# Plannja 🖄



# **Assembly** instructions

2023 | Classic profiles

Plannja Trend, Plannja Modern and Plannja Traditional Profile plus flashing and fittings

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## Some words of advice

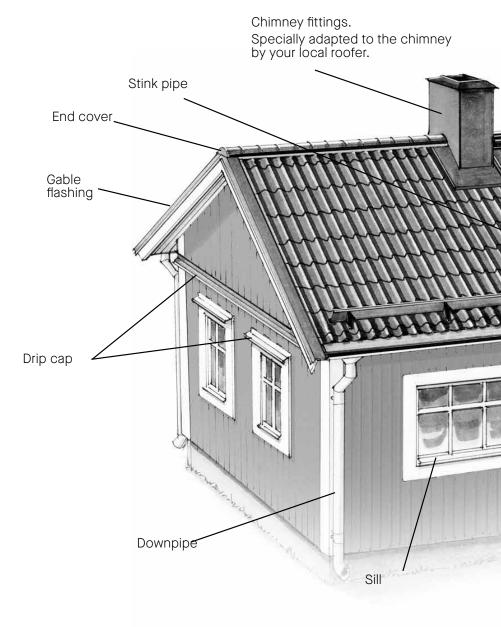
Plannja's assembly instructions were created to help both the private individual and the professional.

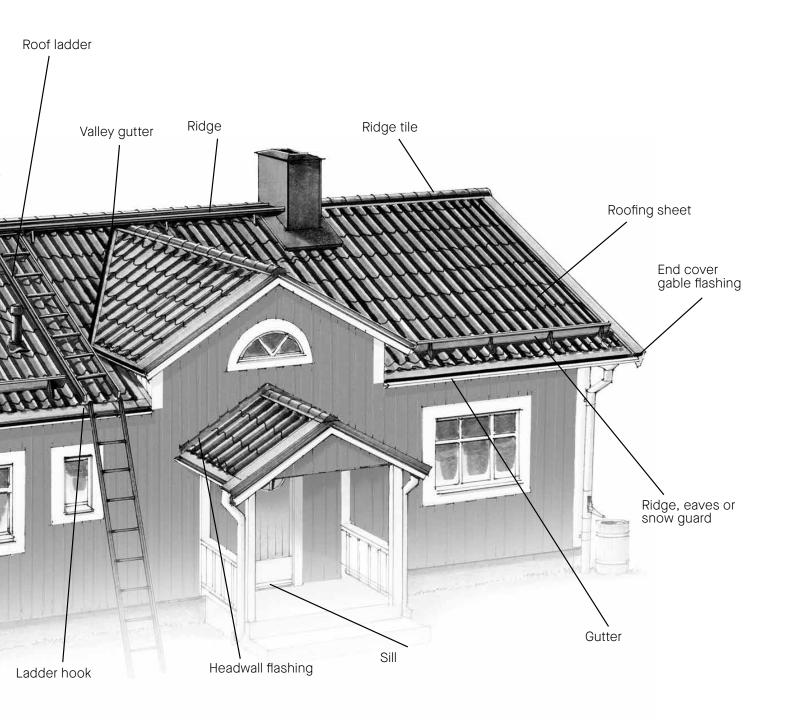
In order to make it easier for everyone to immediately find the instructions and the help they need, we have divided the assembly instructions into distinct sections. The first chapter – General preparations, roofing – is extremely important for those who have never laid a roof before.

Don't forget to stay calm and think through every step before you get to grips with the actual assembly. Good preparation and a methodical approach are the key to a perfect result. The assembly instructions must be followed for our warranty to be valid.

Plannja is Europe's leading manufacturer of thin sheet building materials. Our wide range of products means that we can provide product systems and total thin sheet solutions for almost any building project.

# **Roof components**





# Roofing





#### SHEET METAL ROOF



#### When taking delivery of roofing sheet

As far as possible, store Plannja construction panelling indoors. Cover the materials with tarpaulin when storing outdoors. If there is a risk of condensation store packages inclined. Make sure good ventilation is achieved. This applies to both steel and aluminium.

#### Avoid damage to the panelling!

Carry Plannja Roofing Tiles longer than 5 metres on edge or on a wooden frame. If they are carried flat the sheets will bend by their own weight and stretch. During subsequent assembly problems may be encountered with the fit between different sheets.

#### Sheet durability and walkability

The walkability of thin sheet profile panels is difficult to define. In general a certain degree of care must be taken when walking and working on thin sheet roofs. Walkable sheeting refers to profiled panels that will allow careful access without being damaged or suffering ugly indentations.

#### Walkability and strength are dependent on thickness

Thicker sheeting allows greater spacing between battens and provides improved walkability. For safety's sake always try to walk above or beside a batten. In the case of Plannja Roofing Tiles and Plannja Traditional Profile, always step in the profile valley when walking on the roof.

#### **ALUMINIUM ROOF**



#### Aluminium roofs are more sensitive

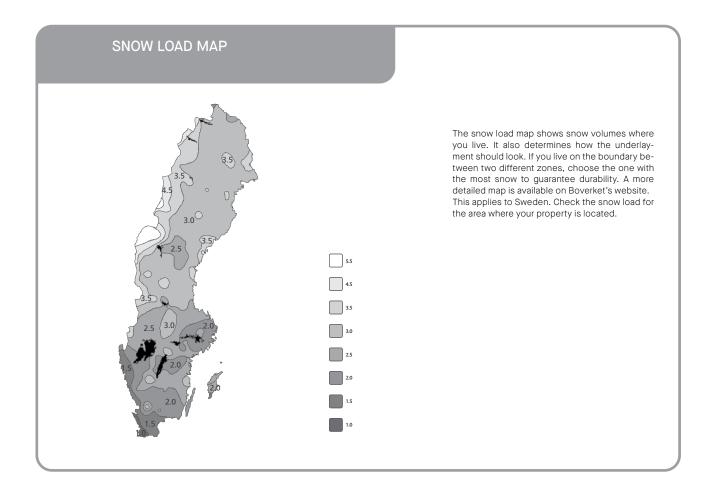
Aluminium is softer than steel. Therefore exercise extreme caution when walking on an aluminium roof. Note that Plannja 20-75 in aluminium is not walkable at all if batten spacing is the maximum 500 mm c/c.

#### IMPORTANT - ALUMINIUM ROOFS

A few things to remember when choosing an aluminium roof.

- a) Aluminium moves more than steel with temperature changes. If the pitch of the roof is more than 6 metres expansion and contraction can be handled by pre-drilling the top sheet at each end overlap with an Ø 8 mm bit before fastening the sheet. Avoid pitches longer than 12 metres!
- b) When using wooden battens, affix a strip of felt paper (see options selections) above the joists to avoid hearing a clicking noise during temperature changes. Not necessary when using Plannja Kombi battens or Renovation battens.
- c) To prevent contraction/expansion movements, fasten all flashings without shared screws in overlaps, i.e. the screws may not pass through both flashings.





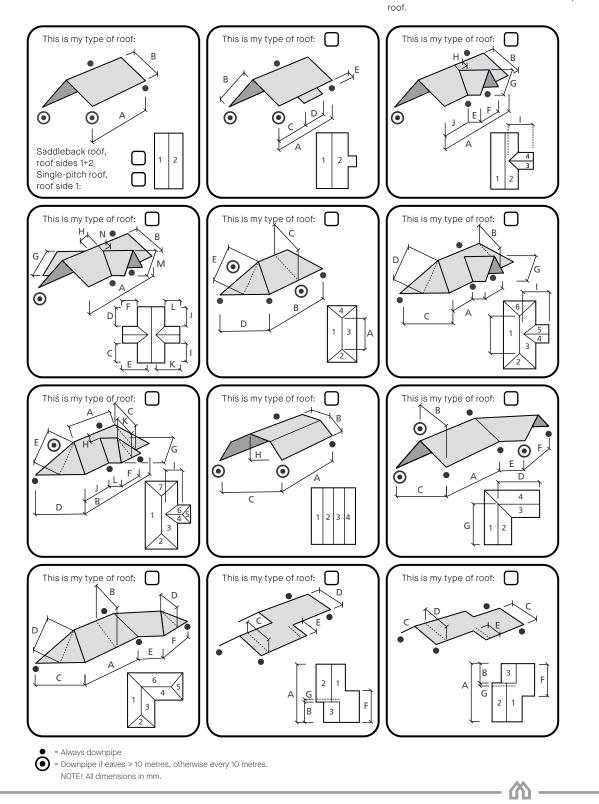
#### UNDERLAYMENT FOR SHEET The most common underlayments When building a new roof, it's usual to choose a light underlayment such as Plannja Anticon Coverall or tongue-and-groove planks/plywood, at least 17 mm thick with a felt paper underlay with a minimum quality of YAP2200 or Plannja Anticon Coverall. Read more under *Installing battens* for each type of product. B. ON TONGUE-AND-GROOVE PLANKS/ PLYWOOD Remove the old roofing. If the existing battens and counter battens are used, the battens must be moved so that the spacing corresponds to the dimensions in the assembly instructions for the roofing tiles concerned. Replace defective C. ON SHINGLES, FELT PAPER, FLAT TILES Allow the old roof to remain as underlayment. Seal any holes in the simplest manner. Roofing sheet can be laid directly on the old roof on the condition that the roof is watertight, even and that tongue-and-groove planking is in good enough condition for fasteners to hold the sheet down onto the underlayment, which must be at least 17 mm thick. However, we recommend the use of Plannja Kombi Battens, Plannja Renovation Battens or battens and counter battens.

#### HOW TO MEASURE THE ROOF

Types of roofs

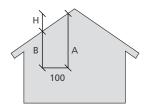
Enter the dimensions indicated for your roof type. These are needed as support data for an offer or order for your roof. If your type of roof is missing and you need help, please contact Plannia for support.

We recommend a visit to Calculate My Roof at http://beraknamittak.plannja.se You can get help there with a price estimate for a complete roof including rainwater system and all the accessories to suit the dimensions of your





Pitch angle should be checked to ensure selection of the right roofing product. Pitch angle may also affect the choice of underlayment, roof assembly and the assembly of flashings and fittings.



Calculating pitch.
Use the table on the right to calculate pitch, or use a smartphone app for the calculation.

