# Ergoldsbacher **Scala®**

NEW

## Technical Details

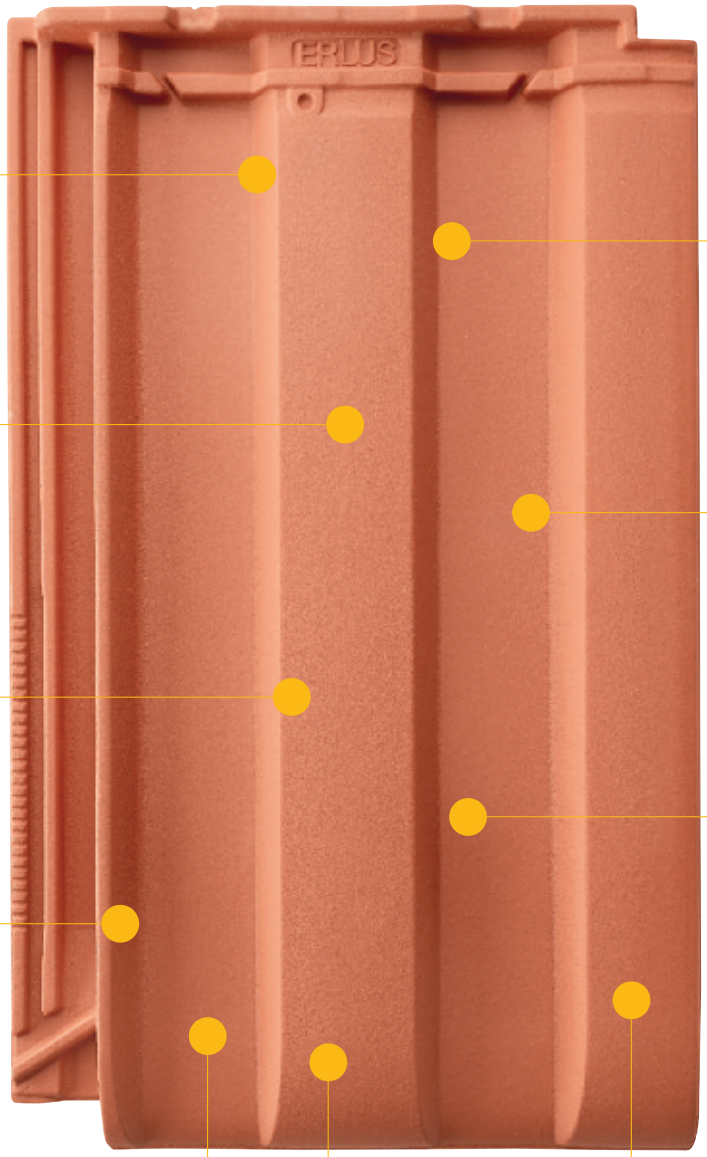
PRODUCT SHEET

ERLUS

Quality made in Germany

# **The Ergoldsbacher Scala®** very flexible – with a 70 mm sliding range

The Ergoldsbacher Scala® will surprise you with its generous sliding range of 70 mm, which particularly pays when retiling the roof or extending existing tiling with new tiles. The variable covering length is not only practical and economical - laid in an overlapped or fully slotted manner, the modern sliding tile also makes exceptional tiling designs possible. Regarding its form, it is perfectly equipped to prevent drifting snow or rain getting in, and to withstand wind suction: due to the double interlocking side joint and watercourse in the four-tile corner, a double foot joint and two head joint ribs.




**Gauge class 34,0 cm**

**70 mm sliding range**

**Reliable water channel**

**Also available in sintered quality**

**Storm groove**

**Especially robust**
Hail resistance class 4

**Four-tile corner**

**Profitable**
from 11 pcs./m² on, can also be laid in rows (standard roof pitch 25° or 30°)

**Particularly safe against rain and snow getting** in due to double interlocking head and side joints

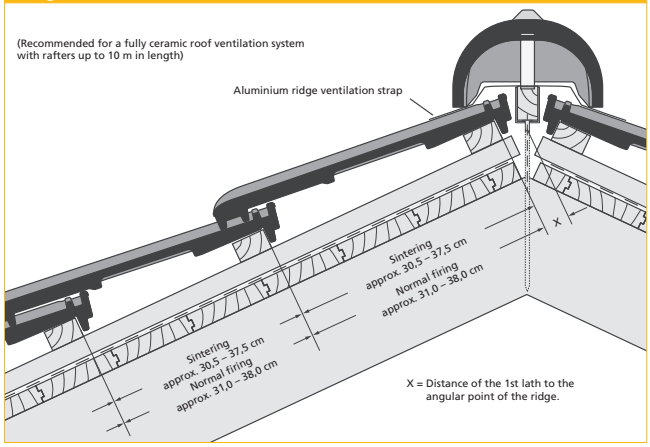
**Highly stormproof**
when laid in a cross bond pattern, even when used without storm-clips

