

Product catalogue for roof and facade

For houses, holiday homes, garages,
sheds, agriculture & industry under
construction, renovation or extension.





Roofing the Nordics

Here at Plannja you can find roofs and accessories that will protect your home in every weather from autumn storms and winter blizzards to summer heat. We have loads of roofing profiles and colours that make it easy to find a roof that will suit your house perfectly, in whatever surroundings it calls home. Welcome, we've got the Nordics covered!





Roofs & walls

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Image: Plannja Trend 475, 45 silver metallic



The parts that make up the whole

Plannja original accessories are made to ensure your roof and rainwater system stand the test of time. Our extensive product range includes everything from roof profiles, roof cowls, roof ladders and walkways to flashings and fittings, fasteners and seal strips and ventilation.

All of our accessories are designed to work together in the best possible way.



- | | |
|--------------------|-----------------|
| 1 Fasadplåt | 8 Takavvattning |
| 2 Flexibelt beslag | 9 Takfotsbeslag |
| 3 Fönsterbeslag | 10 Takhuv |
| 4 Gavelbeslag | 11 Taksäkerhet |
| 5 Nock | 12 Underlagstak |
| 6 Ståndskiva | 13 Vinkelränna |
| 7 Tak | |

Tätningband, Fästelement, Avloppshuv, Ventilationssystem

Plannja Trend 475





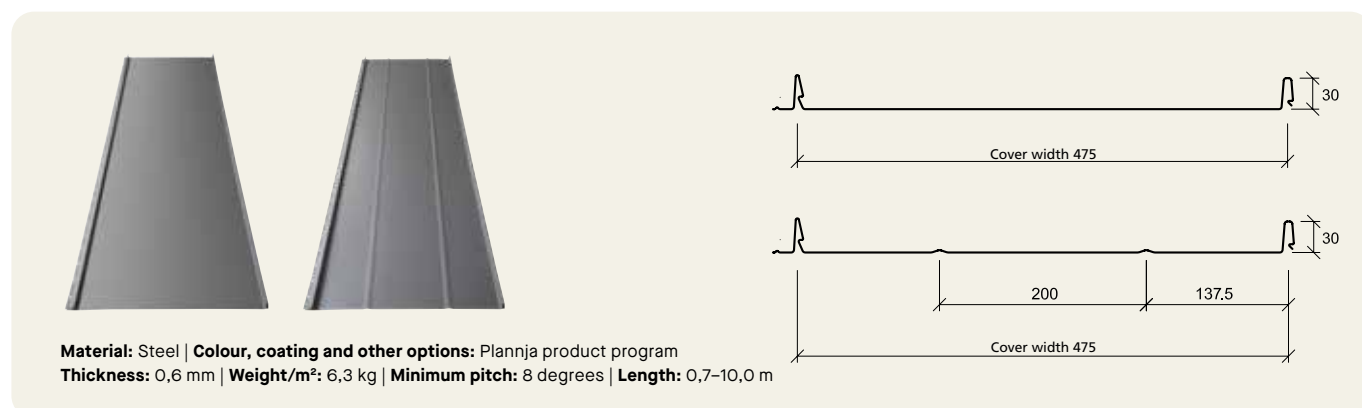
Plannja Trend 475, 20 Dark grey, GreenCoat Mica BT.

Plannja Trend is a profile roofing sheet in the Nordic style where function forms a natural part of design. With its characteristic appearance and the specially designed flashings package, you can create a complete roof with a fantastic, elegant flow of lines to crown your home. With its click-together function and hidden fasteners, Plannja Trend is an easy-to-install roof that gives your house extra vitality.

New! Plannja Trend is now available with a new surface inspired by nature, Plannja Arctic. The surface has an exclusive, shimmering texture. It was developed especially for use in roof profiles with high aesthetic standards.



Product program
for colors and
coatings, for steel
and aluminum.



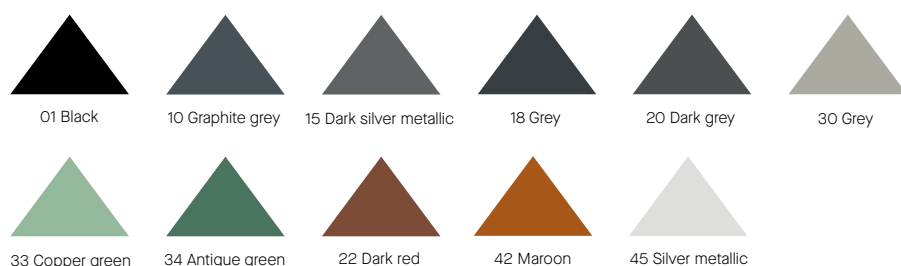
< Image: Plannja Trend 475, 34 Antique green, GreenCoat Pro BT.

Plannja Trend 275

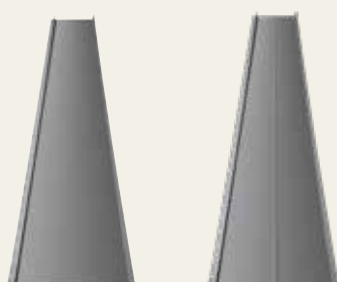


Plannja Trend 475, 15 Dark silver metallic.

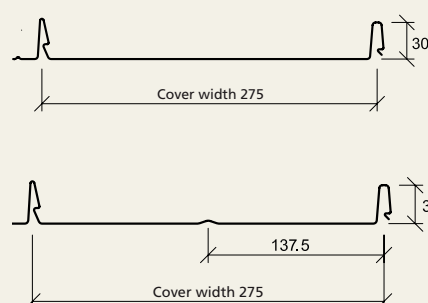
Plannja Trend is a profile roofing sheet in the Nordic style where function forms a natural part of design. Plannja 275 has profile apexes that are closer together than Plannja 475. Choose one or the other, or why not combine the two widths to add extra vitality and character to your roof.

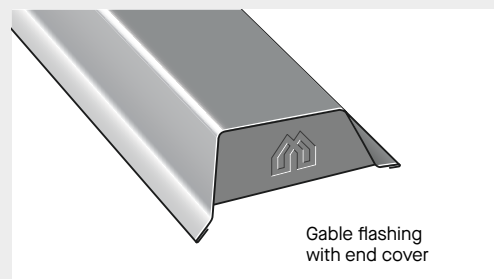
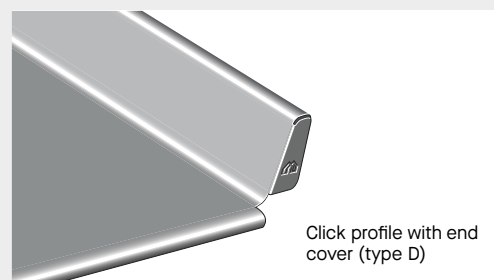
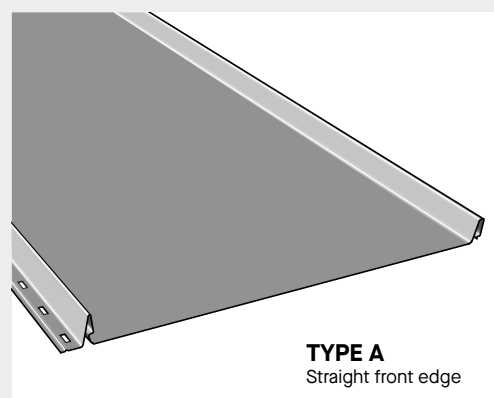
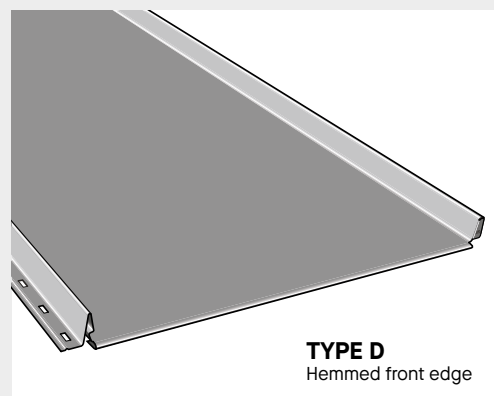


Product program
for colors and
coatings, for steel
and aluminum.

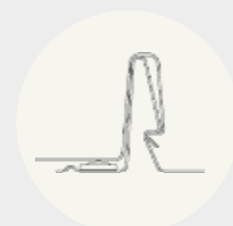
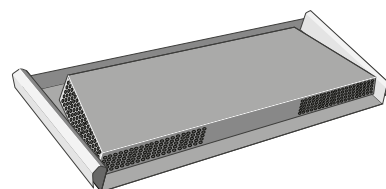


Material: Steel | **Colour, coating and other options:** Plannja product program
Thickness: 0,6 mm | **Weight/m²:** 7,4 kg | **Minimum pitch:** 8 degrees | **Length:** 0,7–7,0 m





Ventilated ridge flashings



Click profile

Well thought-out features

Because every component plays a part in the overall impression your house imparts. We offer a flashings package for Plannja Trend that includes everything you need for your roof. The gable flashing with associated end cover and a little cover on the click profile (type D) creates a complete, well-thought-through roof.

Purpose-designed flashings for the best finish

Plannja Trend flashings are designed to match a roof's form and function. Plannja Trend eaves are specially adapted for hemmed front edges (type D). They create a fantastic, elegant overall impression while also making roof installation simpler.

Click profile with end cover

Plannja Trend has a high click profile with rounded edges that enhance a roof's flow of lines. It has a cover that is closed on installation to give the roof a uniform expression.

Many choices

SoundControl is also offered in addition to dampening strips for installation on battens to reduce unwanted noise. Dampening strips are available as options on all versions of Plannja Trend 475. When installing on battens in especially windy areas, we recommend Plannja Trend with SoundControl. The latter is an acoustic felt adapted for metal roofs, that is applied to the underside of the sheet. It has a porous structure that reduces noise. SoundControl is available as an option on Plannja Trend 475.

Plannja Trend is available in two versions, (types A and D). Find out more about all versions at plannja.se.

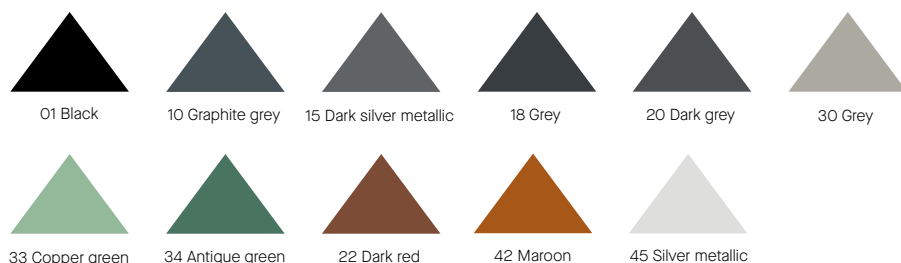
Plannja Trend | Facade



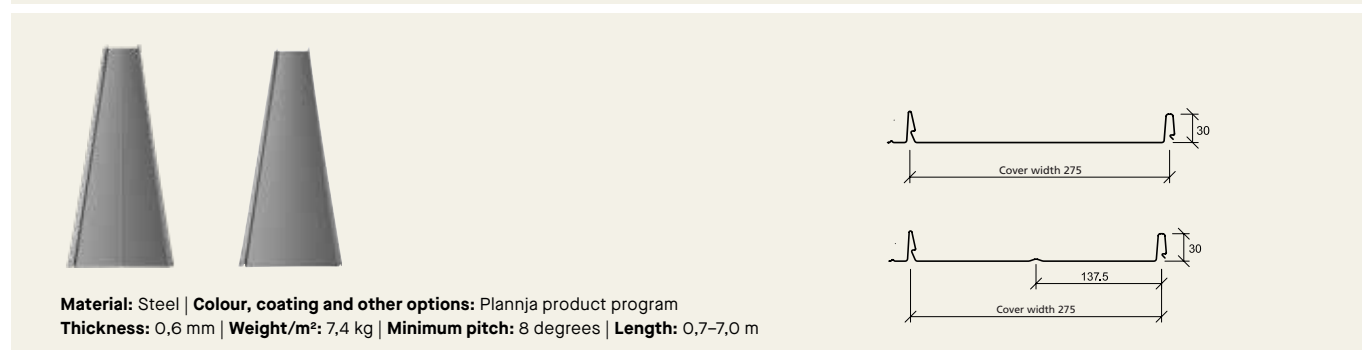
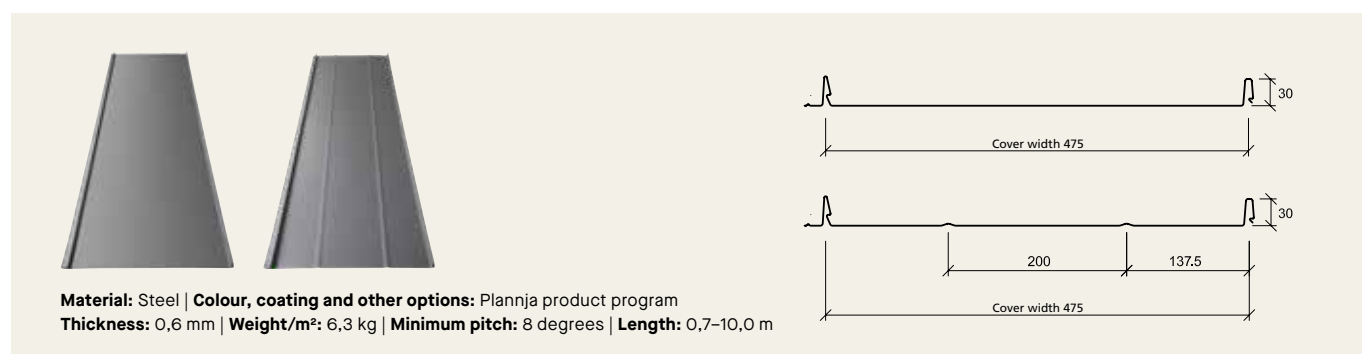


Plannja Trend 475, 01 Black.

