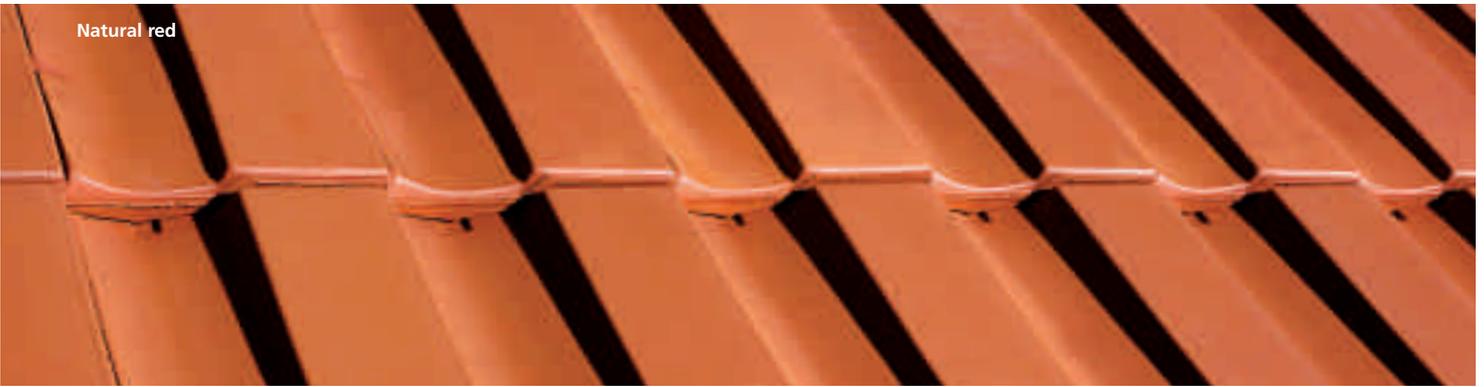
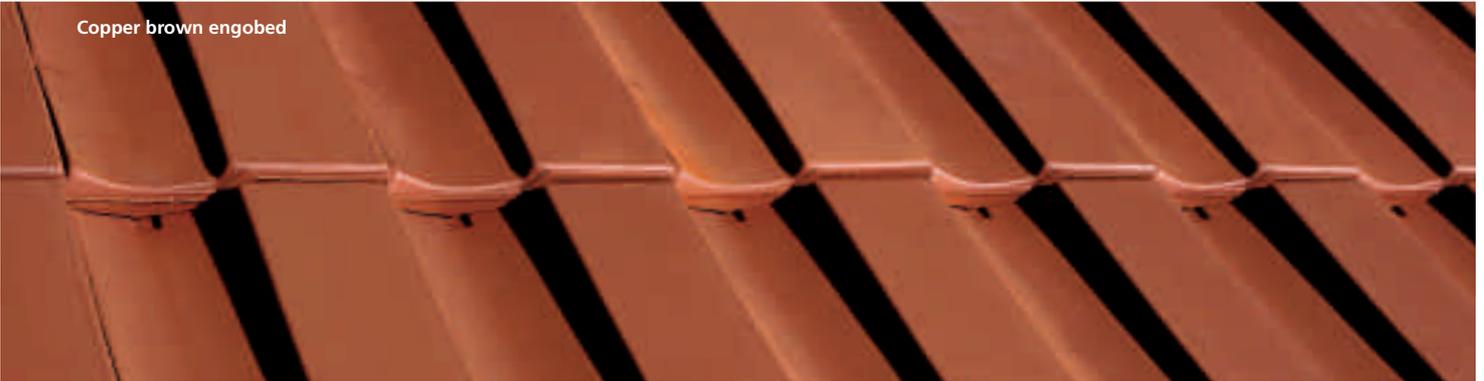


