STEICO
engineered by nature

Handling instructions

STEICO sarking and sheathing boards

Installation and technical details

STEICO *universal*
Sarking and sheathing board

STEICO *universal dry*
Combined sheathing and render board

STEICO *special dry*
Combined sheathing and render board

STEICO *safe*
Sarking board with integrated laminated membrane

Content

General advice 3

Roof pitch 5

Installation 7

STEICO*safe* – sheathing board with laminated membrane ... 13

Technical details 16

Disclaimer: This document is an adaptation of the German processing instructions for international use. It has been prepared with the greatest possible care. However, STEICO cannot guarantee the completeness and applicability of the information in individual countries. National regulations and codes of practice have priority or must be observed in addition. The current edition applies. Errors excepted.

STEICO sarking and sheathing boards

Wood fibre insulation board with triple function: Thermal insulation, rain protection and wind sealing

STEICO offers a comprehensive range of water-repellent wood fibre insulation boards for use as interlocking sarking and sheathing boards.

The product STEICO*universal* is manufactured using the PureWood (wet) process, the products STEICO*universal dry* and STEICO*special dry* are manufactured using the LDF – Low Density Fibre (dry) process, as well as the base product for STEICO*safe*. For further information, please refer to the respective product data sheets.

Benefits

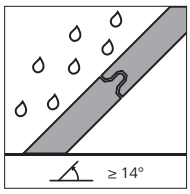
- Particularly robust and durable
- Reduces thermal bridging
- Board thicknesses of up to 200 mm are available, ideal for new build and renovation
- Rainproofing and vapour permeable to protect the construction from moisture damages
- Excellent summer heat protection
- Solutions for structural bracing, flat pitched roofs, etc.

Application / labelling

STEICO sheathing boards are marked with the CE symbol in accordance with EN 14964 standard.

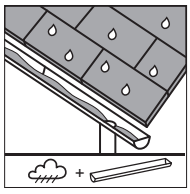
General advice

Safety in planning and processing



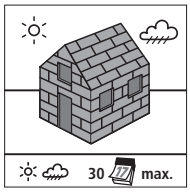
STEICO sheathing boards are equipped with an all-round windproof and water-draining profiling of the board edges. An additional sealing of the joints is not necessary in roof pitches of at least 14° as far as the slope does not drop more than 4° below the minimum required slope of the tiles.

STEICO*universal* / STEICO*universal dry* and STEICO*special dry* are hydrophobized throughout. Therefore, square edges of board cuts do not need to be retreated. **The functional suitability of the water drainage exists on the surface of both sides of the board.**



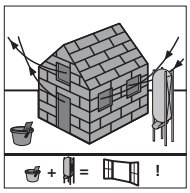
An unhindered moisture dissipation on the outer surface of the building must be ensured (rear ventilation level). The STEICO wood fibre insulation board must be protected from permanent moisture. Damp products must be dried before further construction work. Sufficient ventilation is required.

Due to the production process, the surface of all wood fibre insulation boards is covered by a fine layer of lignin (wood sugar) and fibre abrasion, which is absorbed by draining water and can lead to contamination of subsequent building components (windows, plaster, etc.). A controlled drainage of accumulating water must also be guaranteed during the construction phase.



The stamping on the boards indicates the direction of installation. The sanded side of the insulation boards always faces inwards. STEICO sheathing panels can be used as a temporary covering for roof pitches of ≥14 used as a temporary covering for up to 4 weeks. STEICO*safe* can be used for up to 8 weeks. The period of outdoor exposure can be extended up to 12 weeks, provided that the bottom surface of the sheathing board is visible and any moisture that may have ingressed can dry off unhindered. High loads e.g. from snow should be avoided.

When used as a temporary covering or on buildings with small roof overhangs then the solution with low-hanging gutters according to detail D1 (see page 17) is recommended.

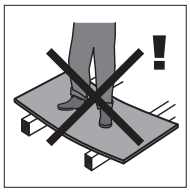


STEICO wood fibre sheathing boards are open to diffusion. Condensation on the interior facing side of the board during the construction phase hinders the diffusion flow.

Construction site moisture caused by e.g. fresh screed, plaster or paint must generally be dissipated by ventilation. Inside the building dry air must be provided during the construction phase. Additional measures by installing drying equipment are recommended. A coordinated construction sequence is to be observed.

Before starting work that may lead to increased building moisture, vapour barrier and airtightness levels must be closed. In the case of uninsulated attics, natural ventilation is recommended.

The vapour diffusion resistance of moisture-variable vapour control membranes is reduced at high humidity. This is especially important when the building humidity increases (interior plaster, wet screed) in winter construction sites.



STEICO sheathing boards are tread-resistant in the areas of support. In general wood fibre insulation boards must not be walked on. In order to ensure sufficient walkability on the roof, it is recommended that the counter battens are installed at the same time as the sheathing boards. Legally valid accident prevention regulations must be observed (fall protection!).

Before installing STEICO sheathing boards the timber cladding at the verges and eaves must be applied to the roof structure. If a square joint is chosen between the timber cladding and STEICO sheathing boards a watertight connection must be ensured between the sheathing board and the water conducting cover of the timber cladding. This connection is recommended to be made from products of the STEICO Sealing system.

