


CONCRETE ROOF TILES

A FRESH EMPHASIS ON THE ROOF





MODERN MATERIAL

CONCRETE ROOF TILES

 **Modern material:** manufactured from sand, Portland cement, water and coloured pigments

 **Attractive price combined with easy installation**

 **Unique: double water traps for additional protection against the intrusion of rain**

 **100% recyclable:** ground concrete roof tiles can be completely fed back into the production process

 **Applicable on a roof pitch of 10° or more**

 **Tested to DINplus**

 **Comprehensive accessories available**



LOAD CAPACITY UP TO
**30% MORE
THAN
DINplus**



QUALITY CONCRETE ROOF TILES

Improved properties thanks to optimised sand mixture:

- Greater break resistance
- Sturdier
- Smoother
- Optimised lower edge

Further information at www.creaton.com

PRODUCT LINES

Our CREATON concrete roof tiles are available in two product lines as well as many attractive colour variations, from the gleaming perla finish to silky matt colours.

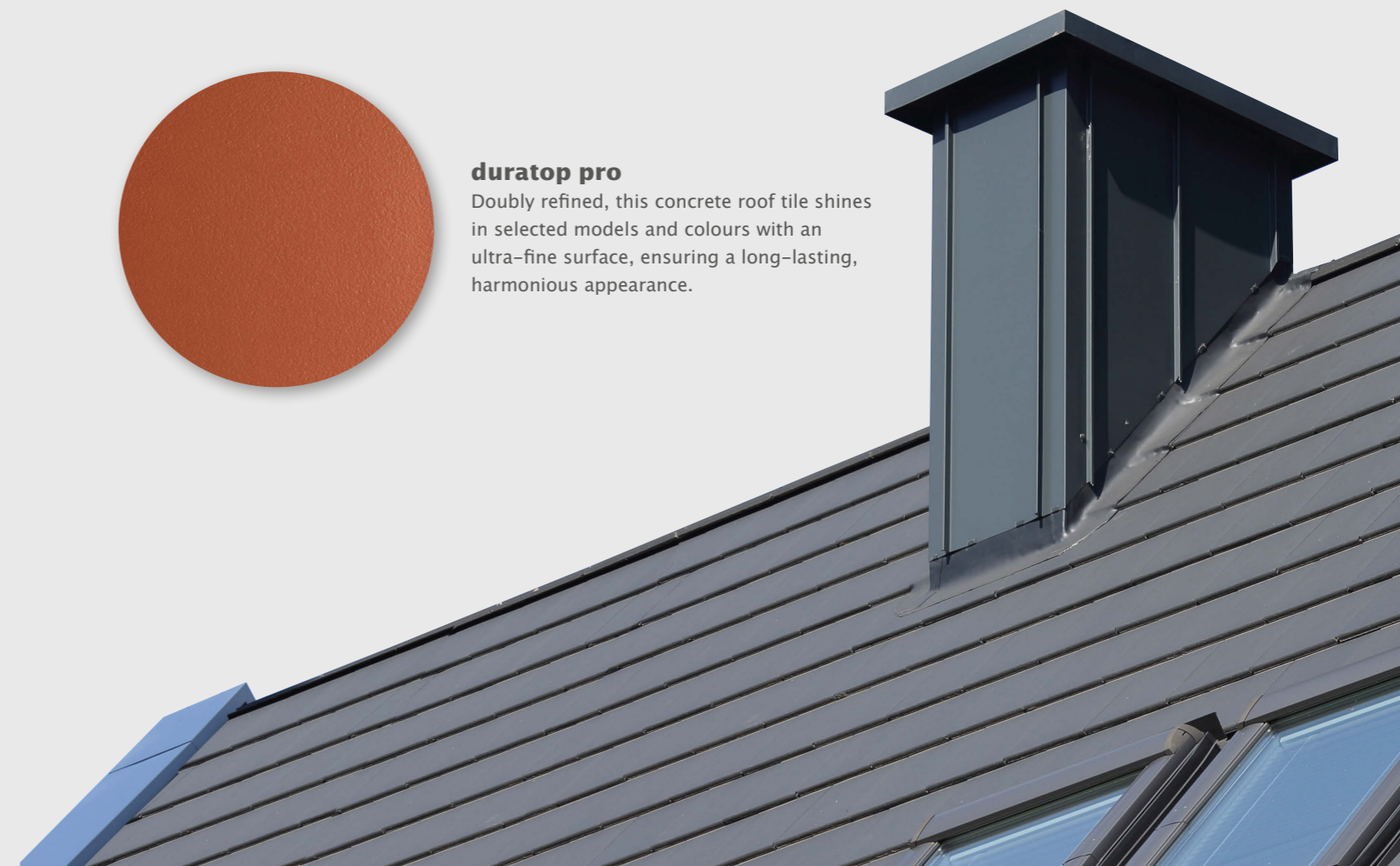
planar

This concrete roof tile offers an even finer, smoother surface, so roofs now stay clean even longer. This product line is available in a host of colours.



duratop pro

Doubly refined, this concrete roof tile shines in selected models and colours with an ultra-fine surface, ensuring a long-lasting, harmonious appearance.

