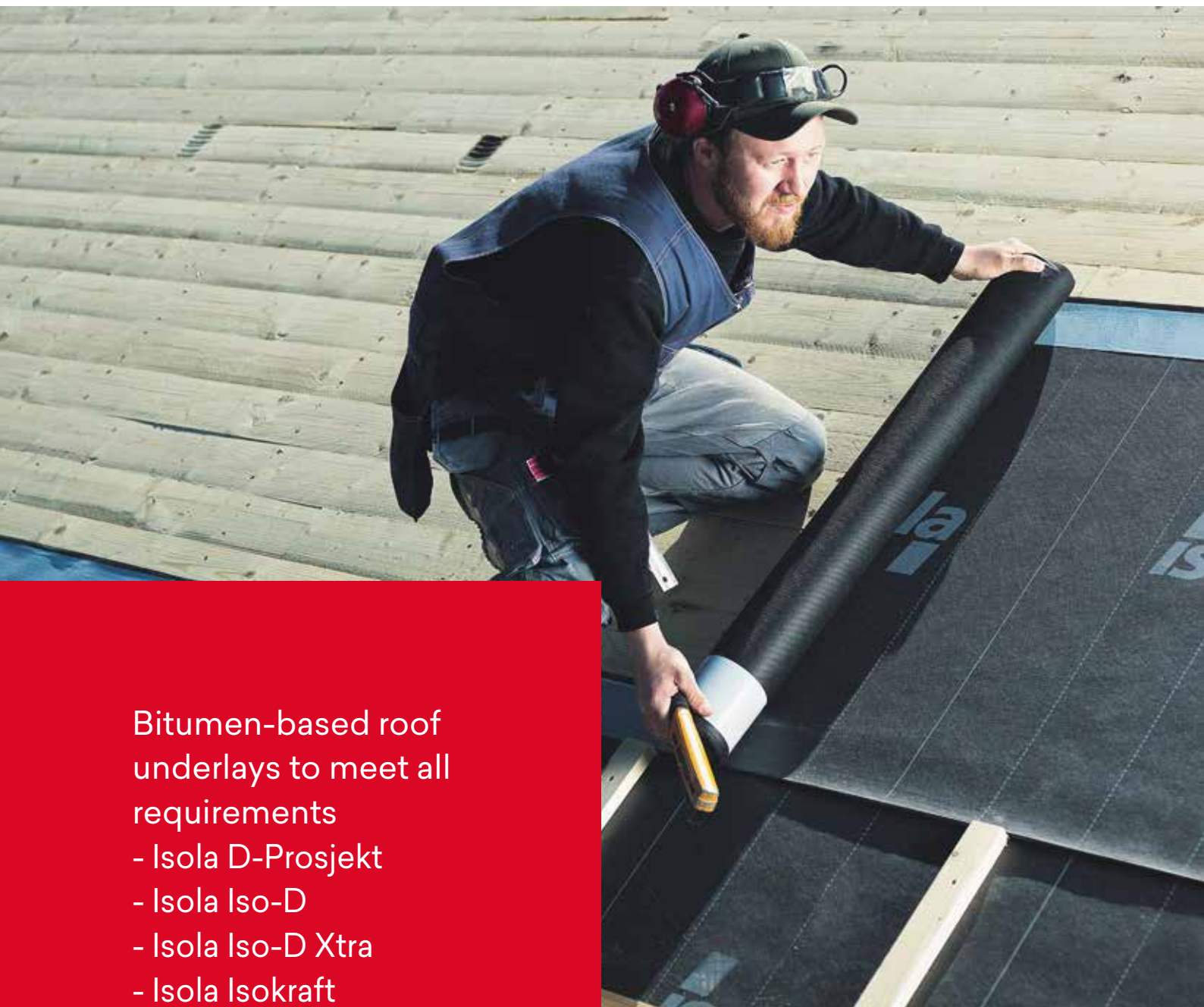


Isola roof underlays



Bitumen-based roof underlays to meet all requirements

- Isola D-Projekt
- Isola Iso-D
- Isola Iso-D Xtra
- Isola Isokraft

The same products; new packaging



Isola D-Projekt
Isola Light

Isola Iso-D
Isola Basic

Isola Iso-D Xtra
Isola Nordic

Isola Isokraft
Isola Xtreme

Quality from Norway

Four bitumen-based underlays for laying on timber framework

The four underlays from Isola have a number of common features, as well as various different quality features. All three are impermeable and must be installed on flexibly rigid, nailable substructures. The underlays each have different features to meet different needs in terms of minimum roof pitch and outdoor exposure.