Dimension A minus dimension B gives H, which is the height difference for calculating pitch. See table.

Rise in cm (≈)	Pitch	Rise in cm (≈)	Pitch
25	14	75	37
30	17	80	39
36	20	84	40
40	22	90	42
45	24	100	45
49	26	104	46
53	28	111	48
58	30	119	48
62	32	133	53
67	34	143	55
73	36	173	60

#### POSSIBLE ROOFING PRODUCT SELECTIONS DEPENDING ON PITCH

	Pitch in degrees				
	3.6-5.7*	5.7-8	8-10	10-14	> = 14
Product	Seal in side and end overlap				
Plannja 20 -105		X	Х	X	Х
Plannja 20 -75		X	Х	X	Х
Plannja Sinus 18				X	Х
Plannja 45 / 45R	Х	X	Х	X	Х
Plannja Sinus 51				Х	Х
Plannja Traditional				X	Х
Plannja Royal					Х
Plannja Regent					Х
Plannja Regal					Х
Plannja Trend			Х	Х	Х
Plannja Modern				Х	Х

<sup>\*</sup> With attachment strip



#### **MAINTENANCE**



Plannja roofing tiles and wall cladding normally require very little maintenance. Deposits that are not washed away by rain should be removed with a soft brush and water. Cut edges and paint damage that occur during assembly should be immediately touched up with Plannja touch-up paint. After assembly, be careful to remove all drill swarf so that the profiles do not become miscoloured.

# **Trend**







#### **PREPARATION**

Before you begin the assembly of your Plannja Roof it is important to read through the "General Preparations, roof laying" section. The section provides information and advice on how to measure your roof, what underlying materials are suitable, and much more besides.



#### DEGREE OF DIFFICULTY, INSTALLATION

When this symbol is shown, the assembly is such that a roofer or other specialist may be needed for advice or execution.



#### WORK SAFETY

Always follow applicable work safety legislation.



#### LABOUR

For safe assembly, we always recommend that at least two people perform the work.



#### TOOLS

No special tools are required for roofing sheet assembly. Nevertheless, a screwdriver can make the work considerably easier. Cut sheets using sheet metal shears, a nibbling machine or a circular saw. Never use a grinding disc. Sheet metal coatings can be damaged by swarf from the disc. A staple gun may be used for any dampening strip assembly.



#### TRANSPORT, STORAGE AND HANDLING

Plannja Trend is delivered in specially designed packaging; allow the sheets to remain in it until ready for use. Remember that long sheets may not be lifted by their ends; the best method is to carry them by the snap locks.

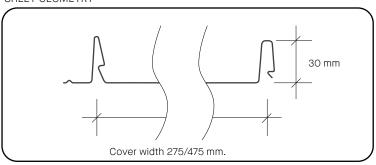




#### TECHNICAL INFORMATION

	Material	Steel / Alu*
	Coating	Hard Coat 50
		Hard Coat 25*
		GreenCoat Pro BT
		GreenCoat Mica BT
		Aluzinc
	Sheet thickness	0,6 / 0,7* mm
	Weight	7,4/6,3/2,5* m²
	Cover width	275/475 mm
	Length 475	0,7-10,0 / 0,7-6,0* m
	Length 275	0.7-7.0 m
	Minimum recommended pitch	8° (1:7)
abla	Seal in side overlap	8-14°

#### SHEET GEOMETRY





#### INSTALLATION SCREWS (\*applies for alu)

 $4,2\times25$  /  $4,2\times25$ RF\* For fastening through the punched holes 4,8×20 / 5,5×20\* For fastening sheet-to-sheet

 $4,8\times35$  /  $5,5\times35$ \* For fastening sheet to wood



Art. nr. 312001 4,8×20

Art. nr. 312411\* 5,5×20



Art. nr. 312332N 4,2×25

Art. nr. 312332RF\* 4,2×25



Art. nr. 312002 4,8×35

Art. nr. 312410\* 5,5×35



#### RECYCLING

Take care to remove sheet clippings and screws from the roof, gutters and the ground on completion of assembly. The materials are 100 per cent recyclable and can be disposed of at recycling stations.

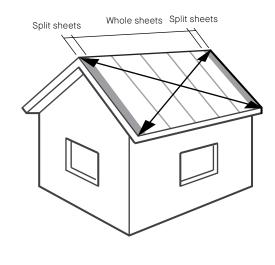
Remember to pick up or sweep up nibbling chips from the roofing sheets as they can otherwise cause damage to the coating.



#### 1

#### **ROOF MEASUREMENT**

Diagonal measuring and symmetry



Begin by checking roof measurements by measuring the diagonals form corner to corner. If the distances are unequal, the roof is skewed. In this case lay the Plannja Trend so that its lower edge aligns with the eaves. Deviations of 20–30 mm can be concealed with gable flashings.

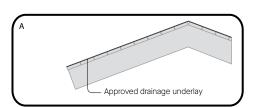
If you want the snap locks to be symmetrically distributed across the roof first measure the length of the roof in order to determine the widths of the first and last sheets. Remember to add around 30 mm to the cutting width to make the fold up to the bargeboard. Refer to step 8.

2

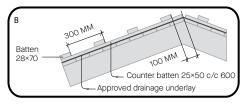
#### UNDERLAYMENT FOR PLANNJA TREND

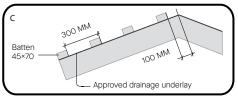
The assembly instruction illustrate alt. A





A. **Steel/Alu:** Lay Plannja Trend directly on tongue and groove boards /plywood, at least 17 mm thick and with an approved drainage underlay e.g. Plannja Anticon Coverall.





- B. **Steel:** If you choose to lay the roof on battens the minimum batten width is 70 mm and max 300 mm c/c. The final batten should be installed around 100 mm from the ridge. Always use approved drainage underlay e.g. Plannja Anticon Coverall.
- C. Steel: If your house has battens fixed directly to the trusses, the battens must be at least  $45\times70$  and max 300~mm c/c.

Lay a light underlayment beneath the batten e.g. Plannja Anticon Coverall.

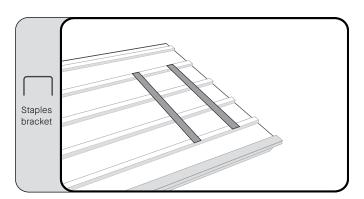
For more information on alternatives B and C, visit www.plannja.com



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#### DAMPENING STRIPS

Assembly on battens



When installing Plannja Trend 475 onto battens, glue dampening strips in the centre of each sheet from eaves to ridge. The dampening strip should run from the second lowest to the second highest batten. The aim is to reduce any sound that may be caused by wind and rain. (Applies only to steel profiles, Aluminium Is not recommended to be placed on battens, only on fully covered flat underlay)

#### Especially windy areas

However, it is not certain that noise can be prevented in especially windy areas such as locations close to the coast. In such cases we recommend Plannja Trend with SoundControl, which is a Trend variant with felt on the underside. Remember to tear off or cut away around 100 mm of the felt at the end of the sheet that will abut the eave flashing before you install the sheet.

When installing Plannja Trend on a flat underlayment, staple dampening strips beneath the centre of each profile valley from eaves to ridge. The dampening strip should cover the major part of the underlayment. The aim is to reduce any sound that may be caused by wind and rain.

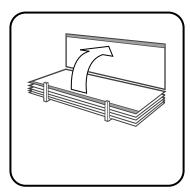
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#### LIFTING SHEETS TO THE ROOF

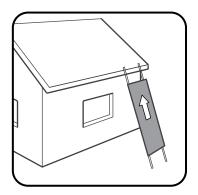


Remember that long sheets may not be lifted by their ends.

The best method is to carry them by the snap locks. The sheets can be slid up to the roof along a pair of beams, a ladder or similar.



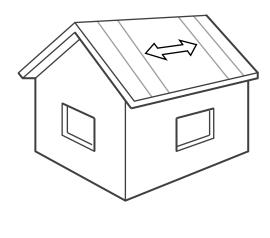
Carry sheets long side up by holding the snap locks.



Use planks, a ladder or similar as a support on which to slide the sheets up onto the roof.