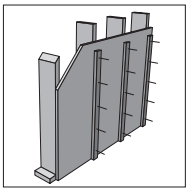
Centre spacing

Sarking boards for pitched roofs

Sheathing board	Thickness	Maximum centre spacing permitted	Recommended centre distance in combination with air-injected insulation (e.g. STEICO*zell*)
	[mm]	[mm]	[mm]
STEICO*universal*	22 a)	625 b)	-
STEICO*universal* / STEICO*universal dry*	35	1000	950
STEICO*universal dry*	40	1000	950
STEICO*universal*	60	1250	950
STEICO*universal dry* / STEICO*special dry*	60	1250	950
	80	1250	950
	100	1250	950
STEICO*special dry*	120	1250	950
	140	1250	950
	160	1250	950
	180	1250	950
	200	1250	950
STEICO*safe*	60	1100	850
	80	1100	850
	100	1100	850
	120	1100	850
	140	1100	950
	160	1100	950
	180	1100	950
	200	1100	950

Sheathing boards for wall constructions

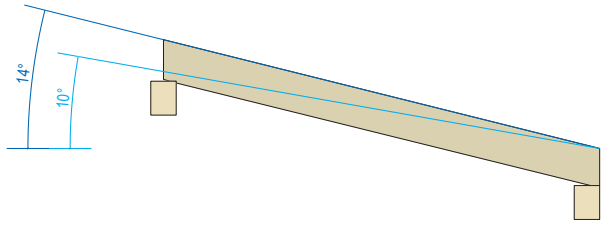
Sheathing board	Thickness	Maximum centre spacing permitted	Recommended centre distance in combination with air-injected insulation (e.g. STEICO*zell*)
	[mm]	[mm]	[mm]
STEICO*universal*	22 a)	625 b)	625 b)
STEICO*universal* / STEICO*universal dry*	35	1000	833
STEICO*universal dry*	40	1000	833
STEICO*universal*	60	1250	833
STEICO*universal dry* / STEICO*special dry*	60	1250	833
	80	1250	833
	100	1250	833
STEICO*special dry*	120	1250	833
STEICO*special dry*	140	1250	833
	160	1250	833
	180	1250	833
	200	1250	833



a) Please note that the installation of the counter-battening is carried out immediately after the installation of the sheathing boards.
b) Vertical joints must be offset by at least 600 mm; due to air pressure during installation, the use of an additional support battening in the centre of the compartment is recommended.

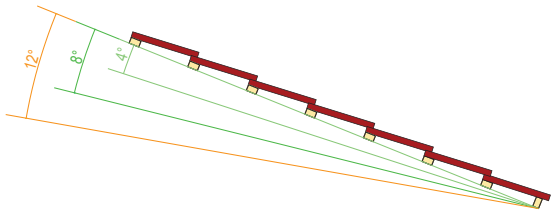
Roof pitch with roof tiles

Roof pitch



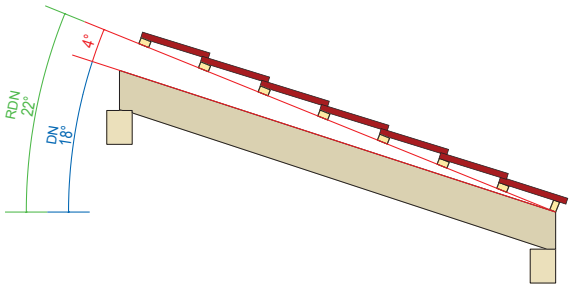
14°: minimum pitch of sheathing boards without additional measures
10°: minimum pitch of sheathing boards with additional measures
10°: minimum pitch of STEICO*safe*

Pitch of tiles



4°: maximum shortfall of the minimum pitch of tiles
8°: maximum shortfall of the minimum pitch of tiles with additional measures on the underlay
(STEICO*multi UDB* + STEICO*multi nail*)
12°: maximum shortfall of the minimum pitch of tiles with STEICO*safe* system

Example 1

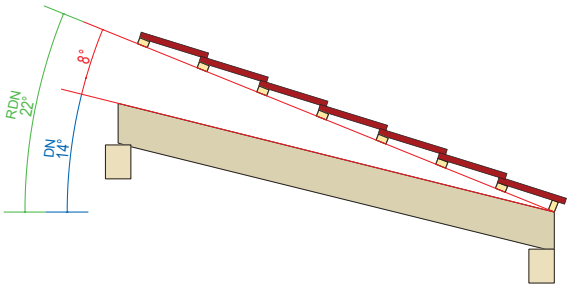


Minimum pitch of tiles – roof pitch =
shortfall under the minimum pitch of tiles

22° - 18° = 4°

Rigid underlay
STEICO*universal*, STEICO*universal dry*, STEICO*special dry*

Example 2

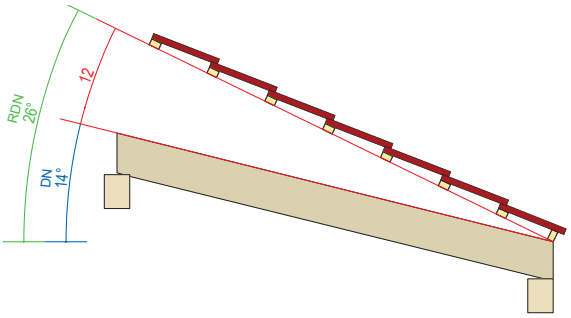


Minimum pitch of tiles – roof pitch =
shortfall under the minimum pitch of tiles

22° - 14° = 8°

Rigid underlay
STEICO*universal*, STEICO*universal dry*, STEICO*special dry*
+ STEICO*multi UDB with STEICOmulti nail*

Example 3

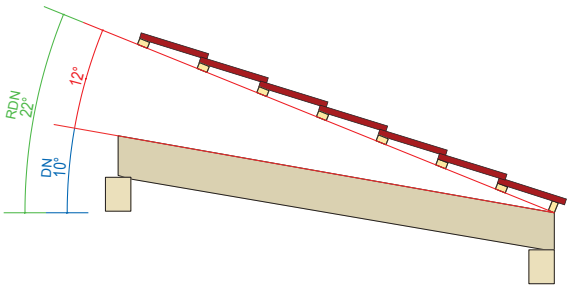


Minimum pitch of tiles – roof pitch =
shortfall under the minimum pitch of tiles

26° - 14° = 12°

Rigid underlay
STEICO*safe*

Example 4



Minimum pitch of tiles – roof pitch =
shortfall under the minimum pitch of tiles

22° - 10° = 12°

Rigid underlay
STEICO*safe with* STEICO*mutli nail*

Minimum roof slope

STEICO sheathing boards can be installed up to a minimum roof slope of 10° with the additional measure of sealing the joints.