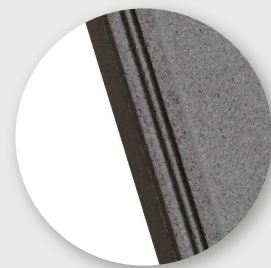


HEIDELBERG



LARGE
RANGE OF COLOURS

- 
Traditional, timeless shape for new construction and renovation
- 
Double water traps offer additional protection from rain intrusion
- 
Rounded lower edge for better water discharge and prevention of edge staining
- 
Solid support strip at the suspension lug to prevent saturation at the roof batten
- 
Distinctive bottom ribbing reduces the penetration of drifting snow or driving rain

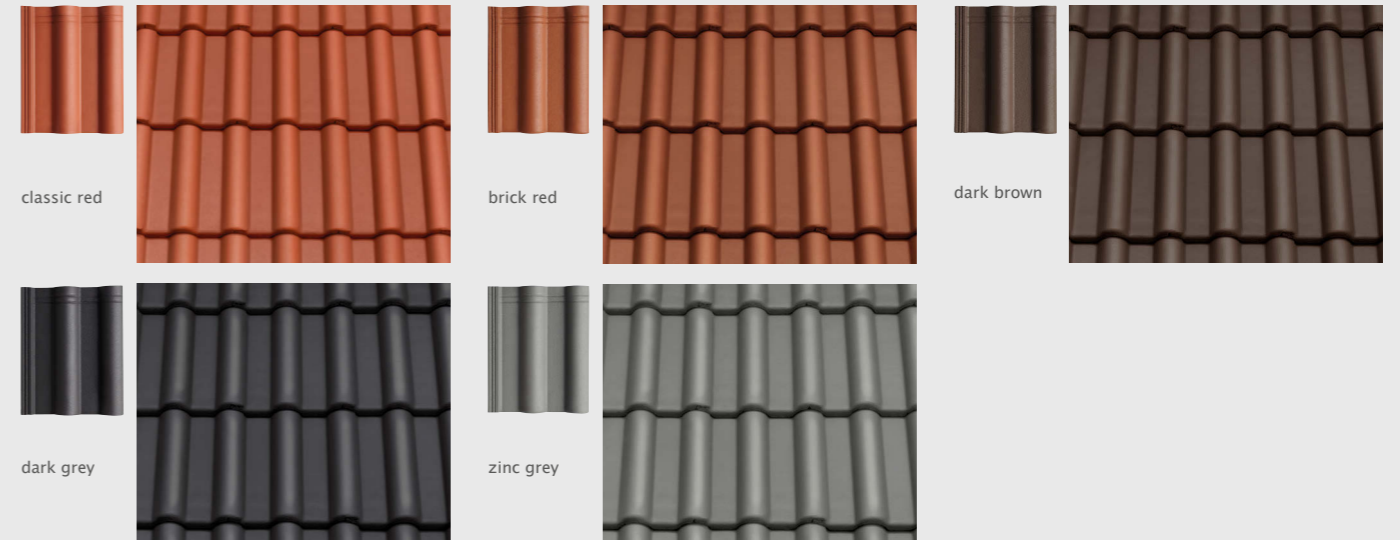


High side interlock with joint open to the side provides better water discharge, side interlock relief and better protection from premature contamination.

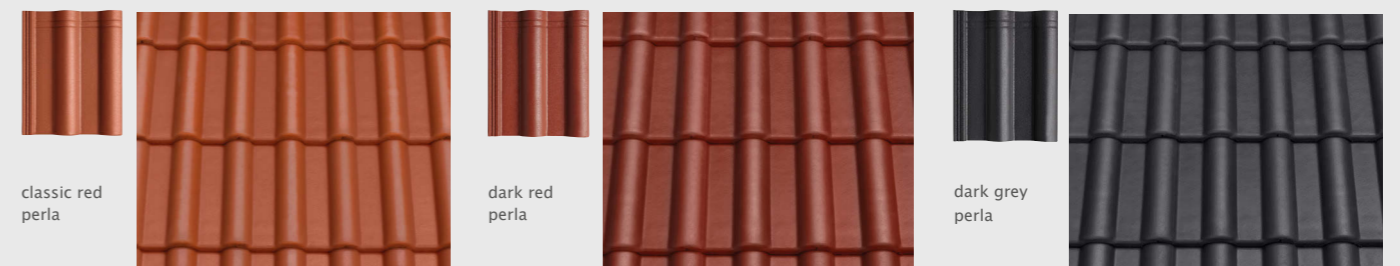


You can find more information and technical data on pages 14/15

PLANAR



PLANAR PERLA



WIND UPLIFT AND SNOW LOAD PROTECTION

On the safe side with CREATON for the new wind uplift and snow load regulation.