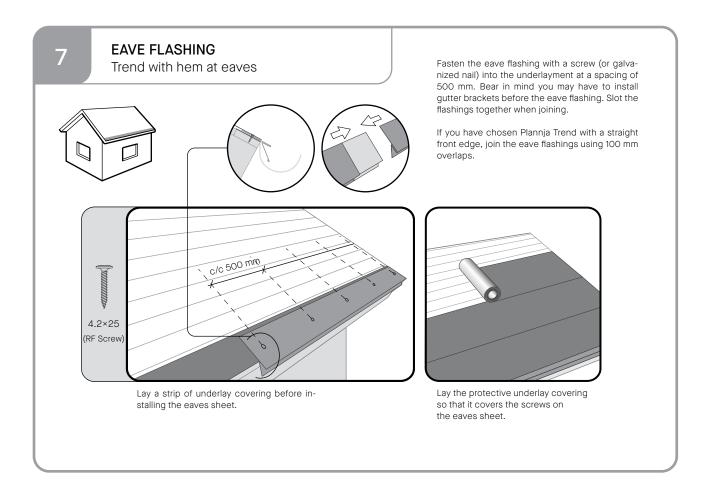


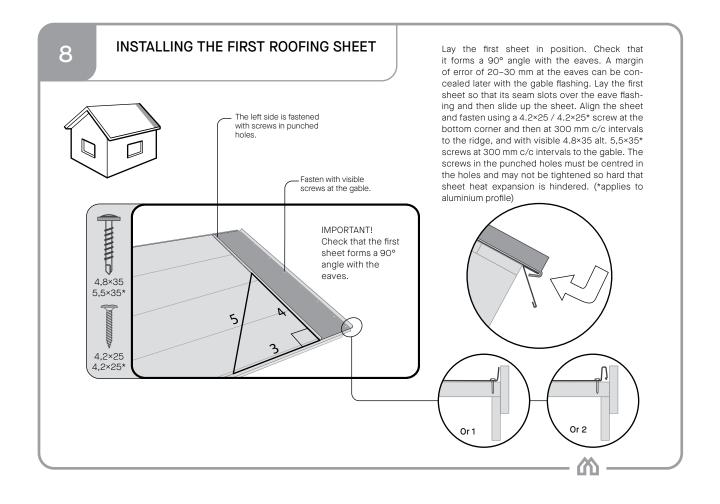
## 5 DIRECTION OF INSTALLATION

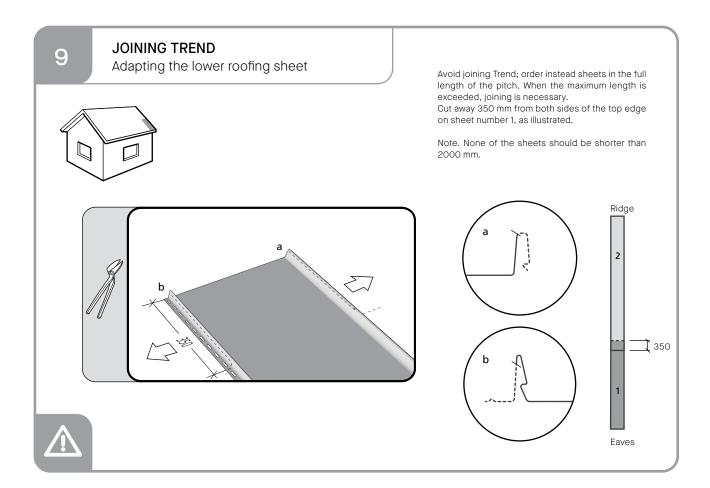


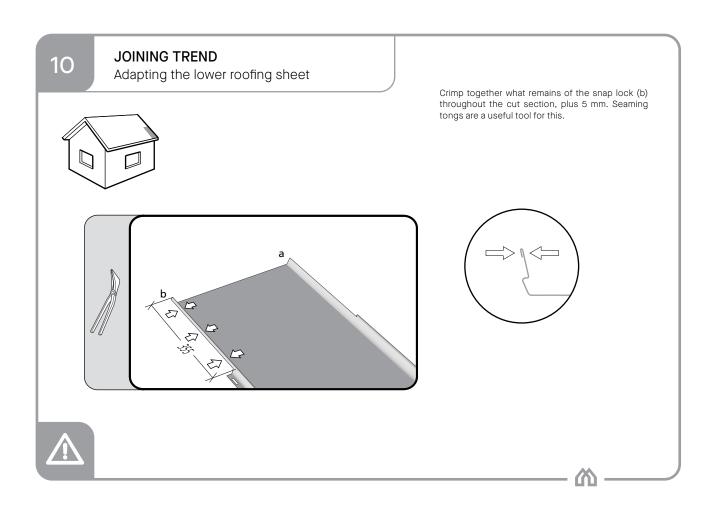
Plannja Trend is available for laying either from the left or the right. Install so that the stamped holes are on the sides facing the direction of assembly toward the centre of the roof.

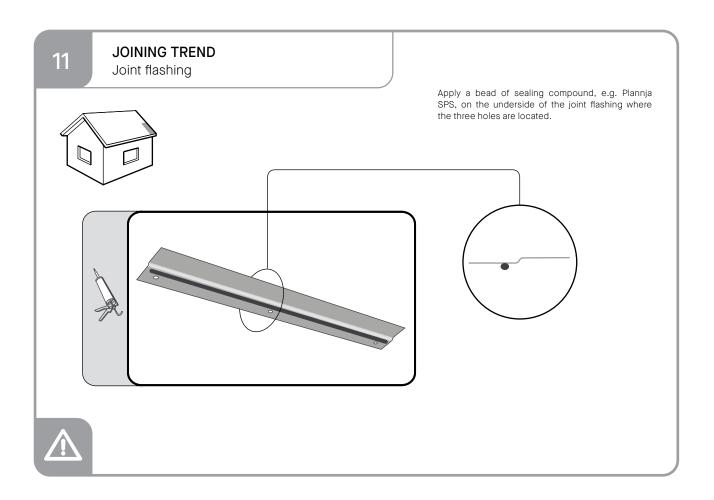
# Plannja Trend is available in several variants for connecting at the eaves; these two are the most common: 1. Hemmed for eaves. The hem is slid over the specially adapted eave flashing. 2. Straight front edge; the sheet is laid with a 10 mm protrusion over a standard eave flashing. 3. The protrusion must be bent down in the case of pitches between 8-14°.