Plannja Trend on facade adds vitality if you're looking for a Scandinavian design, with clean, elegant lines. Install the profile horizontally or upright, and mix 275 and 475 mm widths in a stylish design. There are many variations, and regardless of your choice you will have a wall that's able to resist wind and weather for a long time ahead.



Product program for colors and coatings, for steel and aluminum.



◀ Image: Plannja Trend 475, 10 Dark grey.

Plannja Modern



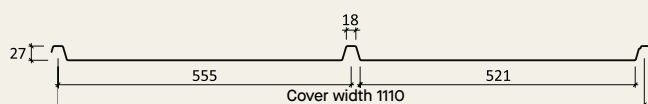


Plannja Modern, 20 Dark grey.

Plannja Modern is as suitable for modernistic houses as for more classical houses and roof styles. The roof has a profiling with a long distance between the straight and distinct profile tops. The roof is easy to install and is available in a variety of colours.



Product program
for colors and
coatings, for steel
and aluminum.



Material: Steel | **Colour, coating and other options:** Plannja product program
Thickness: 0,6 mm | **Weight/m²:** 6,3 kg | **Minimum pitch:** 10 degrees | **Length:** 0.8–8.0 m

◁ Plannja Modern, 42 Maroon.

Plannja Traditional Profile

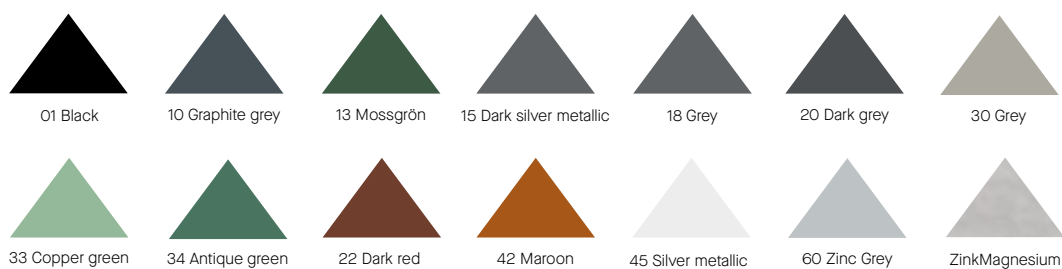




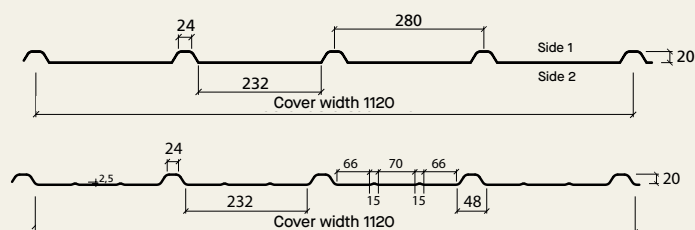
Plannja Traditional Profile, 22 Dark red.

Close your eyes and envision a classic metal roof. The picture you see in your mind's eye is usually a Plannja Traditional Profile roof. Right now Traditional Profile is enjoying a renaissance. Not just because it's often recommended for restorations and architectural heritage work, but also because it harmonizes with the popular Bauhaus style. Plannja Traditional Profile's discrete profiles blend in perfectly with smooth exteriors, large windows and metal and woodwork features. The building enjoys both long-lasting protection and a classic appearance for many, many years.

Plannja Traditional Profile is available in two designs, with and without stiffeners. We recommend Plannja Traditional Profile with stiffeners when installing on battens. (max 500 mm centres).



Product program for colors and coatings, for steel and aluminum.



Also available with stiffeners, which means it can be installed on rafters.

Material: Steel | **Colour, coating and other options:** Plannja product program
Thickness: 0,6 mm | **Weight/m²:** 5,2 kg | **Minimum pitch:** 10 degrees | **Length:** 1.5–8.0 m

◁ Plannja Pannplåt, 20 Dark grey.

Plannja Royal



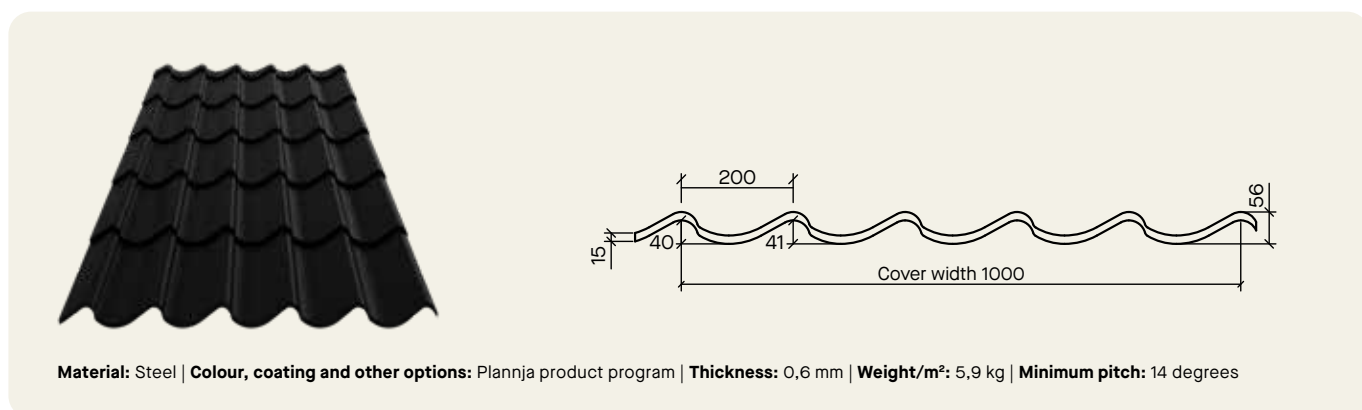
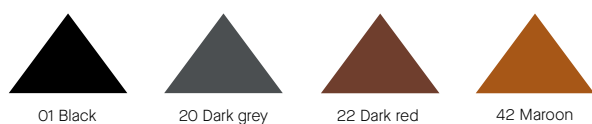


Plannja Royal, 01 Black.

Royal's artistic idiom expresses a pantile roofing tradition, but in a modern form. This roof is a best seller; it's available in several colours, one of which is certain to be perfect for your house too. Plannja Royal is also produced in resistant aluminium, which is especially suitable for houses in coastal areas.

New! Plannja Royal will now be produced in an updated design. The profile's new design adds an aesthetic lift to the front of the profile. Add to that an extension of the profile's left edge that will give the overlap better support, thereby simplifying and improving assembly.

Product program
for colors and
coatings, for steel
and aluminum.



◁ Plannja Royal, 42 Maroon.

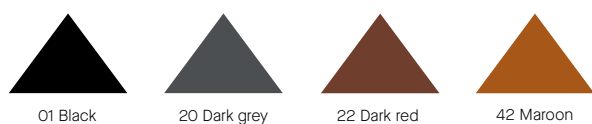
Plannja Regent



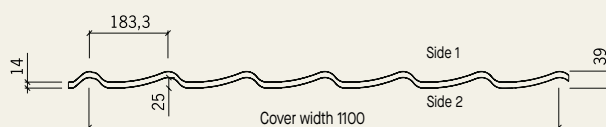


Plannja Regent, 01 Black, Polyester.

Plannja Regent gives a roof an air of elegance. The idiom expresses a pantile roofing tradition, but with a wave profile somewhat lower than Plannja Royal's. Plannja Regent provides good overall economy in terms of purchase price, labour and maintenance. It is also produced in resistant aluminium, and is especially suitable for houses exposed to our salty coastal winds.



Product program
for colors and
coatings, for steel
and aluminum.



Material: Steel | **Colour, coating and other options:** Plannja product program | **Thickness:** 0,5 mm | **Weight/m²:** 4,7 kg | **Minimum pitch:** 14 degrees

◁ Plannja Regent, 42 Maroon.

Plannja Regal





Plannja Regal, 01 Black.

Plannja Regal roof tiles have a distinctive design. Tile profile and step height create a shadow effect that brings vitality and character to any roof. The roof tile has a hemmed front edge that further boosts durability and corrosion resistance while providing an attractive, aesthetic appearance. Plannja Regal fits on industrial pallets and is therefore easy to warehouse and haul. What's more, the design is so flexible that a lone roofer can install Plannja Regal solo.

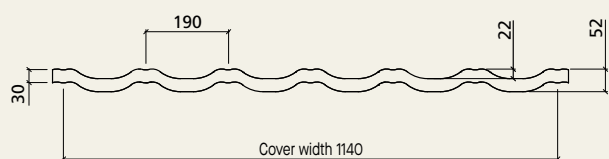
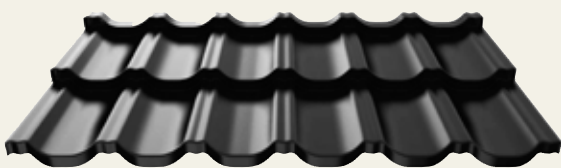
Product program
for colors and
coatings, for steel
and aluminum.



01 Black



42 Maroon



Material: Steel | **Colour, coating and other options:** Plannja product program | **Thickness:** 0,5 mm | **Weight/m²:** 5,2 kg | **Minimum pitch:** 14 degrees

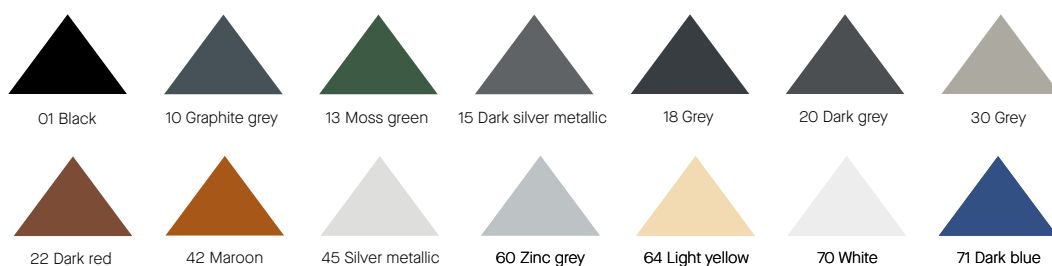
◁ Plannja Regal, 01 Black.

Plannja 20-105

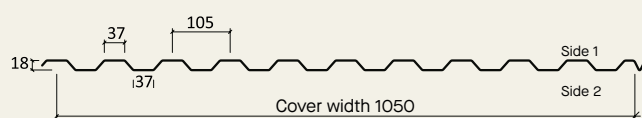
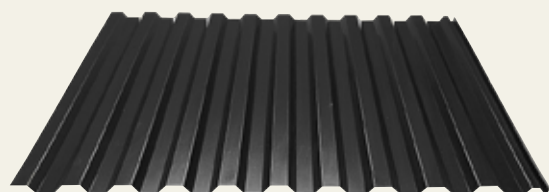


Bild: Plannja 20-105, 01 svart.

Plannja 20-105 is one of the most widely used sheet profiles and can be seen everywhere. From agricultural buildings to architect-designed structures. Our classic 20 profile is in demand by everyone who simply wants functional cladding and roofing, indoors and out. Plannja 20-105 is protected by Hard Coat or polyester and is also available with practical condensation protection on the underside of the sheet. The profile is also made in aluminium.



Product program
for colors and
coatings, for steel
and aluminum.



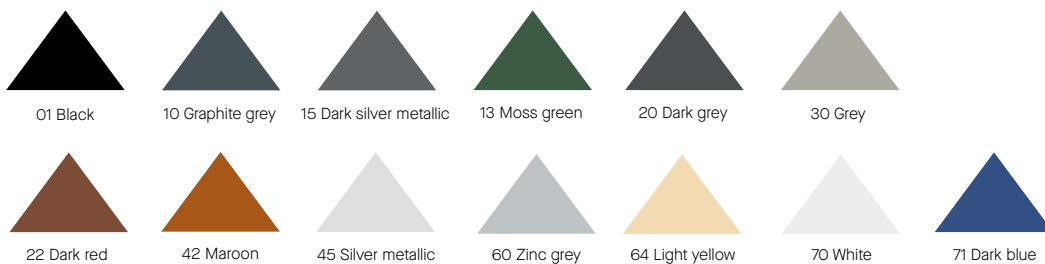
Material: Steel | **Colour, coating and other options:** Plannja product program | **Minimum pitch:** 5,7 degrees
Thickness: 0,6 mm | **Weight/m²:** 5,5 kg
Thickness: 0,5 mm | **Weight/m²:** 4,6 kg

Plannja Sinus 18 & 51

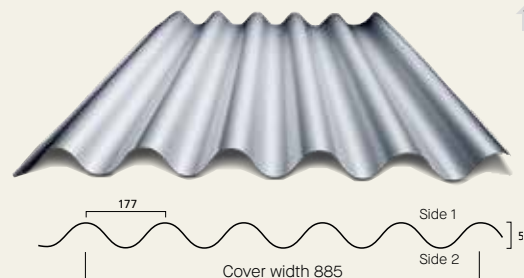
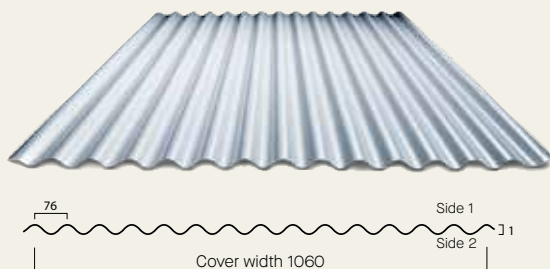


Roof and facade: Plannja Sinus 18, 01 Black.