Additional measures

For sealing the joints, the tongue and groove joint can be a sarking membrane e.g. STEICO*multi UDB* can be used.

Combination of STEICO sheathing boards with STEICO*multi UDB* sarking membrane

In the component connections (e.g. dormers, valleys, skylights) STEICO*multi UDB* must be bonded with STEICO*multi tape F*.

Suitable adhesive tapes (STEICO*multi tape F*) can be found at https://www.steico.com

STEICO sarking and sheathing systems

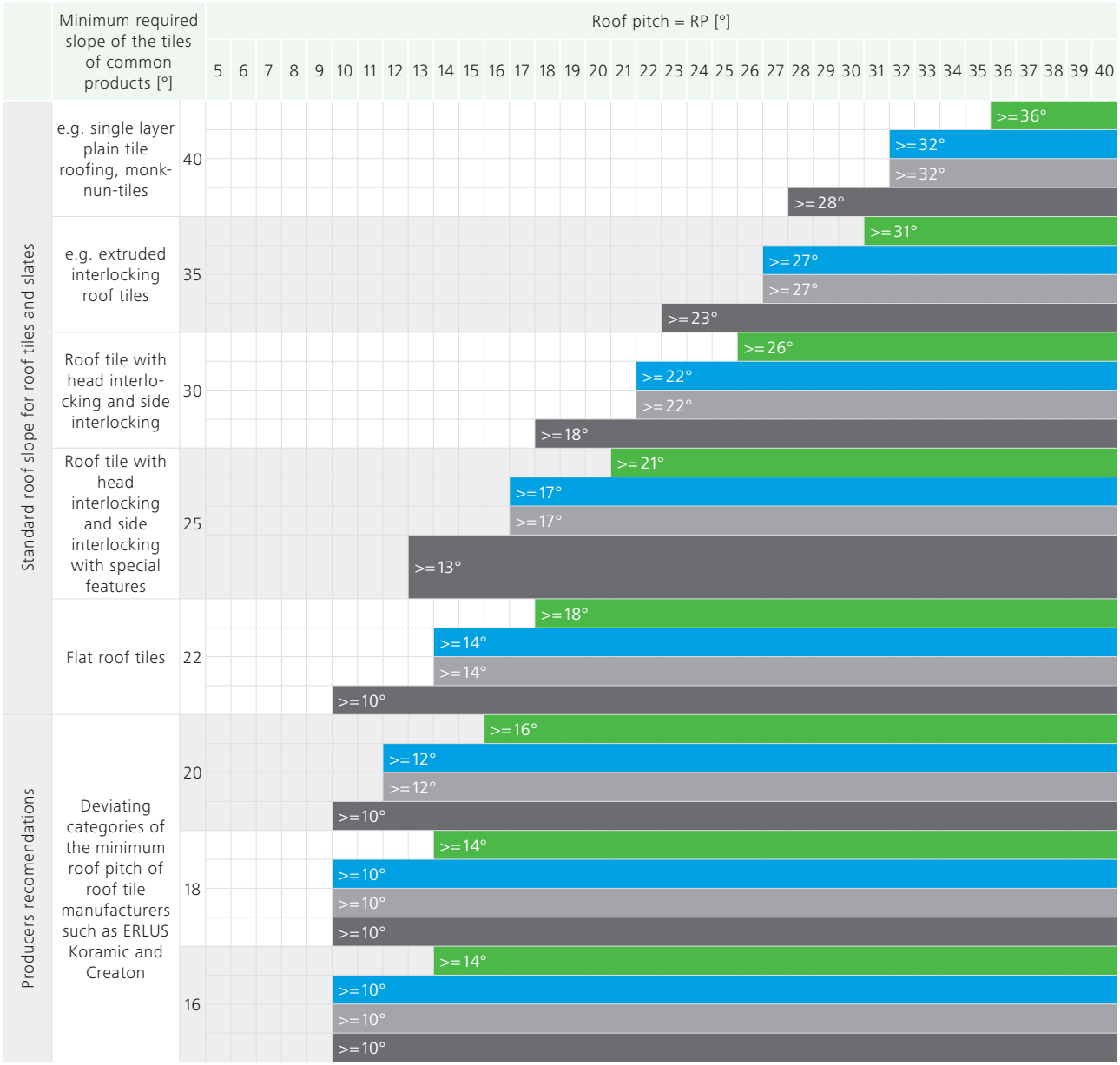
Recommandations of STEICO

Sheathing boards

Sheathing boards with membrane STEICO*multi UDB* with STEICO*multi nail* with **nail sealing tape**

STEICO*safe* without **nail sealing tape**

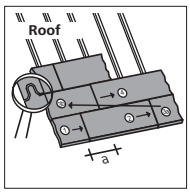
STEICO*safe* with STEICO*multi nail* **nail sealing tape**



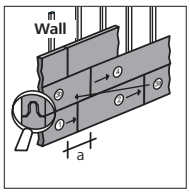
The table shows the application range of the various STEICO sheathing systems depending on the roof covering and its minimum required pitch (as of 07/2020). The table incudes values specified by the producers which also lead to safe roof constructions. If necessary, these must be contractually agreed.
Roof slopes > 40° are not listed here and can be implemented with all variants of STEICO sarking systems.

Installation

Placement

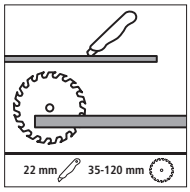


Installing in the first row starts from the bottom left. The tongue points upwards, the board imprint indicates which side must face inwards or outwards. The next row is started with the section of the last board in a row.



If there is a vertical joint between two boards in one compartment between the rafters or timber studs the joint in the next row has to be offset for one compartment, as shown in the illustration. For STEICO*universal* thikness = 22 mm an offset (a) of 600 mm is recommended, for all other thicknesses of at least 250 mm. The installation is fastened with nails or staples, and the permanent position is secured by fastening the counter-battening. Nail sealing tapes underneath the counter-battening are not required. For further information see fastening instructions page 10-13.