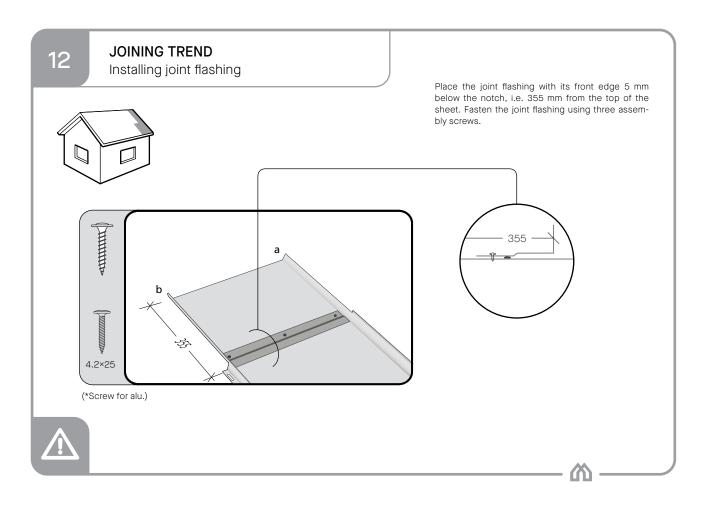


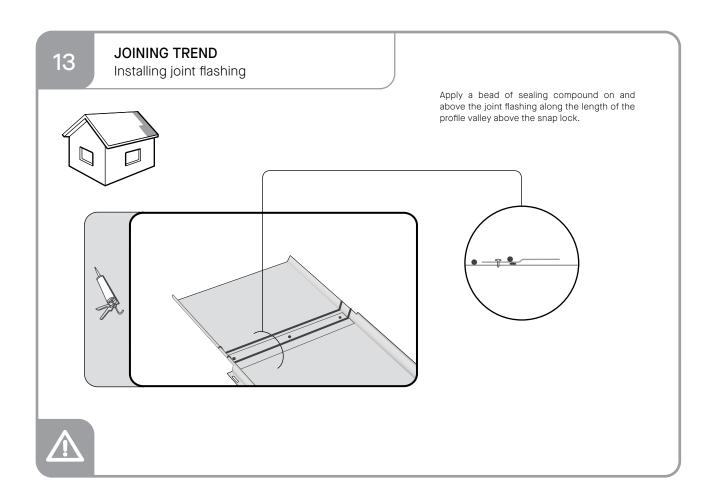


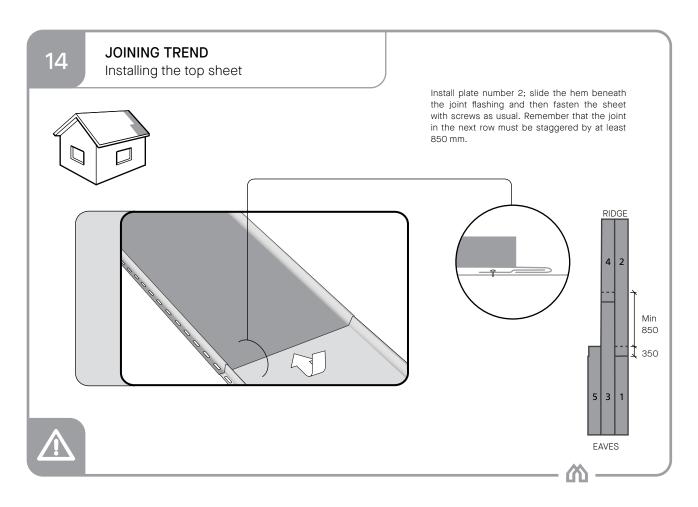


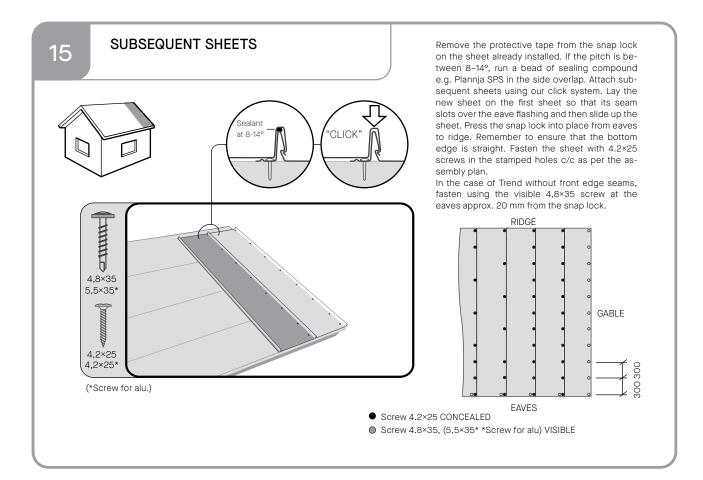


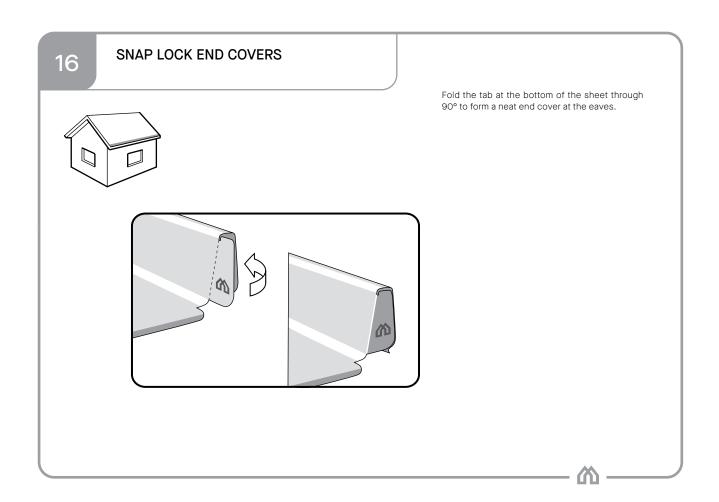


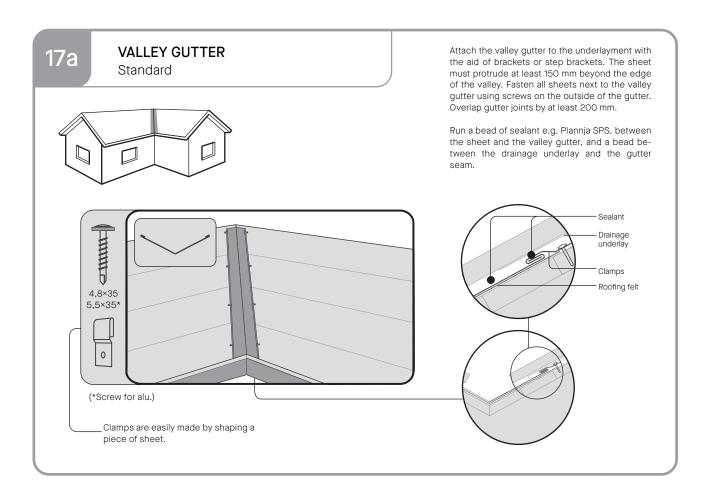


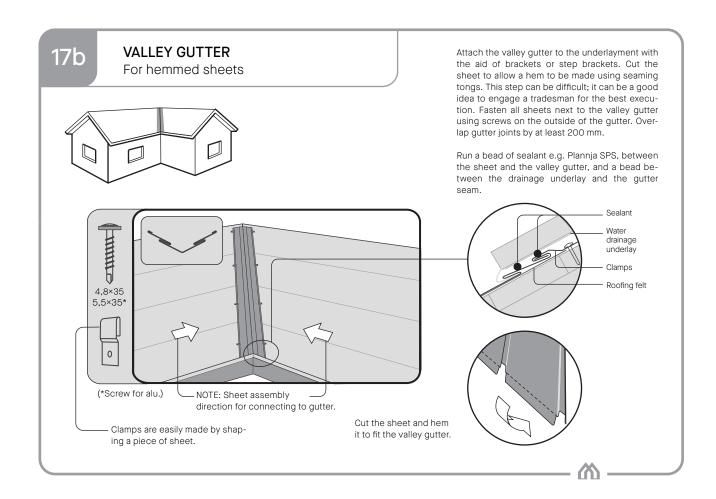


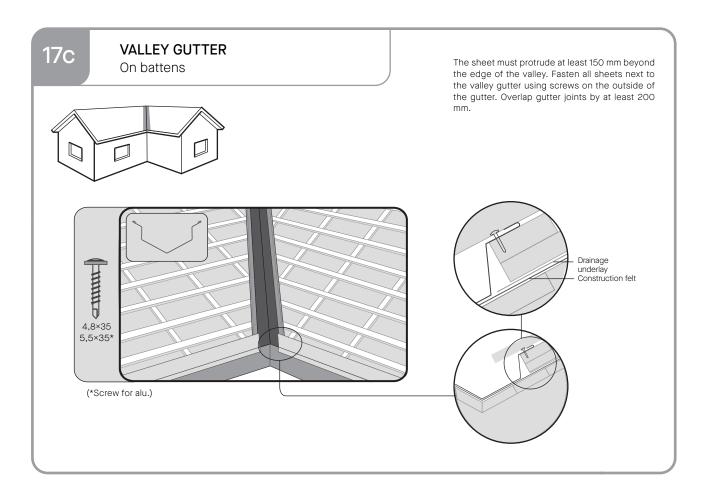


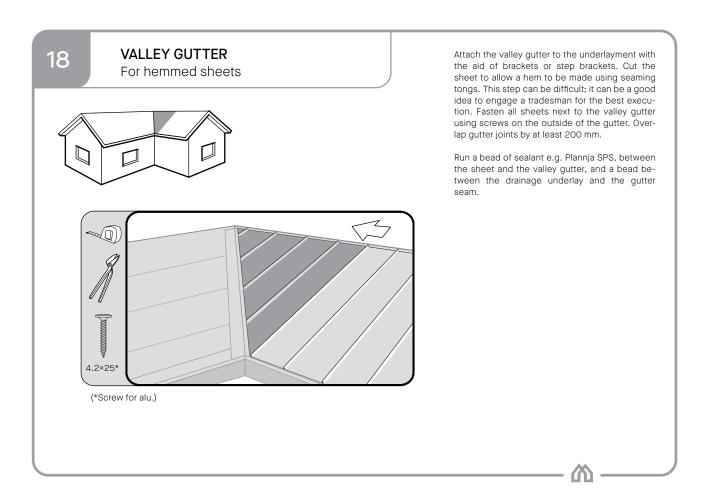








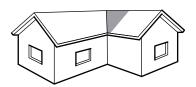




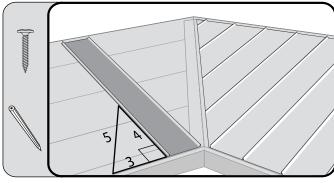
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#### **VALLEY GUTTER**

Installing roofing sheet

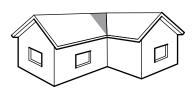


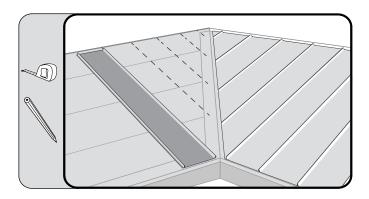
Lay out a full length sheet as an assembly aid at the inner corner of the eaves on the next roof section. Align the sheet to form a right angle; see also step 8. Fasten the sheet temporarily using 4.2×25 screws and draw a guideline on the underlayment along the roofing sheet edge.



IMPORTANT! Check that the sheet forms a 90° angle with the eaves.

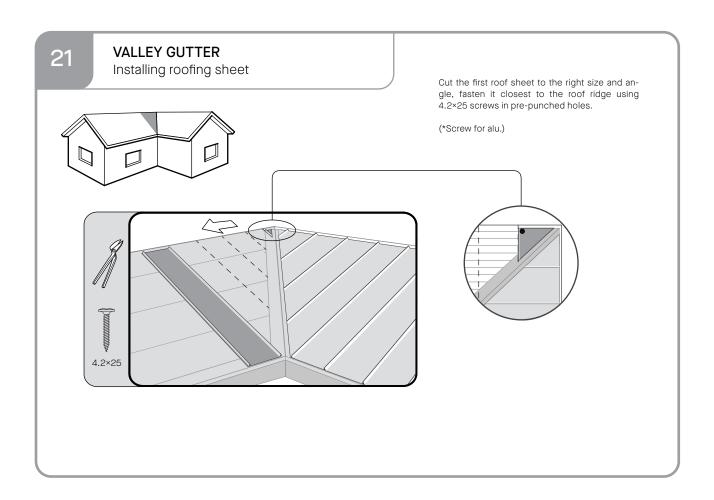
VALLEY GUTTER
Installing roofing sheet

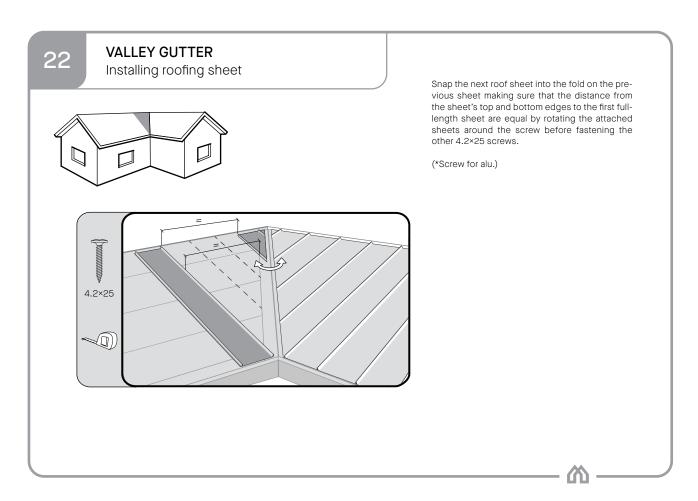




Measure and mark out sheet c/c spacing to the valley gutter.

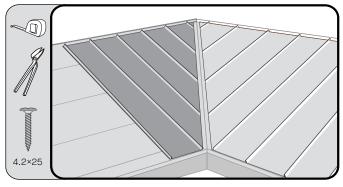




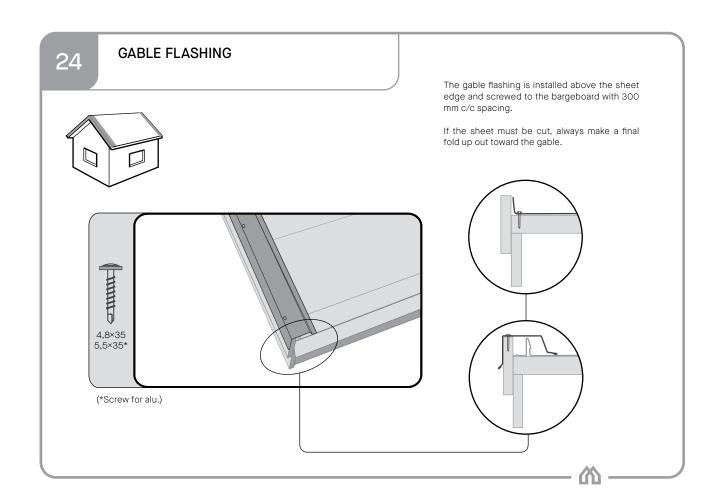




Measure, cut and install the rest of the roof sheets that will adjoin the valley gutter. Using the guidelines as an aid, always check the distance between the next sheet for assembly and the first full-length sheet to ensure they are properly aligned. Remove the full-length sheet and then reinstall it according to step 15.

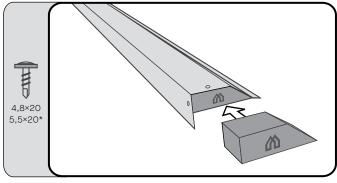


(\*Screw for alu.)

