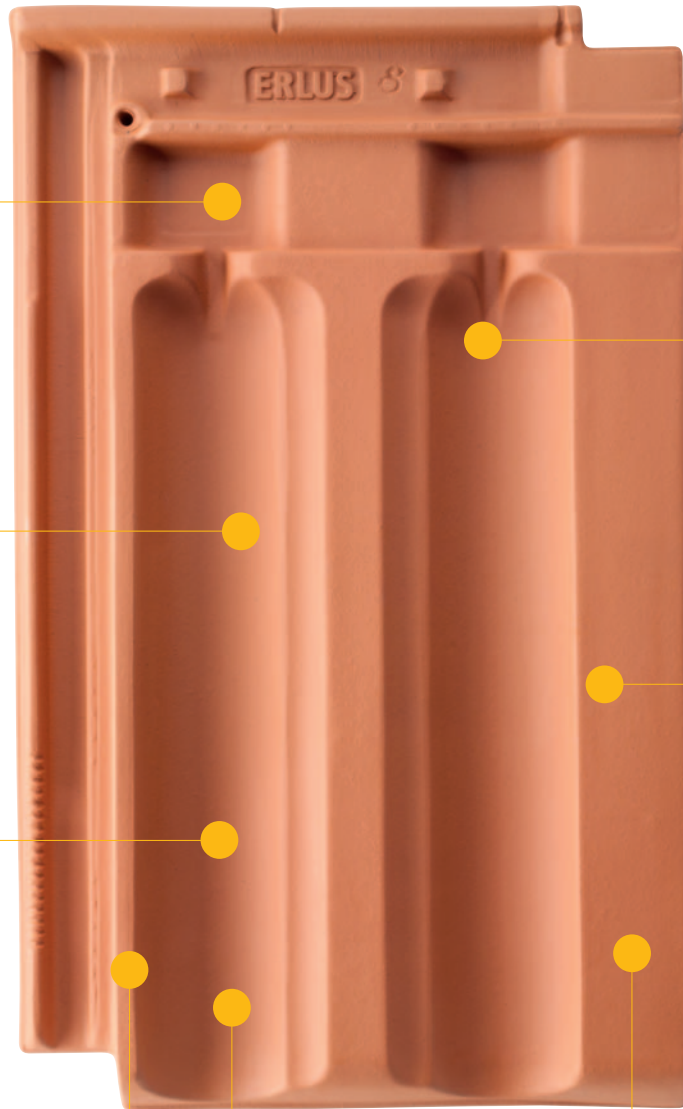
High single interlocking joint with rods
(hence less dirt)

Excellent raintightness and stormproofing
with cross bond tiling

Easy to handle
3.6 kg per tile, can be laid with one hand

Gauge class 34.0 cm

Profitable
approx. 12,5 pcs./m², fully ceramic ridge ventilation constructions without ridge connection tile or other system parts for rafters up to 12m long





Technical data

Size:

Gauge:

Average cover width:

Quantity required per m²:

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

Real weight without battens:

Pallet capacity:

Pallet weight:

Bundle capacity:

Hail resistance class:

Gauge class:

