



\* also available in ERLUS LOTUS®



Red Engobed\*



LARGE AREAS



**Technical Details**

**ERLUS** <sup>e</sup>

# Ergoldsbacher **FORMA**®

## Technical data

Size:	approx. 29.5 x 46.5 cm
Cover length:	approx. 37.7–39.7 cm
Average cover width:	approx. 25.5 cm
Quantity required per m <sup>2</sup> :	approx. 9.8–10.25 tiles
Weight per tile:	approx. 4.0 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. 40 kg/m <sup>2</sup>
Pallet capacity:	280 tiles
Pallet weight:	approx. 1,150 kg
Bundle capacity:	5 tiles

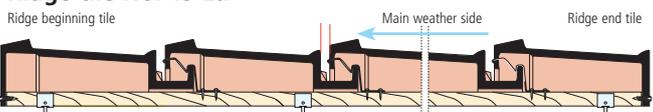


**ERLUS LOTUS**

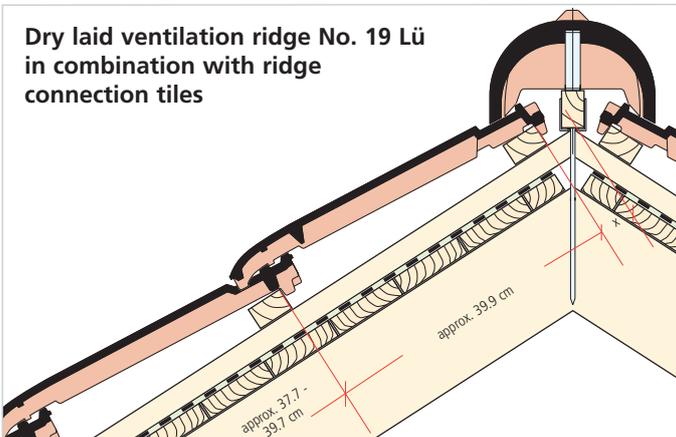
Also available in ERLUS LOTUS. Please ask for our special brochure!

## Technical drawings

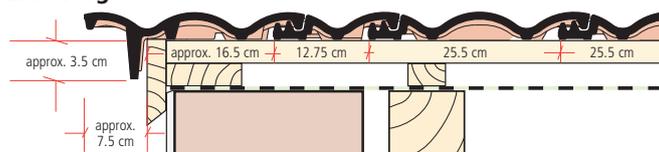
### Ridge tile No. 19 Lü



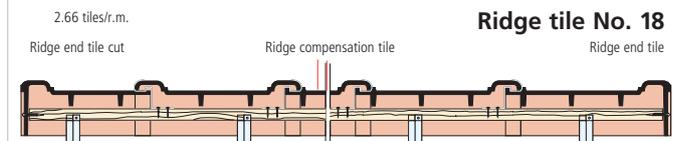
### Dry laid ventilation ridge No. 19 Lü in combination with ridge connection tiles



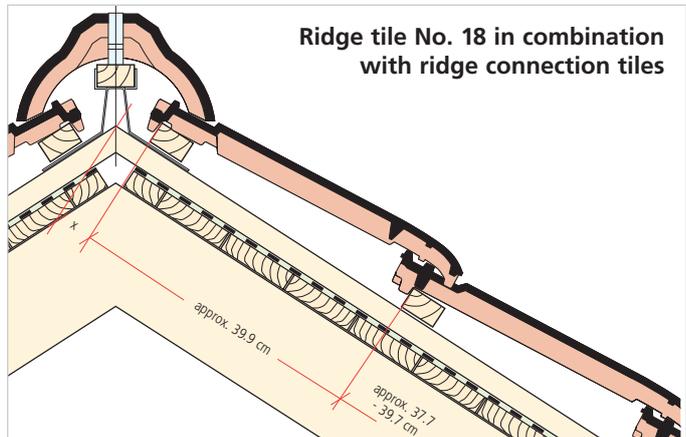
### Left verge



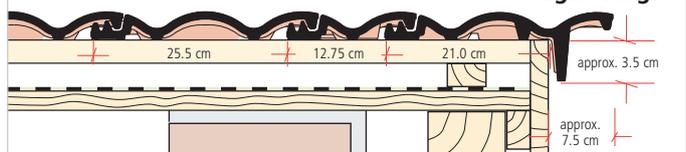
### Ridge tile No. 18



### Ridge tile No. 18 in combination with ridge connection tiles



### Right verge



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)