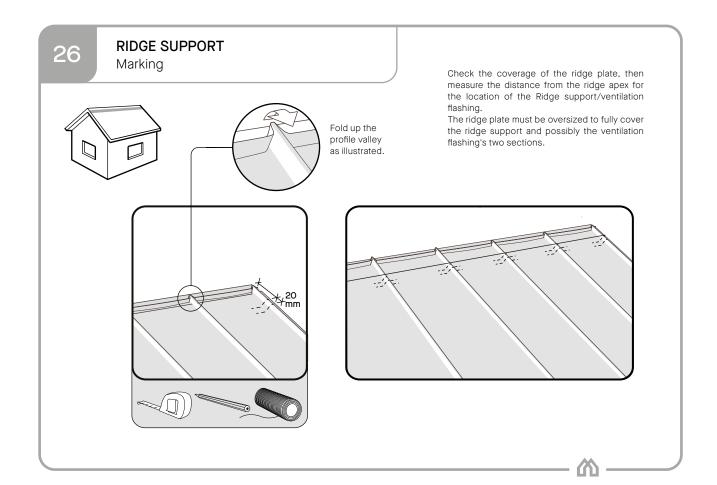


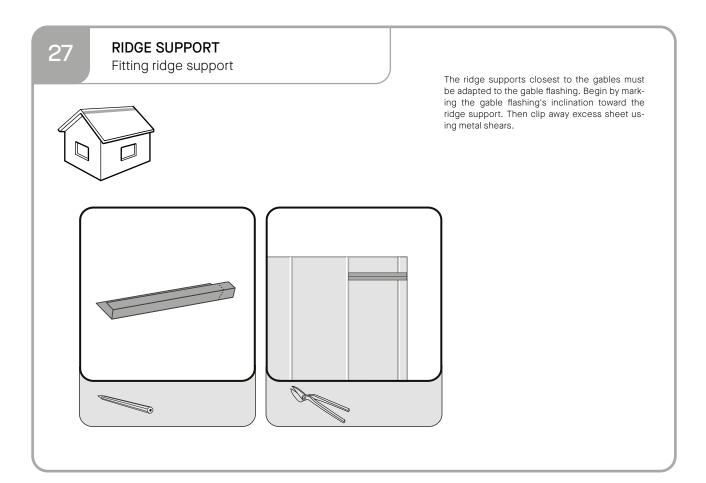


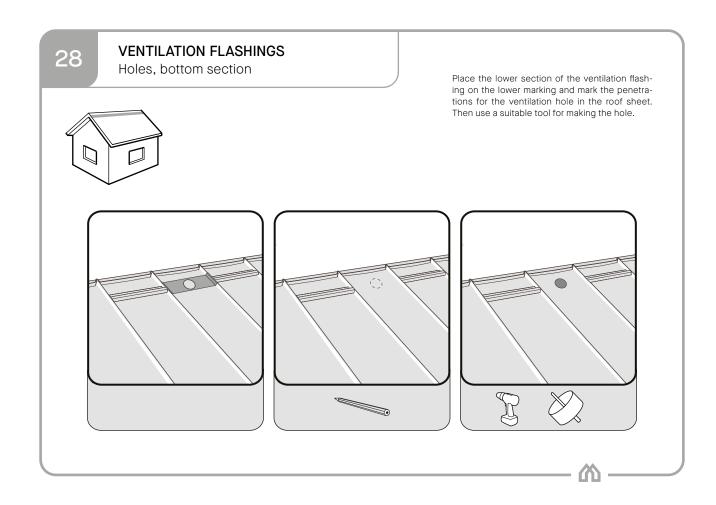




(\*Screw for alu.)







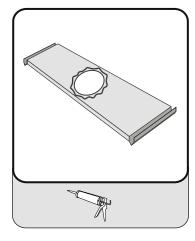
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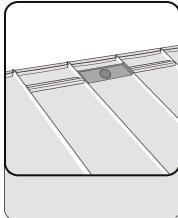
#### **VENTILATION FLASHINGS**

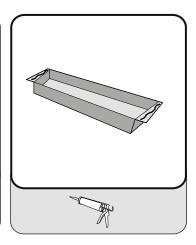
Fitting bottom section



Apply a bead of silicone around the hole on the underside of the ventilation flashing's bottom section. Place the bottom section in the position shown on the roof sheet. Next, apply two beads of silicone on the underside of the ventilation flashing's top section as illustrated. Then join the two sections together.





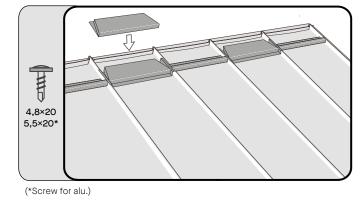


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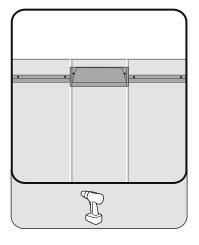
#### **VENTILATION FLASHINGS**

Fitting top section

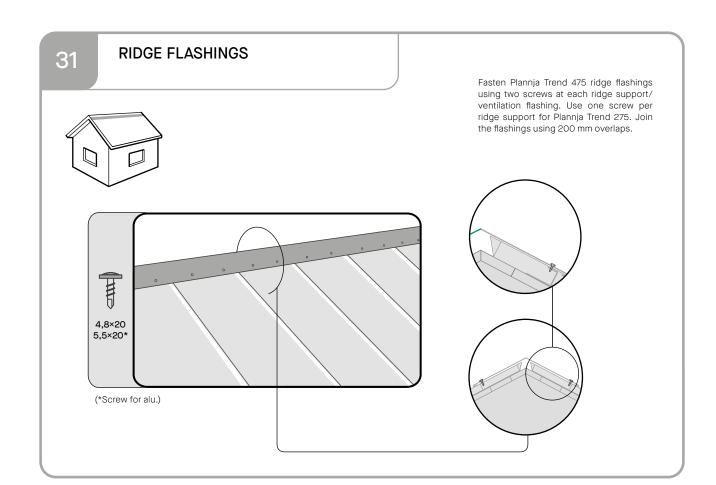




Fasten the two ventilation flashing sections using two 4.8×20 through bolts on either side of the upper ventilation flashing section.







# Assembly instructions

# Modern







#### **PREPARATION**

Before you begin the assembly of your Plannja Roof it is important to read through the "General Preparations, roof laying" section. The section provides information and advice on how to measure your roof, what underlying materials are suitable, and much more besides.



#### WORK SAFETY

Always follow applicable work safety legislation.



#### LABOUR

Assembly can be done by one person. For safe assembly, we always recommend that at least two people perform the work.



No special tools are required for roofing sheet assembly. Nevertheless, a screwdriver can make the work considerably easier. Cut sheets using sheet metal shears, a nibbling machine or a circular saw. Never use a grinding disc. Sheet metal coatings can be damaged by swarf from the disc.



#### TRANSPORT, STORAGE AND HANDLING

As far as possible, store Plannja Modern panelling indoors. Cover the materials with tarpaulin when storing outdoors. If there is a risk of condensation store packages inclined. Make sure good ventilation is achieved.



#### WALKABILITY

The walkability of thin sheet profile panels is difficult to define. In general a certain degree of care must be taken when walking and working on thin sheet roofs. Walkable sheeting refers to profiled panels that will allow careful access without being damaged or suffering ugly indentations. For safety's sake always try to walk above or beside a batten. In the case of Plannja Flex, always step in the profile valley when walking on the roof.

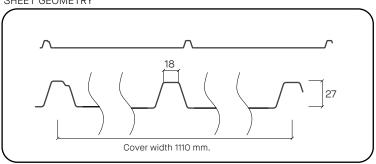




#### TECHNICAL INFORMATION

Material	Steel
Coating	Hard Coat 50
Profile / Max height	27 mm
Min length	400 mm
Max length	8000 mm
Sheet thickness	0.60 mm
Weight	5.4 kg/m²
Cover width	1110 mm.
Minimum recommended pitch	10° (1:9)
Seal at side and end overlap	10-14°

#### SHEET GEOMETRY





#### INSTALLATION SCREWS

- 4.8×20 For sheet-to-sheet fastening.
- 4.8×35 For fastening in profile valley and fittings; sheet to wood.
- 4.8×65 For fastening in profile apex, sheet to wood.







4.8×35







#### RECYCLING

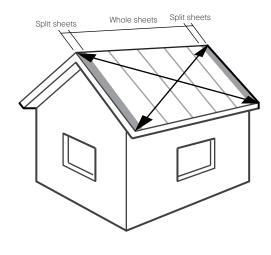
Take care to remove sheet clippings and screws from the roof, gutters and  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right$ the ground on completion of assembly.

The materials are 100 per cent recyclable and can be disposed of at recycling stations. Remember to pick up or sweep up nibbling chips from the roofing sheets as they can cause damage to the coating.



#### **ROOF MEASUREMENT**

Diagonal measuring and symmetry



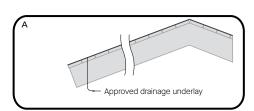
Begin by checking roof measurements by measuring the diagonals form corner to corner. If the distances are unequal, the roof is skewed. In this case, lay the sheet so that its lower edge aligns with the eaves. Deviations of 20-30 mm can be concealed with gable flashings.

If you want the folds to be symmetrically distributed across the roof, first measure the length of the roof in order to determine the widths of the first and last sheets. Remember to add around 30 mm to the cutting width to make the fold up to the bargeboard. Refer to step 8. Minimum pitch for Plannja Modern is 1:4 (10 degrees).

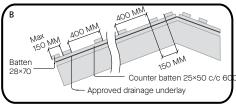
#### **UNDERLAYMENT**

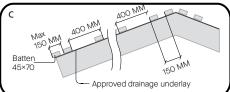
The assembly instruction illustrate alt. A





A. Lay Plannja Modern directly on tongue and groove boards /plywood, at least 17 mm thick and with an approved drainage underlay e.g. Plannja Anticon Coverall.





B. If you choose to lay the roof on battens the minimum batten width is 70 mm and max 400 mm c/c. Batten spacing closest to the free end of the flashing (at the eaves, ridge and high section connection) and at any overlap may not be greater than 150 mm. Use approved drainage

e.g. Plannja Anticon Coverall.

C. If your house has battens fixed directly to the trusses, the battens must be at least 45×70 and max 400 mm c/c. Lay a light underlayment beneath the batten e.g. Plannja Anticon Coverall.

