

# Ergoldsbacher **Level RS**®

**NEW**

Technical Details

**PRODUCT SHEET**



**ERLUS** 

Quality made in Germany

## The Ergoldsbacher Level RS®: pure design for shallow roofs – flat, square-edged, raintight for pitches starting at 10°

The Ergoldsbacher Level RS® is already the third specialist for shallow roofs. What is striking about this tile is its clear, square-edged form. What is significant about it is its deep interlocking joints on all sides with triple head and side locks. Due to this special design feature, the water on the tile surface is channelled away perfectly. That way, even on shallow roofs (laid in cross pattern: standard roof pitch 16°, minimum roof pitch 10°); the substructure stays dry. The new Ergoldsbacher Level RS® is the real solution: a raintight roof tile that does not need a waterproof sub-roof!

**Deep interlocking joints on all sides**  
with triple head and side locks

**Full accessories**  
including aluminium accessories from one source

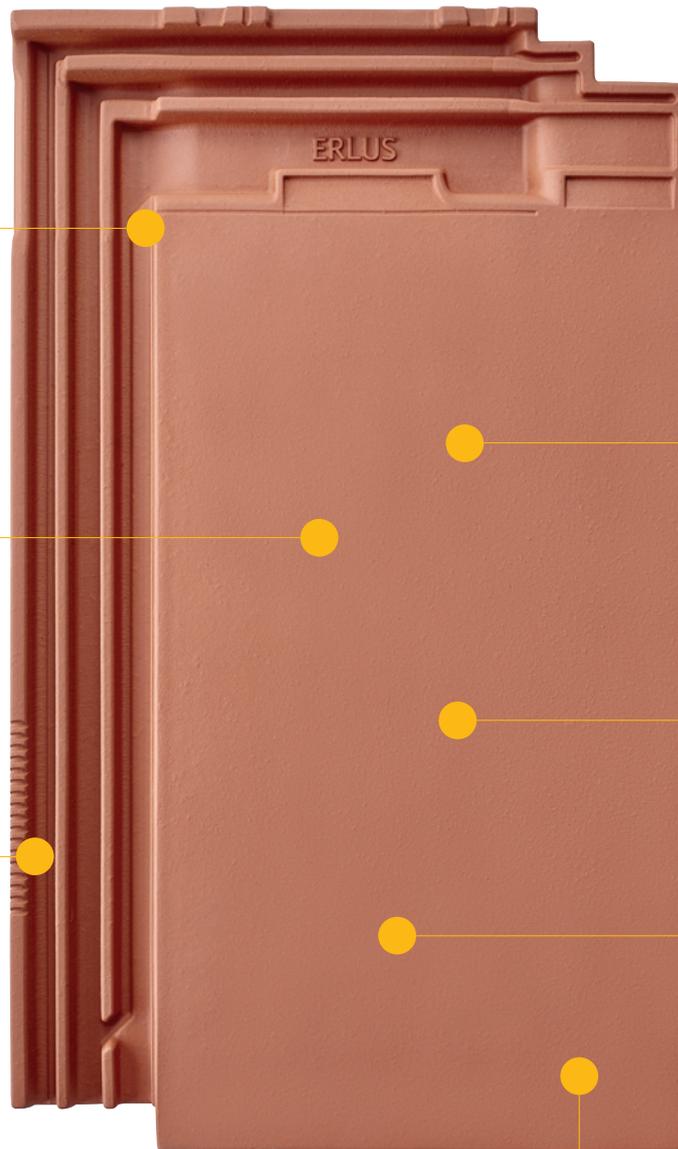
**Marked storm groove**  
for a perfect fit  
for storm clips I