The Sinus profile is both attractive and versatile, suitable for both the roof and facade of commercial buildings as well as the private villa. The elegant flowing lines of Sinus look equally good on exterior walls and roofs as it does serving as an aesthetic complement to the interior of a building. Everything from interior walls to bar counters or exterior wind protection. The combination of Sinus with other materials enhances the expression of all types of projects. The wavy profile is a popular choice among architects and home owners for its modern and unique expression.



Product program
for colors and
coatings, for steel
and aluminum.



Material: Steel | **Colour, coating and other options:** Plannja product program | **Minimum pitch:** 10 degrees

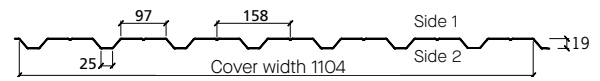
Plannja Sinus 18 | **Thickness:** 0,5 and 0,6 mm | **Weight/m²:** 4,6 kg and 5,5 kg | **Minimum pitch:** 14 degrees. 10–14 degrees with double side overlap and seals at the end- and side overlaps. This provides a cover width of 984 mm instead of the usual 1060 mm.

Plannja Sinus 51 | **Thickness:** 0,6 mm | **Weight/m²:** 6,8 kg | **Minimum pitch:** 10 degrees

PLANNJA 19R



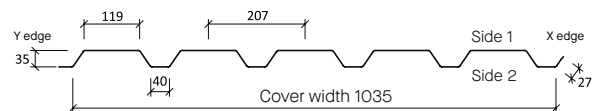
Material: Steel
Thickness: 0,5 mm
Weight/m²: 4,4 kg
Colour, coating and other options: Plannja product program



PLANNJA 35



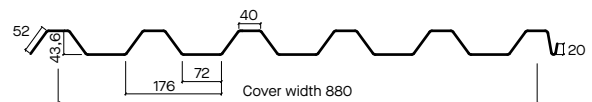
Material: Steel
Thickness: 0,5 and 0,6 mm
Weight/m²: 4,8 kg and 5,8 kg
Colour, coating and other options: Plannja product program



PLANNJA 45



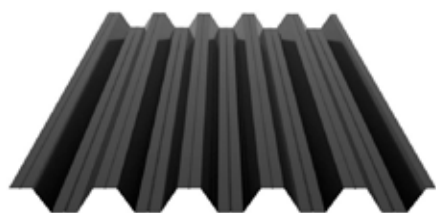
Material: Steel
Thickness: 0,5, 0,6 mm
Weight/m²: 5,5 kg, 6,5 kg
Minimum pitch with sealing: 5,7 degrees
Minimum pitch without sealing: 14 degrees
Colour, coating and other options: Plannja product program



Variant with impressed groove 1.5 mm on each profile top.



PLANNJA T70



Material: Steel

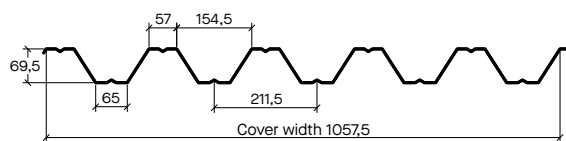
Thickness: 0,7, 0,8, 1,0 mm

Weight/m²: 8,9 kg, 10,1 kg, 12,7 kg

Minimum pitch with sealing: 5,7 degrees

Minimum pitch without sealing: 14 degrees

Colour, coating and other options: Plannja product program



PLANNJA T130M

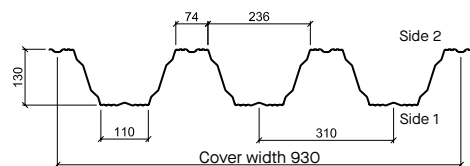


Material: Steel

Thickness: 0,7, 0,8, 1,0, 1,2 mm

Weight/m²: 8,9, 10,1, 11,4, 12,7, 15,2 kg

Colour, coating and other options: Plannja product program



PLANNJA COMBIDECK 45



Material: Steel

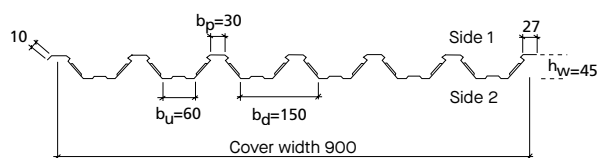
Thickness: 0,85 mm

Weight/m²: 8,9 kg

Colour, coating and other options: Plannja product program

Plannja Combideck allows thinner, lighter joists and beams.

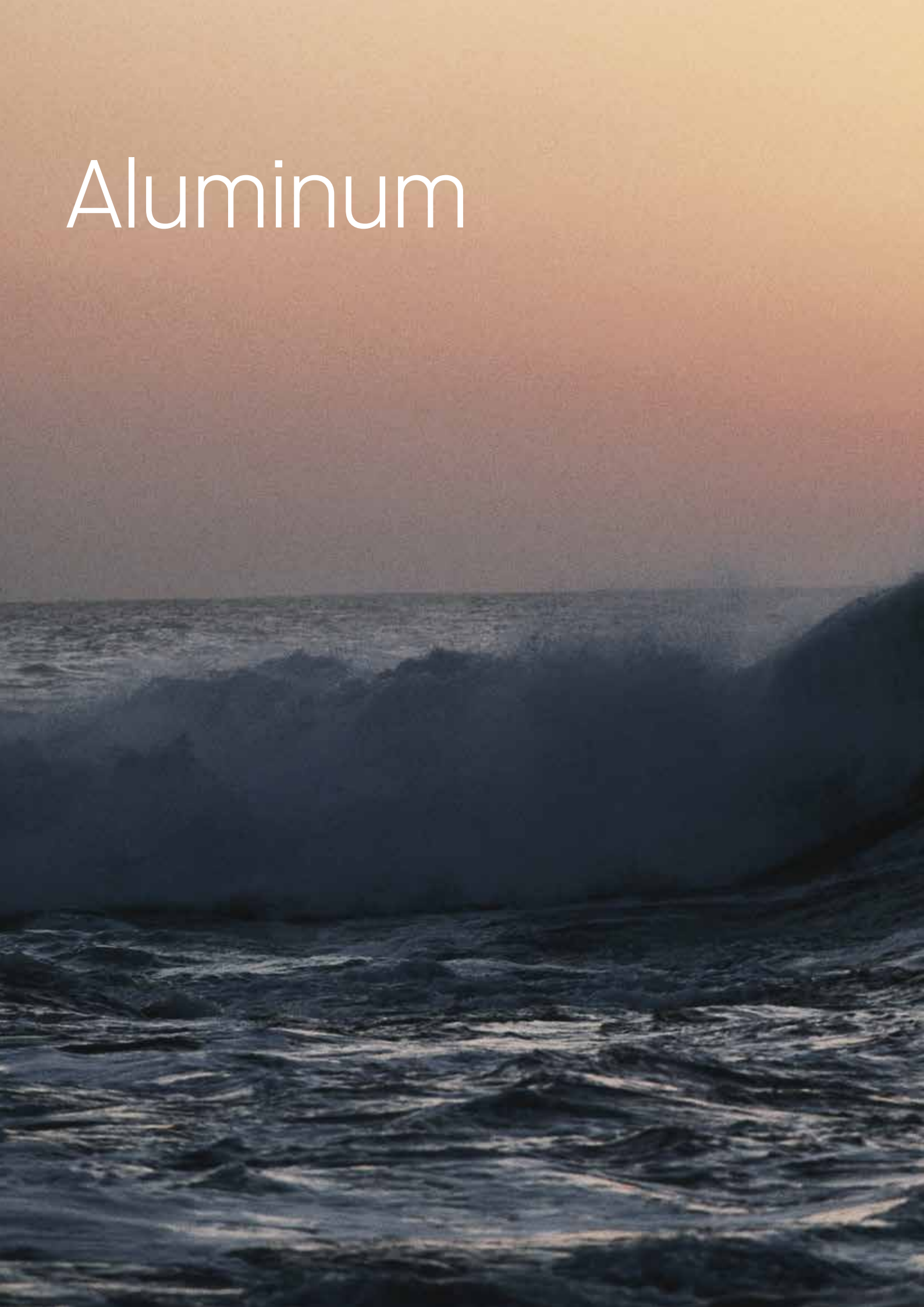
The Plannja Combideck profile is shaped so that the concrete 'grips' the sheet to create an extremely strong structure.



Product program
for colors and
coatings, for steel
and aluminum.



Aluminum





Profiled aluminium for roofing and wall cladding

Rain and damp in coastal environments, big cities and close to industries, may contain salt or acid pollutants with low pH values. In such surroundings roofs and walls are exposed to great stress in the form of corrosion.

Plannja's series of profiled aluminium roofing and wall cladding has exceptional tolerance to salt and acidic oxides and is therefore an excellent choice for roofs and walls in aggressive environments.

If aluminium sheet suffers a scratch or other damage, an oxide layer is immediately formed on the exposed surface. This means that the aluminium actually repairs itself and always protects against corrosive attack – whether or not the sheet has a protective paint finish.

Plannja Trend 475





Plannja Trend 475, 45 Silver metallic

Plannja Trend Aluminum is a profile in a Nordic design that is well suited to salty air and corrosive environments. Concealed fasteners and click-together function make the roof simple to lay. The flashings package help you easily put together a complete roof and create a fantastic flow of lines above your house.

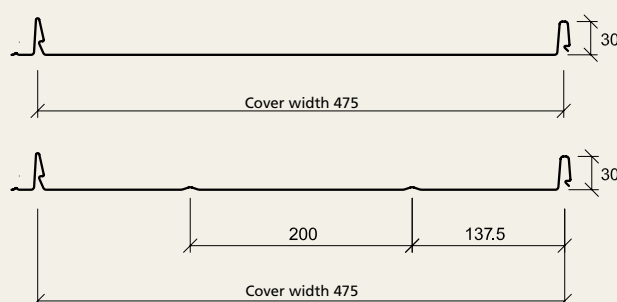
Plannja Trend Aluminum is available in a number of colours matched to our aluminum rainwater systems.



Product program
for colors and
coatings, for steel
and aluminum.



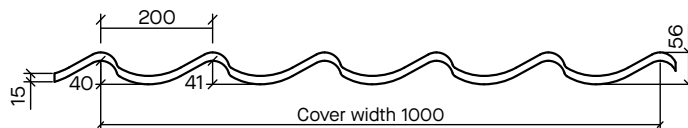
Material: Aluminum | **Colour, coating and other options:** Plannja product program
Thickness: 0,7 mm | **Weight/m²:** 2,3 kg | **Minimum pitch:** 8 degrees | **Length:** 0,7–6,0 m



PLANNJA ROYAL



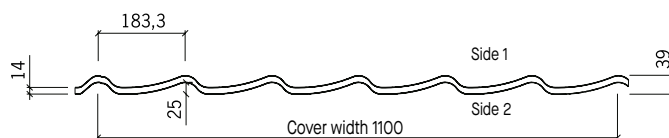
Material: Aluminum
Thickness: 0,6 mm
Weight/m²: 2,0 kg
Minimum pitch: 14 degrees
Colour, coating and other options: Plannja product program



PLANNJA REGENT



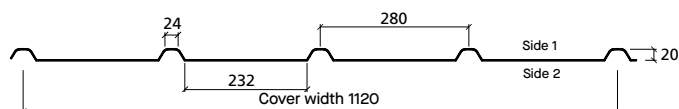
Material: Aluminum
Thickness: 0,6 mm
Weight/m²: 1,9 kg
Minimum pitch: 14 degrees
Colour, coating and other options: Plannja product program



PLANNJA PANNPLÅT



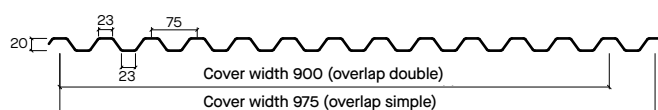
Material: Aluminum
Thickness: 0,7 mm
Weight/m²: 2,3 kg
Minimum pitch: 10 degrees
Length: 1,5–8,0 m.
Colour, coating and other options: Plannja product program



PLANNJA 20-75



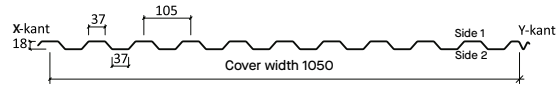
Material: Aluminum
Thickness: 0,5 mm
Weight/m²: 1,8 kg
Minimum pitch with sealing: 5,7 degrees
Minimum pitch without sealing: 14 degrees
Colour, coating and other options: Plannja product program



PLANNJA 20-105



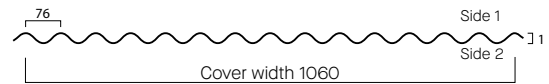
Material: Aluminum
Thickness: 0,6 mm
Weight/m²: 2,2 kg
Minimum pitch with sealing: 5,7 degrees
Minimum pitch without sealing: 14 degrees
Colour, coating and other options: Plannja product program



PLANNJA SINUS 18



Material: Aluminum
Thickness: 0,5, 0,7 and 1,0 mm
Weight/m²: 1,6 kg, 2,3 kg and 3,1 kg
Minimum pitch: 10 degrees
Colour, coating and other options: Plannja product program



PLANNJA SINUS 51



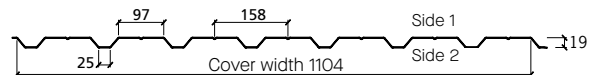
Material: Aluminum
Thickness: 1,0 mm
Weight/m²: 3,7 kg
Minimum pitch: 10 degrees
Colour, coating and other options: Plannja product program



PLANNJA 19



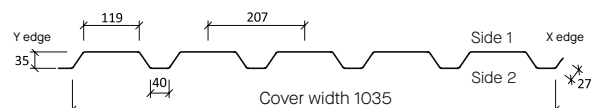
Material: Aluminum
Thickness: 0,7 mm
Weight/m²: 2,3 kg
Colour, coating and other options: Plannja product program



PLANNJA 35



Material: Aluminum
Thickness: 0,7 mm
Weight/m²: 2,3 kg
Colour, coating and other options: Plannja product program



Rainwater systems





Choose Plannja quality!