More on
www.creaton.de/service/windsog-sicherung
www.creaton.de/service/schneelast-sicherung



VERONA



-  **Optimal side interlock relief using unique geometry**
-  **Double water traps offer additional protection from rain intrusion**
-  **High side interlock with joint open to the side provides better water discharge, side interlock relief and better protection from premature contamination**
-  **Distinctive bottom ribbing reduces the penetration of drifting snow or driving rain**
-  **Gentle shape for a unique appearance**



Solid support strip at the suspension lug to prevent saturation at the roof batten



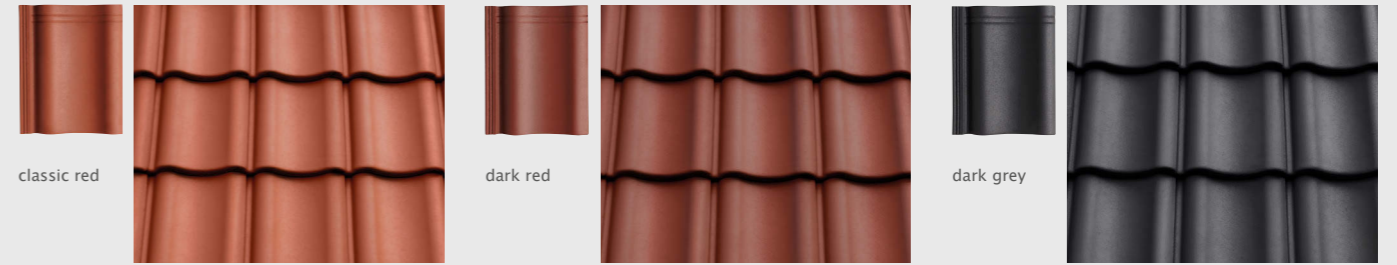
reddot design award

Received the Red Dot Design Award

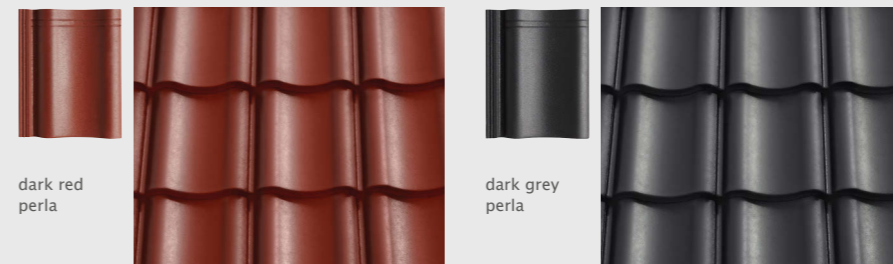


You can find more information and technical data on pages 14/15

PLANAR



PLANAR PERLA



CREATON MEDIA

SEARCH FIND SHARE

Make planning, tender preparation and installation easier with the unique CREATON online media library.






More at www.creaton-media.com



KAPSTADT



CONTINUOUS CLOSED
LOWER EDGE

- 
Modern, clear lines up to the hidden side interlock
- 
Double water traps offer additional protection from rain intrusion
- 
Deep side interlocking with joint open at the top (requires half offset installation in accordance with ZVDH specifications)
- 
Solid support strip at the suspension lug to prevent saturation at the roof batten
- 
Distinctive bottom ribbing reduces the penetration of drifting snow or driving rain



Continuously closed lower edge, even in the side interlock area



You can find more information and technical data on pages 16/17

DURATOP PRO



DURATOP PRO PERLA



Received BAU 2013 TREND Award
architecture prize

ROOF PLANNER

Request the current roof planner from us. It is also ready for you to download.