## Technical data

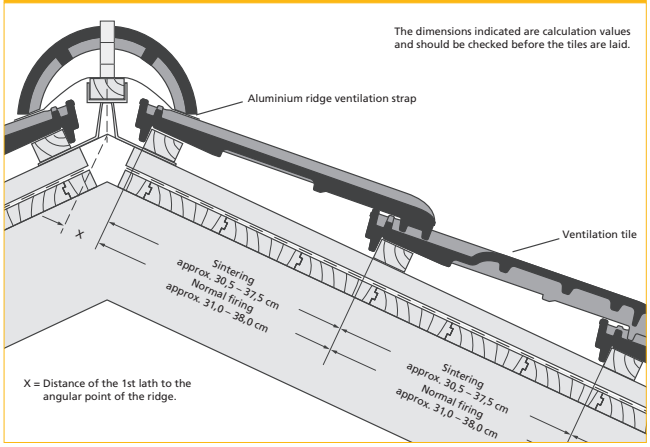
| | |
|---|---|
| Size: | approx. 27,5 x 47,0 cm |
| Gauge: | approx. 31,0 - 38,0 cm [1] / approx. 30,5 - 37,5 cm [2] |
| Average cover width: | approx. 24,6 [1] / approx. 24,4 cm [2] |
| Quantity required per m²: | approx. 11,0 tiles |
| Weight per m² in accordance with DIN 1055 incl. battens: | approx. 0,55 kN/m² |
| Real weight without battens: | approx. 51 kg/m² |
| Pallet capacity: | 192 tiles |
| Pallet weight: | approx. 930 kg |
| Bundle capacity: | 4 tiles |
| Hail resistance class: | 4 |
| Gauge class: | 34,0 cm |

1) Normal firing (Natural Red, Anthracite)
2) Sintering (Sinter Red, Sinter Black Matt)

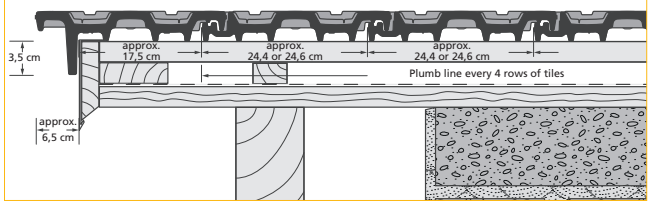
### Ridge ventilation tile No. 19 in combination with standard tiles