approx. 26,0 x 43,0 cm

approx. 33,5 - 35,1 cm

approx. 22,4 cm

approx. 12,5 tiles

approx. 0,55 kN/m²

approx. 0,46 kN/m²

224 tiles

approx. 870 kg

4 tiles

4

34,0 cm

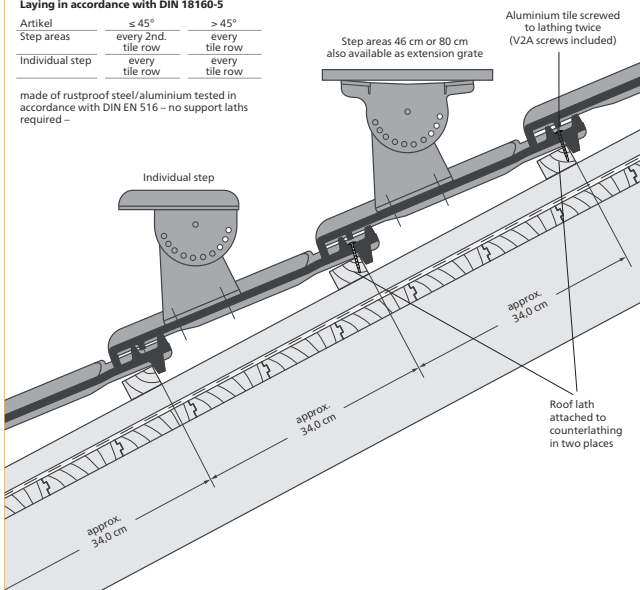
ERLUS roof walkway system

Roof walkway system

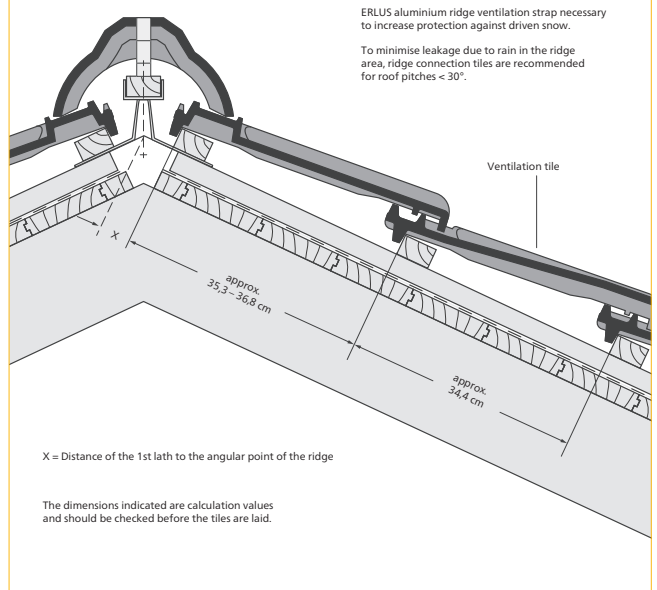
Laying in accordance with DIN 18160-5

Artikel	≤ 45°	> 45°
Step areas	every 2nd. tile row	every tile row
Individual step	every tile row	every tile row

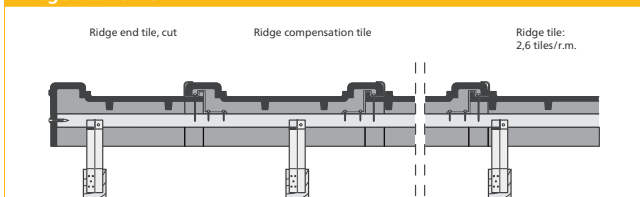
made of rustproof steel/aluminium tested in accordance with DIN EN 516 – no support laths required –



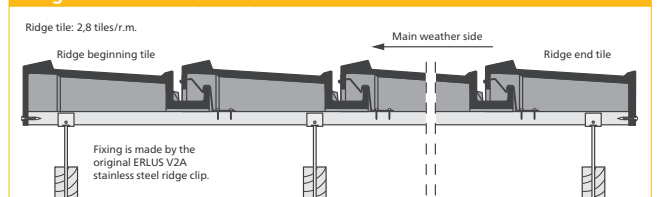
Ridge tile No. 18 in combination with standard tiles



Ridge tile No. 18



Ridge ventilation tile No. 19



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

X (distance) in mm

Ridge connection tiles ¹⁾

Standard tiles ²⁾

Roof pitch in °	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. 15	60	55	50	45	45	45	45	45	45	–	–	75	70	65	60	60	55	55	55	–	–	–
Ridge ventilation tile No. 15	65	65	60	55	50	50	45	45	–	–	–	75	70	65	65	60	60	–	–	–	–	–
Ridge tile No. 17	65	60	50	45	45	45	45	45	40	–	–	75	70	65	60	60	55	60	55	55	–	–
Ridge ventilation tile No. 17	65	60	55	45	50	45	45	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Ridge tile No. 18	45	40	35	25	30	30	30	30	25	25	–	60	55	50	45	40	40	40	35	35	30	25
Ridge ventilation tile No. 19	40	35	30	25	25	25	25	–	–	–	–	60	55	50	45	40	40	–	–	–	–	–
Ridge tile No. 21	40	35	30	25	25	25	25	25	25	25	30	60	55	50	45	40	40	35	35	35	25	20

1) without aluminium ridge ventilation strap 2) with aluminium ridge ventilation strap

Assignment of additional measures for the Ergoldsbacher Großfalzziegel

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 25° - when laid in cross pattern, when laid in rows - regular roof pitch 30°, minimum roof pitch 10°, according to the generally accepted rules 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.)