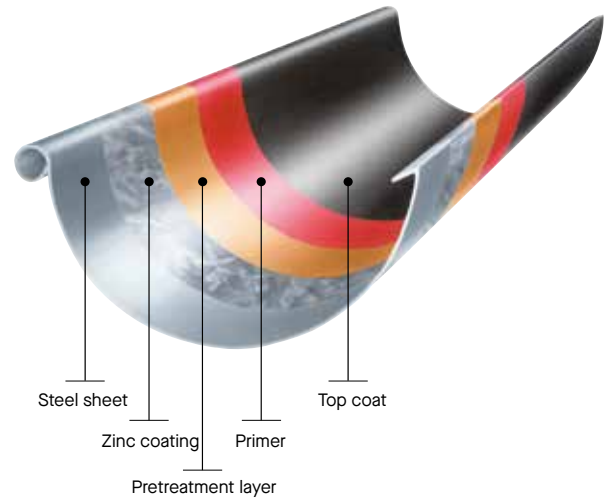
Plannja has brought together everything you need in the way of gutters, downpipes, gutter brackets and innovative accessories under the designation rainwater systems. They provide reliable solutions and minimize the risk of damage caused by water and damp to walls, plinths and foundations. Mere light rain of around one millimetre per hour on a 100 sq m roof will result in 500 litres of water in five hours. A downpour of 50 millimetres is equivalent to 5,000 litres.

Reliable function in an aesthetic setting

But rainwater systems are not just about leading rain and melt water away, they're also about putting the façade in an elegant setting e.g. by accenting colours on gutters and downpipes. Or by allowing silver metallic gutters to add a shine to your house. At Plannja we make products in hot dip galvanized steel and aluminium. There are nine colours and classic copper. Your local dealer will help you customize a solution to protect and grace your buildings.

Rainwater systems that last a lifetime

Water is hard; a single stubborn drip can hollow out a stone. Plannja manufactures rainwater systems in hot dip galvanized steel, aluminium, zinc magnesium and copper. To further extend product life, steel sheet is coated on both sides with GreenCoat PRO RWS and GreenCoat PRO RWS BT, and aluminium sheet with Hard Coat Glossy RWS.

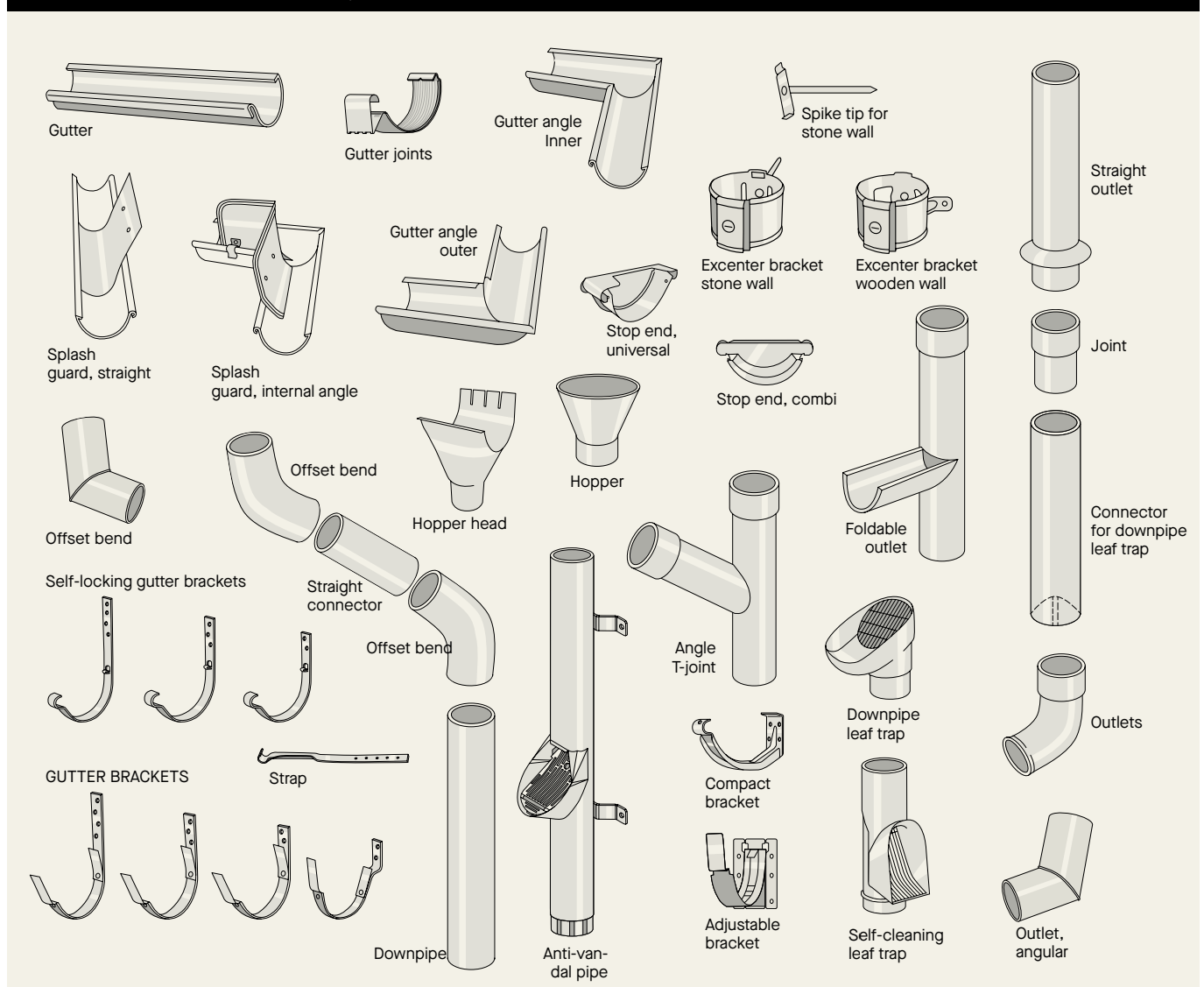


Complete range for total solutions

Plannja rainwater systems comprise a complete range of products with everything you need for efficient rainwater drainage. Many of the components are available in different versions to suit widely dissimilar conditions and aesthetic preferences. There are rainwater experts at your hardware

store who will happily share their knowledge of our products with you. They will provide good advice according to the conditions that apply to your house. The store will also help you customize a perfect, complete construction kit.

PARTS TO RELY ON COME RAIN, COME SHINE



Appearance, colours and material

Rainwater systems are not just about leading rain and melt water away from a building, they're also about putting the façade in an elegant setting e.g. by accenting colours on gutters and downpipes. Choose between the standard, tradition and square systems. Your local dealer will help you customize a solution to protect and grace your buildings.

Plannja Rainwater System in a matte black that matches roofs – a welcome new product for house owners, builders and architects with high aesthetic standards.

Your choice of material affects product lifetime. For example, aluminium is the better choice in environments with a high salt content.

New! Choice of colour

Can't find your favourite among our standard colours? You can order our rainwater system in a choice of RAL or NCS colours, and also choose between Gloss 20 or 40.



Product program for colors and coatings, for steel and aluminum.



COLOURS STEEL | ALUMINIUM

A = colour in aluminium



01 Black



45 Silver metallic



80 White



15 Dark Silver Metallic



18 Grey



20 Dark grey



22 Dark Red



42 Maroon



56 Dark Brown



8701 Matt Black



ZincMagnesium



Copper

ALU PL22 is excluded from assortment during 2023.

STANDARD | STEEL AND ALUMINUM



TRADITION | STEEL



SQUARE | STEEL



Accessories





The parts that create the whole

Plannja original accessories are made to ensure your roof and rainwater system stand the test of time. Our extensive product range includes everything from roof profiles, roof cowls, roof ladders and walkways to flashings and fittings, fasteners and seal strips. All of our accessories are designed to work together in the best possible way. With Plannja's original accessories, your house will gain a safe, durable and coordinated overall appearance. The following pages present a selection of our accessories. The complete range can be found at plannja.com.

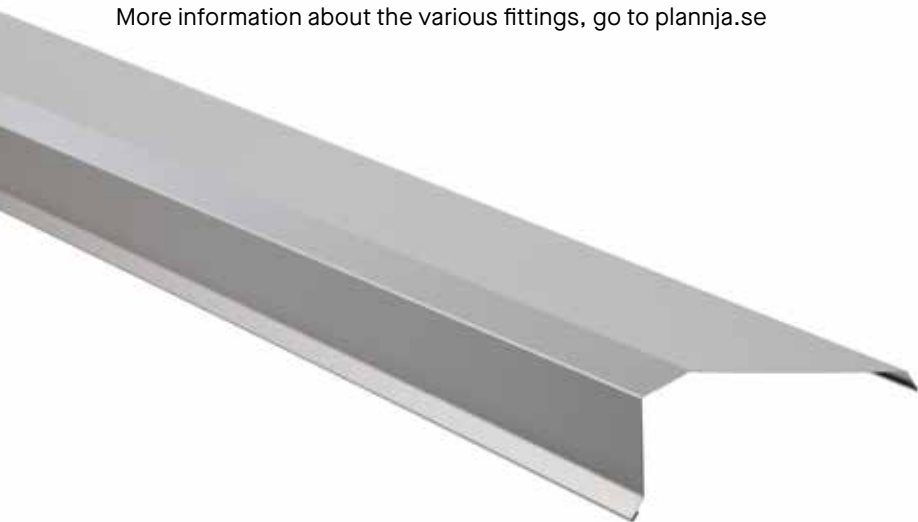
Flashing & fittings

Image: Plannja Trend, 45 Silver metallic

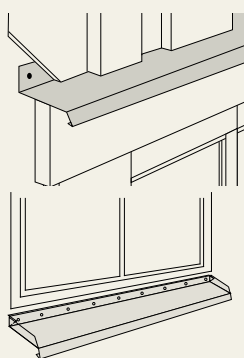
Plannja's fittings are adapted to different roof types and roof profiles, they create a well-thought-out totality. In addition, the house needs both window coverings and fittings to protect particularly exposed parts from all the challenges of nature.

Window and roof flashings available in steel. Roof and wall flashings also available in aluminium and aluzinc, and in different colours and coatings to suit your roof. Most flashings come in black or white as standard. Window flashings are pre-drilled for nailing every 100 mm e.t.c.

More information about the various fittings, go to plannja.se

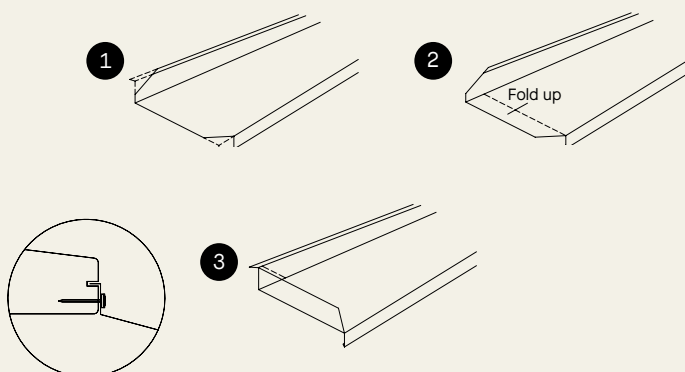


Installation tips



Drip cap
Installed above the window case. Prevents water forcing its way into the structure. The drip cap is screwed or nailed every 10 cm.

Sill
Installed in the window frame's routed groove. Prevents water and snow from forcing its way behind the wall cladding. See alternative below.



Ventilation cowls & Soil vent units

Plannja manufactures ventilation cowls and soil vent pipe cowls for the respective roof tiles and profiles to provide a watertight, aesthetic solution for every type of roof. The majority of all roofs require cowls on ventilation systems or drainage system soil vent pipes that end above roof. Plannja roof penetrations are easy to install and adjust to different roof pitches as they are adjustable.

VENTILATION COWLS FOR PLANNJA TREND 475



Ventilation cowl with adjustable top section and complete with flashing flange, for roof pitches up to 45°. Delivered with duct Ø 160 mm and duct reducers 160>125, clad with condensation-proof insulation with a fire rating for kitchen fans. Approved for both kitchen ducts (kitchen fan) and as an exhaust duct for e.g. air heat pump, exhaust air fan, exhaust air heat exchangers.

SOIL VENT PIPE COWL FOR REGAL



Soil vent pipe with an adjustable top section for roof pitches up to 45°; complete with flashing flange and a flexible connection hose for drain vent pipes 75–110 mm.

The products should be supplemented with transition sheet at the join between the penetration and the ridge.