**Sintered quality**  
fired to clinker hardness at 1.200° C, low water absorption (less than 5%)

**High protection against wind suction**  
with bond tiling (even without clamping)

**Hail resistance class 4**

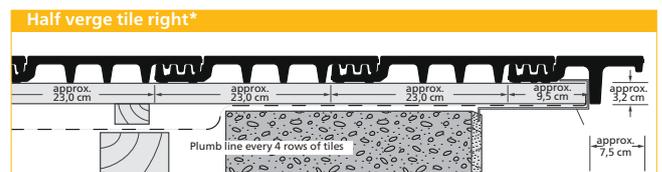
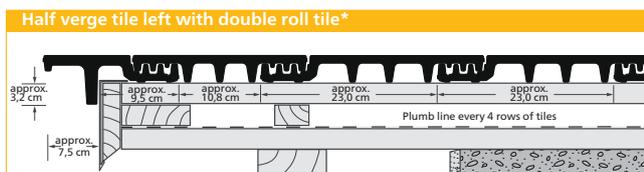
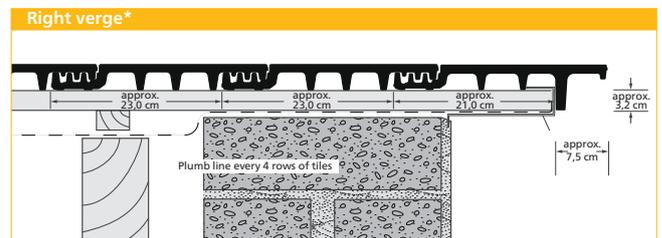
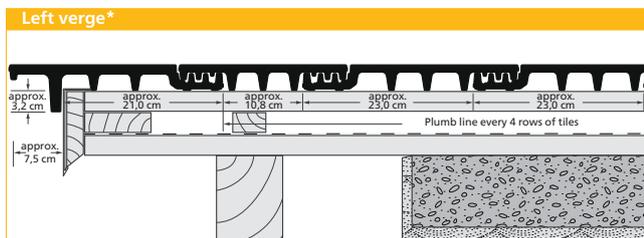
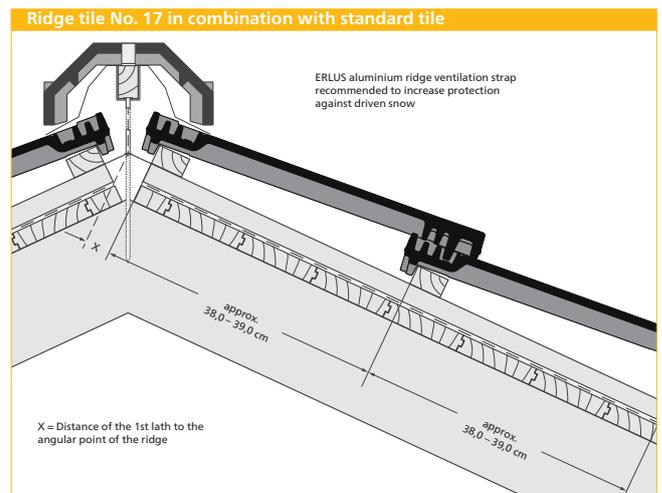
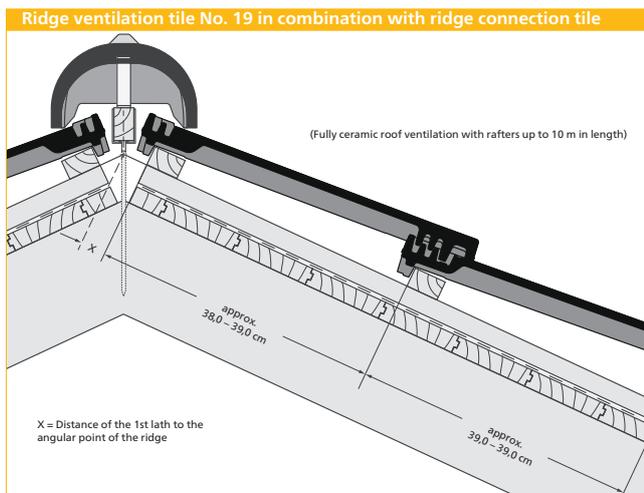
**Gauge class 38.5 cm**  
model from the XXL family