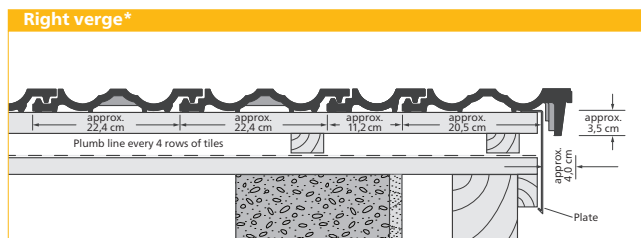
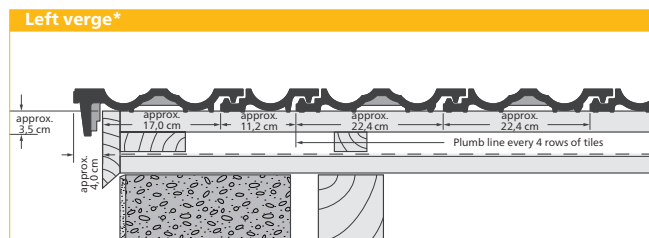
Class 5: Overlapped / tongue in groove sub-covering (2.4.)

Class 6: Under-bracing (3.3.)

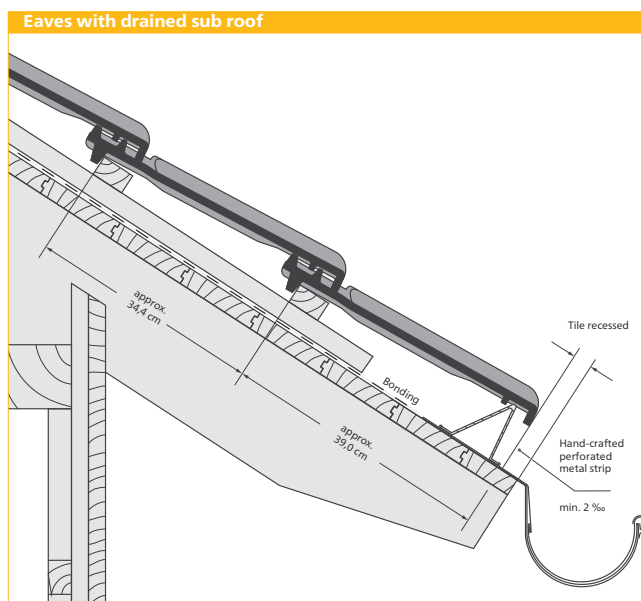
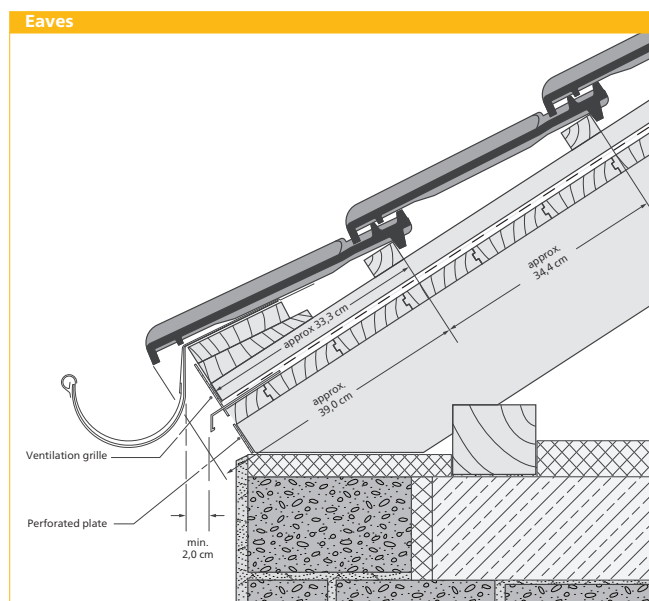
Definition of sub-roof's type to use

Roof pitch	No further increased demands*	One further increased demand*	Two further increased demands*	Three further increased demands*
≥ 25°	Class 6	Class 6	Class 5	Class 4
From < 25° to ≥ 21°	Class 4	Class 4	Class 3	Class 3
From < 21° to ≥ 17°	Class 3	Class 3	Class 3	Class 3*
From < 17° to ≥ 13°	Class 2	Class 2	Class 1	Class 1
From < 13° 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.



* The screw hole in the verge on low-pitched roofs should be permanently sealed (e.g. using plumbing screws)



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.



Natural red



Red



Copper brown



Anthracite



Antique



Sepia

Like all Ergoldsbacher clay roof tiles, the **Ergoldsbacher Großfalzziegel** exceeds the quality requirements of roof tile standard DIN EN 1304. Ergoldsbacher roof tiles are a natural construction material, which can also be seen from the way the shades vary slightly from tile to tile.

As there are different rules, standards and industrial processing traditions in the different European countries, our manufacturer's specifications take priority. Additional measures regarding wind suction should generally be taken according to the regulations which apply in each case. To guarantee raintightness and to guard against pull-away due to wind suction, we recommend laying the Ergoldsbacher Großfalzziegel in a cross bond pattern.