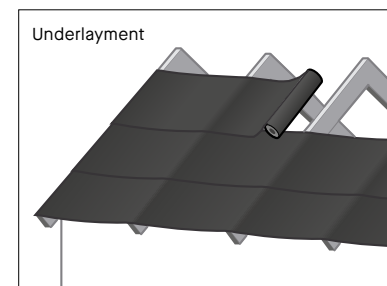
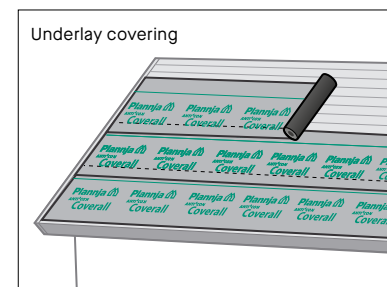
Underlayment



Image: Plannja Trend, 45 Silver metallic

The underlayment keeps the entire roof structure and loft space dry even if rain or melt water should force its way in beneath the roofing. It also takes care of the condensation that can form beneath the metal roof when there are great temperature differences between the air above the roofing and the air below it. The product is suitable as underlay covering beneath all roofing materials, and it also protects against foot penetration.

Plannja Anticon Coverall has the latest high-performance underlay covering technology. A combination product that can be used both as underlay covering directly on a flat substrate such as tongue and groove board, and as underlayment directly on trusses.



Plannja Anticon Coverall with 5 functional layers:

A tear-resistant HDPE tear strength **1** net, an anti-slip treated LDPE membrane for watertight integrity **2**, a non-woven PP anti-slip layer for good foot grip (or as condensation protection in an alternative application as underlayment) **3**. Furthermore, these three layers have been laminated together with two layers of LDPE for additional strength and watertight integrity.

Length: 20 | 40

Width: 1500 mm | 1500 mm

Area per roll: 30 m² | 60 m²

Weight per roll: 6 kg | 12 kg

Weight: 200 g/m² | 200 g/m²

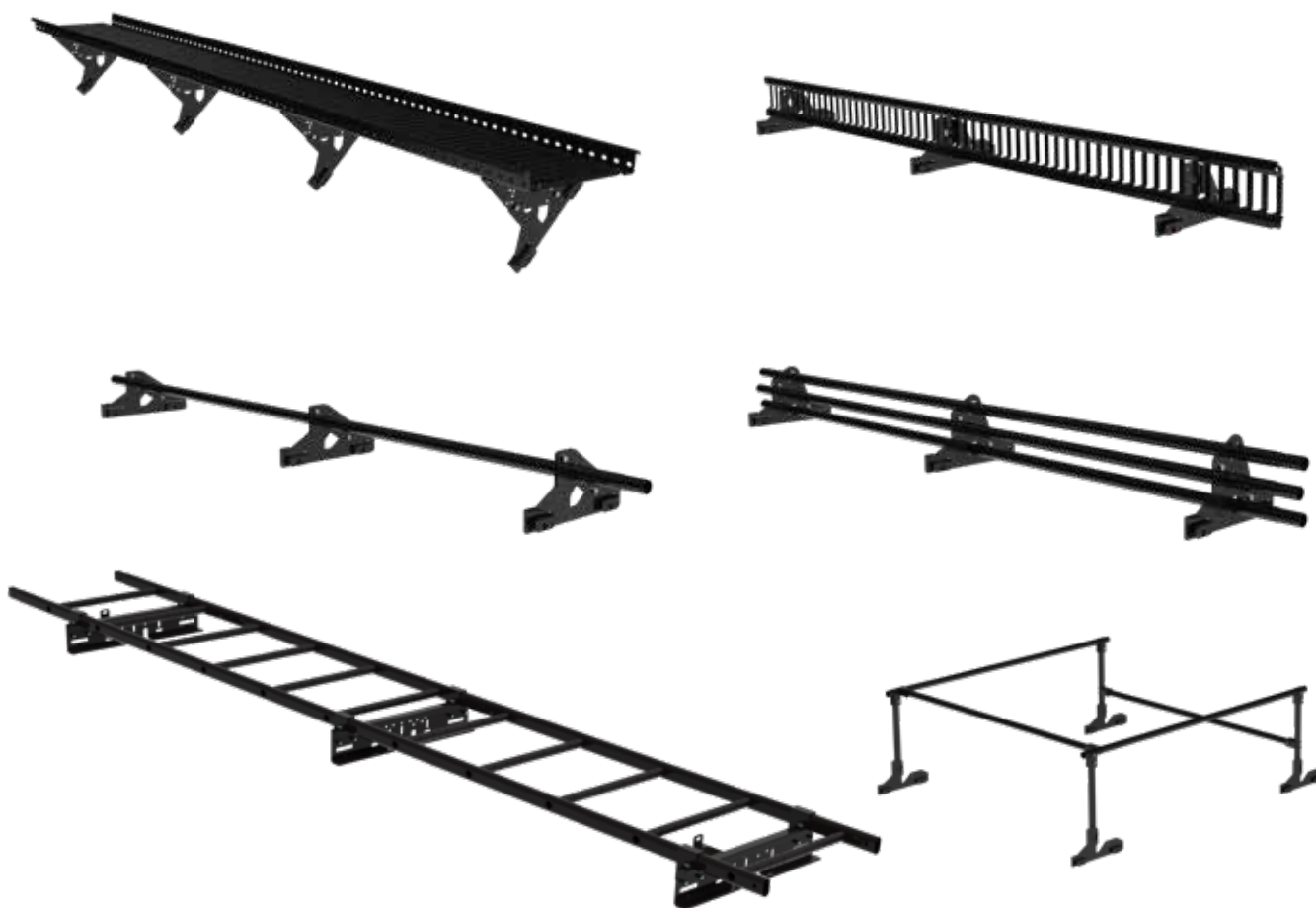
Minimum pitch: Freely suspended underlayment 14°.

Underlay covering 10°, with concealed fasteners 3°.



Safety on the roof

Choosing the right roof safety products is as important for the person who has to climb onto the roof as it is for the person below. Plannja roof safety is a complete roof safety and snow guard system with products for all types of roofs. All enjoy simple, easy-to-install designs. Your Plannja dealer is there to help with regulations and calculations.



More detailed information about our products can be found at plannja.se along with installation instructions and certificates.

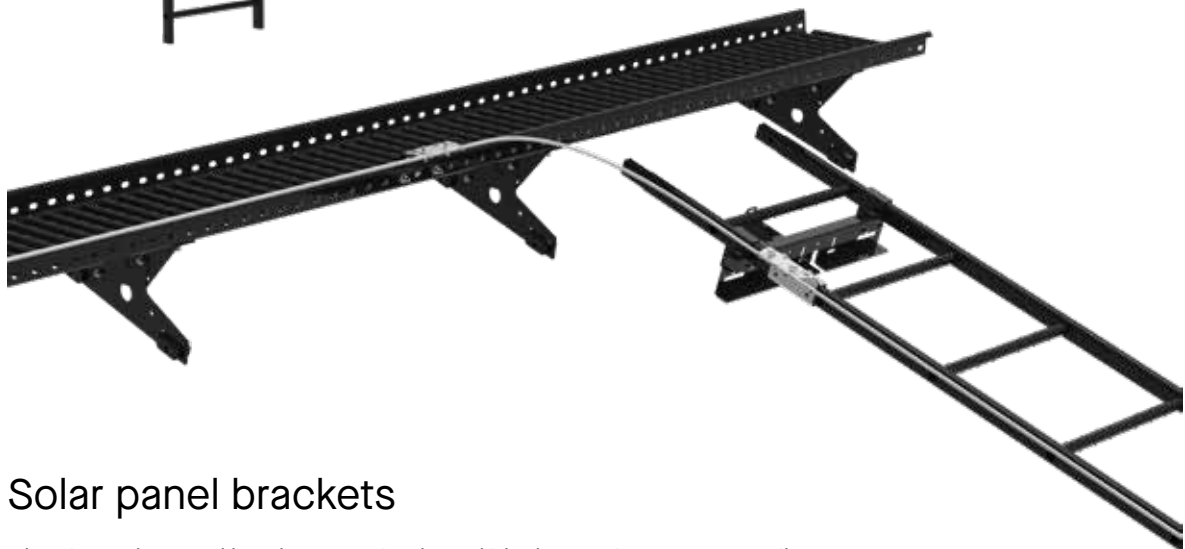


Wall-mounted ladders

Plannja's wall-mounted ladders are easy to install with simple accessories. The rungs are machined to provide excellent anti-slip protection. The ladders can also be fitted with harness tracks for continuous connection during climbing.

Wiresystem

Plannja's newly developed Wiresystem Safeline is installed on wall-mounted ladders, roof ladders and walkways. Our patent-pending attachment simplifies both installation and use. Using the same wire and runner along the entire walkway provides a constant, stable anchor for your personal fall protection equipment.

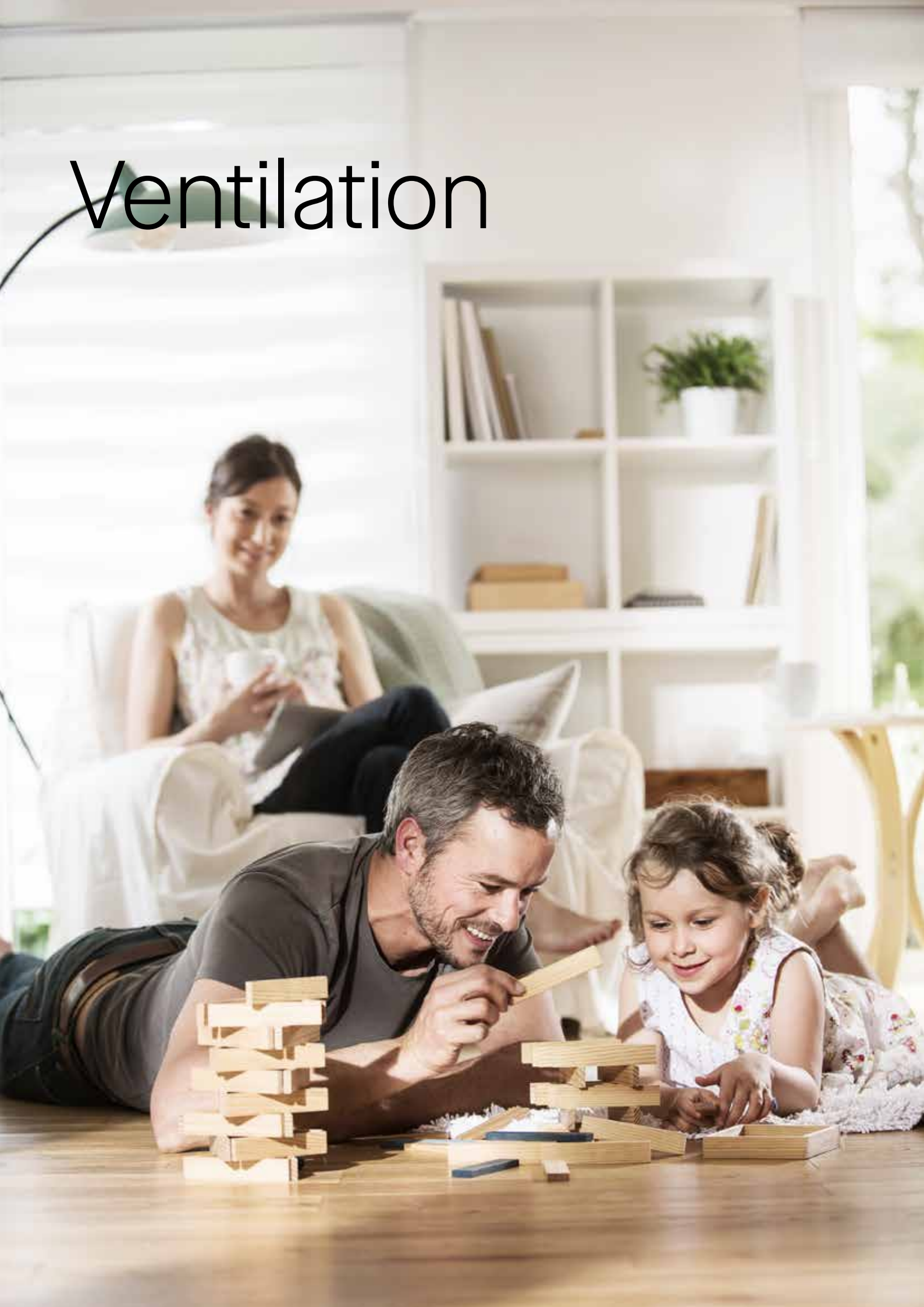


Solar panel brackets

Plannja's solar panel brackets are simple and ideal for various types of rails. Brackets are available for mounting on the most common roofing materials.



Ventilation



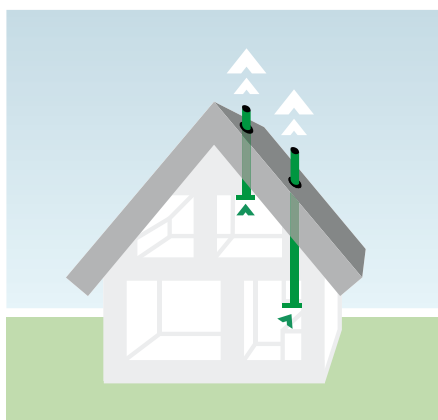


Fresh air indoors

For fresh, healthy indoor air, Plannja offers various types of ventilation systems that use ducts and components ready for installation.

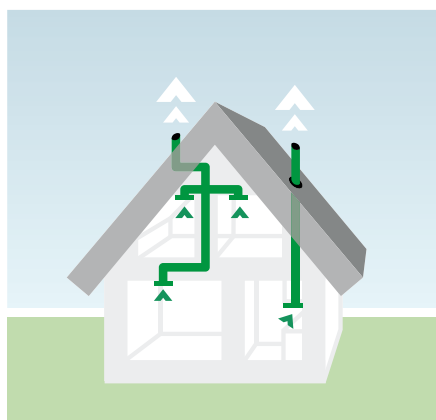
To enjoy good air quality in your home, a functioning ventilation system is essential. The primary task of ventilation is to supply fresh air and carry away polluted air. It must provide us with fresh air at the right temperature, without draughts or irritating noise. It must not use more energy than is necessary, but rather conserve energy and save money.