More at
www.creaton.com/profi-service/downloads



CONCRETE ROOF TILES

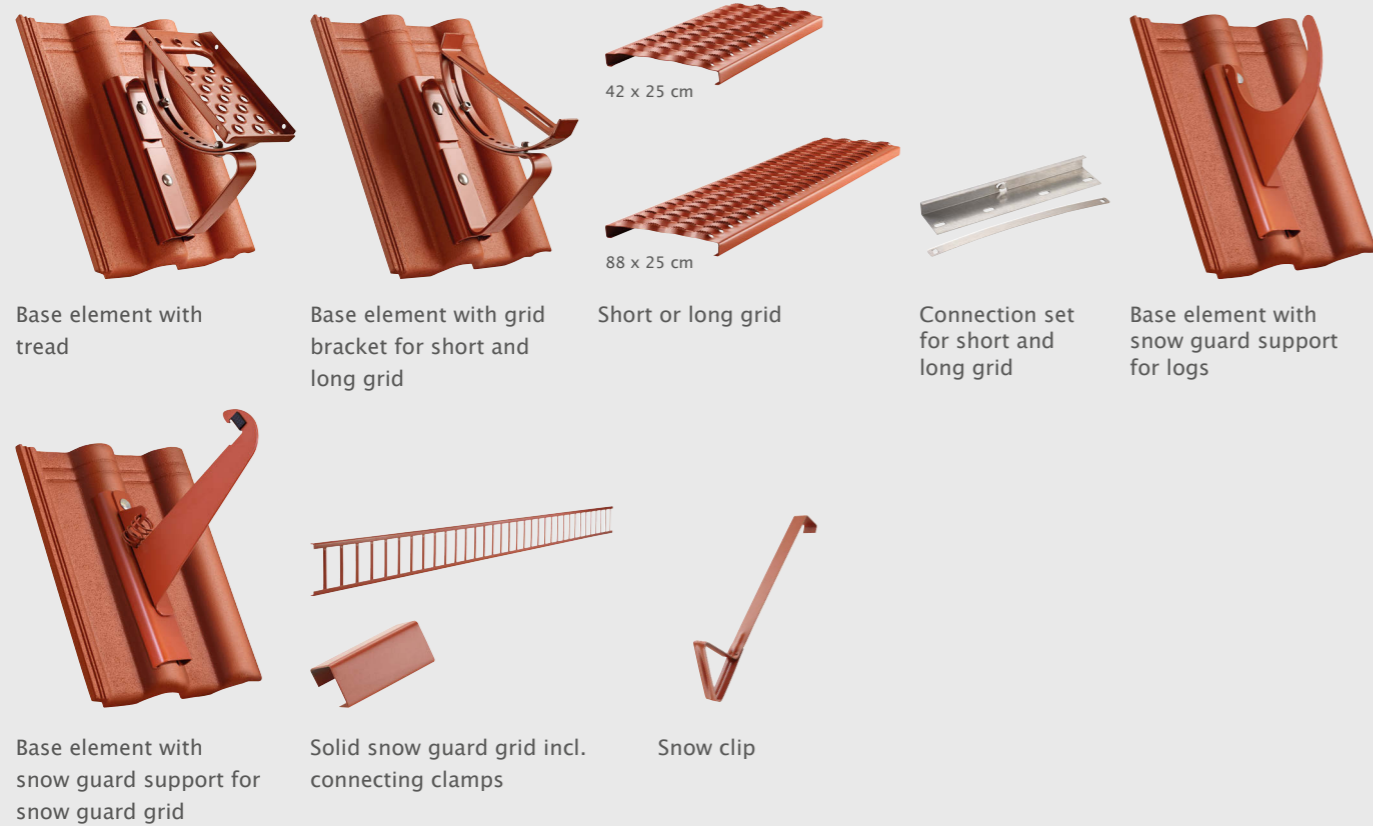
- 1 KAPSTADT dark grey
- 2 VERONA dark red
- 3 VERONA dark red
- 4 KAPSTADT dark grey
- 5 HEIDELBERG classic red
- 6 HEIDELBERG dark grey
- 7 HEIDELBERG classic red
- 8 HEIDELBERG dark grey



SNOW PROTECTION AND ROOF ACCESS

Durable, safe and easy to install

In order for roof work or chimney maintenance to be carried out with a high level of safety, CREATON step systems not only provide a secure hold, but also withstand the weather and are durable. Permanently installed system solutions make temporary installation of ladders or hooks for roof work redundant. The product range in terms of snow guard systems is also diverse. The advantage is direct installation while covering the roof. No changes that could impair their function need to be made to the concrete roof tiles. And, naturally, the snow guard systems match the roof colour.



ROOF VENTILATION AND PENETRATION

The solution for all kinds of roof penetrations

There are also products for reliable roof ventilation and penetration to match concrete roof tiles in the CREATON product range. The basis is a PVC base plate that matches the particular concrete roof tile model. If necessary, different outlet vents adjustable to the roof pitch as well as aerial entries, solar entries and flue pipe adapters can be combined. The plastic base plate and the respective combination products are available in the classic universal colours.