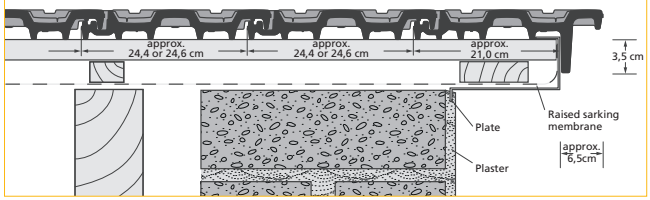

### Ventilation tile No. 15 with standard tiles



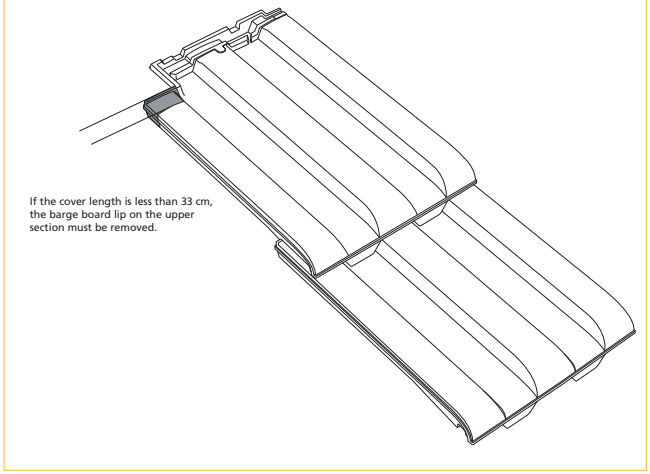

### Left verge**




### Right verge*




### Verge - Laying instruction




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

| **X (distance)** in mm | **Distance between the 1st lath and the angular point of the ridge [1]** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Roof pitch in °** | **10** | **15** | **20** | **25** | **30** | **35** | **40** | **45** | **50** | **55** |
| Ridge tile No. 15 | 60 | 60 | 50 | 50 | 45 | 45 | 50 | 50 | 50 | 50 |
| Ridge ventilation tile No. 15 | 60 | 60 | 50 | 50 | 45 | 45 | 50 | 50 | 70 | 70 |
| Ridge tile No. 17 | 60 | 60 | 50 | 50 | 45 | 45 | 50 | 50 | 50 | 50 |
| Ridge ventilation tile No. 17 | 60 | 60 | 50 | 50 | 45 | 45 | 50 | 50 | 70 | 70 |
| Ridge tile No. 18 | 40 | 40 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Ridge ventilation tile No. 19 | 40 | 40 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | – |
| Ridge tile No. 21 | 40 | 40 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |

1) with aluminium ridge ventilation strap

## Assignment of additional measures for the Ergoldsbacher Scala®

**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 layed in a cross bond pattern, 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**

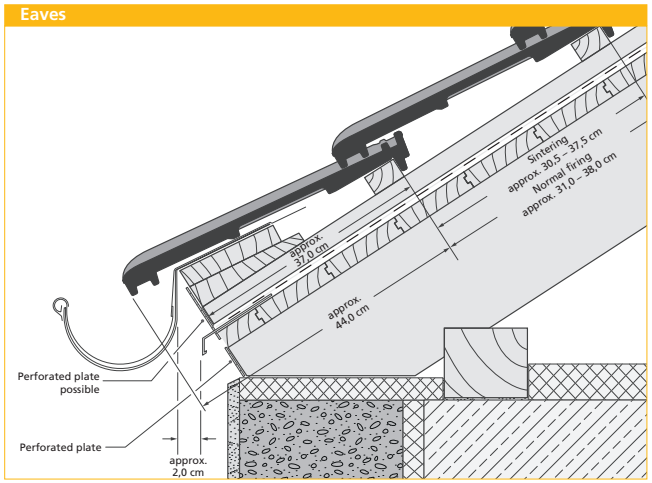
**Class 1:** Waterproof sub-roof (1.1.)
**Class 2:** Rainproof sub-roof (1.2.)
**Class 3:** Seam and perforation secured under-bracing (2.1.)
Seam and perforation secured sub-covering (3.1.)
**Class 4:** Welded or glued sub-covering (2.2.)
Coated under-bracing made of strips of bitumen (2.3.)
Seam-secured 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**

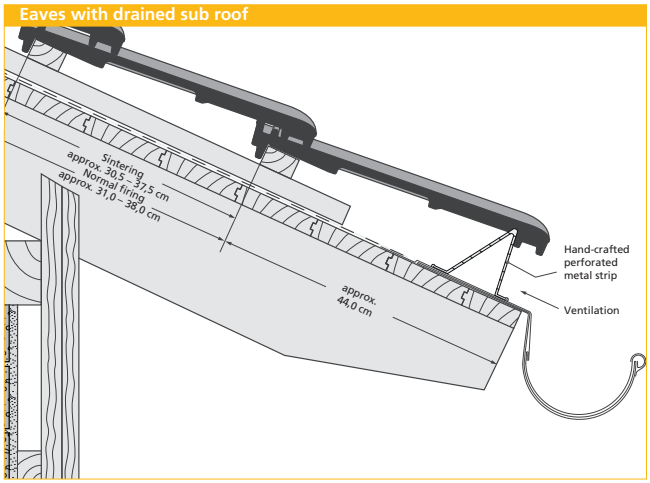
| Roof pitch | No further increased demands* | One further increased demand* | Two further increased demands* | Three further increased demands* |
|---|---|---|---|---|
| ≥ 25° | Class 6 | Class 6 | Class 5 | Class 4 |
| From < 25° to ≥ 21° | Class 4 | Class 4 | Class 3 | Class 3 |
| From < 21° to ≥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