Ventilation system



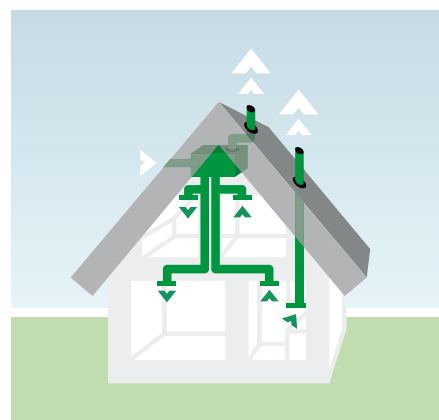
Natural ventilation.

The most common form of house ventilation throughout the ages. We make use of the fact that hot air rises. A duct is run from every ventilated room to above the roof, where it is connected to a cowl.



Mechanical exhaust ventilation.

Mechanical exhaust ventilation means a fan draws stale air from the house. It is usually taken from spaces such as the kitchen, laundry room, bathrooms and toilets. Fresh air from outdoors enters through wall vents or window slot vents.



Mechanical inlet and extraction with heat recovery.

Fans supply and extract air to ventilate the house. The heated exhaust air is allowed to pass through a heat exchanger where heat is transferred to the cold inlet air.

Installation

Plannja Villa Ventilation is easy to install. You can handle most of it with simple tools such as a hacksaw or metal shears, a ruler, file, screwdriver, pop-rivet gun and a power drill.



Installation of valves (vents) can take place using an attachment frame or directly onto the duct.

Preparations

Cut the duct at right angles using a hacksaw or metal shears into measured lengths (less component dimensions). File away any burrs at the duct ends carefully using a file or de-burring tool.

Installation

Connect the appropriate sections together on the floor. Parts are installed more easily if they are twisted while pushing them in. All joints must be secured with at least three fasteners, sheet metal screws with reduced drill tips or pressure-tight pop rivets. Sealed pop rivets should be used in ducts that are intended for cleaning. Screws and sealed pop rivets should be located such that they do not damage the rubber seals.

Further installation information is available in Swedish in AMA VVS & Kyl 16.

Duct systems must be insulated in installations in unheated spaces. Refer to the instructions from the insulation supplier. Special flashings are used for roof penetrations through external roofs.



Screw together the different parts of the system.



The duct is easily insulated using tubular insulation.

Duct system

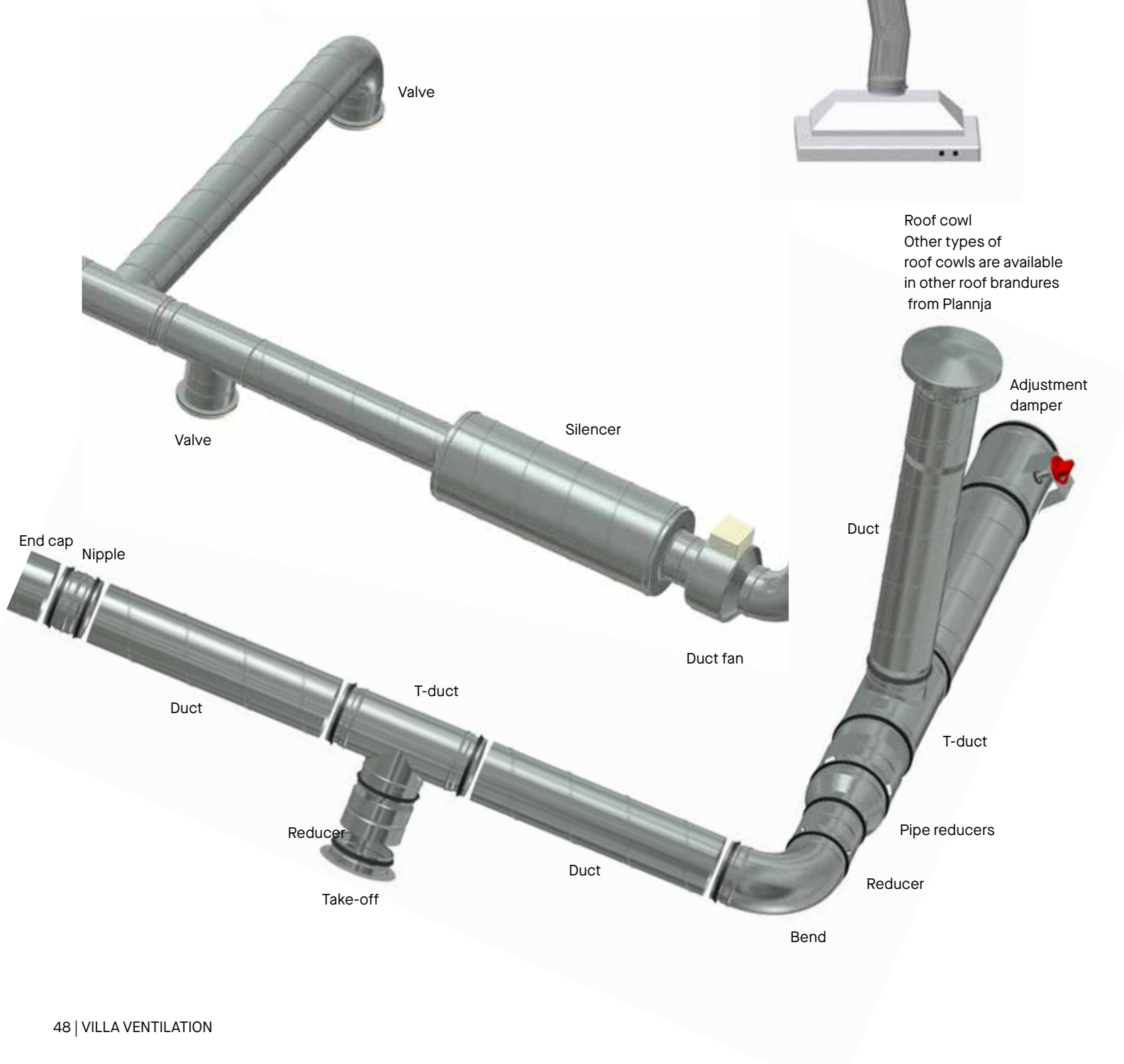
Plannja Villa Ventilation is a complete circular duct system that is type approved in air seal class D. Duct and duct parts are manufactured in hot dip galvanized steel sheet held together by pop rivets or screws with reduced drill tips.

Seals

Seal rings in solid EPDM rubber are used in most products. This rubber grade is characterized by e.g. extremely good resistance to ozone and ultra violet radiation. Gaskets withstand temperatures up to 80°C.



Roof cowl
Other types of roof cowls are available in other roof brandures from Plannja



Building regulations

Certain alterations and new construction ventilation installations require planning permission to be sought from the local building committee in your municipality. Because ventilation is important for us there are many regulations regarding function and design (air flow, fire insulation, cleanability, etc.). The most important requirements are set out below. If you have questions or are unsure, contact an expert e.g. your chimney sweep or HVAC consultant, for information about what applies in your case.

Kitchen fan

The duct from the kitchen fan must always be run separately to above the roof. It must be insulated according to fire rating EI 15. It must be fitted with an inspection cover to allow cleaning. See illustration. There must be further inspection covers after bends in excess of 45°.

Duct runs

Ducts in unheated spaces must be insulated so that condensation is prevented. Flexible hose may be used instead of bends (Fe or Al). Flexible aluminium ducting (Al) may not be used on fire-rated installations, except between stoves and ducts.

Valves (inlet and outlet vents)

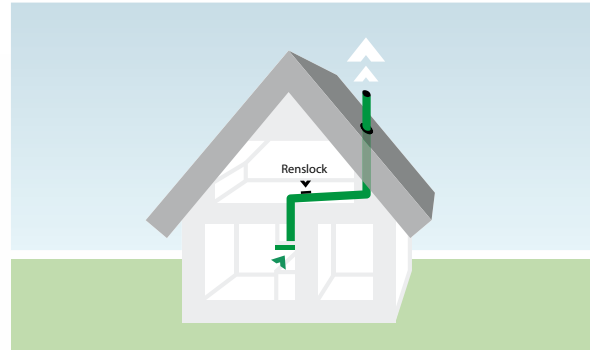
The location of valves must be made bearing in mind that air must flow throughout the entire house. Install them as far apart as possible.

Duct design with natural ventilation.

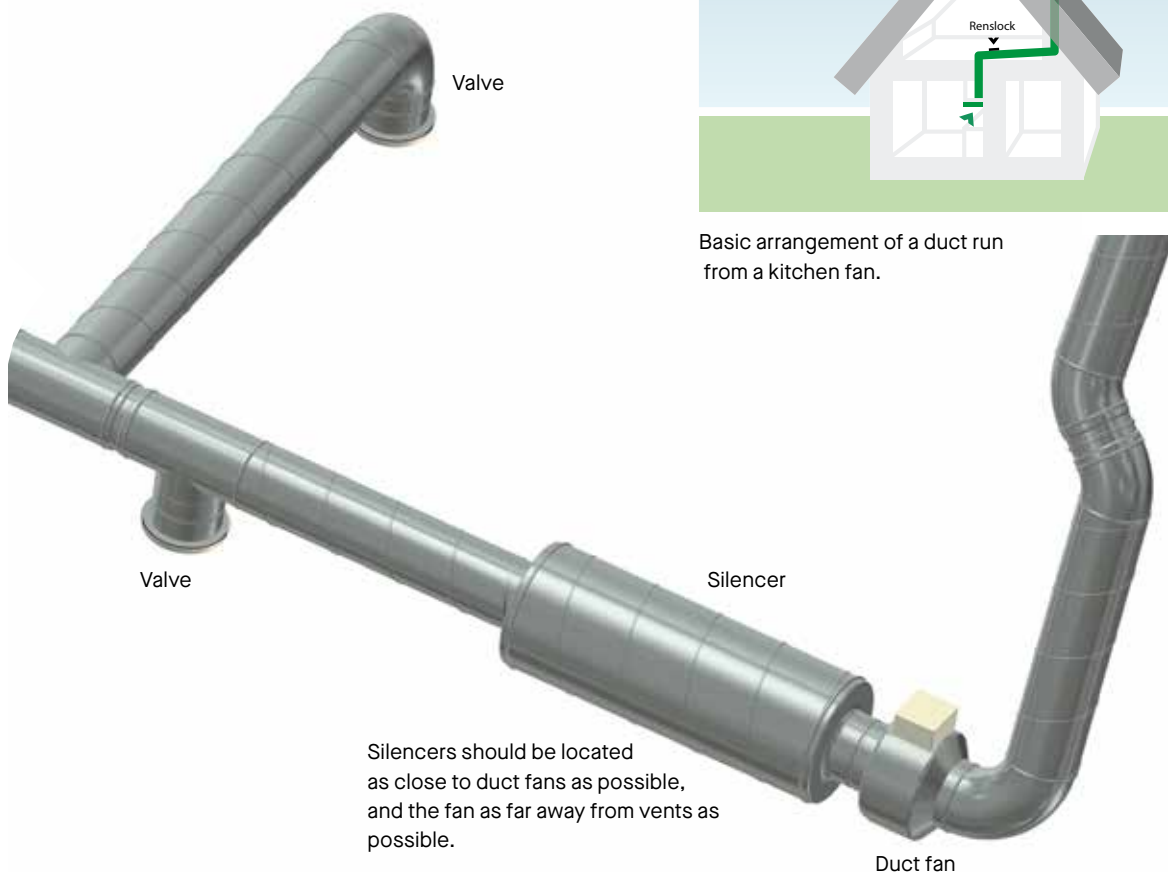
The following dimensions are suitable:

- Toilet Ø125
- Bathroom Ø 160
- Laundry Ø 160

Horizontal duct runs should preferably be avoided in natural ventilation. Install the ducts with a slight incline toward the roof cowl.



Basic arrangement of a duct run from a kitchen fan.

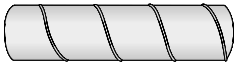
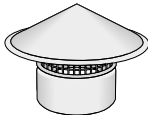
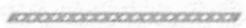
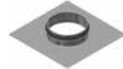


Silencers should be located as close to duct fans as possible, and the fan as far away from vents as possible.