Isola D-Prosjekt LIGHT

Multi-purpose underlay with loose overlap for roofs with a minimum pitch of 15°. The roof covering should be installed as quickly as possible.

Isola Iso-D BASIC

Lightweight and secure underlay with self-adhesive edge. Where the roof covering permits, it can be laid on roofs with a pitch of 6° or over and left exposed for up to 8 weeks.

Isola Iso D Xtra NORDIC

A highly durable underlay with a self-adhesive edge for roofs with a pitch of 6° or over. Can be left exposed for up to 16 weeks.

Isola Isokraft XTREME

Almost like an outer layer. Thanks to the structure of the underlay and the slate granules on the top of the underlay, it can be left exposed for up to 24 months.

Example roof construction with a bitumen shingle roofing:

Formwork, underlay, bitumen roof shingles/trusses



Basic information and possible applications

In order to guarantee long-term protection of the roof from the wind and weather, underlays are fitted below roof coverings as an additional measure. In the case of a closed roof formwork, these underlays are sometimes referred to as pre-roofing and sheathing membranes. Their primary function is to protect the formwork from precipitation prior to and during its covering.

Roof boarding

A closed roof formwork traditionally offers greater protection against wind suction or wind pressure, is very stable and can also withstand heavy snowfall. In addition, the roof boarding offers benefits to the entire roof area in terms of sound protection and the ability to walk on the roof during construction and renovation work. The roof boardings or formwork need to withstand heavy loads and high requirements during construction. As such, lightweight underlays are not recommended for laying on formwork.

Application and functionality

All Isola roof underlays are suitable for bitumen roof shingles, slated roofs, small and large metal sheet roofs, fibre-cement plates, concrete roofing tiles and clay tiles.

In the case of bitumen roof shingles, we recommend bitumen underlays, as, in addition to the primary temporary protection of the formwork, the following features are also vital during the construction phase:

- Material compatibility
- Form stability
- Levelling and separation layer
- Protection against secondary water (water penetration through the roof covering)

The material compatibility is guaranteed through the use of the same bitumen base material in

Isola bitumen roof shingles and Isola underlays. The strong non-woven backing prevents shrinkage and rippling when exposed to moisture and guarantees form stability.

Only bitumen-based underlays are able to offer additional impermeability at the nail shank during the later affixing of the roof shingles thanks to the bitumen compound.

As a levelling and separation layer, Isola underlays are able to even out irregularities in the substructure thanks to the thickness of the underlay itself. The non-woven polypropylene layer on the upper and lower sides of the underlay provides long-term separation from the substructure and roof covering, while also ensuring the smooth gliding of metal sheet coverings etc.

An additional rainproof measure

Our water-repellent underlays with their self-adhesive edges allow you to create a rainproof additional measure on closed underlayments. Iso-D can be exposed to the elements for up to 8 weeks, Iso-D Xtra for up to 16 weeks and Isokraft for as long as 2 years.

Durability

The high temperature resistance and the outstanding product characteristics of the Isola roof underlays guarantee lasting durability and functionality to correspond with the respective roof covering.

Isola D-Prosjekt LIGHT

- Multi-purpose
- Polymer bitumen
- Non-slip, non-woven polypropylene layer
- Loose overlap
- 30 m² per roll



Isola D-Prosjekt is a multi-purpose bituminous roof underlay suitable for almost all coverings on timber formwork, including bitumen shingles, tiles, slate and metal sheets. The underlay comprises a non-woven glass-fibre inlay, polymer bitumen and a non-woven polypropylene layer on the top and bottom. Isola D-Prosjekt complies with the ZVDH classification UDB-C and can be laid on roofs with a pitch of 15 degrees and over. The roof covering should be laid on the underlay promptly.

PRODUCT INFORMATION

Roll dimensions:	1 x 30 m
Roll weight:	25 kg
Article number:	525030

PRODUCT FEATURES

	UNIT	VALUE
Tensile strength lengthways/crossways	N/50 mm	400/250 ± 20%
Expansion lengthways/crossways	%	2.5 ± 0.5
Resistance to tearing, lengthways/crossways	N	100/90 ± 20%
Resistance to water penetration	W1	Impermeable
Fire rating		E
Max. temperature test	°C	100
Flexibility at low temperature	°C	÷ 20
ZVDH class	UDB	C

Isola Iso-D BASIC

- Low weight
- Non-slip, non-woven polypropylene layer
- Reinforced inlay combining polyester and non-woven glass layer
- Integrated, dual-sided self-adhesive edge
- Outdoor exposure up to 8 weeks



Isola Iso-D is a lightweight and secure bituminous roof underlay suitable for use on all timber formwork roofs. The underlay comprises a combination of reinforced polyester and glass non-woven inlay, polymer bitumen and a non-woven polypropylene layer on the top and bottom. Isola Iso-D meets the requirements of the ZVDH classification UDB-A and can be laid on roofs with a pitch of 6 degrees or more, assuming that the respective roof covering is permitted. The underlay can withstand outdoor exposure for up to 8 weeks and can be used as temporary roofing.