Cutting



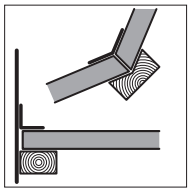
Depending on the thickness, the boards can be cut with a suitable knife or with a saw. For connections to other components, make sure that the cuts are at a small distance and parallel to the other component. For all rigid wood fibre insulation boards in larger thicknesses we recommend the electric saw Festool, Univers SSU 200 EB / IS 330 EB. Large insulation thicknesses of STEICO*universal dry*, STEICO*special dry* and STEICO*safe* can be optimally processed with the insulation wire saw Mafell DSS 300 cc.

Air-injected insulation

When using air-injected insulation, it may be necessary to increase the thickness of the boards or take constructive measures (insertion of a supporting battening) to avoid bulging.

In case the boards are used as a temporary covering damaged edges must be sealed or the board has to be replaced.

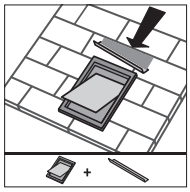
Connections



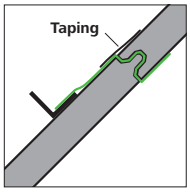
Square joints, connections to other components, penetrations, etc. must be supported and carefully sealed with suitable STEICO*multi* sealing products and, if necessary with battens. The adhesive surface on each side of the square joint must be approx. 50 mm.

Any adhesive surfaces must be thoroughly primed with STEICO*multi* Primer in advance. For connections to other materials, for round penetrations or bonding in the eaves and ridge area, the use of the STEICO*multi* sealing system is recommended.

Installation of skylights

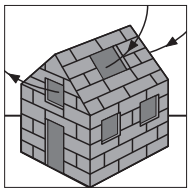


Openings (e.g. skylights) must be protected by suitable water drainage. Where sheathing boards are used as a temporary weather protection a controlled drainage of the accumulating water is necessary, even during construction.



If the position of the skylight is already known a piece of a vapour permeable rainproof membrane e.g. STEICO*multi UDB* can be fixed in the next joint above the future skylight. When installing skylights at a later date, a metal angle with a slope is attached above the skylight using suitable adhesive products from the STEICO*multi* sealing system.

Attic Floors



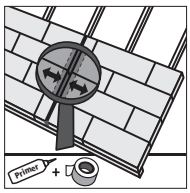
Cold attics, which occur when the attic gets insulated, are to be considered separately in terms of building physics. Often moisture penetrates through leaks in the airtightness of the attic floor or other access openings from the living space into the attic. This moisture can lead to mould growth on the supporting structure (rafters) as well as on the sub-roof.

This occurs more frequently on building sites in the winter months. As a preventive measure, the penetration of air into the attic must be prevented, and the attic must be ventilated with outside air. The ventilation of cold attics is considered to be made according to the genarally accepted engineering standards.

Minimum distances to exhaust systems and chimneys

The valid national standards for the minimum distances to exhaust systems and chimneys must be observed.

Expansion joints



Expansion joints are recommended for installation lengths of more than 20 m. If expansion joints are provided in the existing building structure they are to be continued at the level of STEICO sheathing boards.

For STEICO*universal* 22 mm, expansion joints are necessary for lengths of more than 15 m.

General advices on fixings

Roofs

Roof covering weight [kN/m²]	Roof covering
0,30 light	Metal roofing including Wooden boarding
0,55 medium	Concrete roof tiles, interlocking tiles
0,90 heavy	e.g. plain tiles, mortared monk-nun-tiles

Timber fixings ITW Befestigungssysteme GmbH

Fixings	Lenght [mm]	Width [mm]	Diameter [mm]
Groved nails (galvanized) 3,1*90	90	–	3,1
Groved nails (galvanized) 3,8*130	130	–	3,8
Groved nails (blank) 4,2*160	160	–	4,2
Screw nail (galvanized) 3,8*130	130	–	3,8
Screw nail (blank) 4,6*160	160	–	4,6
Staples SD 91090	90	11,78	2,0
Staples BS 29090	90	27	2,0
Staples SD 91100	100	11,78	2,0
Staples BS 29100	100	27	2,0
Staples SD 91120	120	11,78	2,0
Staples BS 29120	120	27	2,0

Fixings on roofs

The introduction of Eurocode 5 is taken into account in the following tables.

The following fixing tables are based on calculations carried out by ITW Befestigungssysteme GmbH. It shows the distance between fixings in the most unfavourable situation, taking into account the roof slope, snow load and dead loads of the roof covering as well as the thickness of the STEICO wood fibre insulation board. The wind suction load was taken into account with 1.1 kN/m².

In case of deviating requirements, a separate verification must be provided. Other fixings can be used as well with a separate verification.

The following tables show the fixings for 62.5 cm or 100 cm centre distance of the rafters. Please note the maximum centre distances for STEICO sheathing boards on page 4. The planner must carry out the calculation for all other constructions not dealt with here.