The sizes and weights given are standard values. Dimensional deviations cannot always be avoided due to variations in the raw materials and different shrinkage behaviour. It is therefore advisable to check the roof dimensions before processing the tile at the construction site.

Occasional superficial defects are a result of production and transport and do not adversely affect the quality of the roof tile.

Ergoldsbacher Großfalzziegel – Product range



Standard tile



Half tile



Verge tile
left



Verge tile
right



Double roll tile ¹⁾



Ridge connection tile



Ventilation tile ²⁾



Ridge connection
verge tile left



Ridge connection
verge tile right



Snow stop tile



Hip cap
for ridge tile No. 15



Hip cap
for ridge tile No. 18



Ridge tile No. 15



Ridge tile No. 18



Ridge ventilation tile No. 19 ³⁾



Aluminium sanitary
ventilator ^{4) 5)}



Aluminium solar
outlet ^{5) 6)}



Aluminium solar
panel holder ⁵⁾



Aluminium
aerial ⁵⁾

- 1) Cover width approx. 22 cm
2) Ventilation cross section 20 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) Ø 58 mm

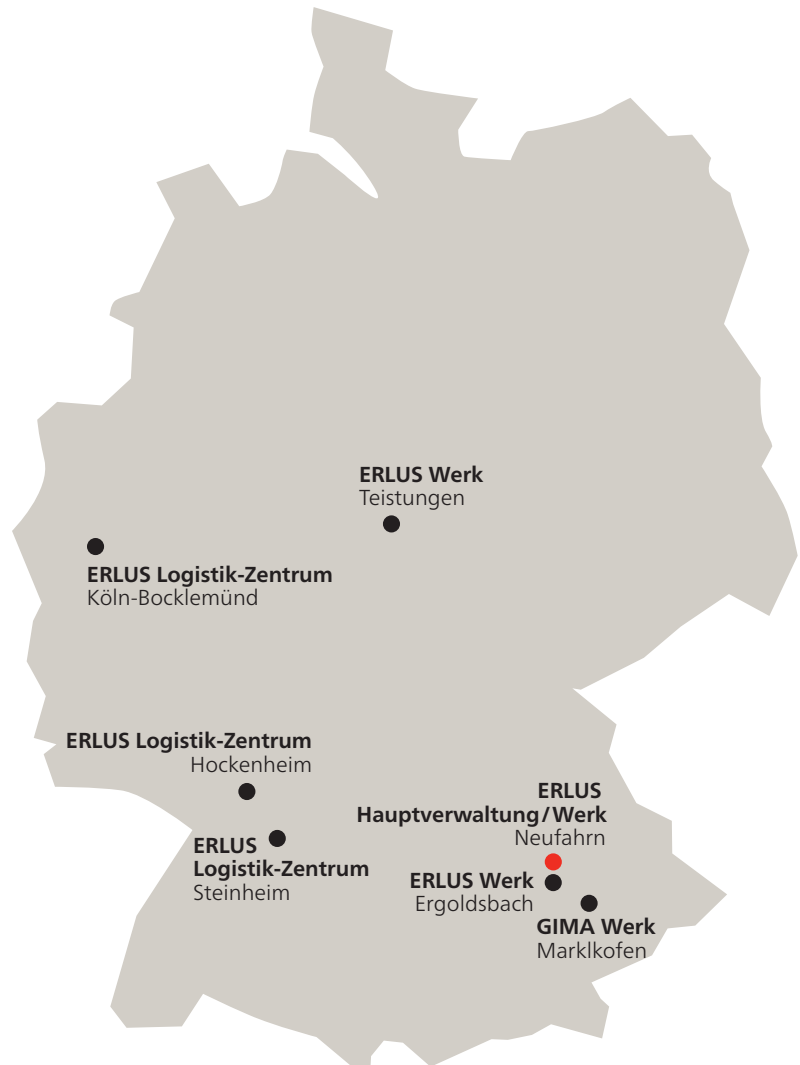
The following accessories are also available:

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

**You can find the whole available accessories under
www.erlus.com/großfalz/lieferprogramm**

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Only the colour of the original roof tiles is guaranteed. True reproduction of colours cannot be guaranteed in print!

This brochure is a translation from the German language. Since differences may occur due to language-based interpretation, we explicitly indicate that only the original German content is binding. When in doubt, the DIN EN 1304 regulation shall always apply.

This brochure was last updated in April 2019.

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