

CAMBRIDGE XTREME 9,5°

First **selfadhesive laminated shingle** in the world



XTREME
SLOPE

$\geq 9,5^\circ (!)$
 $\leq 90^\circ$



Cambridge Xtreme 9,5°
Xtreme unique!

CAMBRIDGE **XTREME 9,5°**

cambridge
xtreme

Cambridge Xtreme 9,5°



Xtreme **safety**

No other shingle offers better resistance to wind driven rain in **extreme weather conditions** (storm, hail).



Xtreme **slope**

Until now, shingles have only been recommended for roof slopes between 15° (minimum) and 85° (maximum). Cambridge Xtreme 9,5° exceeds the minimum slope by more than 35%! As for the maximum slope, this new shingle can even be applied on vertical walls! So Cambridge Xtreme 9,5° opens up a whole new universe of possibilities on sloped roofs: from as low as 9,5° (!) right up to 90°. Being watertight on extreme roof slopes ($\geq 9,5^\circ - \leq 90^\circ$), this product is **unique** in its field.



Xtreme **European quality**

Thanks to state-of-the-art technology and industry leading worldwide experience, IKO succeeds in offering a European quality product that **exceeds the expectations** of even the most demanding customers.



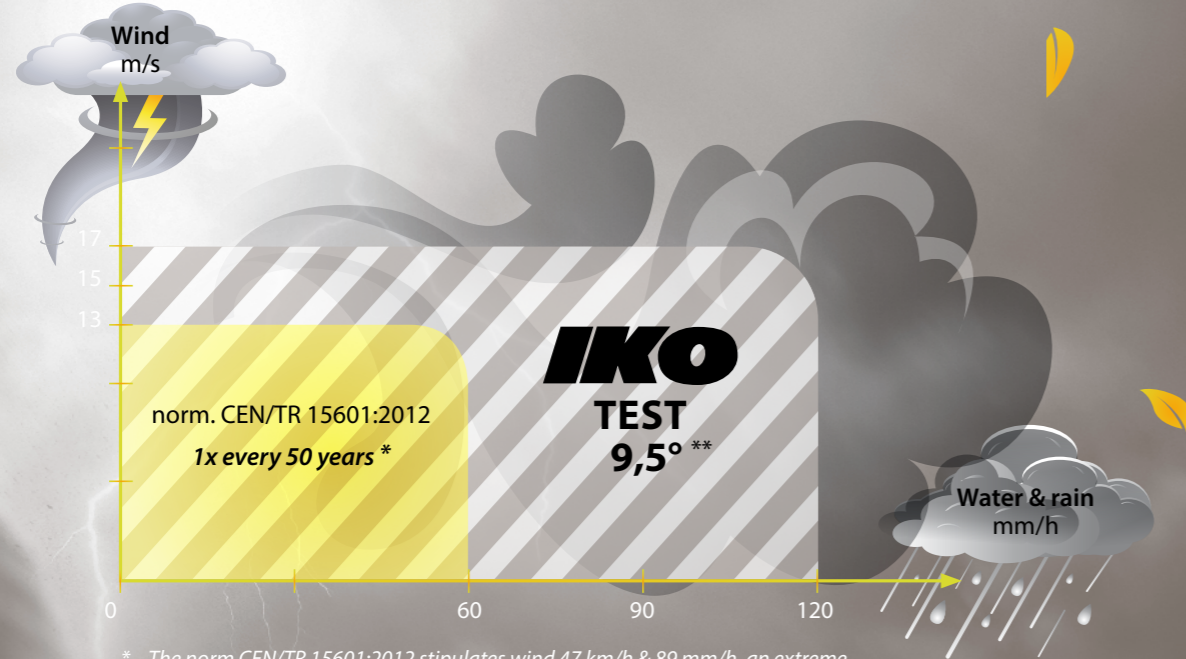
Xtreme **Platinum guarantee**

15 years full platinum guarantee and **30 years total guarantee**.



Xtreme safety

Stormwind / Rainfall combination



* The norm CEN/TR 15601:2012 stipulates wind 47 km/h & 89 mm/h, an extreme situation that occurs only once per 50 years in Europe (BRE Institute)
 ** Test in KIWA-BDA Institute Netherlands 2014

Testresults according norm CEN/TR 15601:2012

Wind: 13 m/s
Rain: 60 mm/h

Clay tiles

Wind: 13 m/s
Rain: 60 mm/h

IKO 9,5°

empty

Cambridge Xtreme 9,5°

Thanks to its **self - adhesive character**, this strong and durable shingle withstands the most severe wind driven rain. The result must be that no rain infiltrates through the roof and the glass of water stays empty.

cambridge
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XTREME SAFETY FOR YOUR HOME