Fixing of STEICO sheathing boards with board thickness of 22 mm

Centre distance of rafters [mm] a)	Grooved nails Haubold 3,1 × 90 (galvanized)					Staples Haubold SD 91090 / BS 29090				
	Roof slope [°]									
625	Up to 35				35 - 55	Up to 35				35 - 55
Diameter of counter battens (width/heigth) [mm]	Snow load s_k [kN/m²]									
50 / 30	0,85	1,0	1,5	2,5	≤ 2,5	0,85	1,0	1,5	2,5	≤ 2,5
Roof covering weight [kN/m²]	Distance between fixings [cm]									
0,30 light	20	20	20	15	20	15	15	15	10	15
0,55 medium	20	20	15	10	20	15	15	15	10	15
0,90 heavy	15	15	15	10	10	15	15	10	10	10

Fixing STEICO sheathing boards with board thicknesses of 35 mm

Centre distance of rafters [mm] a)	Grooved nails Haubold 3,8 × 130 (galvanized)					Staples b) (Length 120 mm; Diameter of nail/wire 2,0 mm)				
	Roof slope [°]									
1.000	Bis 35				35 - 55	Bis 35				35 - 55
Diameter of counter battens (width/height) [mm]	Snow load s_k [kN/m²]									
60 / 40 c)	0,85	1,0	1,5	2,5	≤ 2,5	0,85	1,0	1,5	2,5	≤ 2,5
Roof covering weight [kN/m²]	Distance between fixings [cm]									
0,30 light	25	20	20	15	15	10	10	10	5	10
0,55 medium	25	20	15	10	15	10	10	5	5	10
0,90 heavy	15	15	15	10	10	5	5	5	5	5

Fixing STEICO sheathing boards with panel thicknesses of 60 mm

Centre distance of rafters [mm] a)	Grooved nails / screw nails Haubold 4,2 × 160 / 4,6 × 160 (blank)					Nails d) (6 × 180)				
	Roof slope [°]									
1.000	Bis 35				35 - 55	Bis 35				35 - 55
Diameter of counter battens (width/height) [mm]	Snow load s_k [kN/m²]									
60 / 40	0,85	1,0	1,5	2,5	≤ 2,5	0,85	1,0	1,5	2,5	≤ 2,5
Roof covering weight [kN/m²]	Distance between fixings [cm]									
0,30 light	20	20	20	15	20	12	12	12	10	6
0,55 medium	20	20	20	10	10	12	12	12	5	6
0,90 heavy	20	20	15	10	10	12	12	10	5	6

A distance of at least 120 mm must be maintained from the front end of the counter batten to the first nail, and at least 70 mm to the first staple.

a) Without air-injected insulation
b) Fixing with staples in combination with STEICO*joist* used as rafters
c) Counter battens with a cross-section of 50/30 mm can be used with staples of size 2.0 * 100
d) When using counter battens with a cross-section of 60 / 40 mm, these must be pre-drilled with 5.4 mm for nails 6.0 * 180

Sheathing boards from 60 mm: fixing with screws

The following table serves as a guide for calculatory approaches and does not replace a structural analysis of the fastening. The static proof of the fixing is to be provided by the planner. It shows the distance between fixings for a roof pitch of 30° according to snow load and dead load of the roof covering and the thickness of the STEICO*special dry* / STEICO*universal dry* / STEICO*safe*. Fixings for protection from wind suction must be calculated separately.

The selected fixings must be approved for the application case „fixing of a thermal insulation layer above the rafters“. The screw manufacturers carry out corresponding pre-dimensioning. The maximum centre distance of rafters for STEICO*special dry* / STEICO*universal dry* / STEICO*safe* can be found on page 4.

Fixing of STEICO sheathing boards STEICO*special dry* / STEICO*universal dry* / STEICO*safe* with panel thicknesses from 60 to 160 mm

Screw diameter [mm]	Minimum screw length [mm]	Thickness [mm]	Centre distance of rafters e [mm]	
8	180	60	≤1000 [a]	≤850
	200	80		
	220	100		
	240	120		
	260	140		
	280	160		

Diameter of counter batten (width/height) [b] [mm]	Snow load [kN/m²]			
80/40	0,75	1,0	0,75	1,0
Rood covering [kN/m²]	**Maximum distance between screws [cm]**			
0,60 medium	60	50	70	60

Screw diameter [mm]	Minimum screw length [mm]	Thickness [mm]	Centre distance of rafters e [mm]	
6 [c]	180	60	≤1000 [a]	≤850
	200	80		
	220	100		
	240	120		
	260	140		
	280	160		

Diameter of counter batten (width/height) [b] [mm]	Snow load [kN/m²]					
60/40	0,75	1,0	2,0	0,75	1,0	2,0
Rood covering [kN/m²]	**Maximum distance between screws [cm]**					
0,60 medium	55	50	40	70	65	55

A distance of at least 200 mm (25 * thickness) must be maintained from the front end of the counter batten to the first fixing. The effective screw spacing is determined by the length of the counter-batten. As a rule, the screws are to be screwed in at an angle of 67° to the rafter axis.
Exact specifications can be found in the approvals of the respective fixing manufacturers.

a) Except air-injected insulation
b) Depending on screw manufacturer
c) Washerhead screw

Wall fixings

Fixing tables

The requirements in the wall area with regard to shear forces and suction forces are lower than in the roof area.

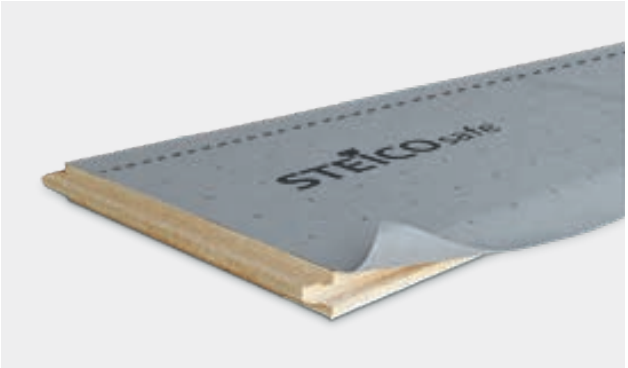
This means that the tables above can also be used as a guide for fixing in the facade area.

The fixings for buildings with high facade loads (dead load of the rear-ventilated facade as well as high suction loads) must be verified separately by the planner.

Various fixing manufacturers (screws) such as HECO, Fischer, Würth, Reisser, ABC, Eurotec, etc. offer solutions.

STEICO*safe* – sheathing board with laminated membrane

Thermal insulation and maximum weather protection for new construction and renovation



STEICO*safe* is a sheathing board with a full-surface laminated highly vapour-permeable membrane.