## Technical data

|  |                                |
|--|--------------------------------|
| Size:  | approx. 29,0 x 48,5 cm         |
| Gauge:   | approx. 38,0 - 39,0 cm         |
| Average cover width:   | approx. 23,0 cm                |
| Quantity required per m <sup>2</sup> :                               | from 11,3 tiles                |
| Weight per m <sup>2</sup> in accordance with DIN 1055 incl. battens: | approx. 0,55 kN/m <sup>2</sup> |
| Real weight without battens:   | approx. 54 kg/m <sup>2</sup>   |
| Pallet capacity:   | 160 tiles                      |
| Pallet weight:   | approx. 768 kg                 |
| Bundle capacity:   | 5 tiles                        |
| Hail resistance class:   | 4                              |
| Gauge class:   | 38,5 cm                        |



\* In order to fix the verges securely against rain even on flat roof pitches, the Level RS verges are screwed through the reinforced head-side suspension lugs. Depending on the cross-section of the wood, it may be necessary to pre-drill the battens.

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

| X (distance) in mm            | Ridge connection tiles <sup>1)</sup> |    |    |    |    |    |    |    |    |    | Standard tiles <sup>2)</sup> |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------|--------------------------------------|----|----|----|----|----|----|----|----|----|------------------------------|----|----|----|----|----|----|----|----|----|----|----|
|                               | 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. 17             | 55                                   | 55 | 55 | 50 | 50 | 45 | 45 | 35 | -  | -  | -                            | 45 | 45 | 55 | 50 | 50 | 50 | 60 | 40 | 30 | -  | -  |
| Ridge ventilation tile No. 17 | 55                                   | 55 | 55 | 50 | 50 | 50 | 60 | -  | -  | -  | -                            | 45 | 45 | 55 | 50 | 50 | 55 | 60 | -  | -  | -  | -  |
| Ridge ventilation tile No. 19 | 45                                   | 45 | 45 | 35 | 30 | 30 | 35 | 40 | -  | -  | -                            | 45 | 45 | 40 | 40 | 30 | 30 | 35 | 35 | -  | -  | -  |

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

## Assignment of additional measures for the Ergoldsbacher Level RS®

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 16° when laid in a cross bond pattern and 22° when laid in rows, minimum roof pitch 10°; according to the state-of-the-art of science and 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.)