FORMA®	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.: 15	65	60	60	55	50	45	45	55	55	–	–
Ridge tile No.: 15 Lü	70	65	60	60	60	55	50	50*	50*	50*	–
Ridge tile No.: 18	50	40	40	40	35	30	30	35	30	–	–
Ridge tile No.: 19 Lü	50	40	35	35	30	30	30	30	–	–	–
Ridge tile No.: 21	45	40	35	30	30	30	30	30	25	30	25

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)

FORMA®	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.: 15	75	65	65	65	60	60	55	45	55	–	–
Ridge tile No.: 15 Lü	75	70	65	65	60	55	–	–	–	–	–
Ridge tile No.: 18	60	50	45	40	40	35	40	40	35	35	–
Ridge tile No.: 19 Lü	55	50	45	40	35	35	40	–	–	–	–
Ridge tile No.: 21	55	50	45	40	35	35	35	30	35	30	–

\* Ridge ventilation strap necessary



## Assignment of additional measures for the Ergoldsbacher Forma®<sup>1)</sup>

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 22°, minimum roof pitch 10°, 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> </ul>
				<ul style="list-style-type: none"> <li>Special weather situations</li> <li>Areas with a lot of wind</li> </ul>
Roof pitch	No further increased demands <sup>2)</sup>	One further increased demand <sup>2)</sup>	Two further increased demands <sup>2)</sup>	Three further increased demands <sup>2)</sup>
≥ 22°	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 < 22° to ≥ 18°	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 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)
From < 18° to ≥ 14°	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 <sup>3)</sup> 2.1. seam and perforation secured under-bracing 3.1. seam and perforation secured sub-covering (UDB-A, USB-A)
From < 14° to ≥ 10°	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

- 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 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

### Eaves

### Eaves with drainage roof membrane

### Pent roof end

### ERLUS roof walkway system

Aluminium tile screwed to lathing twice (V2A screws included) – also available as extension grate –

Step grate 46 cm or 80 cm

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

Laying in accordance with DIN 18160-5		
Article	≤ 45°	> 45°
Step areas (grates 46 cm)	every tile row	every tile row
Individ. Step (step)	every tile row	every tile row

Step

Roof lath 30 x 50 mm  
Attached to counterlathing in two places

The CAD drawings are produced to scale. We recommend using an eaves flashing.

To help with planning, you can download all the drawings as CAD drawings from the Internet at [www.erlus.com](http://www.erlus.com).

## Product range

 <b>Standard tile</b>	 <b>Verge tile left</b>	 <b>Verge tile right</b>	 <b>Double roll tile</b> (Cover width approx. 21 cm)
 <b>Ridge connection tile</b>	 <b>Ridge connection verge tile left</b>	 <b>Ridge connection verge tile right</b>	 <b>Half tile</b>
 <b>Pent roof tile</b>	 <b>Half pent roof tile</b>	 <b>Pent roof verge tile left</b>	 <b>Pent roof verge tile right</b>
 <b>Ventilation tile</b> (Ventilation cross section 12 cm <sup>2</sup> )	 <b>Snow guard tile</b> (piece/m <sup>2</sup> , quantity depends on roof pitch and snow load)	 <b>Ridge tile No. 15</b>	 <b>Ridge ventilation tile No. 15 Lü</b> (Recommended for a fully ceramic roof ventilation system with rafters up to 10 m in length)
 <b>Ridge tile No. 18</b>	 <b>Ridge ventilation tile No. 19 Lü</b> (Recommended for a fully ceramic roof ventilation system with rafters up to 10 m in length)	 <b>Ridge tile No. 21</b>	 <b>Aluminium sanitary ventilator</b> (Ø 125 mm, Ventilation cross section = 122 cm <sup>2</sup> )
			 <b>Aluminium solar holder</b>

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Like all Ergoldsbacher clay roof tiles, the **Ergoldsbacher Forma®** 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. The Ergoldsbacher Forma® tiles is laid in rows, just like pantiles. The half tile serves solely to even out widths.

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

ERLUS aluminium roof walkway system (powder-coated) ·  
ERLUS aluminium snow-guard system (powdercoated) ·  
ERLUS aluminium antenna outlet tile · storm clamps in accordance with DIN EN 14437 etc.  
Please ask for our special accessories folder!

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.**

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.

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