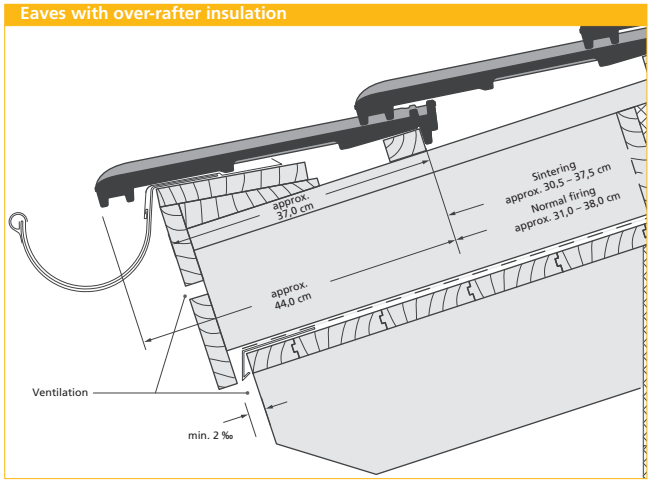
**Eaves**



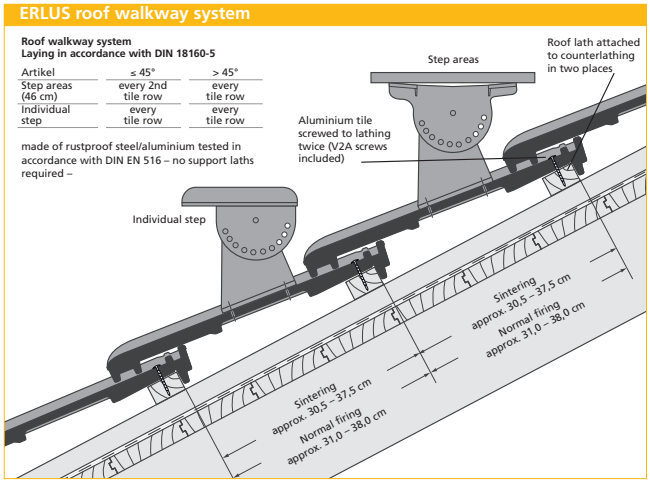

**Eaves with drained sub roof**




**Eaves with over-rafter insulation**




**ERLUS roof walkway system**



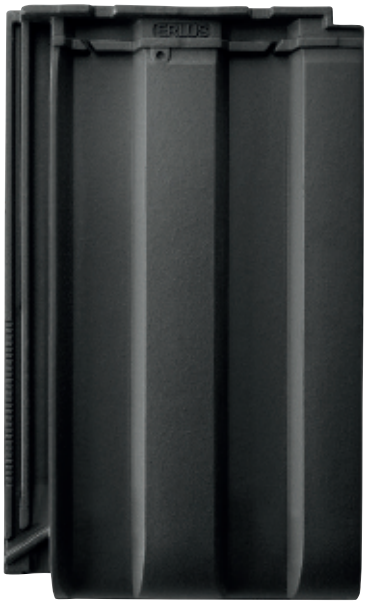

Plans above are not drawings to scale. To help with planning, you can download all the drawings as CAD drawings from the Internet at www.erlus.com. We recommend using an eaves flashing.

## Ergoldsbacher Scala® – Colour range

Natural red

Sinter red

Anthracite



Sinter black matt

Like all Ergoldsbacher clay roof tiles, the **Ergoldsbacher Scala®** 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 possible level of protection against the rain and wind, we recommend that you lay the **Ergoldsbacher Scala®** tiles in a cross bond pattern.

## Ergoldsbacher Scala® – Product range

Standard tile

Half tile [1]

Verge tile left

Verge tile right

Ventilation tile [2]

Hip cap for ridge No. 15

Hip cap for ridge No. 18

Hip cap for ridge No. 17

Ridge tile No. 17

Ridge ventilation tile No. 17 [3]

Ridge tile No. 19 [3]

Aluminium sanitary ventilator [4] [5]

Aluminium solar outlet [5]

Aluminium solar panel holder [5]

Aluminium aerial [5]

1) Cover width approx. 12,2 cm
2) Ventilation cross section 12 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

**The following accessories are also available:**

- ERLUS Aluminium roof walkway system (coated)
- ERLUS Aluminium snow-guard system (coated)
- Ceramic thermal exhaust gas through tile
- ERLUS Universal storm clips in accordance with DIN EN 14437
- Ridge clips

**Please ask for our leaflet for special Erloton® accessories !**

ERLUS

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