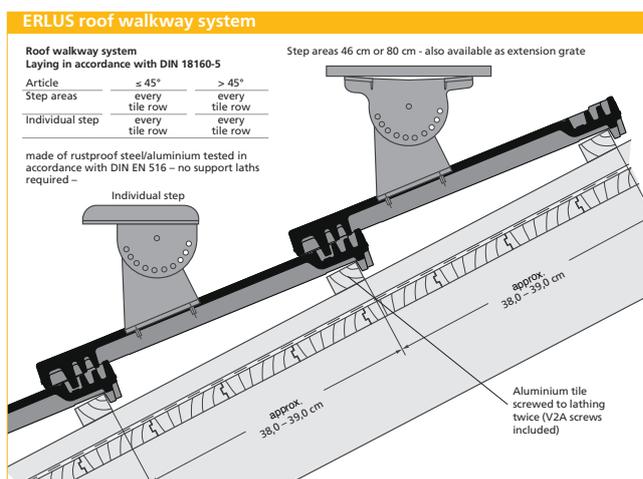
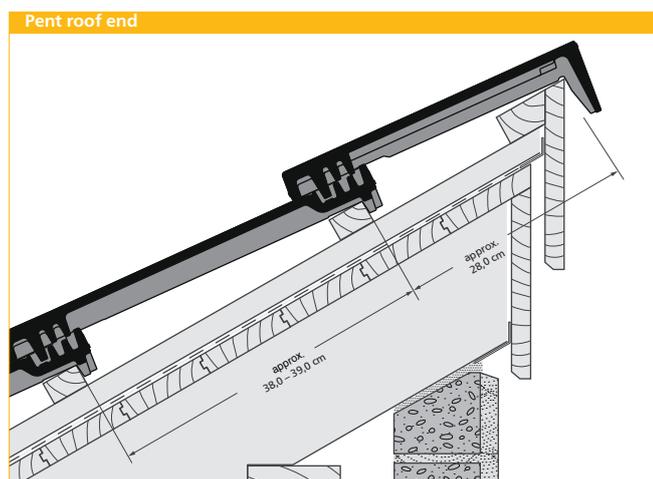
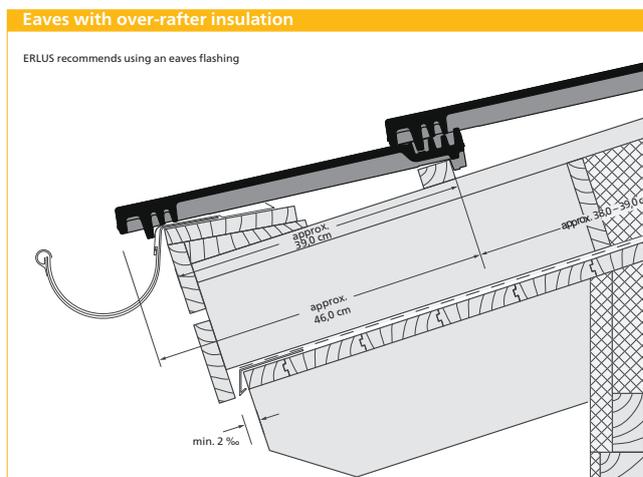
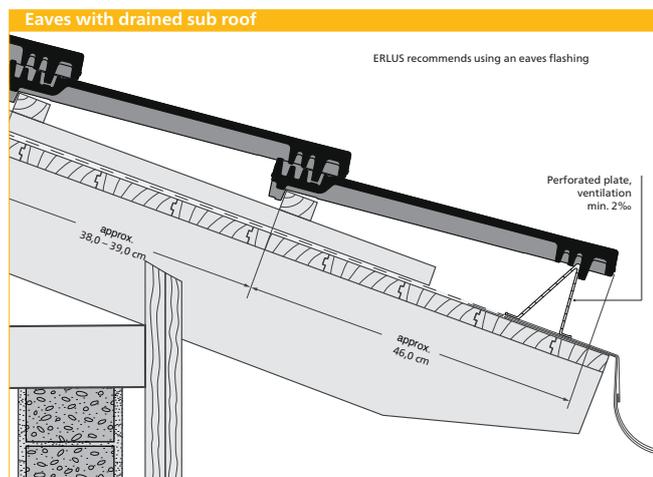
**Class 5:** Overlapped / tongue in groove sub-covering (2.4.)

**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* |
|---------------------|-------------------------------|-------------------------------|--------------------------------|----------------------------------|
| ≥ 16°               | Class 6                       | Class 6                       | Class 5                        | Class 4                          |
| From < 16° to ≥ 12° | Class 4                       | Class 4                       | Class 3                        | Class 3                          |
| From < 12° to ≥ 10° | Class 3                       | Class 3                       | Class 3                        | Class 3*                         |

\* 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](http://www.erlus.com). We recommend using an eaves flashing.



Sinter red



Sinter cotto\*



Sinter grey



Sinter black matt\*

Like all Ergoldsbacher clay roof tiles, the **Ergoldsbacher Level RS®** exceeds the quality requirements set out in the DIN EN 1304 roof-tile norm. 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.

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. In order to ensure the highest rain resistance and safety against wind uplift, we recommend laying Ergoldsbacher Level RS® in a half offset formation.

\*Available from July 2021



Standard tile



Half tile <sup>1)</sup>



Verge tile left



Verge tile right



Half verge tile left



Half verge tile right



Double roll tile for left ending <sup>2)</sup>



Pent roof tile



Ventilation tile <sup>3)</sup>



Hip cap for ridge tile No. 17



Ridge tile No. 15



Ridge tile No. 17



Ridge ventilation tile No. 17 <sup>4)</sup>



Ridge ventilation tile No. 19 <sup>4)</sup>



Aluminium sanitary ventilator <sup>5)6)</sup>



Aluminium solar outlet <sup>6)</sup>



Aluminium solar panel holder <sup>6)</sup>



Aluminium aerial <sup>6)</sup>

- 1) Cover width approx. 11,5 cm
- 2) Cover width approx. 17,0 cm stand-alone, cover width approx. 10,8 cm
- 3) Ventilation cross section 12 cm<sup>2</sup>
- 4) Recommended for a fully ceramic roof ventilation system with rafters up to 10 m in length
- 5) Ø 125 mm, ventilation cross section 122 cm<sup>2</sup>
- 6) With basic tile