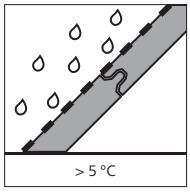
Furthermore, this panel is provided with a full perimeter T&G profile. This board is designed for low roof pitches and can be used in the case of rainproof requirements.

At roofs with slopes > 5° it can be used in combination with large-format roof coverings such as trapezoidal sheets, interlocking sheet metal or corrugated fibre cement sheets.

For small-format roof coverings (e.g. tile roofing) it is possible to fall below the minimum roof pitch of the tiles of up to 12°. The minimum roof slope of the tiles is specified by the manufacturer.

Even if the roof slope is above the minimum slope of the tiles the laminated membrane offers distinct advantages particularly with increasing severe rainfall events.

Installation instructions



The installation of STEICO*safe* with integrated self-adhesive strips must be installed at temperatures >5° Celsius. The adhesive bond must also be pressed on with a hard rubber roller under pressure

Cutting

The panels are cut to size with suitable woodworking cutting tools. For connections to other components make sure that the cuts are clean and parallel at a small distance.

To secure the overlapping ends of the sarking membrane it is recommended to tape them at the underside of the board during the cutting process. Cuts should always be started on the side of the secured overlap.

Installation

Adhesion

Make sure that the vertical joints are bonded first, followed by the horizontal joints. The horizontal bonding can be carried out over the full length of the roof.

In case of increased requirements for rain safety the nail sealing tape STEICO*multi nail* is to be used in the area of screws and nail punctures.

Furthermore, this type of bonding represents a makeshift covering for flat roof pitches. The construction is protected immediately.

Roof slope range	Possible range to fall below the minimum required pitch of the roof covering
>5°	<=8° and <=12°

If no nail sealing tape is used then the minimum roof slope is 10° under the condition that the roof slope does not fall more than 8° under the minimum slope specified by the producer of the tiles.

Roof slope range without nail sealing strips	Possible roof pitch below the minimum pitch of the tiles
≥10°	≤8°

Connections to other components

Formations of ridge and eaves, as well as the sealing of penetrations can be carried out using STEICO*multi UDB* and STEICO*multi tape F*.

Legal notice on the use of STEICO*safe*:

STEICO*safe* is a system-bound sheathing and sarking board designed for low roof slopes up to > 5° and a possible roof pitch below the minimum pitch of the tiles of 12°. The manufacturer-tested safety can only be guaranteed with the system-bound components.

In order to ensure a highly vapour permeable structure even in case of low roof pitches, this system does not follow the generally accepted engineering standards, depending on the pitch of the roof and the roof covering. In the case of these deviations, the work should be carried out according to these installation instructions for STEICO*safe*. If there is a deviation from the generally accepted engineering standards, this must be pointed out in the offer.

The suitability of further build ups and installations such as the roof cladding, solar panels and skylights is to be determined by the executing company.

Accessoires

STEICO*multi nail* - nail sealing tape

A nail sealing tape serves to secure the perforation of STEICO*safe* in case of low roof pitches. The adhesive side of the tape is applied to the membrane and thus provides the necessary safety, in the event of drifting snow or other types of water or moisture ingress.

STEICO*multi UDB* and STEICO*multi tape F*

The use of STEICO*multi UDB* and STEICO*multi tape F* may be necessary for the execution of detail connections and complex roof structures. Examples:

- Ridge connections
- Valleys and ridges
- Eaves and verges
- Skylights

Installation

Before installing STEICO*safe*, connections on the overhang, on the eaves and verge areas with STEICO*multi UDB* must be executed. In order to ensure a straight installation we recommend installing a bearing ledger in the eaves area with the height of the board thickness.

The installation is started at the bottom left of the eaves. The groove of the lowest row of the boards does not have to be removed if the air cavity is outside the thermal envelope (last insulation level of the outer wall). If this is not the case, the air cavity can be pre-stuffed with STEICO*flex* in advance. If the groove is cut away, this must be done without damaging the overlapping end of the laminated membrane.

The integrated self-adhesive strip of the overlaping end of the laminated membrane is fixed onto the timber and onto the membrane of the overhang area.

Important advice

If the board is temporarily fixed during construction work, the fixings should be placed in the area of the nail sealing tape.

The overhanging edges of the membrane of the following boards are unfolded and the boards are positioned. The sticking is only to be carried out once a further row of boards has been installed. This prevents the sticky strip from soiling.

The vertical joint must be glued before the horizontal joint. The bonding surfaces must be firmly pressed on with a hard rubber roller.

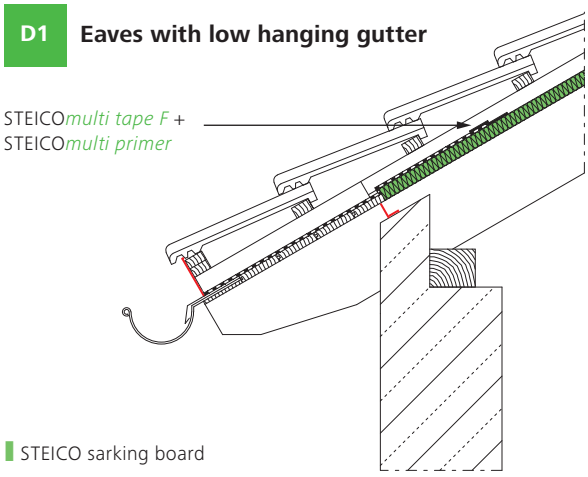
The following rows of boards are installed and glued in the same way. After installing the whole surface, the necessary detail connections are made.

In case of increased rain proof requirements, the nail sealing tape STEICO*multi nail* is applied directly onto the board. Thus the penetrations of the fixings are additionally secured. The printed crosses provide orientation when positioning the nail sealing tape and counter battens.