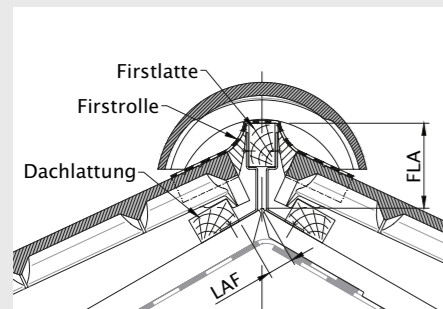
Also available as a kit:



HEIDELBERG/VERONA TECHNICAL DATA



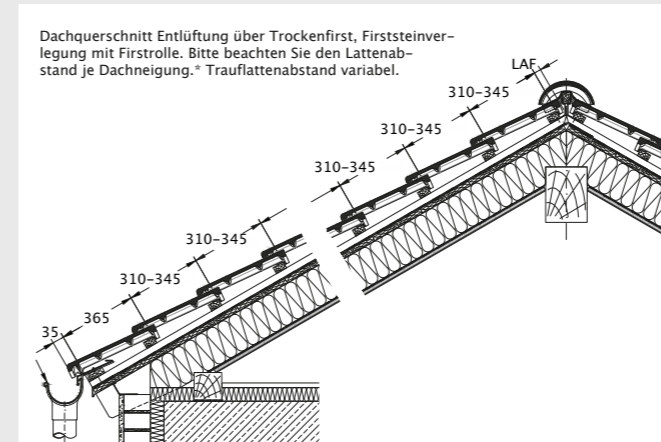
Coverage width	min.	approx. 300 mm
	average	approx. 300 mm
	max.	approx. 300 mm
Gauge*	min.	approx. 310 mm
	average	approx. 328 mm
	max.	approx. 345 mm
Tile requirement	min.	approx. 9.7 units/m ²
	average	approx. 10.2 units/m ²
	max.	approx. 10.7 units/m ²
Unit weight	approx. 4.5 to 4.7 kg	
Package	40 units each	



HEIDELBERG, VERONA, ridge tile (requirement: 2.5 units per rm.)

	Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
Bearing battens 30/50	LAF	-	35	33	32	30	29	28	26	25	25	25
	FLA	-	113	107	102	98	93	89	85	82	79	76
Bearing battens 40/60	LAF	-	35	33	32	30	29	28	26	25	25	25
	FLA	-	122	117	112	108	104	101	98	92	89	86

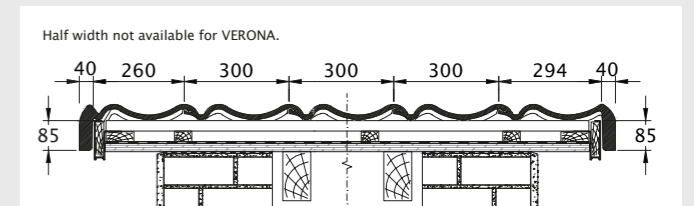
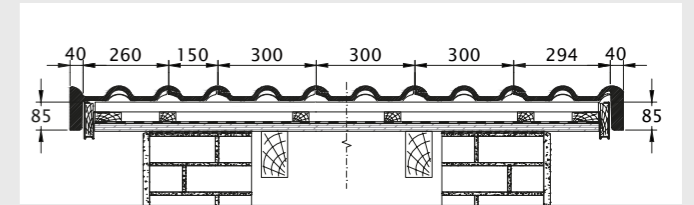
A matching, half-round ridge/hip tile is available for the CREATON HEIDELBERG and VERONA concrete roof tiles. This ridge/hip tile is laid with an approx. 50 mm overlap. Each ridge/hip tile must be directly attached to the substructure at the overlap with a ridge/hip clip/screw combination and a minimum of one more screw for the ridge/hip clip. Use corrosion-proof screws with a diameter of 4.5 mm and a minimum screw depth of 24 mm.



Vertical overlap

Roof pitch	Vertical overlap	Batten spacing
> 30°	75 – 110 mm	310 – 345 mm
≥ 22°	85 – 110 mm	310 – 335 mm
< 22°	100 – 110 mm	310 – 320 mm

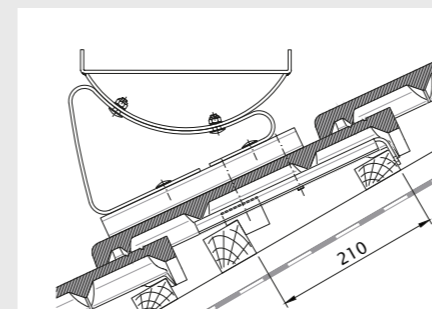
The side closure of the roof covering is usually made with verge tiles. Every verge tile must be fastened to the roof battens with at least one 4.5 mm dia. screw, screw depth ≥ 24 mm. All verge tiles are available with 90 mm or 120 mm notches. You can find information about the relationship of notch to batten spacing



Verges

Notch	Overlap	Batten spacing
90 mm	75 – 85 mm	335 – 345 mm
120 mm	86 – 110 mm	310 – 334 mm

in the table. The vertical flat leg of the verge tile covers 85 mm with HEIDELBERG and VERONA concrete roof tiles.



