

Insulated Gutters

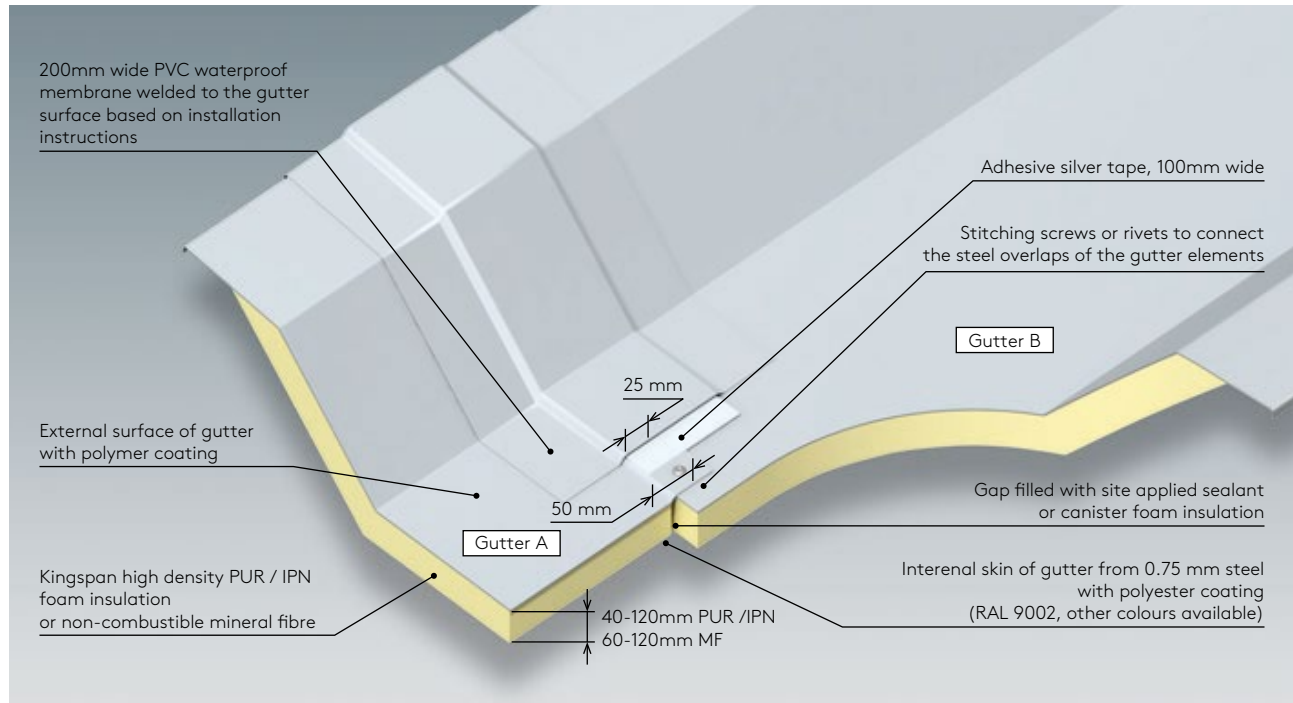
Technical Details & Instructions for Installation

Surface coated insulated gutter system



Details

Joint detail for gutter overlap

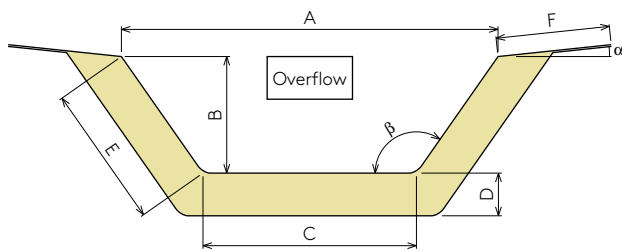


Gutter cross section versions (see details)

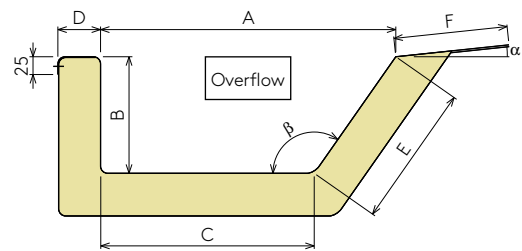
The cross-sections below are to be seen as most frequently chosen examples only. They represent only a fraction of possible gutter types and dimensions.

All variables may be altered according to bespoke customer needs. Just contact us – a simple freehand sketch is sufficient to verify its feasibility.