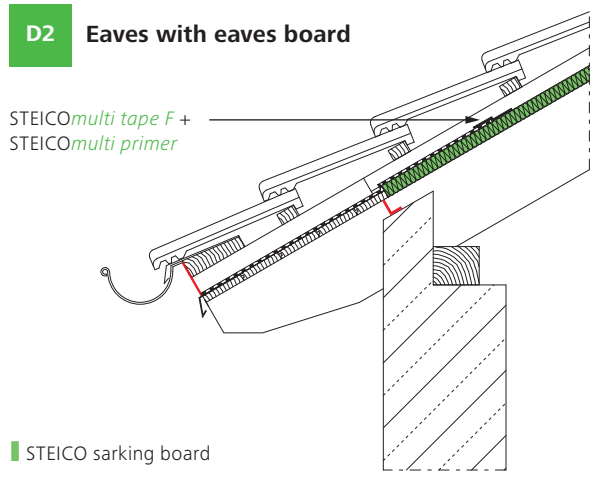
The counter battens are then mounted using screws or nails.

Technical details

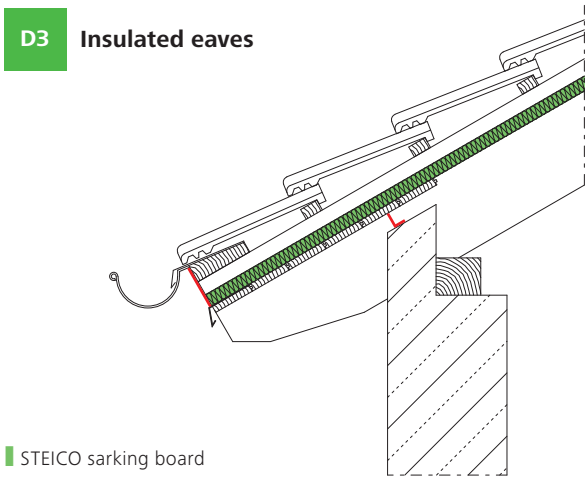
D1 Eaves with low hanging gutter



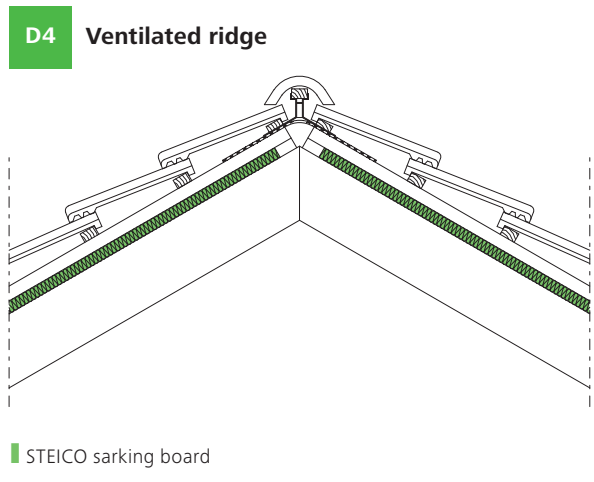
D2 Eaves with eaves board



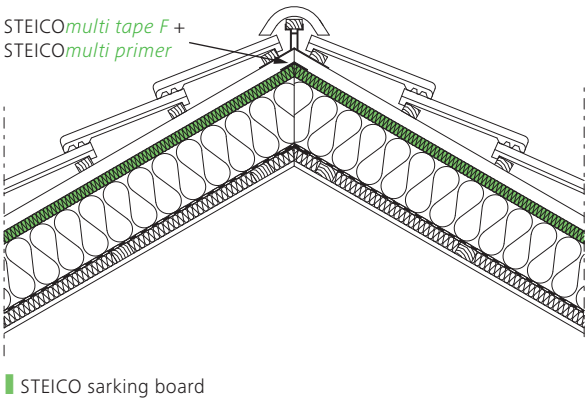
D3 Insulated eaves



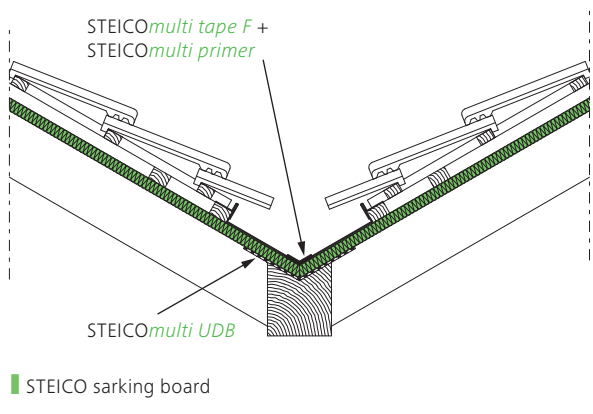
D4 Ventilated ridge



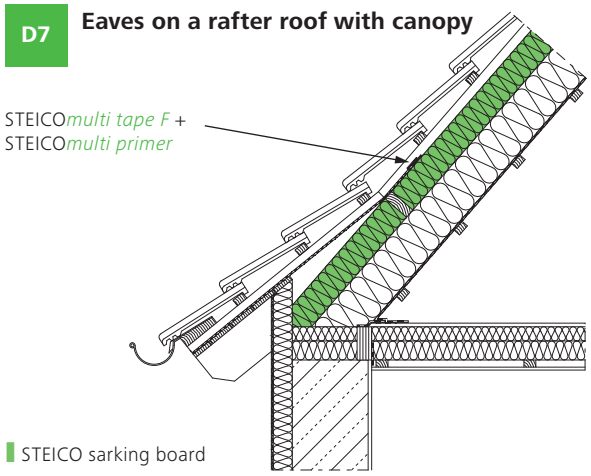
D5 Ridge with full insulation between rafters



