

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



Clay tiles



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.

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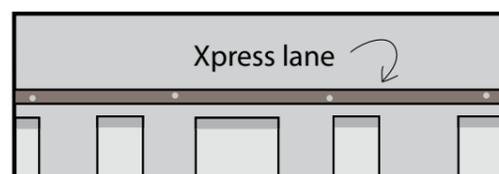


XTREME  
SAFETY  
FOR YOUR  
HOME

cambridge  
**Xpress**



\_ 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

<b>Width</b> (EN 544)	1038 mm (± 3)
<b>Height</b> (EN 544)	349 mm (± 3)
<b>Weight</b>	11,8 kg/m <sup>2</sup>
<b>Coverage/bundle</b>	3,1 m <sup>2</sup>
<b>Shingles/bundle</b>	20
<b>Bundles/pallet</b>	45

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

<b>External fire performance</b> (EN 13501-5)	B <sub>roof</sub> T <sub>1</sub> ; B <sub>roof</sub> T <sub>3</sub>
<b>Reaction to fire</b> (EN 13501-1)	Class E

(\* Registered average values)

## Application instructions

### ➤ Roof Deck

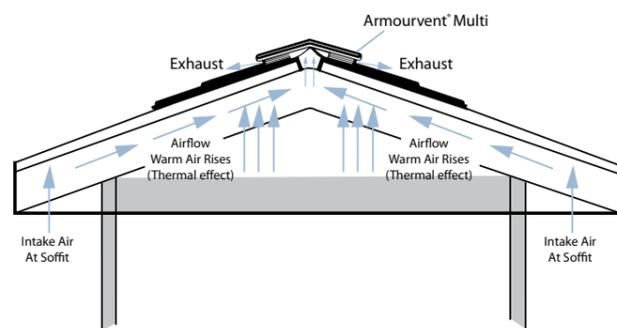
- Cambridge Xtreme 9,5° shingles are for application to roof decks consisting of Plywood, OSB or sheathing boards;
- Plywood or OSB shall be exterior grade and wooden boards must be maximum 15 cm wide. Roof deck must be smooth, dry and free from warped surfaces;
- The thickness of the deck depends on 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 m<sup>2</sup> net ventilating area per 300 m<sup>2</sup> 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°

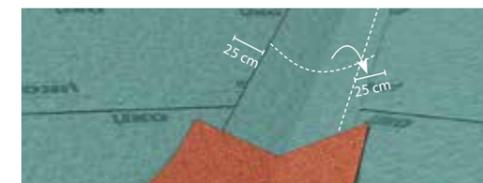
The entire roof deck should be covered with any IKO Armourbase underlay or an approved shingle underlayment.

### ➤ Open Valley Method



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

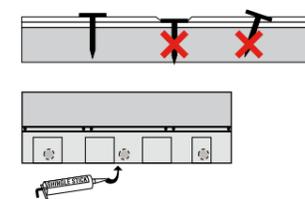
- 1 \_ Snap two chalk lines from the ridge to the eaves 8 cm apart increasing in width by 1 cm per meter towards the eaves;
- 2 \_ Trim the shingles to these lines and cut a 5 cm triangle off the top corner to direct the water into the valley;
- 3 \_ Glue the valley end of each shingle with IKO Shingle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



### ➤ Nailing & sealing

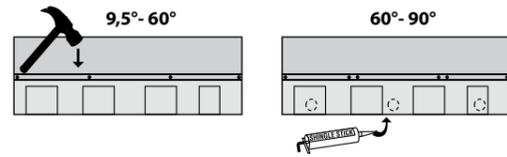
Proper fastening is essential for a good roof.

- 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:**

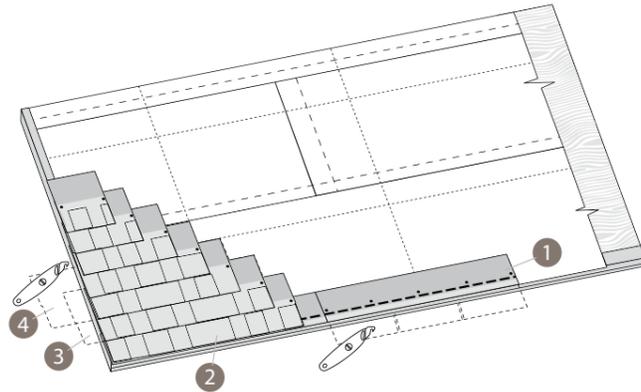
Steep slope application (> 60°) require extra nails (six nails per shingle)



➤ **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.



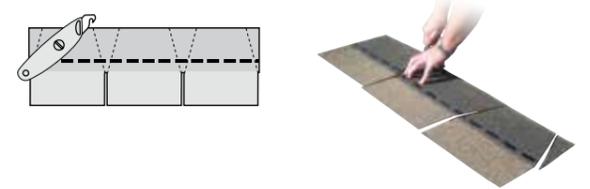
➤ **Hips & Ridges**

- 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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