Natural red



Copper brown engobed



Anthracite engobed



Titan silver special engobed



Natural red



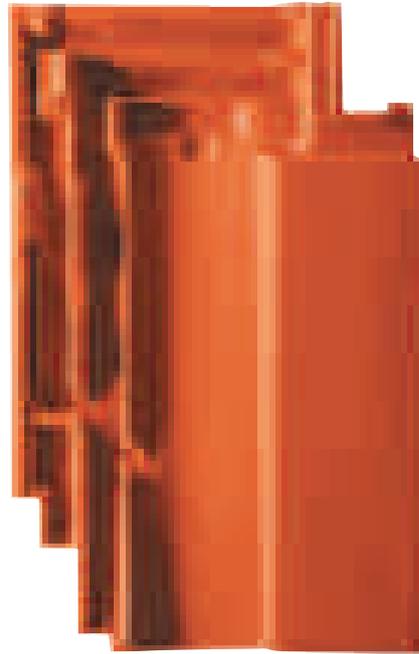
Technical Details

ERLUS<sup>e</sup>

# Ergoldsbacher KARAT®

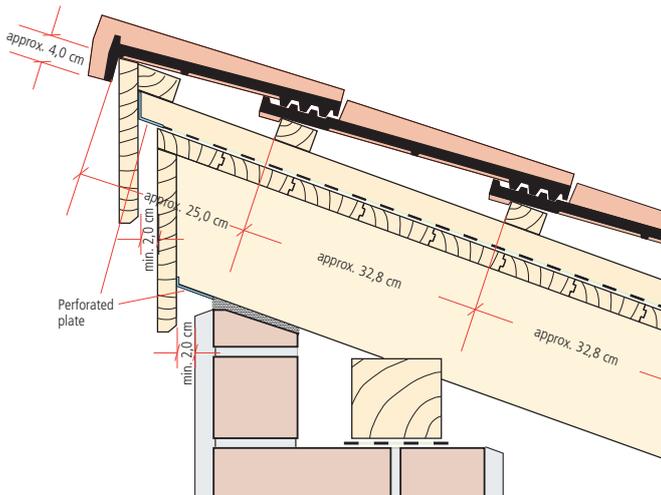
## Technical data

Size:	approx. 27.0 x 42.0 cm
Cover length:	approx. 32.6 cm – 33.1 cm
Cover width:	approx. 20.2 cm
Quantity required per m <sup>2</sup> :	approx. 15 tiles
Weight per tile:	approx. 3.3 kg
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. 50 kg/m <sup>2</sup>
Pallet capacity:	240 tiles
Pallet weight:	approx. 860 kg
Bundle capacity	4 pcs.

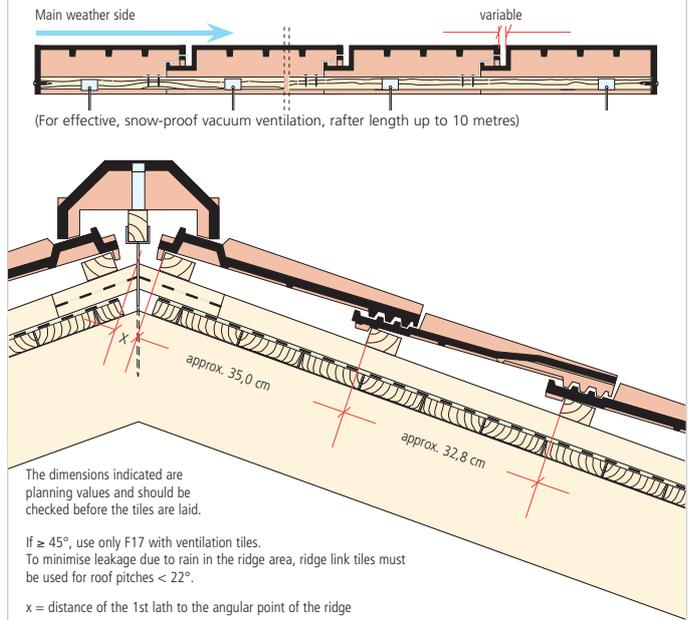


## Technical drawings

### Pent roof end



### Dry-laid ridge with ridge ventilation tile No. 17 Lü in combination with ridge connection tiles



Dimensions for execution with ridge connection tiles and without ridge/hip reel. Data in mm. (x = distance of the 1st lath to the angular point of the ridge)

KARAT®	roof pitch 10°	roof pitch 15°	roof pitch 20°	roof pitch 25°	roof pitch 30°	roof pitch 35°	roof pitch 40°	roof pitch 45°	roof pitch 50°	roof pitch 55°	roof pitch 60°
	x-dimension										
Ridge tile No.: 17	65	60	60	60	60	50	50	45	35	45	40
Ridge tile No.: 17 Lü	65	60	60	60	60	50	50	45	35*	–	–
Ridge tile No.: 19 Lü	40	40	40	35	35	30	20	20	–	–	–

Dimensions for execution with standard tiles and ridge/hip reel. Data in mm. (x = distance of the 1st lath to the angular point of the ridge)

KARAT®	roof pitch 10°	roof pitch 15°	roof pitch 20°	roof pitch 25°	roof pitch 30°	roof pitch 35°	roof pitch 40°	roof pitch 45°	roof pitch 50°	roof pitch 55°	roof pitch 60°
	x-dimension										
Ridge tile No.: 17	65	65	60	60	60	50	55	50	40	45	40
Ridge tile No.: 17 Lü	65	65	60	60	60	50	55	55	–	–	–
Ridge tile No.: 19 Lü	55	50	45	45	45	45	35	30	–	–	–

\* Ridge ventilation strap necessary



## Assignment of additional measures for the Ergoldsbacher Karat® 1)

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°, minimum roof pitch 7°, according to the state of technology.