Snow protection and roof access product range for profiled concrete roof tiles

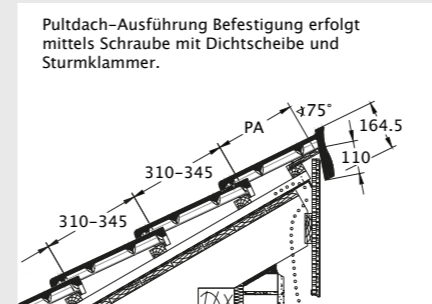
Battens	Rafter spacing (centre to centre)	Support batten cross-section	Wood screws	Support batten spacing
3 x 5 cm	≤ 80 cm	50 x 60 mm	6 x 100 mm	21 cm
4 x 6 cm	≤ 100 cm	60 x 60 mm	6 x 120 mm	21 cm

The support batten is screwed in 21 cm below the uphill batten (see drawing). It must be fastened to at least 2 rafters with 2 wood screws (length per table). The screw holes must be pre-drilled. The roof pitch limits for roof access products are 15°–55°.

Shed ridge tiles for profiled concrete roof tiles

Overlap	Batten spacing	Ridge distance
110 mm	310 mm	255 mm
105 mm	315 mm	260 mm
100 mm	320 mm	265 mm
95 mm	325 mm	270 mm
90 mm	330 mm	275 mm
85 mm	335 mm	280 mm
80 mm	340 mm	285 mm
75 mm	345 mm	290 mm

To fasten the concrete roof tiles, every shed ridge tile must be secured to the battens with a storm clip at the lower edge and a 4.5 mm dia. stainless steel screw with sealing washer at the upper edge, screw depth ≥ 24 mm. Due to the smaller batten spacing for the shed ridge tile, ensure that the shed ridge tiles have the same pitch as the surface tiles. Depending on design, it may be necessary to install a larger batten and/or adjust the batten spacing for the shed ridge tiles.

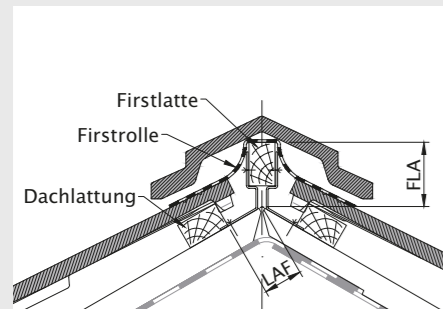


* Batten spacing/gauge depends on the roof pitch.

KAPSTADT TECHNICAL DATA



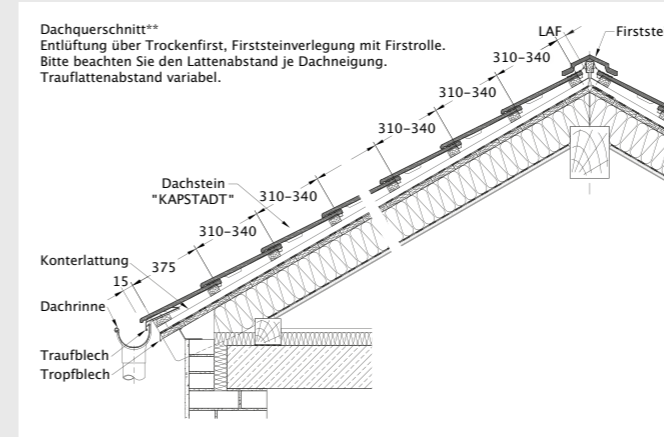
Coverage width	min.	approx. 300 mm
	average	approx. 300 mm
	max.	approx. 300 mm
Gauge *	min.	approx. 310 mm
	average	approx. 325 mm
	max.	approx. 340 mm
Tile requirement	min.	approx. 9.8 units/m ²
	average	approx. 10.2 units/m ²
	max.	approx. 10.7 units/m ²
Unit weight	approx. 4.7 kg	
Package	36 units each	



KAPSTADT ridge tile (requirement: 2.3 units per rm.)

	Roof pitch	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°
Bearing batten 30/50	LAF	-	45	45	45	45	45	45	45	45	-	-
	FLA	-	102	92	83	74	68	61	55	48	-	-
Bearing batten 40/60	LAF	-	40	40	40	40	35	35	35	35	-	-
	FLA	-	112	103	94	86	80	75	70	64	-	-

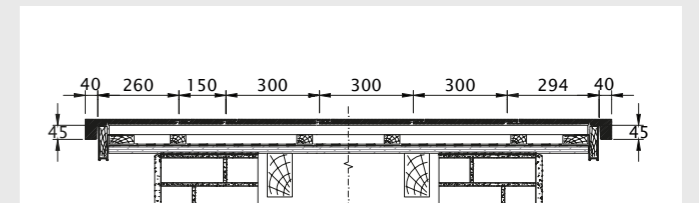
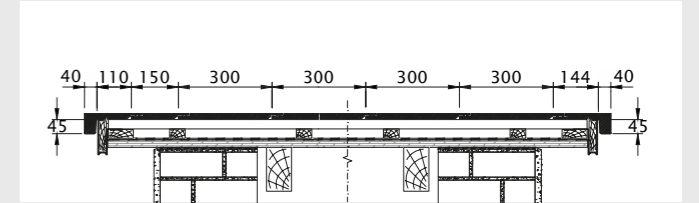
The ridge/hip tiles for KAPSTADT concrete roof tiles are laid on the upright ridge/hip batten without overlap. Fastening is done with a specially-developed ridge/hip clip on the upright 30/50 mm ridge/hip batten. If wider ridge/hip battens are used, it may be necessary to support the ridge/hip clip to prevent tipping. An adequate ventilation opening must also be provided. The ridge/hip batten height for a given pitch can be found in the table above. Intermediate roof pitches can be interpolated. When installing the ridge/hip clip, ensure that the sealing strip of the ridge/hip clip is centred between both of the ridge/hip tiles being installed to achieve lasting functional water discharge.