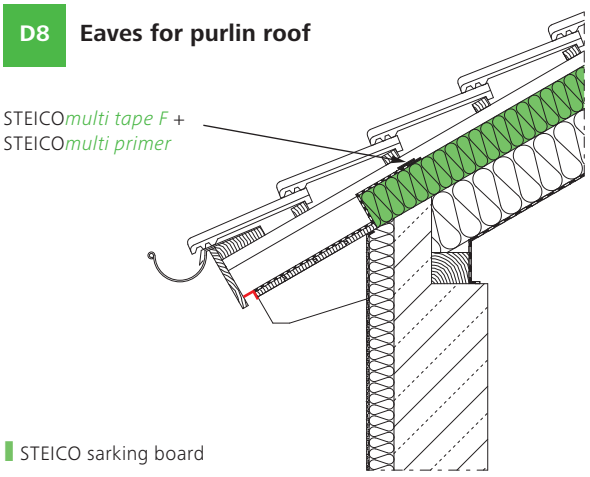
D6 Valley



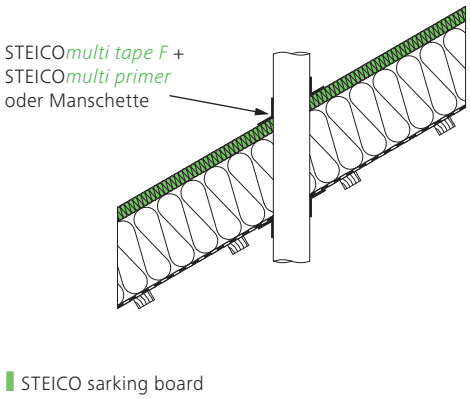
D7 Eaves on a rafter roof with canopy



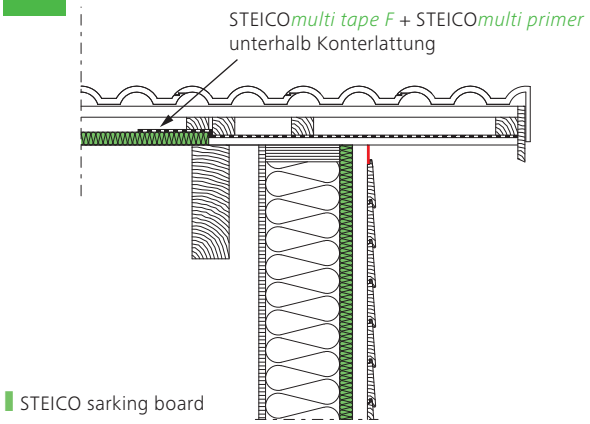
D8 Eaves for purlin roof



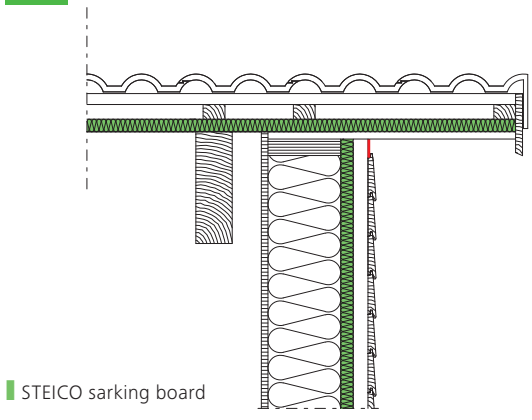
D9 Penetration



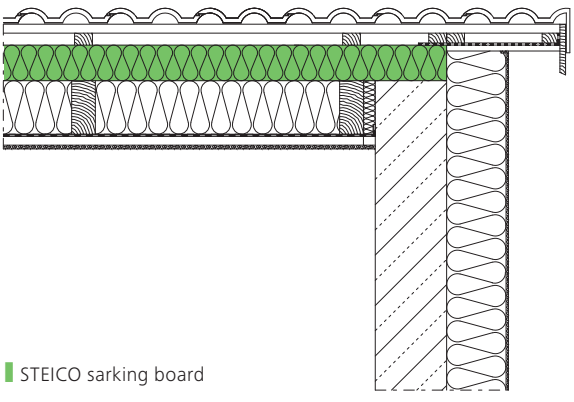
D10 Verge



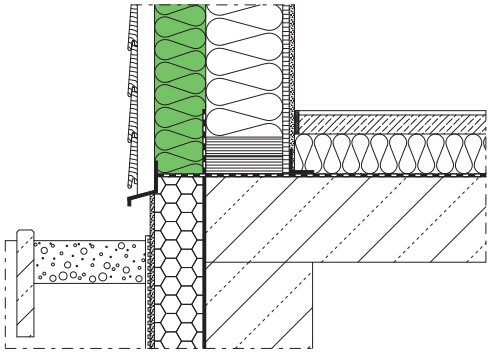
D11 Insulated verge



D12 Insulated verge

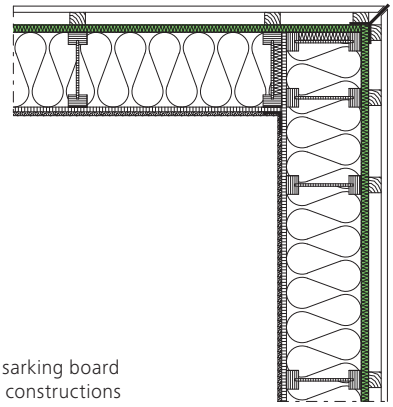


W1 Base area



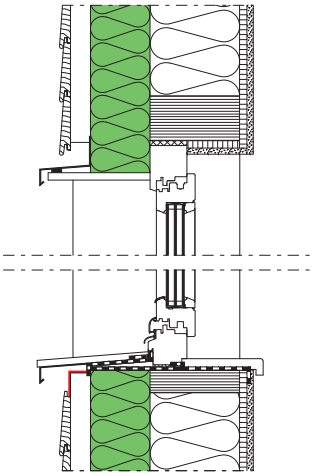
STEICO sarking board for wall constructions

W2 Corner of exterior wall built with STEICO*joist*



STEICO sarking board for wall constructions

W3 Window cross-section



STEICO sarking board for wall constructions

Notes

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STEICO
SOCIETAS EUROPAEA

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Date: 2025-06-03

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