Increased demands due to		
Use	Construction	Climate situation
<ul style="list-style-type: none"> <li>■ of the attic level, especially for residential purposes (residential use equals two increased demands)</li> </ul>	<ul style="list-style-type: none"> <li>■ Special roof shapes (e.g. butterfly roof)</li> <li>■ Long spar lengths (longer than for normal single-family dwellings)</li> <li>■ Heavily structured roof shapes (e.g. due to valleys, gables, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>■ Exposed locations</li> <li>■ Extreme locations</li> <li>■ Areas with a lot of snow</li> <li>■ Special weather situations</li> <li>■ Areas with a lot of wind</li> </ul>

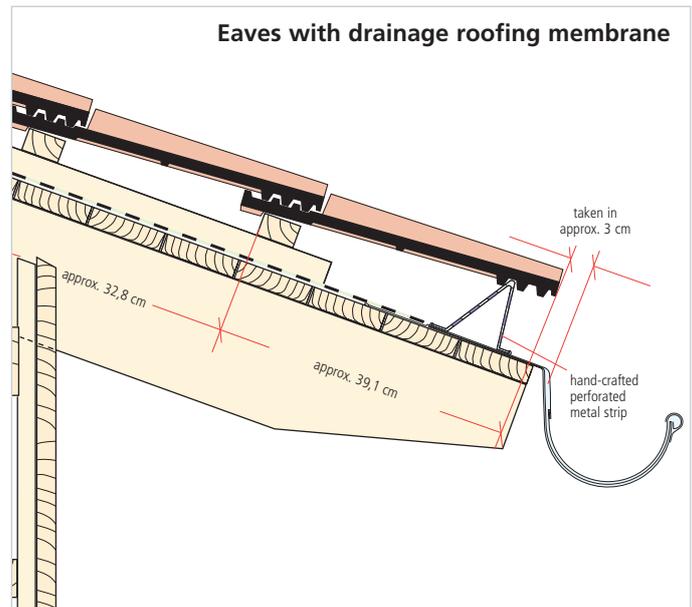
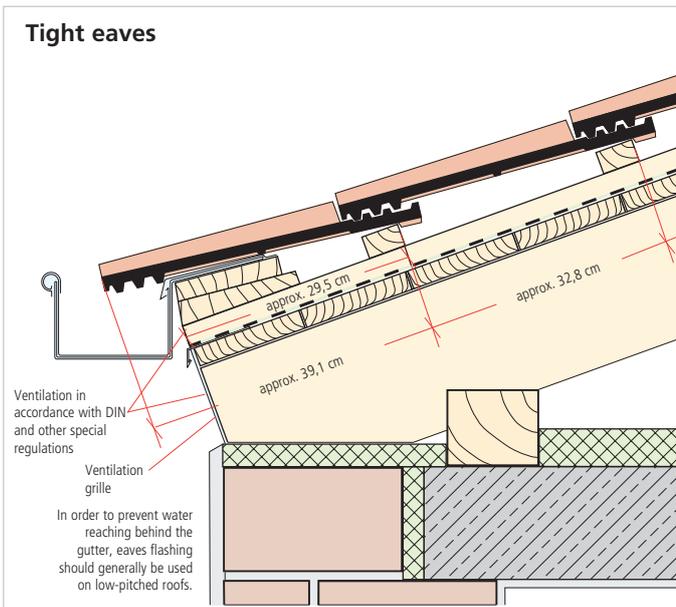
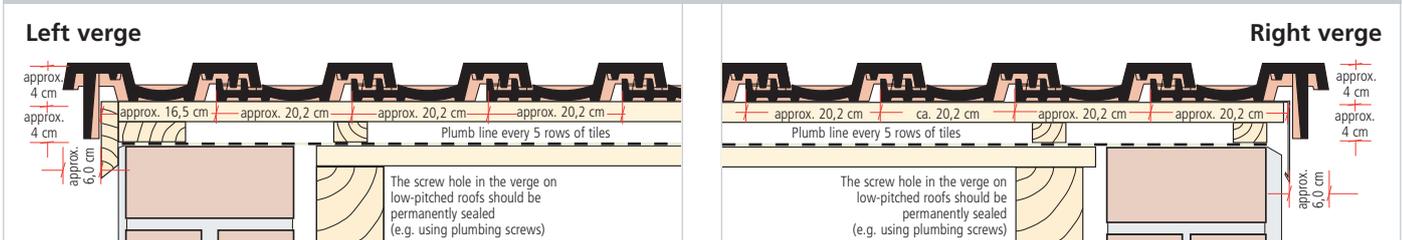
Roof pitch	No further increased demands 2)	One further increased demand 2)	Two further increased demands 2)	Three further increased demands 2)
≥ 16°	class 6 3.3. under-bracing (USB-A)	class 6 3.3. under-bracing (USB-A)	class 5 2.4. overlapped / tongue in groove sub-covering (UDB-A, USB-A)	class 4 2.2. welded or glued sub-covering 2.3. coated under-bracing made of strips of bitumen 3.2. seam-secured sub-covering (UDB-A, USB-A)
From < 16° to ≥ 12°	class 4 2.2. welded or glued sub-covering 2.3. coated under-bracing made of strips of bitumen 3.2. seam-secured sub-covering (UDB-A, USB-A)	class 4 2.2. welded or glued sub-covering 2.3. coated under-bracing made of strips of bitumen 3.2. seam-secured sub-covering (UDB-A, USB-A)	class 3 2.1. seam and perforation secured sub-covering 3.1. seam and perforation secured sub-covering (UDB-A, USB-A)	class 3 2.1. seam and perforation secured sub-covering 3.1. seam and perforation secured sub-covering (UDB-A, USB-A)
From < 12° to ≥ 10°	class 3 2.1. seam and perforation secured under-bracing 3.1. seam and perforation secured sub-covering (UDB-A, USB-A)	class 3 2.1. seam and perforation secured under-bracing 3.1. seam and perforation secured sub-covering (UDB-A, USB-A)	class 3 2.1. seam and perforation secured under-bracing 3.1. seam and perforation secured sub-covering (UDB-A, USB-A)	class 3 3) 2.1. seam and perforation secured under-bracing 3.1. seam and perforation secured sub-covering (UDB-A, USB-A)
From < 10° to ≥ 7°	class 2 1.2. rainproof sub-roof	class 2 1.2. rainproof sub-roof	class 1 1.1. waterproof sub-roof	class 1 1.1. waterproof sub-roof