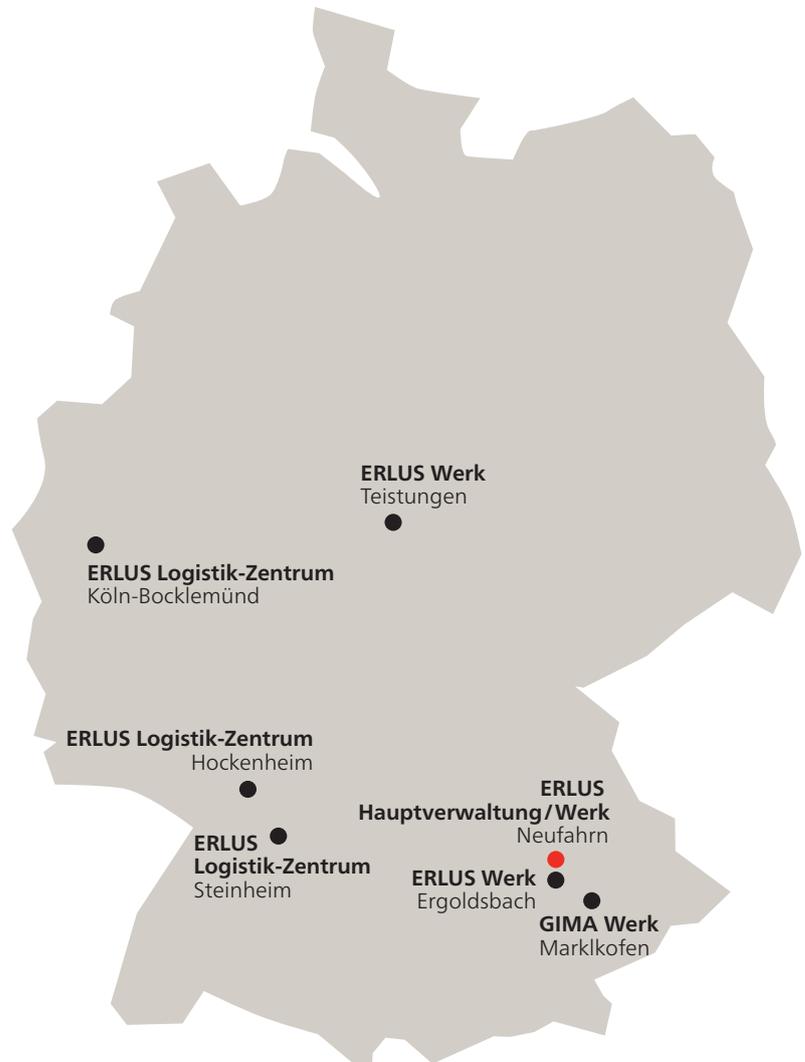
**The following ERLUS special accessories are also available:**

- Aluminium roof walkway system components
- Aluminium snow-guard system components
- Aluminium through-tile for room ventilation Ø 150
- Ceramic sanitary ventilator Ø 125
- ERLUS Universal storm clips in accordance with DIN EN 14437
- Ridge clips

You can find the whole available accessories under [www.erlus.com/levelrs/productrange](http://www.erlus.com/levelrs/productrange)

## ERLUS AG

Hauptstraße 106  
84088 Neufahrn/NB  
T 08773 18-0  
F 08773 18 49 300  
info@erlus.com  
www.erlus.com



Only the colour of the original roof tiles is guaranteed. True reproduction of colours cannot be guaranteed in print! **This brochure was last updated in March 2021.**

**Copyright notice** © ERLUS AG 2021. All rights reserved. These documents are protected by copyright. They may not be reproduced, modified, distributed in any form or way or saved in a database or other data storage system – either in full or in part – without the prior consent of ERLUS AG. Any use of these documents without prior consent shall count as a breach of the relevant copyright regulations.