PRODUCT INFORMATION

Roll dimensions: 1 x 25 m
 Roll weight: 20 kg
 Article number: 525031

PRODUCT FEATURES

Tensile strength lengthways/crossways
 Expansion lengthways/crossways
 Resistance to tearing, lengthways/crossways
 Resistance to water penetration
 Fire rating
 Max. temperature test
 Flexibility at low temperature
 ZVDH class

UNIT	VALUE
N/50 mm	550/400 ± 20%
%	3 ± 1
N	170 ± 20%
W1	Impermeable
	F
°C	130
°C	÷ 20
UDB	A

Isola Iso-D Xtra **NORDIC**

- Extremely durable
- Extra strong non-woven PP layer on the top
- Reinforced inlay combining polyester and non-woven glass layer
- Integrated, dual-sided self-adhesive edge
- Outdoor exposure up to 16 weeks



Isola Iso-D Xtra is an extremely durable bituminous roof underlay suitable for use on all timber formwork roofs. The structure of this underlay makes it extremely tear-resistant and stable. Iso-D Xtra has an extra strong, non-woven polypropylene layer on the top and comprises a reinforced inlay combining polyester and a non-woven glass layer, polymer bitumen and a non-woven polypropylene layer on the bottom. Isola Iso-D Xtra meets the requirements of the ZVDH classification UDB-A and can be laid on roofs with a pitch of 6 degrees or more, assuming that the respective roof covering is permitted. The underlay can withstand outdoor exposure for up to 16 weeks and can be used as temporary roofing.

PRODUCT INFORMATION

Roll dimensions:	1 x 25 m
Roll weight:	22,5 kg
Article number:	525041

PRODUCT FEATURES

Tensile strength lengthways/crossways	N/50 mm
Expansion lengthways/crossways	%
Resistance to tearing, lengthways/crossways	N
Resistance to water penetration	W1
Fire rating	F
Max. temperature test	°C
Flexibility at low temperature	°C
ZVDH class	UDB

UNIT	VALUE
	600/420 ± 20%
	3,5 ± 1
	210/190 ± 20%
	Impermeable
	F
	130
	÷ 20
	A

Isola Isokraft XTREME

- Extremely durable, almost like an upper layer
- Slate granules on the top
- Effective sliding layer on the back
- SBS polymer bitumen
- Integrated, dual-sided self-adhesive edge
- Outdoor exposure up to 24 months



Isola Isokraft is an extremely durable, bituminous roof underlay, which can be left exposed to the elements for up to 2 years thanks to the slate granules on the top layer. The underlay consists of a reinforced inlay combining polyester and a non-woven glass layer, SBS polymer bitumen and a foil on the back to provide an effective sliding layer. This serves to prevent any movements in the substructure from affecting the roof covering. Isola Isokraft is suitable for use in areas with a lot of precipitation and can be left open to the elements for long periods. The underlay can be laid on roofs with a pitch of 6 degrees and over.

PRODUCT INFORMATION

Roll dimensions: 1 x 12 m
 Roll weight: 25 kg
 Article number: 525101

PRODUCT FEATURES

Tensile strength lengthways/crossways
 Expansion lengthways/crossways
 Resistance to tearing, lengthways/crossways
 Resistance to water penetration
 Fire rating
 Flexibility at low temperature

UNIT	VALUE
N/50 mm	580/480 ± 15 %
%	> 10
N	65/365 ± 15%
W1	Impermeable
°C	F
	÷ 20



Laying

Always adhere to the applicable specialist regulations and/or manufacturer's specifications for the roofing materials in question. When choosing a suitable product and the type of processing, the physical characteristics of the component need to be considered. A ventilated design is recommended, especially for steel roofs with diffusion-inhibiting or impermeable external layers. Isola roof underlays are affixed in a concealed manner in the length and width overlaps, or with staples (140/10) or clout nails (2.8 x 20 mm) underneath the battens.

The specifications of the German Confederation of Roofers (Zentralverband des Deutschen Dachdecker-Handwerks, ZVDH) should be adhered to when creating temporary roofing; the underlays' product data sheets must confirm that they fulfil the requirements for classes UDB-A or UDB-B.