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_ FRONT

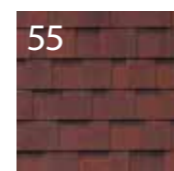
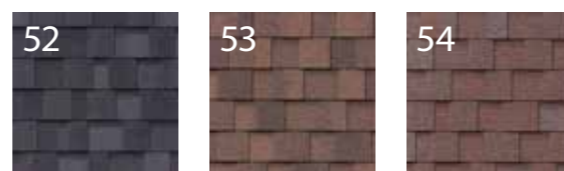
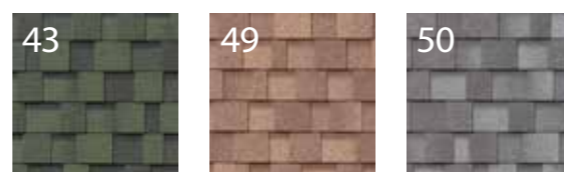


_ BACK



Cambridge **Xtreme 9,5°**

Colours



- 43 Amazon Green
- 49 Earhtone Cedar
- 50 Harvard Slate
- 52 Dual Black
- 53 Autumn Brown
- 54 Aged redwood
- 55 Riviera Red

Technical data

Width* (EN 544)	1038 mm (± 3)
Height (EN 544)	349 mm (± 3)
Weight	± 13,1 kg/m ²
Coverage/bundle	2,17 m ²
Shingles/bundle	14
Bundles/pallet	54

Granule adhesion (EN 12039)	max. 1,2 g
Tensile strength (width)* (EN 12311-1)	850 N/50 mm
Tensile strength (height)* (EN 12311-1)	550 N/50 mm
Elongation width* (EN 12311-1)	3,50 %
Elongation height* (EN 12311-1)	3,50 %
Nails shank tear resistance* (EN 12311-1)	140 N
Wind resistance (tunnel test: slope 25°)	up to 200 km/h

External fire performance (EN 13501-5)	Broof(t1)
Reaction to fire (EN 13501-1)	Class E

(* Registered average values)

Application instructions

➤ Roof Deck

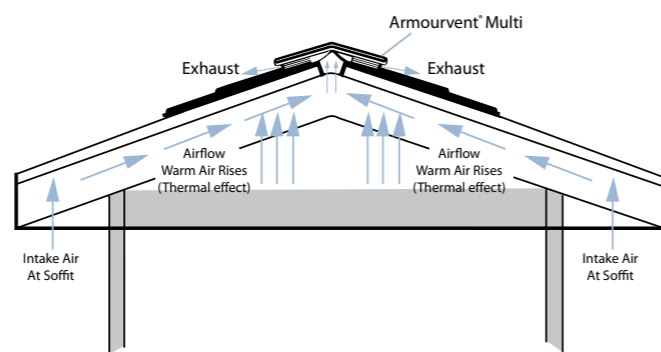
- Cambridge Xtreme 9,5° shingles are for application to roof decks consisting of Plywood, OSB or sheathing boards;
- Plywood or OSB shall be exterior grade and wooden boards must be maximum 15 cm wide. Roof deck must be smooth, dry and free from warped surfaces;
- The thickness of the deck depends on the span between the beams. Check your local building code regulations;
- For roofs having pitches from 9,5° to 15° only Plywood or OSB boards can be applied!



➤ Ventilation

It is essential to allow heat dissipation and water vapor to escape the roof system through proper ventilation. Therefore, **air must be able to circulate freely** between insulation and the nailable roof deck, from the eaves to the ridges.

Most major building codes require a minimum ventilation ratio of 1 m² net ventilating area per 300 m² of attic floor space (1:300). It is always divided evenly between the eaves and the ridge.



Proper ventilation is crucial to **extend the life of the shingle roof**

For low slope roofs between 9,5° and 15° you can use **Armourvent Multi**, but use extra plastic cement and end caps!



IKO Armourvent® Sanitary is an ideal ventilation for your bathroom or kitchen.

Even when it's raining, this ventilation **removes humidity** from the room. Also for low slope roofs.



➤ Underlayment

An underlayment must be applied over the entire deck before the installation of Cambridge Xtreme 9,5° shingles.

Slopes > 9,5° - 15°

Parallel to eaves install self-adhesive underlayment, IKO Armourbase Stick or similar self-adhere base sheet. End laps must be 15 cm and horizontal 10 cm or use IKO Armourbase Pro with a horizontal overlap of 50 cm, nailed and glued with IKO Shingle/Plastal Stick.



Slopes > 15° - 20°

Use IKO Armourbase PRO or ECO underlay or similar base sheet with 50% of overlapping to provide a double coverage. Self-adhesive underlayment in one layer is also recommended.

Slopes > 20° - 90°

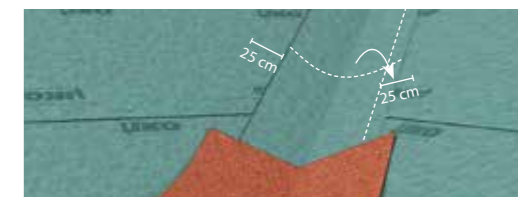
The entire roof deck should be covered with any IKO Armourbase underlay or an approved shingle underlayment.