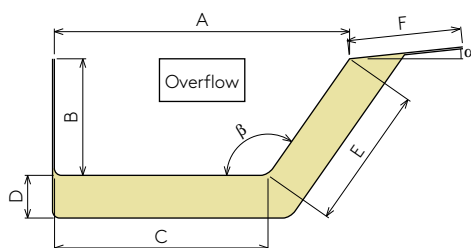
Typ L01 (IPN) / L05 (MF)



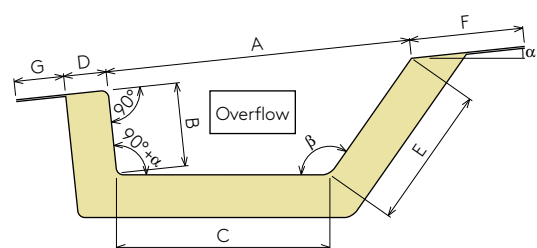
Typ L02 (IPN) / L06 (MF)



Typ L03 (IPN) / L07 (MF)



Typ L04 (IPN) / L08 (MF)



Steps for gutter installation



1. Place gutter elements and ensure the correct alignment and direction of lay.



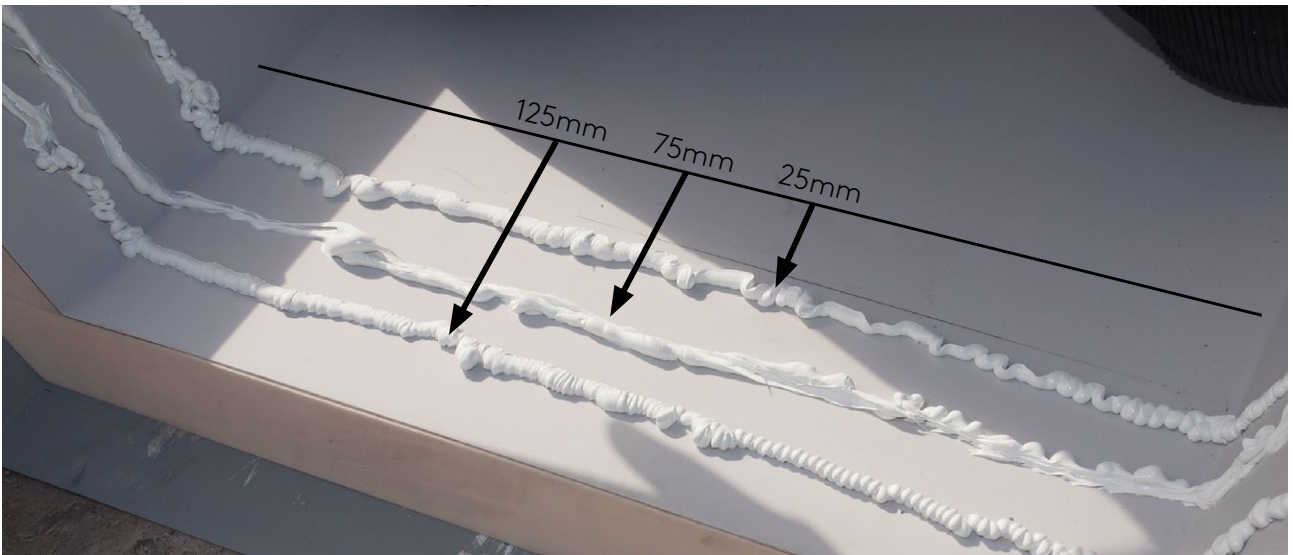
2. Mark the top overlap position of the top steel on the surface of the bottom gutter element.



3. In case the bottom gutter element is uneven it is recommended a fastening/riveting.



4. Temporary remove the top overlapping gutter element and store it on a safe surface.



5. Apply 3 lines of gungrade sealant*¹ ($\varnothing \geq 5\text{mm}$) at 25mm, 75mm & 125mm distance from the marking on the bottom gutter element.



6. Insert the upper element on place again.



7. Apply stitching screws^{*2} in the pre drilled holes or drill holes and apply closed rivets.



8. The joint and fixing area should be kept clean and dry from dust or oil prior to the insertion of the silver foil tape.^{*3} Insert the tape fully adhered to the surface.



9. Roll out and center 200mm wide PVC membrane^{*4} across the joint and over the fixings (smooth surface = internal side/grained surface = external side)



10. Weld the edges of the PVC cover strip on both sides to the gutter surface with a hot-air welding gun*⁵ based on suppliers instructions. Use a roller for a fully and evenly welded surface.

Recommended accessories and tools

- *1 – Sealant and glue by Würth
- *2 – Stitching screw 4.8 x 20 V10 (blind rivets are not include)
- *3 – Silver foil tape
- *4 – PVC membrane strip, 200mm wide
- *5 – Hot-air welding unit type Triac S or similar

Material Description

Core:

- IPN foam in thickness of 40, 50, 60, 80, 100, 120mm
- Mineral fibre in thickness of 80, 100, 120, 140mm

Coating on external side:

- PVC membrane 500 µm
- Polyester 25 µm (standard colour)
- Spectrum 50 µm (standard colour)

Coating on internal side:

Polyester 25 µm (standard colour)

Max. length of gutter/ceiling:

5,850mm (Different lengths are available upon request)

Max. unfolded width of steel:

1,250mm

Max. unfolded width of the bottom steel deck:

1,250mm

End sections of the elements:

With or without overflow available
(please check LEFT/RIGHT orientation)

In gutter package included:

- Alu adhesive tape
- 200 mm wide PVC membrane strip

Heating:

- site applied
- Please check local/national regulation to determine the required type and dimensions for the gutter system.
- The maximum production limit for Kingspan insulated gutters is the maximum unfolded width of the bottom steel deck which is 1,250mm.

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