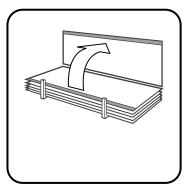
For more information on alternatives B and C, visit

www.plannja.com

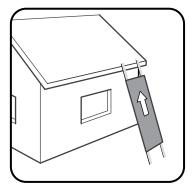




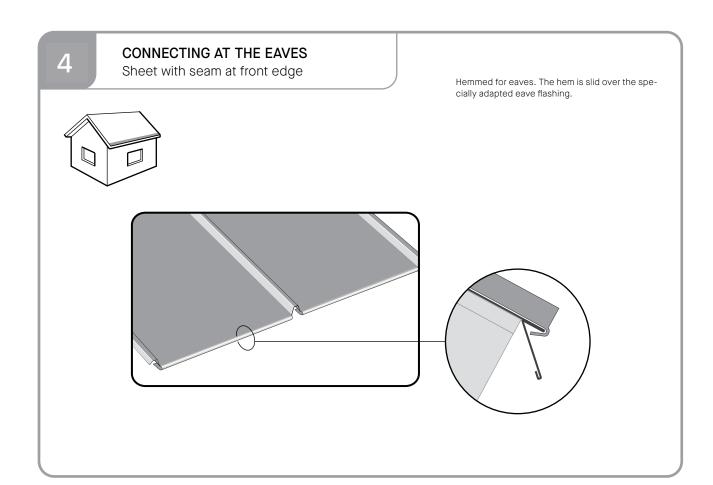
Remember that long sheets may not be lifted by their ends. The best method is to carry them by holding the long sides. The sheets can be slid up to the roof along a pair of beams, a ladder or similar.



Carry sheets upright by holding the long sides.



Use planks, a ladder or similar as a support on which to slide the sheets up onto the roof

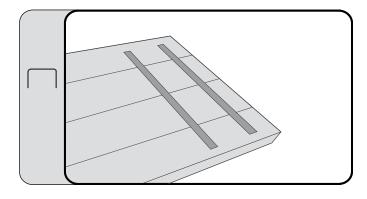


### 5a

### **DAMPENING STRIPS**

When installing on a flat underlayment

When installing Plannja Modern on a flat underlayment, staple dampening strips beneath the centre of each profile valley from eaves to ridge. The dampening strip should cover the major part of the underlayment. The aim is to reduce any sound that may be caused by wind and rain.

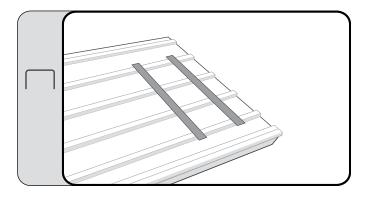


5b

### **DAMPENING STRIPS**

Assembly on battens

When installing Plannja Modern onto battens, staple dampening strips beneath the centre of each profile valley from eaves to ridge. The dampening strip should run from the second lowest to the second highest batten. The aim is to reduce any sound that may be caused by wind and rain.

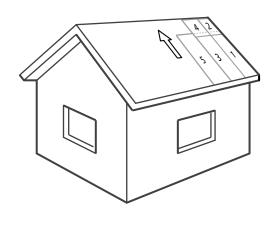




# Fasten the eave flashing with a screw (or galvanized nail) into the underlayment at a spacing of 500 mm. Bear in mind you may have to install gutter brackets before the eave flashing. Slot the flashings together when joining. Lay a strip of underlay covering before installing the eaves sheet. Lay the protective underlay covering so that it covers the screws on the eaves sheet.

### 7

### **DIRECTION OF INSTALLATION**



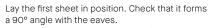
Lay Plannja Modern from right to left. Start by laying the first sheet at the bottom of the outer edge of the roof. Attach the sheet at right angles to the eaves. Sequence as per schematic. Sheet number 2 must overlap sheet number 1 by at least 200 mm.



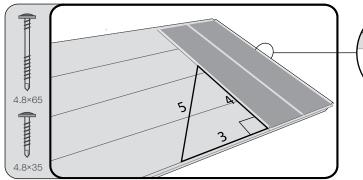
### INSTALLING THE FIRST SHEET



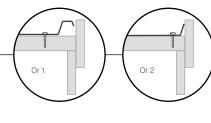
IMPORTANT! Check that the first sheet forms a 90° angle with the eaves.

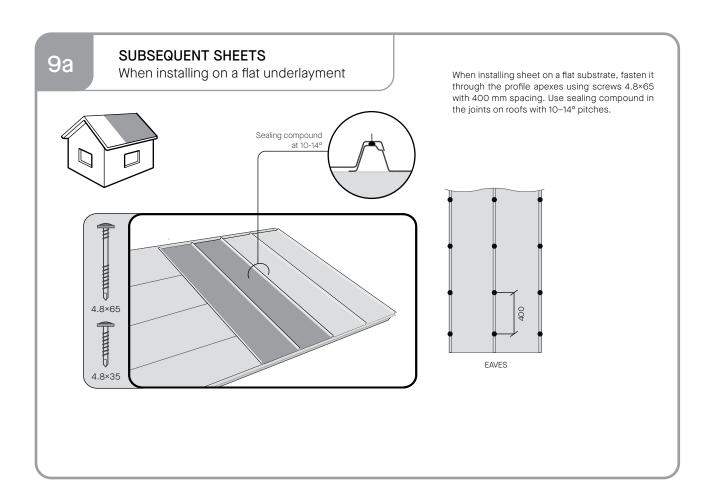


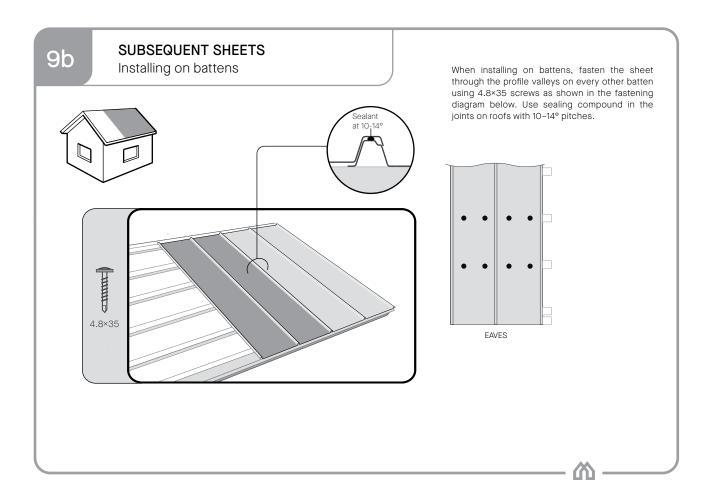
A margin of error of 20–30 mm at the eaves can be concealed later with the gable flashing. When laying seamed sheets, lay the first sheet so that its seam slots over the eave flashing and then slide up the sheet. Align the sheet and fasten using screws as shown in the diagram in steps 9a or 9b, depending on the underlayment.



Check the angle using the 3-4-5 method, as illustrated.







### **FIXING** 10



Do not tighten the screw in the profile peak too hard. There is a risk that profile shape will be distorted as illustrated on the left, creating a gap between the sheet and the dampening strip.

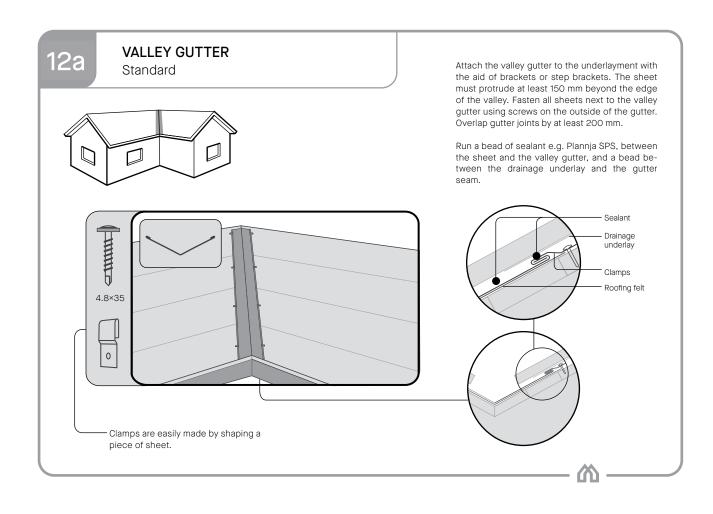
Correct Dampening strip Incorrect Dampening strip -Gap

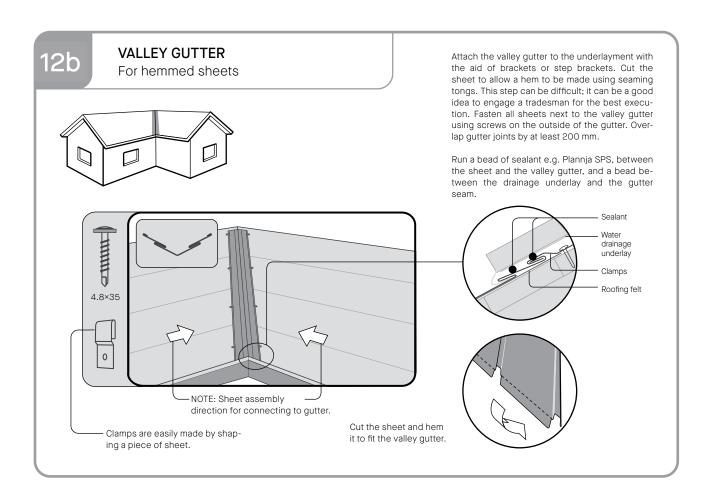
# SIDE OVERLAP 11 Fastening and sealing On battens On a flat underlayment.