➤ Open Valley Method



IKO recommends for a Cambridge Xtreme 9,5° roof with open valley method using **Armourvalley** (for low slopes ≤15°)

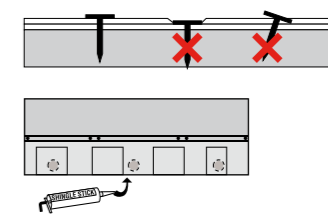
- 1 _ Snap two chalk lines from the ridge to the eaves 8 cm apart increasing in width by 1 cm per meter towards the eaves;
- 2 _ Trim the shingles to these lines and cut a 5 cm triangle off the top corner to direct the water into the valley;
- 3 _ Glue the valley end of each shingle with IKO Shingle Stick;
- 4 _ Nail the shingles 5 cm back from the chalk line.



➤ Nailing & sealing

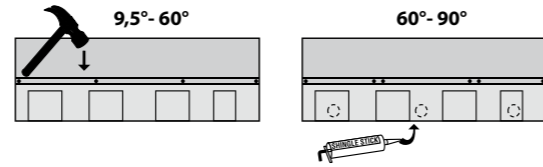
Proper fastening is essential for a good roof.

- Drive the nails straight so that the nail heads are flush with, but not cutting into the shingle surface;
- During cold weather application extra cement must be added in the same manner;
- Linear apply **ONLY** a thin uniform layer of asphalt plastic cement less than 3 mm thick and 25 mm up from the bottom of the shingle;
- Excess amounts can cause blistering and sticking of the shingles!
- Nail positioning : use 4 nails per shingle placed in the nailing lane, approximately 2,5 cm and 33 cm in from each end.



Note:

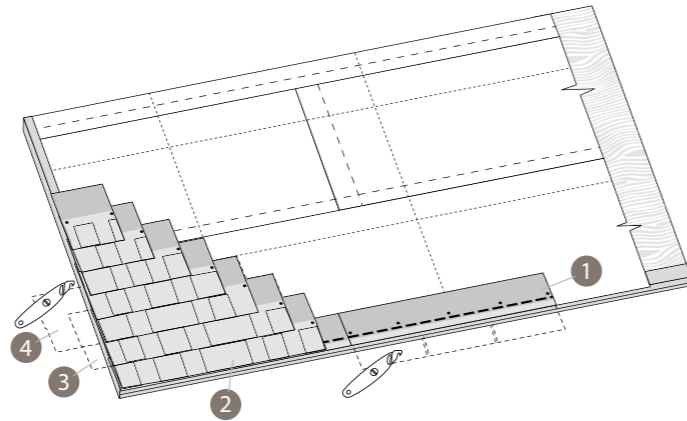
Steep slope application (> 60°) require extra nails (six nails per shingle)



➤ Starter Strip

Starter course may consist of IKO Starterstrip for Cambridge or 3-tab Superglass shingle.

- If Superglass 3-tab shingles are used, remove the exposed tab portion and install with factory self-sealing dots to the eaves;
- Begin the starter strip by cutting the strip half a tab short so that its joints will not line up with the joints of the first course of shingles;
- The starter strip should overhang the eaves by 6 - 10 mm and the rakes where applicable (1);
- Use asphalt plastic cement to glue the starter with the underlay and underlay with the metal drip edge.



➤ First courses & application procedure

First course (2):

- Start with a complete shingle applied flush with the starter strip at rakes and eaves;
- Do not forget to remove the white foil from the back side of each shingle before installation.

Second course (3):

Cut off 25 cm from the left end of the Cambridge Xtreme 9,5° shingle and start at the rake end.

Third and succeeding courses (4):

- Start the third course with a shingle from which 50 cm has been cut;
- Cut off an additional 25 cm for each succeeding course;
- Continue across the roof with full shingles;
- Note that other offsets between 10 - 25 cm are permitted;
- Snap a chalk line about every 6 courses to check parallel alignment with eaves;
- For maximum protection against wind driven rain, cement the shingle at the rake edges.



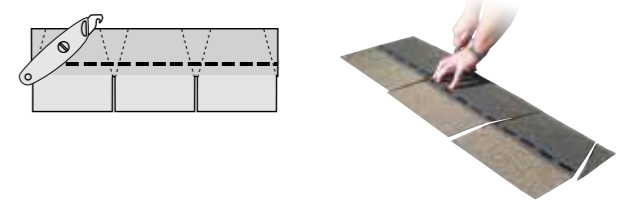
➤ Hips & Ridges

- Cut Superglass 3-tab shingles into individual pieces by dividing the shingle at the cut-outs;
- Bend each piece over the hip or ridge and nail 16 cm above the tab edge, 2,5 cm from each side, exposing each piece 14 cm to the weather;
- The final cap shingle and exposed nails should be glued with Shingle Stick;
- In cold weather warm the shingle before bending;
- Double hip and ridge overlapping create a unique look.

Starterstrip for **Cambridge Xtreme 9,5°** roof (21 m/bdl)



Ridge shingle for **Cambridge Xtreme 9,5°** (9 m/bdl)



Renovation with Cambridge Xtreme 9,5° and roof slope between 9,5° and 15°



Do not use the shingle over shingle-technique.



Tear off the old shingles and start building up with OSB, Underlayment and Cambridge Xtreme 9,5°.





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