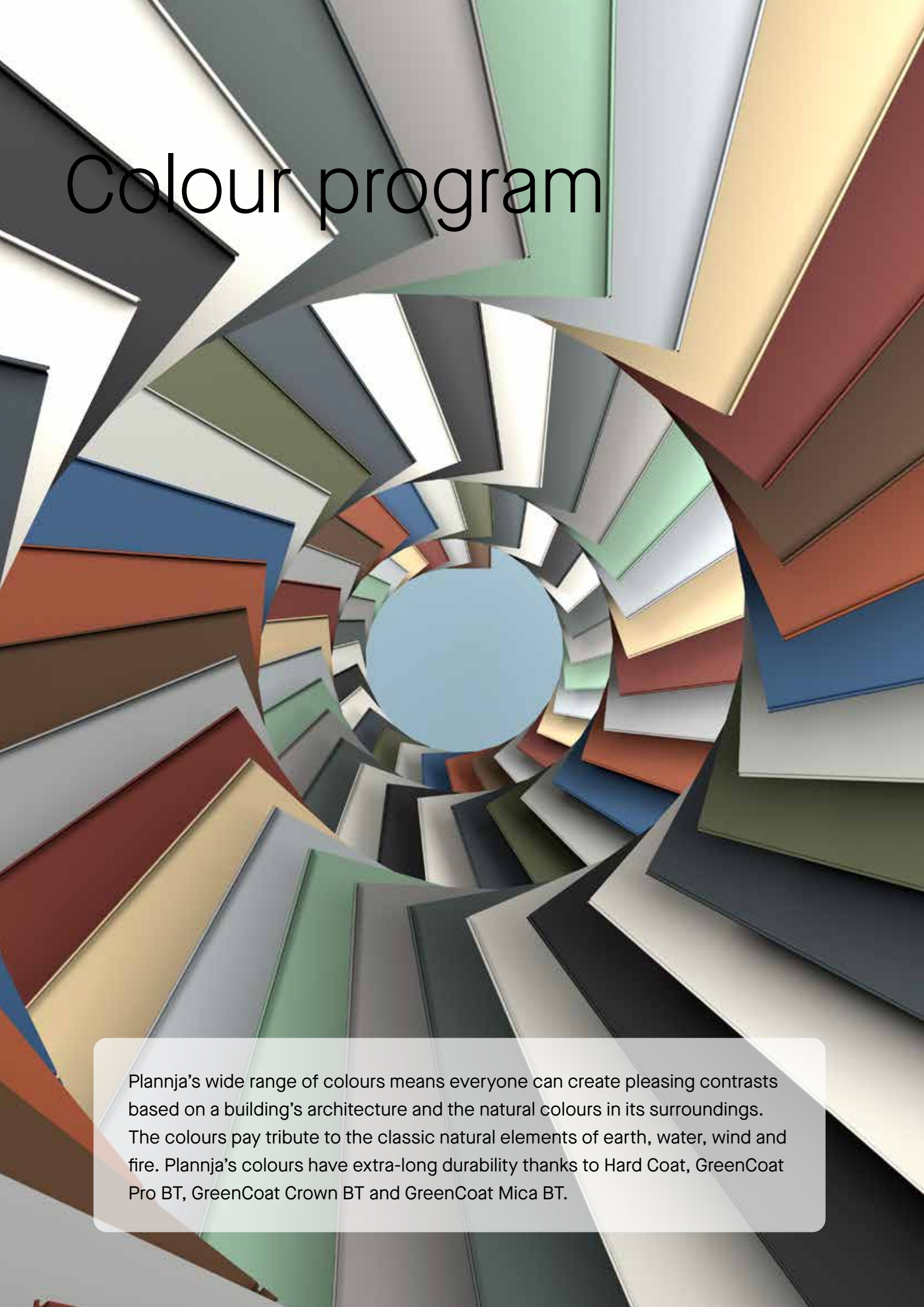
Villa ventilation

To enjoy good air quality in your home, a functioning ventilation system is essential.

The primary task of ventilation is to supply fresh air and carry away polluted air.

PRODUCT PROGRAMME		ACCESSORIES	
43BDEK Duct* 1.15 or 3 m		43XBEZ Roof cowl	
43IS Tubular insulation 3 m		43BDER Silencer Fire rating EI 15 0.9 m	
43BDEN Nipple*		43K Duct fan	
43BDEM Muff*		43FK Suspension brackets For installing duct fan	
43BDEB90 Bend 90 degrees*		4333TYUL Thyristor Used for regulating duct fan rpm. May be installed flush or proud.	
43BDEB45 Bend 45 degrees*		43301RFP Installation frame	
43BDEB30 Bend 30 degrees*		43301E Outlet vent	
43BDET T duct*		4333FE Flexible metal duct	
43BDED3 Dimension change* Insert – insert		4333KFS Kitchen fan hose 1 m for connection between duct and the kitchen fan	
43BDED1 Dimension change* Slide on – insert		4333AL Flexible aluminium duct 1.5 m	
43BDEG10 End cap, slide on*		43UHB0720 Suspension strap 10 m. Thickness 0.7 mm	
43BDEG40 End cap, insert*		4333SK80160 Hose clamp 60–175 mm	
43BDEG2 Inspection cover Insulated Fire rating EI30		43PVC50200 PVC tape, 20 m for joining tubular insulation. Width 50 mm	
43BDEG1 Inspection cover Uninsulated		43S1422 Wall stub pipe	
43BDEP Adjustment damper Closable damper		All ducts and duct components are available in sizes of 100 mm, 125 mm and 160 mm. Products marked with an asterisk* are also available in 200 mm. Duct and duct parts are manufactured in hot dip galvanized steel sheet. All parts come with seal rings in solid EPDM rubber.	

Colour program

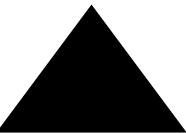


Plannja's wide range of colours means everyone can create pleasing contrasts based on a building's architecture and the natural colours in its surroundings. The colours pay tribute to the classic natural elements of earth, water, wind and fire. Plannja's colours have extra-long durability thanks to Hard Coat, GreenCoat Pro BT, GreenCoat Crown BT and GreenCoat Mica BT.

Wide range of colours

The colour illustrations in our printed matter should be taken as indications only. Ask for sheet samples for correct colour reproduction.

HARD COAT | COLOURS

		
01 Black	10 Graphite grey	20 Dark grey
		
60 Zinc Grey	70 White	90 Warm white
		
33 Copper green	13 Moss Green	64 Light yellow
		
15 Dark Silver Metallic	30 Grey	45 Silver metallic
		
71 Dark blue	22 Dark Red	42 Maroon

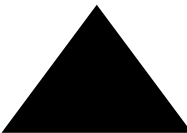
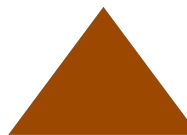
POLYESTER | COLOURS

		
9005 Black	9010 White	3009 Red

GREENCOAT PRO BT | COLOURS

		
01 Black	15 Dark Silver Metallic	20 Dark grey
		
30 Grey	34 Antique green	42 Maroon
		
45 Silver metallic	60 Zinc Grey	

GREENCOAT MICA BT – PLANNJA ARCTIC | COLOURS

		
01 Black	10 Graphite grey	18 Grey
		
20 Dark grey	22 Dark Red	42 Maroon
		
60 Zinc Grey		

GREENCOAT CROWN BT | COLOURS

	
01 Black	42 Maroon

Environment and quality




**Natural
raw material**
100% recyclable

The Nordics' favourite roof

Plannja has been refining steel and aluminium for roofs in Sweden and abroad for more than 50 years. We have developed resistant roof solutions and roof components that can cope with everything from ice and snow slides to extreme temperature differences. Plannja's designs keep pace with technical developments at every step.

Our
warranties
plannja.se

Overall economy

Not taking care of a roof can be an expensive business. Often, leaks are not discovered until the damage to the underlying structure is done. Here at Plannja we understand that a roof forms an important part of a building's functional, aesthetic and financial value. Each quality-assured roof from Plannja is engineered to be easy to transport and simple to lay. The overall economy concept takes into account aspects such as the amount of preparatory work, the number of skilled labour hours and future maintenance. With this in mind it's easy to count on Plannja.

The environment

Plannja is a Swedish company with production in Sweden, where most of its steel products are manufactured in the premium material GreenCoat®, Nordic colour-coated quality steel. Steel and aluminium are 100 percent recyclable and they retain their qualities forever. Steel-based products often have a longer technical lifetime than the buildings they form part of, and can thus be reused in future buildings. Therefore from a lifecycle perspective, steel is a major asset in sustainable community building. Steel also has many other advantages such as its low weight and minimum requirement for maintenance. In terms of design, no other building material has such rich variation as sheet metal, and in the hands of a skilled craftsman it can provide countless different looks.

Warranties

Nothing is left to chance, and all of our products must cope with real-world conditions and the tough Nordic climate. Plannja's warranties cover both technical and aesthetic requirements such as rust-through, colour fastness and paint flaking. The applicable warranties depend on the product's material and type of coating.

Steel or aluminium

Plannja roofs consist of a core of hot dip galvanized steel or aluminium. We then add a number of protective layers and coatings which make Plannja more or less a maintenance-free alternative. A Plannja roof's low weight goes easy on the person laying it and the actual roof structure. A concrete tile roof weighs more than ten times as much as a Plannja steel roof and 20 times more than our aluminium roofs.

Different coatings

Plannja's coatings are very important. Not only because they give you a wide range of colors to choose from, but also because the coatings provide a long and lasting protection for the sheet metal.

Hard Coat

A roof must withstand snow, ice, torrential rain, a blazing summer sun and the chimney sweep's boots. Because our Hard Coat

surface coating was developed with this in mind, it has become something of a quality yardstick in the construction industry. Hard Coat is polyester based with unique additives that provide it with an extremely hard, scratch-resistant surface. Despite its hardness, Hard Coat is flexible and able to cope with any roofing sheet movement. Plannja aluminium rainwater systems come in a glossy variety, Hard Coat Glossy.

GreenCoat BT

GreenCoat BT (bio-based technology) is a new generation painted steel sheet. The organic surface coating concept is patented. A significant proportion of the conventional solvents has been replaced with renewable solvents produced from natural oils. GreenCoat BT is preferable from an environmental standpoint and gives rise to lower carbon dioxide emissions. The coating is also the only chromate-free product developed for Nordic conditions and is available in several versions such as GreenCoat Pro BT, Pro BT Glossy, Crown BT and Mica BT.

Polyester

Polyester is a standardized, economical paint system with excellent colour and gloss-retention qualities. The coating comprises two layers with a total thickness of 25 µ and is suitable for roof and wall profiles.

Surface treatment

Plannja's products are available in various surface treatments and surface structures, which create beautiful expressions in combination with materials and colors. The various properties give you the opportunity to realize your visions.

ZincMagnesium

ZincMagnesium is a living material that gains a patina over time and takes on a darker hue. The material has excellent corrosion-protection properties thanks to a surface coating consisting of a metallic layer comprising 3% magnesium, 3.5% aluminium and 93.5% zinc.

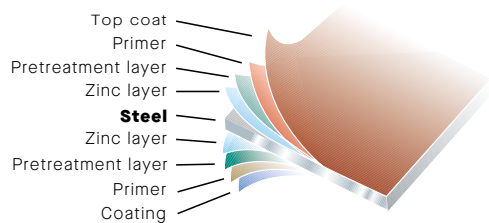
Plannja Arctic

Plannja Arctic is a completely matte surface with a unique structure that gives the plate a lively expression, and is available in a number of distinct colors to choose from. The inspiration is taken from the changing nature of the Nordic region. The special texture means that you can advantageously use Plannja Arctic in projects where you are looking for new expressions and a more exclusive feeling. The surface is scratch-resistant and makes the job easier for the person laying the roof. Plannja Arctic is a sustainable choice. The basis of the surface is Swedish rapeseed oil and the steel can be recycled to one hundred percent.

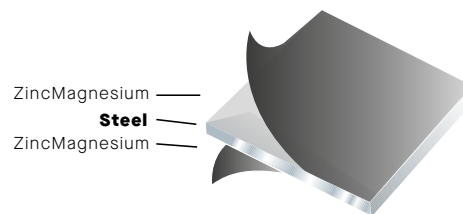
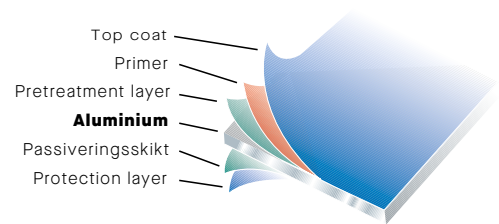
Sheet structure

Sheet structure varies depending on the base material and type of coating.

STÅL



ALUMINIUM



Plannja is a GreenCoat® partner

GreenCoat® is a brand of innovative, eco-friendly colour-coated sheet solutions for roofs, external walls and rain-water systems. GreenCoat® products are used extensively in sustainable architecture thanks to their wide range of colours and coatings using Swedish rapeseed oil. Most of Plannja's steel products are manufactured in the premium material GreenCoat®, a Nordic colour-coated quality steel ideal for all climates and a greener lifestyle.

Plannja is part of Svensk Byggplåt

Svensk Byggplåt (Swedish Construction Sheet) is a trade organisation that actively promotes and highlights the excellent, unique advantages of sheet metal as a building material. We aim to make sheet-metal the go-to choice for every type of structure and a natural component for use in building tomorrow's communities. We work to help more people disco-

ver the possibilities and advantages construction sheet offers, and bring the common perception of the material up-to-date. Svensk Byggplåt represents virtually all of Sweden's leading construction sheet suppliers, as well as Plåt & Ventföretagen, an industry and employers' federation for companies that work with construction sheet and ventilation.

Quality classes

Plannja's roofing material is covered by a long-term warranty, our written assurance of reliability as a manufacturer and supplier of high-quality products. Our warranties consist of two parts – technical and aesthetic.

Technical warranty

The technical warranty covers manufacturing and material defects – we guarantee that it will not rust through causing leaks.

Aesthetic warranty

The aesthetic warranty applies to the durability of the product's coated surface – we guarantee the colour coating will not peel or otherwise degrade, or show abnormal colour changes during the warranty period.

When you demand more from roofing products



Plannja 50

Products in the Plannja 50 quality class are covered by a 50-year technical warranty and a 25-year aesthetic warranty. Sheet in the Plannja 50 class is characterised by a durability that can handle tough metalworking and a quality that emphasises the roof's beautiful appearance for many years. Plannja 50 steel roofing products are coated with GreenCoat Pro BT Matt and Glossy. Aluminum roofing products in the Plannja 50 quality class refer to polished materials.