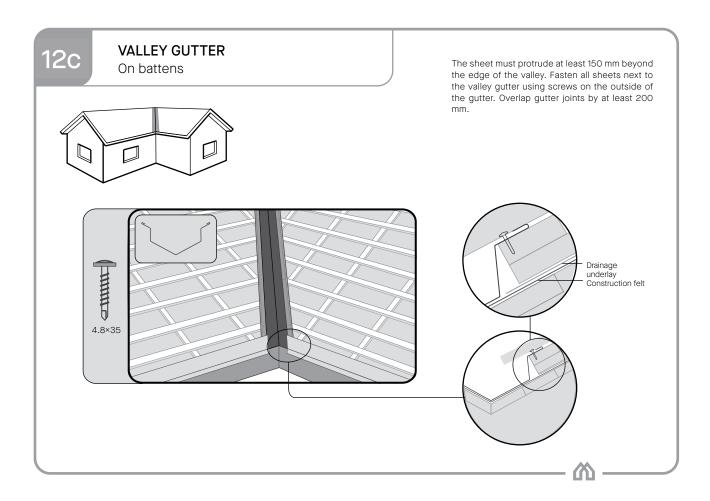
Roof slope 10–14° Run a bead of sealant e.g. Plannja SPS, along the lower profile's flange. A 3×10 mm self-adhesive seal strip or grease may also be used as a seal. When installing on battens, rivet or screw the side overlap at 300 mm c/c intervals.

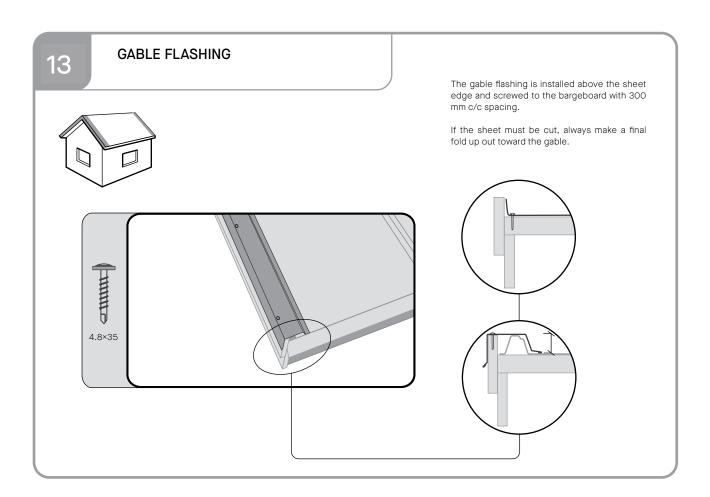
Roof slopes greater than 14°

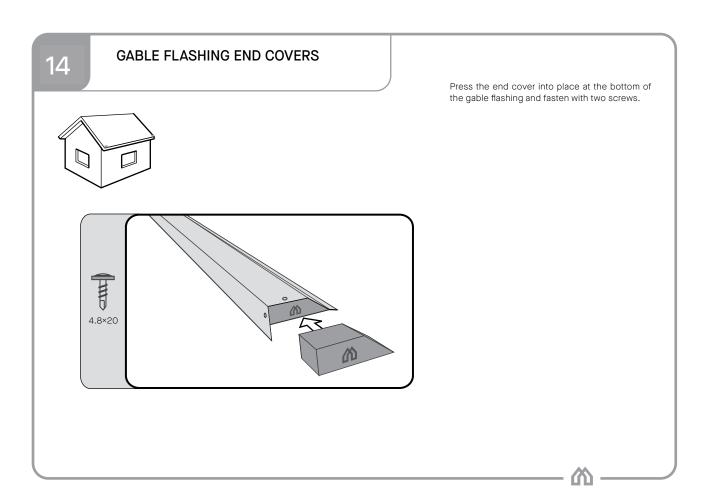
When installing on battens, especially windy locations, rivet or screw the side overlap with a c/c spacing of 800 mm (in line with the screws in profile valley).

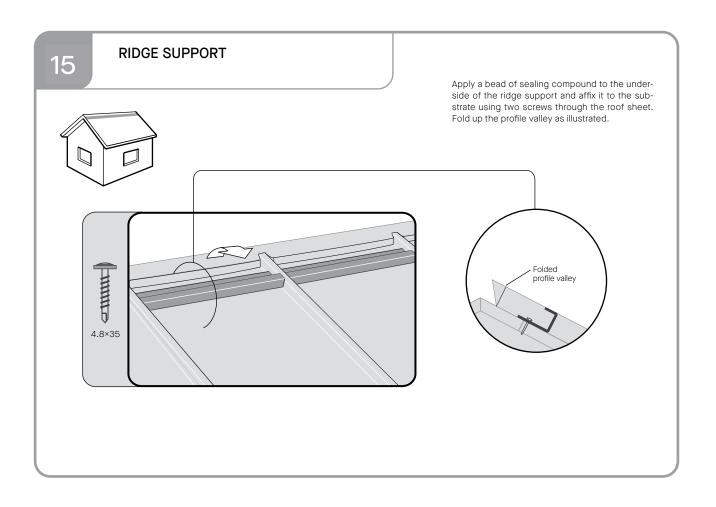


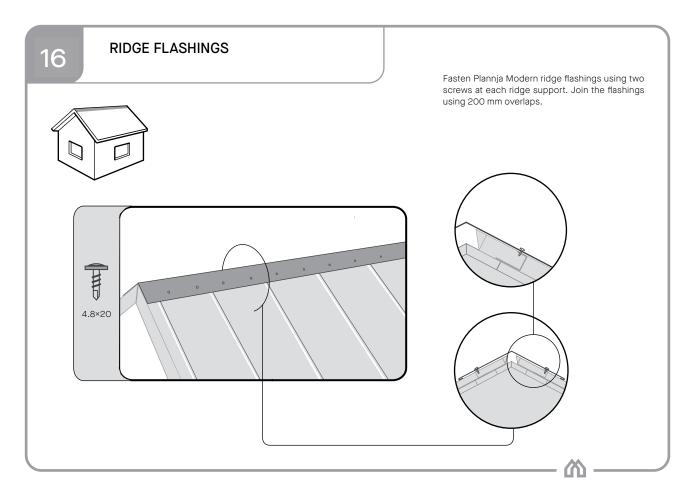












### Assembly instructions

# **Traditional Profile**







### PREPARATION

Before you begin the assembly of your Plannja Roof it is important to read through the "General Preparations, roof laying" section. The section provides information and advice on how to measure your roof, what underlying materials are suitable, and much more besides.



### **WORK SAFETY**

Always follow applicable work safety legislation.



### LABOUR

Assembly can be done by one person. For safe assembly, we always recommend that at least two people perform the work.



### TOOLS

No special tools are required for roofing sheet assembly. Nevertheless, a screwdriver can make the work considerably easier. Cut sheets using sheet metal shears, a nibbling machine or a circular saw. Never use a grinding disc. Sheet metal coatings can be damaged by swarf from the disc.



### TRANSPORT, STORAGE AND HANDLING

As far as possible, store Plannja construction panelling indoors. Cover the materials with tarpaulin when storing outdoors. If there is a risk of condensation store packages inclined. Make sure good ventilation is achieved.



The walkability of thin sheet profile panels is difficult to define. In general a certain degree of care must be taken when walking and working on thin sheet roofs. Walkable sheeting refers to profiled panels that will allow careful access without being damaged or suffering ugly indentations. For safety's sake always try to walk above or beside a batten. In the case of Plannja Traditional Profile, always step in the profile valley when walking on the roof.

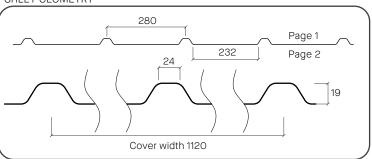




### TECHNICAL INFORMATION

Material	Steel / Aluminium
Coating	Hard Coat 50
	Hard Coat 25
Profile / Max height	19 mm
Min length	1500 mm
Max length	8000 mm
Sheet thickness	0.60 mm / 0.70mm
Weight	5.2 kg/m² / 2.3 kg/m²
Cover width	1120 mm.
Minimum recommended pitch	10° (1:9)
Seal at side and end overlap	10-14°

### SHEET GEOMETRY





### INSTALLATION SCREWS

- 4.8×20 For sheet-to-sheet fastening.
- 4.8×35 For fastening in profile valley and fittings; sheet to wood.
- 4.8×65 For fastening in profile apex, sheet to wood.



Part number 312001 4.8×20



4.8×35



4.8×65

Part number 312008

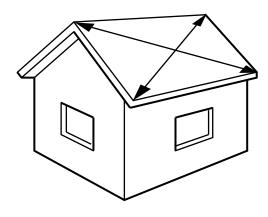


### RECYCLING

Take care to remove sheet clippings and screws from the roof, gutters and the ground on completion of assembly. The materials are 100 per cent recyclable and can be disposed of at recycling stations. Remember to pick up or sweep up nibbling chips from the roofing sheets as they can otherwise cause damage to the coating.



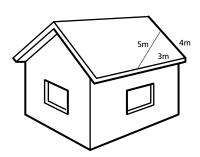
### **ROOF MEASUREMENT**



### HOW TO MEASURE THE ROOF

Begin by checking that the roof is straight. Measure diagonally from corner to corner. If the distances are unequal, the roof is skewed. Deviations of 20-30 mm can be adjusted with gable flashings.

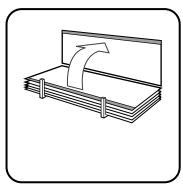
Alternatively, the angle can be checked using a 3-4-5 triangle as illustrated.



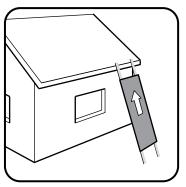
### LIFTING SHEETS TO THE ROOF



Remember that long sheets may not be lifted by their ends. The best method is to carry them by holding the long sides. The sheets can be slid up to the roof along a pair of beams, a ladder or



Carry sheets upright by holding the long sides.



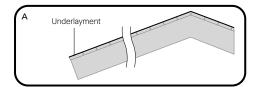
Use planks, a ladder or similar as a support on which to slide the sheets up onto the  $\,$ roof.

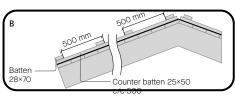


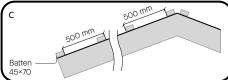
3

## UNDERLAYMENT FOR PLANNJA TRADITIONAL PROFILE









Plannja Traditional Profile must be installed on a flat underlayment with underlayment felt (A). It can be installed on battens with underlayment (B or C), but because there is a high risk the joists will show

through, Plannja recommends the choice of Traditional Profile with ribs in such cases. Plannja Traditional Profile with ribs may be installed directly onto battens. Max batten spacing with regard to sheet walkability is 500 mm.