Vertical overlap

Roof pitch	Vertical overlap	Batten spacing
> 35°	80 - 110 mm	310 - 340 mm
≥ 25°	95 - 110 mm	310 - 325 mm
< 25°	105 - 110 mm	310 - 315 mm

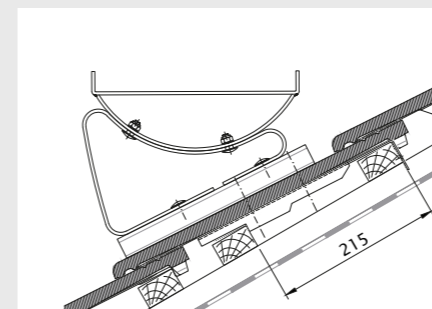
The side closure of the roof covering is usually made with verge tiles. Every verge tile must be fastened to the roof battens with at least one 4.5 mm dia. screw, screw depth ≥ 24 mm. Since KAPSTADT concrete roof tiles are always



Verges

Notch	Overlap	Batten spacing
90 mm	80 - 85 mm	335 - 340 mm
120 mm	86 - 110 mm	310 - 334 mm

installed in a half offset pattern, whole and half tiles are available. All verge tiles are available with 90 mm and 120 mm notches. You can find information about the relationship of notch to batten spacing in the table.



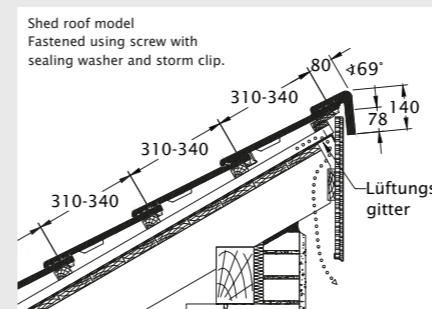
Snow protection and roof access product range for flat concrete roof tiles

The same batten cross-section is used for the roof covering and support battens. The additional support batten is screwed in 215 mm below the uphill batten. It must be supported by at least 2 rafters and be fastened with two 6 x 100 mm screws at each rafter. The top ends of the base elements are fastened to the battens with 4.5 x 45 mm corrosion proof wood screws. Base elements with brackets for walkway gratings must be plumbed after installation of the bracket and fastened with the self-locking nuts. Every walkway grating must be supported by 2 brackets. The walkway gratings must be attached to the base elements with the supplied bolts. Multiple adjoining walkway gratings must be connected with the connection set (available separately).

Base elements with support for snow guard grids are preferably installed in the second or third row of concrete roof tiles or in other tile rows, depending on the local demands. Multiple snow guard grids must be connected with 2 connecting sleeves (available separately) per joint.

Shed roof model

To fasten the concrete roof tiles, every shed ridge tile must be secured to the battens with a storm clip at the lower edge and a 4.5 mm dia. stainless steel screw with sealing washer at the upper edge, screw depth ≥ 24 mm. The batten spacing at the ridge closure is identical to the batten spacing for the other surface tiles.



* Batten spacing/gauge depends on the roof pitch.

CREATON ROOF MEMBRANES



CREATON roof membranes provide you with great protection with **economical, cost-effective** sub-roof assemblies, even with low roof pitches.



Additional measures according to CREATON manufacturer's data

CREATON pitch limit

In combination with the following additional measures as per manufacturer's data:

a) Installation of trussing sheet/glued sub-roof without nail seals

Potential CREATON products: DUO extra, TRIO extra, QUATTRO longlife extra

b) Installation of trussing sheet/glued sub-roof without nail seals

Potential CREATON products: DUO longlife ND extra

c) Installation of trussing sheet/glued sub-roof with nail seals

Potential CREATON products: DUO extra, DUO longlife ND extra, TRIO extra, QUATTRO longlife extra

d) Installation as rain-proof sub-roof

Potential CREATON products: DUO longlife ND extra, TRIO extra, QUATTRO longlife extra

e) Installation as watertight sub-roof

Potential CREATON products: QUATTRO longlife extra

f) Installation as watertight sub-roof in 7° special solution – please note separate installation guides in this context!