Isola roof underlays can be laid in low temperatures without the risk of cracking. The self-adhesive strips on Iso-D and Iso-D Xtra are functional up to +5 °C. In the case of lower temperatures, we recommend laying out the rolls in a heated space prior to laying on the roof. The adhesive strips can also be activated with the help of heat guns.

Accessories

Isola nail sealing tape

• Roll: 5 cm x 15 m, 12 units/box
Double-sided butyl tape for sealing between the formwork and the counter batten



Isola underroof adhesive tape

• Roll: 7.5 cm x 25 m, 8 units/box
Single-side acrylic adhesive tape with non-woven PP for affixing overlaps



Isola slate glue

• Cartridge: 310 ml, 24 units/box
Bitumen compound for detail waterproofing



Laying roof underlays



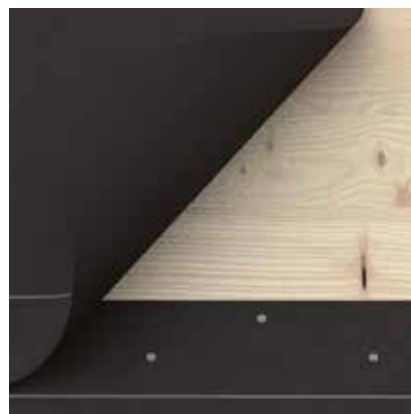
1. Laying surface

All underlays are lined up so they are parallel to the eaves. You can start at either the left or the right with the D-Projekt underlay. The Iso-D/ Iso-D Xtra must always be laid from right to left! In the case of heightened requirements or temporary roofing, nail sealing tape should be affixed below the counter battens.



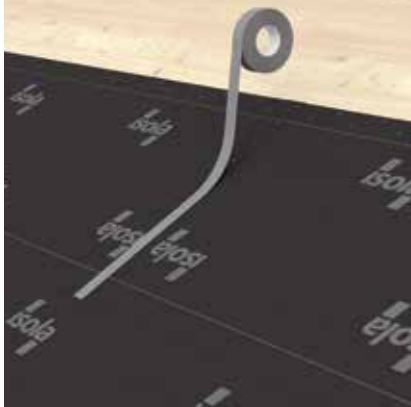
2. Eaves

All underlays are laid at a distance of approx. 3 cm from the lower edge of the eaves flashing. Two strips of Isola slate glue are used to affix the underlay to the eaves flashing. (Remove the protective foil first for Iso-D and Iso-D Xtra.)



3. Nailing

In the upper head area, the underlays are affixed with clout nails in a zig-zag distance of 10 cm. Additional sheets are laid with an overlap of approx. 10 cm. (In the case of Iso-D/Iso-D Xtra, the protection foil must then be removed and pressed down.)



4. Vertical overlap

The overlap is approx. 15 cm and is also fixed down. In the case of heightened requirements, this area is to be further sealed with the Isola underroof adhesive tape.



5. Gableboard

When using a gableboard sheet, the underlays come up to approx. 2.5 cm before the outer edge. The upper corner of the underlay is cut diagonally. The underlay is fixed to the sheet using two trails of adhesive.



6. Ridge

Roll a sheet over the ridge and arrange the sheet with a 10 cm overlap on one side. Cut and affix the sheet of underlay. In the case of heightened requirements, affix with adhesive (two trails of adhesive). (Remove the protective foil for Iso-D and Iso-D Xtra.)



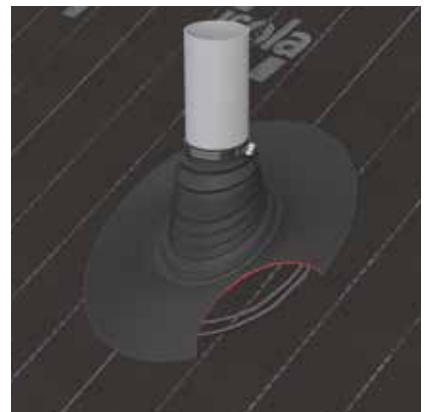
7. Chimney

In the case of lateral connections, the underlay is laid up to 2 cm from the chimney and affixed with two trails of adhesive. For heightened requirements or temporary roofing, sheeting should also be wrapped around the base of the chimney. This must continue as far as the next highest overlap.



8. Coving

Roll out a complete sheet of underlay along the coving and affix (10 cm zig-zag formation) along the edge. Lateral sheets of underlay cover the coving sheet by at least 20 cm. The lateral sheets are again fixed using two trails of adhesive.



9. Pipe penetrations

Use the Isola collar for the pipe penetration (vents etc.). Use two trails of adhesive to seal the outer area of the collar. Put the collar over the pipe and push the flange down onto the adhesive. Then affix the collar to the pipe using hose clips.

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better*

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