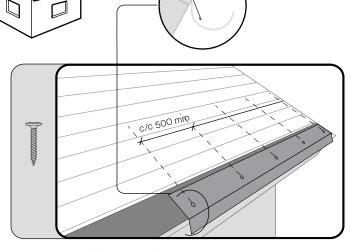
A. Lay Plannja Traditional profile directly on tongue and groove boards /plywood, at least 17 mm thick and with underlayment felt equivalent to minimum YAP2200 or Plannja Anticon Coverall.

B. If you choose to lay the roof on battens the minimum batten width is 70 mm with max 300 mm spacing. Use underlayment felt equivalent to minimum YAP2200 or Plannja Acticon Coverall.

C. If your house has battens fixed directly to the trusses, the battens must be at least  $45\times70$  and max 500 mm c/c. Install an underlayment of board or Plannja Acticon Coverall below the battens.

4

### **EAVE FLASHING**



Lay a strip of underlay covering before installing the eaves sheet.

Install Plannja Traditional Profile with a straight front edge with a 10 mm protrusion on a standard eaves flashing. Join eave flashings using 100 mm overlaps.

Fasten the eave flashing with a screw (or galvanized nail) into the underlayment at a spacing of 500 mm. Bear in mind you may have to install gutter brackets before the eave flashing.



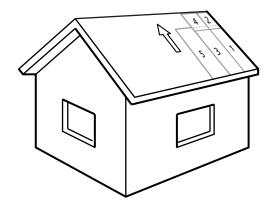
Lay the protective underlay covering so that it covers the screws on the eaves sheet.



5

### **DIRECTION OF INSTALLATION**

Lay Plannja Traditional Profile from right to left. Start by laying the first sheet at the bottom of the outer edge of the roof. Attach the sheet at right angles to the eaves. Sequence as per schematic. Sheet number 2 must overlap sheet number 1 by at least 200 mm.

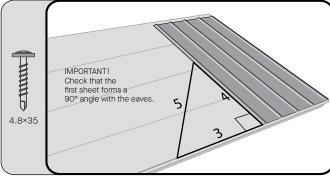


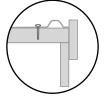
INSTALLING THE FIRST ROOFING SHEET



6

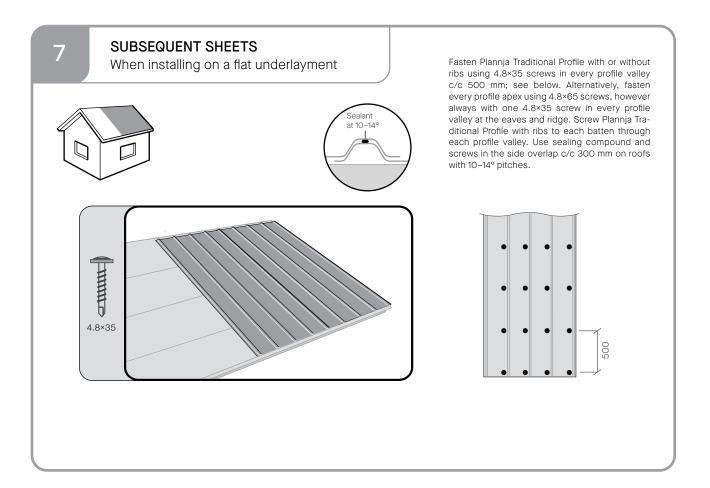
Lay the first sheet in position. Check that it forms a 90° angle with the eaves. A margin of error of 20–30 mm at the eaves can be concealed later with the gable flashing. Align the sheet and fasten using screws as shown in the diagram in step 7.

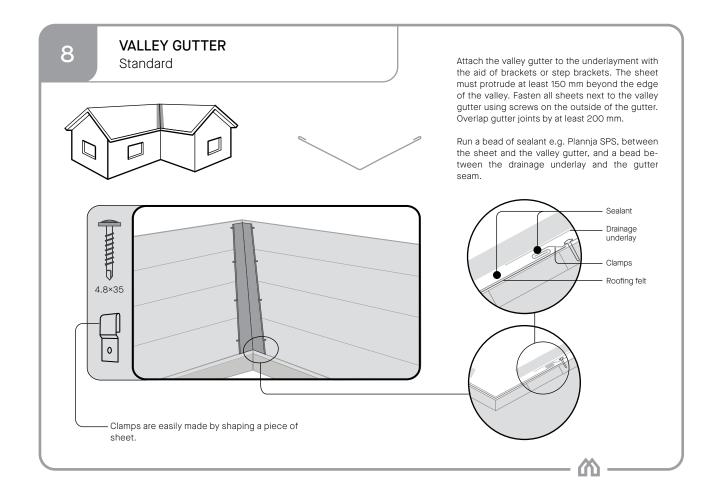


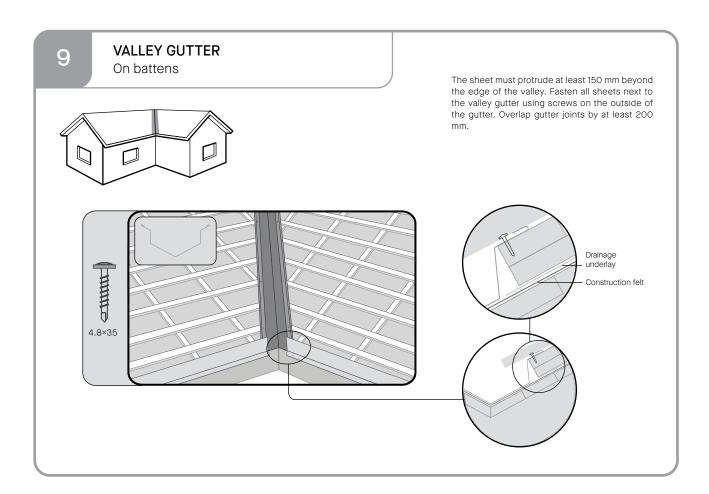


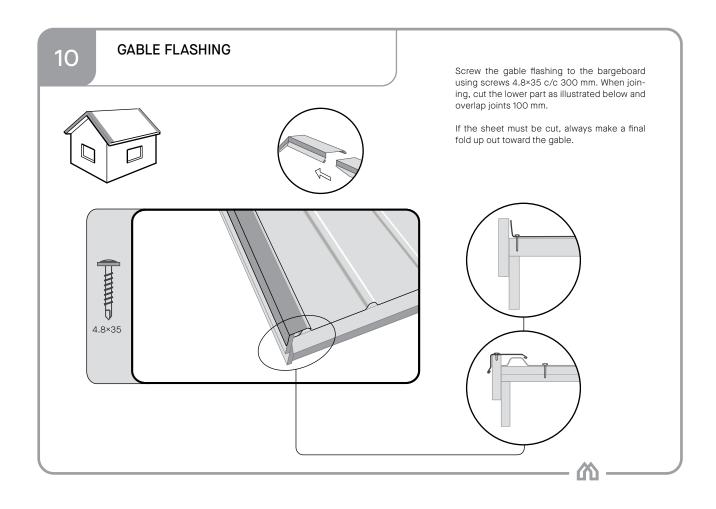
Check the angle using the 3-4-5 method, as illustrated.

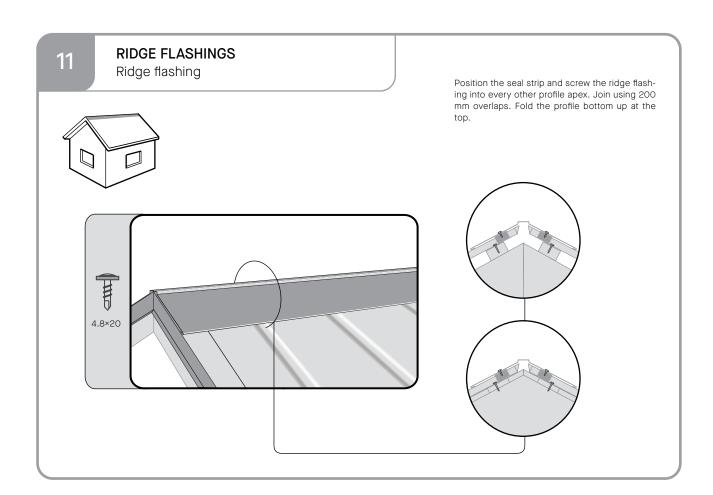












Assembly instructions

# Flashings and fittings

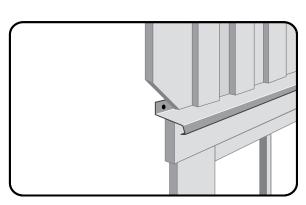




# INSTALLING WINDOW FLASHINGS Drip cap



Installed above the window case. Prevents water forcing its way into the structure. Screw or nail down the drip cap every 10 cm.

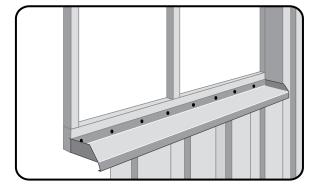


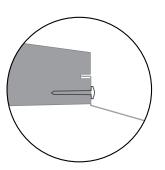
### **INSTALLING WINDOW FLASHINGS**

Sil



Install it in the window frame's routed groove. Prevents water and snow forcing their way behind the façade cladding.



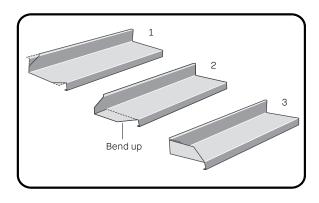




# INSTALLING WINDOW FLASHINGS Assembly tips



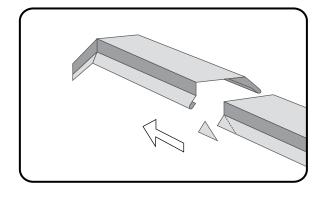
Cut to correct length, 30 mm longer than the groove in the window frame. Clip out an angled notch at the front and back edges. Bend up an approx. 10 mm tab at both ends and fold in the back edge as illustrated. Press the back edge into the frame groove. Screw or nail the sill every 10 cm.



### **INSTALLING GABLE FLASHINGS**



When joining gable flashings, cut away the corners of the underlying flashing so that the lower can be slid under the upper. The joint will then form a better seal and be less visible.





One Plannja telephone number is all you need: +46 10-516 10 00

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