Potential CREATON products: QUATTRO longlife extra

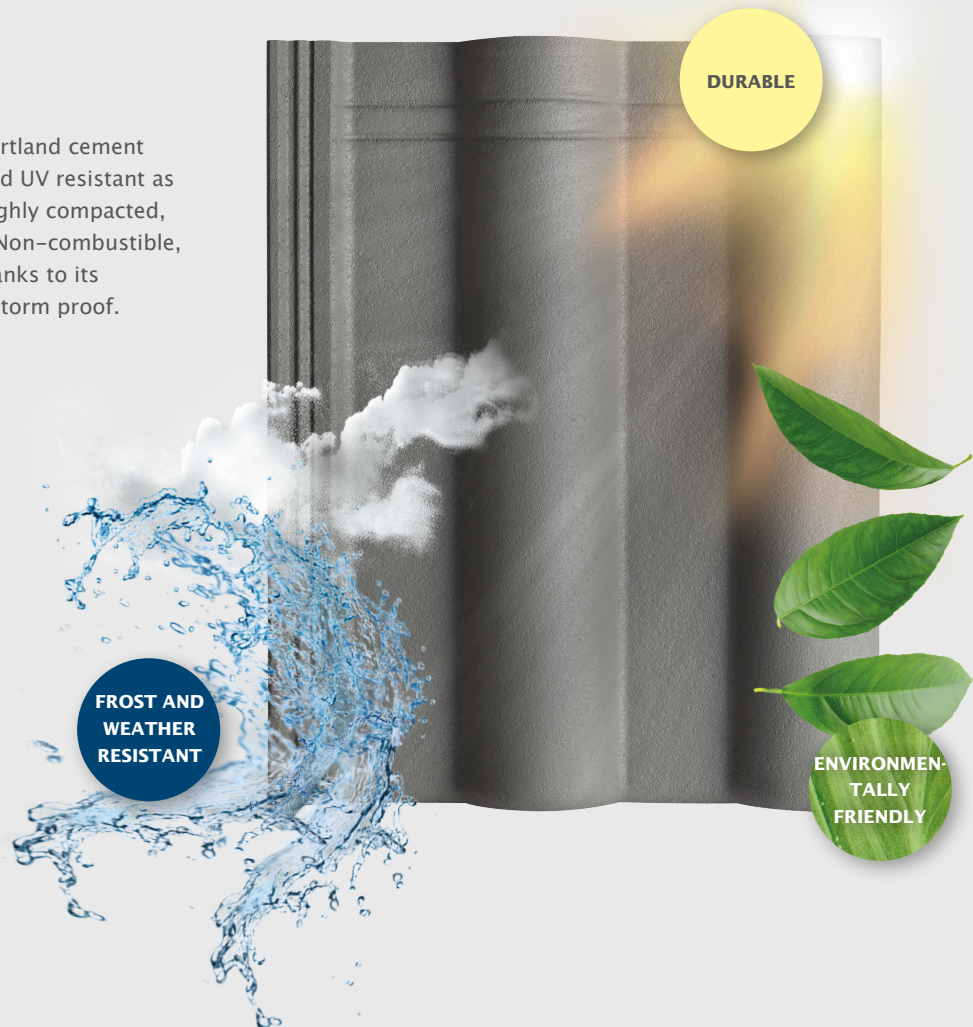
Trussing sheet/overlapped sub-roof without nail seals, now only intended for subordinate buildings such as sheds. Installation only according to ZVDH specifications.

The CREATON pitch limit is based on our decades of product experience with clay roof tiles and fluidics investigations. Due to improved rain resistance, they differ from the specifications of national rules such as German Roofing Trade (ZVDH) rules or Austrian standards (ÖNORMEN). The specific manufacturer's data with respect to the execution of additional measures must therefore be observed. This must be agreed with the building owner. Formulation example: "The selection and execution of sub-roof products for the additional measures depart from the trade rules. The CREATON manufacturer's data is authoritative. The building owner has been informed of this and agrees."

	Minimum roof pitch CREATON	Minimum additional measures					
		a	b	c	d	e	f
HEIDELBERG	18°	≥ 18°	≥ 14°	≥ 14°	≥ 12°	≥ 10°	-
VERONA	18°	≥ 18°	≥ 14°	≥ 14°	≥ 12°	≥ 10°	-
KAPSTADT	21°	≥ 21°	≥ 17°	≥ 17°	≥ 15°	≥ 10°	-

CREATON ROOF TILES

Manufactured from sand, Portland cement and water. Weather, frost and UV resistant as well as colour-fast with a highly compacted, ultra-hard surface coating. Non-combustible, water-impermeable and, thanks to its inherent weight, especially storm proof.



Moisture and frost resistant



UV resistant



Non-combustible



Environmentally friendly