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.

2) 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.

3) Only permitted if proof is brought regarding functionality and safety of the products used, including accessories (sealing tapes, sticky tapes, sealing compounds, pre-assembled seam securing, etc.), as carried out in a severe rain test. Otherwise, the next class up is to be selected.

## Technical drawings



## Product range

 Standard tile	 Verge tile left	 Verge tile right	 Double roll tile (cover width approx. 22,5 cm)
 Ridge connection tile	 Ridge connection verge tile left	 Ridge connection verge tile right	 Ridge connection double roll tile
 Pent roof tile	 Pent roof verge tile left	 Pent roof verge tile right	 Pent roof double roll tile
 Ventilation tile (Ventilation shaft $\varnothing$ 10cm <sup>2</sup> )	 Ridge tile No. 17 (F 17)	 Ridge ventilation tile No. 17 Lü (For effective, snow-proof vacuum ventilation, rafter length up to 10 metres)	
 Aluminium sanitary ventilator (Ventilation shaft $\varnothing$ 125 mm)	 Aluminium antenna cap	 Aluminium solar outlet tile	 Hip cap

As a genuine clay roof tile, the **Ergoldsbacher Karat®** is a natural building material through and through. This is also evident from the fact that the individual tiles display slight variations in colour.

The fully ceramic ridge ventilation tile (F 17 Lü) allows highly effective roof ventilation. Ergoldsbacher Karat® tiles easily exceed the quality requirements set out in the DIN EN 1304 roof-tile norm. Additional measures (e.g. the laying of roofing membranes) should be carried out in accordance with the current regulations concerning tiled roofs.

Given that the regulations and roofing traditions vary throughout Europe, it is important to observe the manufacturer's instructions. Additional measures to protect against wind suction should generally be carried out in accordance with the regulations that apply in each case. 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.

### ERLUS AG

Main office  
Hauptstraße 106  
D-84088 Neufahrn/NB  
Telefon: +49(0)8773 18-0  
Fax: +49(0)8773 18-300  
info@erlus.com  
www.erlus.com

### The following non-ceramic accessories are also available:

Karat® metal pantile, aluminium clamps for ridge and hip tiles, aluminium end plates, skylights (colourcoated copper or red/grey, 42/52 cm with glass), ERLUS roof walkway system (V2A, aluminium and colour-coated), ERLUS snow-guard system

The following 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.

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 december 2011.**

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