Plannja 40

Products in the Plannja 40 quality class are covered by a 40-year technical warranty and a 15 to 25-year aesthetic warranty. Plannja 40 products provide an assurance that guarantees long-term use. Plannja 40 steel roofing products are coated with GreenCoat Mica BT, GreenCoat Crown BT or GreenCoat Hiarc. Aluminum roofing products in the Plannja 40 quality class have Hard Coat 25 coatings.



Plannja 30

Products in the Plannja 30 quality class are covered by a 30-year technical warranty and a 15 to 20-year aesthetic warranty. Plannja 30 products are reliable and robustly designed to meet everyday demands for a long time to come. Steel roofing products in the Plannja 30 quality class are coated with Hard Coat 50.

Buyer's guide

The buyer's guide contains everything you need to plan your purchase. It's always a good idea for private individuals to run through their plans with a professional before purchasing. Installation instructions are available as separate brandures. More tips, advice and a list of Plannja's dealers can be found on our website at plannja.se



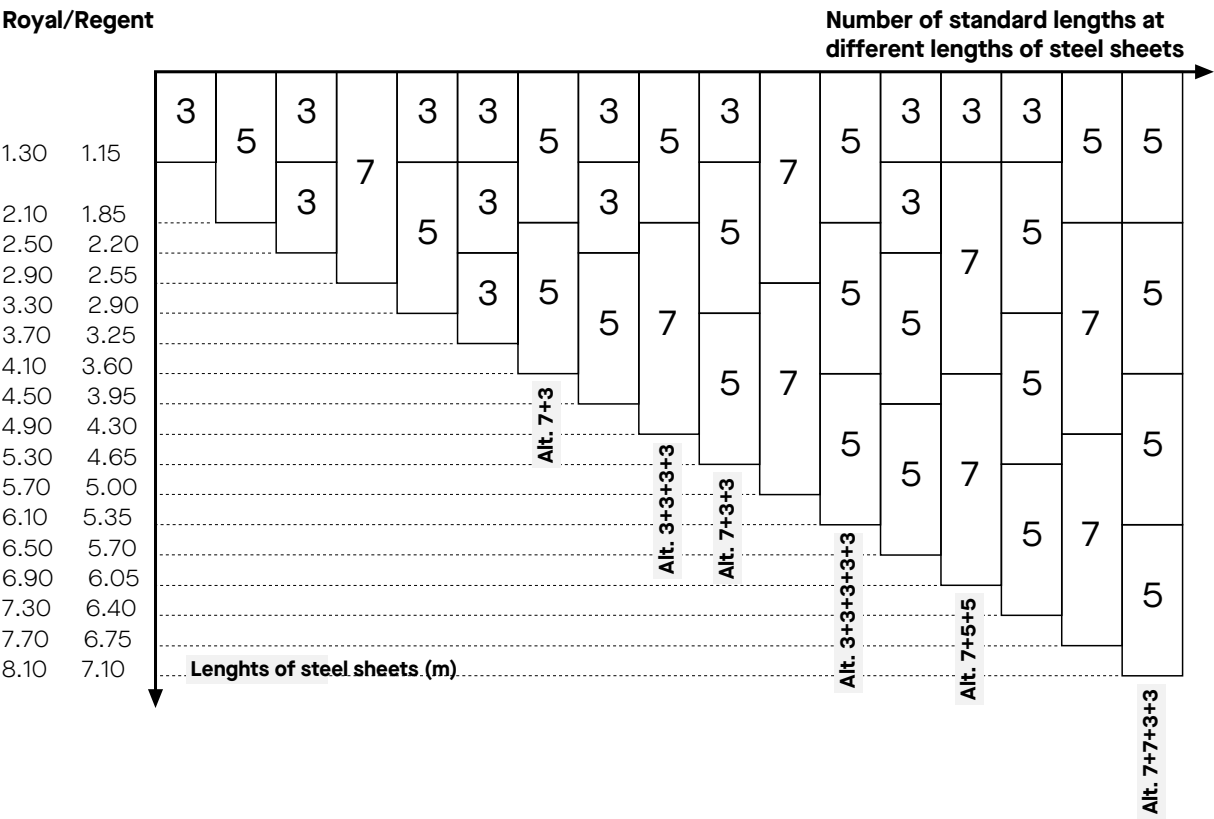
Prepare your roof purchase

Plannja’s long roof tiles are available in three standard module lengths of 3, 5 and 7 metres. You can calculate what you will need using the module table below.

MODULAR SCHEMATIC, ROOFING SHEETS

- 1) Measure the width of the roof from ridge to eaves. Find the value that most closely reflects the width of your roof in the left hand column of the module table. For example, if your roof is 5 metres wide and you are laying Plannja Royal, enter at the value 5.30.
- Then follow the line to the row concerned where you will see a proposal for how long the sheets should be. In this example we suggest 2 sheets with 5 modules and 1 sheet with 3 modules in each row. Cut away any excess on the top sheet.
- 2) The number of sheet rows is easily determined by basing calculations on each roofing sheet’s cover width.

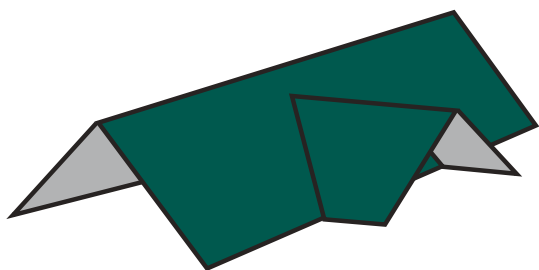
Royal/Regent



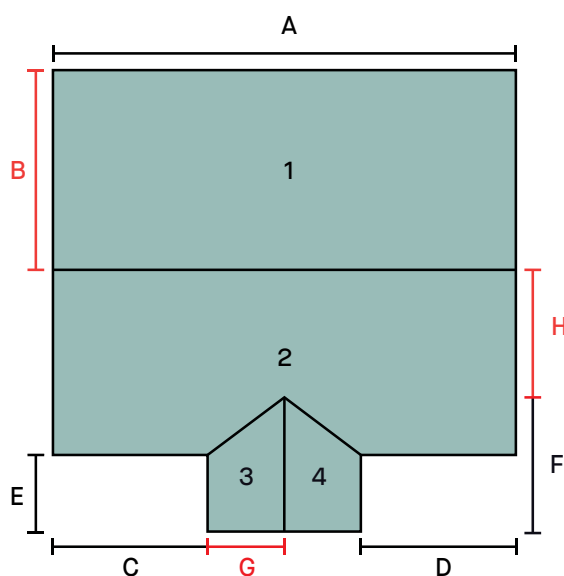
Calculate your roof

In order for the dealer to be able to give you a quote on the product package for your roof, a number of information and measurements are required. Prepare your visit to the dealer by measuring the roof. On plannja.com, under Download, there is a measurement template for roof calculation, a pdf that you can fill in digitally.

EXEMPEL PÅ TAKTYP MED MÅTT



Choose your roof type and fill in the measurements needed for your roof. **Red lines are roof pitch, falling measurements.** The letter designations on the roof drawing show which measurements you must fill in.



You can easily calculate your roof

As a house owner, you can directly receive a cost estimate for a complete roof package containing roof, rainwaters system and accessories. Before you start, you need to measure your roof and choose a roof type.

The roof types are general and represent the most common roofs on villas. If your own roof type is not among the preselections, you choose one that is similar.

You can also print and save the document, and take it to one of Plannja's dealers. Using the calculation number, they can give you a detailed quote that is adapted to your roof.

CALCULATE:



Measure the roof

Measure the length and breadth of each half of the roof. If the area is smaller than 75 m², use gutters with a width of 100 mm and downpipes with a diameter of 75 or 90 mm. If the area is 75–125 m², use gutters with a width of 125 mm and downpipes with a diameter of 90 mm.

For even larger areas, use gutters with a width of 150 mm and downpipes with a diameter of 100, 110 or 120 mm.

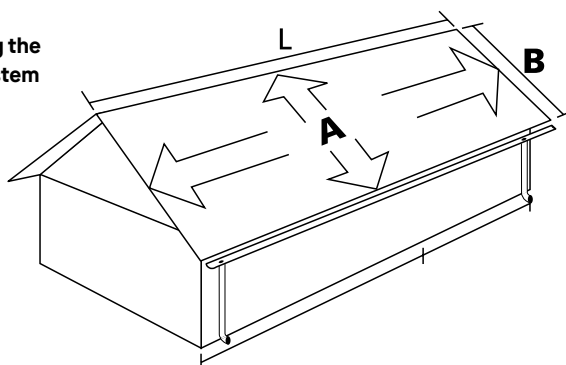
Dimensioning the rainwater system

Example

L = 18 m

W = 9 m

A = 162 m²



When it's time to begin, start by measuring up where the brackets must be attached, and then install the brackets, gutters and downpipes.

Gutters

Table					
Roof area in m ² max	≤ 75	≤ 125	≤ 200	≤ 275	
Select gutter	100	125	150	R 125	rectangular*

*Rectangular gutters are given a cross-sectional area at least equivalent to semi-circular gutters for the same roof area.

Downpipe

Table					
Roof area in m ²	≤ 80	≤ 125	≤ 180	≤ 230	≤ 300
Select downpipe	75	90	100	110	120

How to measure:

For distances up to 10 metres, one downpipe is enough. Distribute the brackets according to **outline drawing 1** and mark them 1, 2 and 3 and so forth. Install the first and last brackets 10 cm from the edge of the roof. For distances greater than 10 metres, 2 downpipes are required. Distribute the brackets according to **outline drawing 2** and mark them 1-1, 2-2 and so forth.

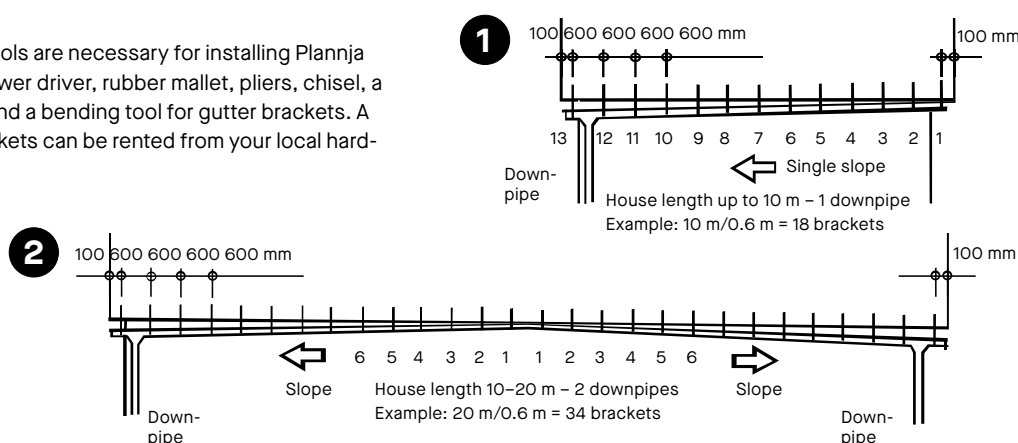
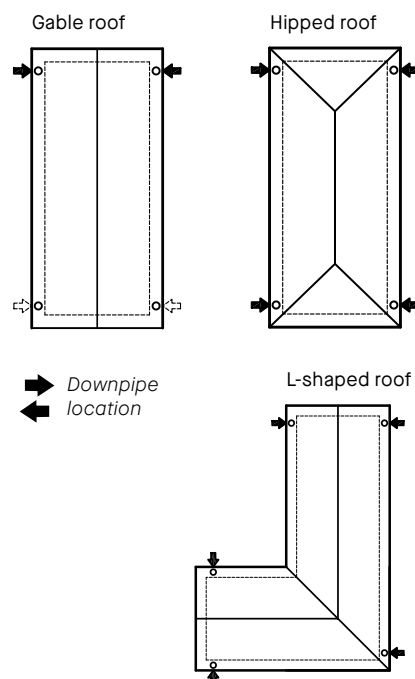
Install brackets 1-1 about 30 cm from the centre and the last brackets around 10 cm from the edge of the roof. Screw short brackets directly into the fascia board. If the fascia board is not installed plumb, the short bracket may be bent or a specially adapted short bracket for 27° pitches may be used.

Tools

In most cases, no special tools are necessary for installing Plannja Rainwater System, just a power driver, rubber mallet, pliers, chisel, a hacksaw, ruler, plumb line and a bending tool for gutter brackets. A bending tool for gutter brackets can be rented from your local hardware store.

Number of downpipes

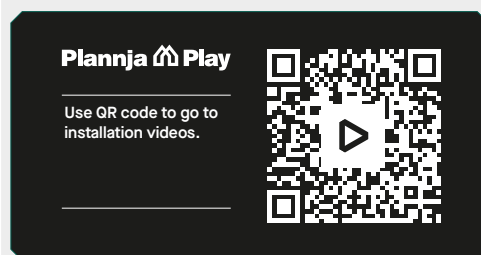
Count on each downpipe being able to handle a gutter length of 10 meters. Buildings with hipped roofs should always be fitted with two downpipes per long side and a gutter with a width of 125 mm. Locate the downpipes on L-shaped houses as illustrated. Use gutters that are appropriate for the roof surface area.



PlannjaPlay installation

We've brought together all of our installation videos in a single channel – PlannjaPlay. The videos provide a simple description of how to do things and what to bear in mind.

It's easy to hop backwards and forwards in the videos to take a closer look at specific details. There are also links to further information about the products. There are no adverts in PlannjaPlay, so you can concentrate on what's important without interruption.





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

www.plannja.com

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Plannja AB's management system is certified according to SS EN 9001 and 14001.

The information in this brochure was valid at the time of publication and is intended to provide a general guide to product application.

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