STEICO special dry

Sarking boards

Environmentally friendly insulation system made from natural wood fibres

High thicknesses ideal for renovation projects

Sheathing board in dry process with board thickness up to 180 mm

- Low thermal conductivity, excellent cold protection
- High ‘Summer Heat’ protection
- Reduces thermal bridging
- Water vapour open for healthy constructions
- 3 fold functionality; insulation, wind tightness and weatherproofing
- Sustainable and recyclable like natural wood

Areas of application

Insulating weatherboarding for roof pitches over ≥ 16°

Suitable for both sheathing and roofing applications.

tested and recommended IBR Institut für Bauökologie Horstmann

FSC www.fsc.org FSC® C126760 The mark of responsible forestry

To achieve sufficient insulation levels, STEICO*flex 036* is fitted between the rafters with STEICO*special dry* laid over them. STEICO*multi UDB* membrane should be installed over the rafters to achieve an air tight structure.

STEICO*special dry*

Roof renovation from the outside

As much as 25 % of all household heat losses occur through the roof. In dwellings where an attic roof has been converted to a habitable space, it is not always possible to insulate the roof from the inside in order to meet new energy efficiency regulations.

Example of roof renovation

Often rafters are not deep enough in their own right to accept the desired depth of insulation.

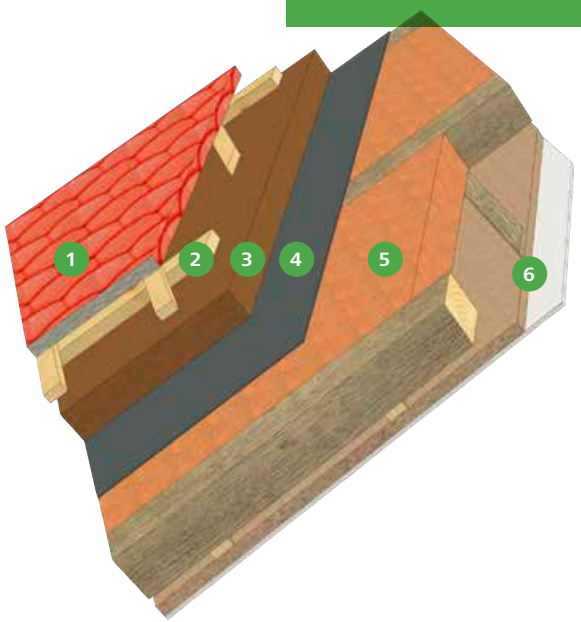
STEICO*special dry* has been designed to be laid on top of the rafters, offering the desired insulation values with the least disruption to the inside.

The boards are rigid, stable and most of all good insulators.

Example of renovation

1 Roof tiles or similar
2 Tile battens and counter battens
3 STEICO*special dry* fitted directly onto the rafters
4 STEICO*multi UDB* membrane
5 Insulation between rafters eg STEICO*flex 036* or STEICO*zell*
6 Internal Finishes eg plasterboard

Old roof – insulated efficiently



Immediate weather protection

When tackling roof renovations with traditional materials, it is usually necessary to offer immediate temporary protection in order to preserve the rooms below from the elements. STEICO*special dry* with its Tongue & Grooved profile can offer immediate wind and rain protection for roofs of pitches over 16° without additional materials, (this can be achieved for roofs with shallower pitches with some additional measures). STEICO*special dry* gives immediate protection against the elements, with up to 4 weeks protection on renovation projects and exposure of up to 12 weeks on new build projects permissible.

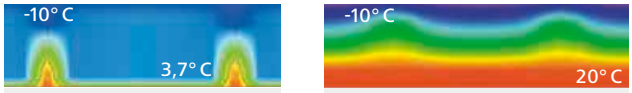
Safe designs

When using a suitable internal finish, it is possible that the requirement for a vapour barrier to be fitted tight on the room side can be negated. This process can be tricky in practice and easily avoided by installing STEICO*multi UDB*. This multi functional layer can be easily laid over the rafters and under the STEICO*special dry* board, offering a simple yet effective solution.

Using STEICO*special dry* in combination with either STEICO*flex 036* or STEICO*zell*, super performance roof solutions can be achieved, offering great insulation in the winter and protection against overheating during the summer months..

STEICO insulation – the pay off

A non insulated roof in an old building is not only a 'cash guzzler', but also results in cold internal surfaces. This in turn can lead to an uncomfortable air movement in the room. A roof with 140 mm of STEICO*flex 036* and 60 mm STEICO*special dry* will have up to 90 % less energy demand when compared to that of a non insulated roof. A warm ceiling also give a feel good factor.



Non Insulated Roof | STEICO insulated Roof

Thermal imaging through a cross section of a roof shows the heat loss through the non insulated roof and the pleasant warm room under a Steico insulated roof.

Advantages at a glance

Very good thermal conductivity

The improved thermal conductivity of STEICO*special dry* allows for a reduced roof thickness whilst maintaining good summer heat protection. By utilising STEICO*special dry* over the rafters, cold thermal bridging is effectively minimised.

Effective weather control profile

The unique Tongue & Grooved profile of STEICO*special dry* has been developed for ease of installation and lasting weather security.

Easily installed, lightweight insulation boards

With a density of circa 140 kg/m³, STEICO*special dry* boards are lightweight and easy to use a 120 mm thick boards only weighs less than 17 kg/m² so can easily be installed by one person. This means that even large roof areas can be quickly, easily and most importantly, economically renovated.

Packaging STEICO*special dry*

Size [mm]	Cover. dim [mm]	Edge profile	Thickness [mm]	Pieces / palett	m² / palett	Pallet / cover. [m²]	Weight [kg/m²]	Pallet weight [kg]
Handy formats, e.g. for construction site assembly								
2,230 * 600 a)	2,205 * 575	T&G	60	36	48.2	45.6	8.40	approx. 430
2,230 * 600 a)	2,205 * 575	T&G	80	28	37.5	35.5	11.20	approx. 445
2,230 * 600 a)	2,205 * 575	T&G	100	22	29.4	27.9	14.00	approx. 440
1,880 * 600 b)	1,855 * 575	T&G	120	18	20.3	19.2	16.80	approx. 360
1,880 * 600 b)	1,855 * 575	T&G	140	16	18.0	17.1	19.60	approx. 370
1,880 * 600 b)	1,855 * 575	T&G	160	14	15.8	14.9	22.40	approx. 370
1,880 * 600 b)	1,855 * 575	T&G	180	12	13.5	12.8	25.20	approx. 360

Characteristic values STEICO*special dry*

Produced and supervised in accordance with	EN 13171 and EN 14964
Board Designation	WF – EN 13171 – T5 – DS(70/-)2 – CS(10\Y) 100 – TR10 – WS1,0 – MU3
	EN-14964-IL
Edge Profile	Tongue & Grooved
Fire classification according to EN 13501-1	E
Thermal Conductivity λ_D [W/(m*K)]	0,040
Declared Thermal Resistance R_D [(m²*K)/W]	1,5(60) / 2(80) / 2,5(100) / 3(120) / 3,5(140) / 4(160) / 4,5(180)
Density [kg/m³]	approx. 140
Water vapour resistance diffusion factor μ	3
s_d value [m]	0,18(60) / 0,24(80) / 0,30(100) / 0,36(120) / 0,42(140) / 0,48(160) / 0,54(180)
Specific Heat Capacity c [J/(kg*K)]	2.100
Compressive strength at 10 % compression σ_{10} [N/mm²]	0,1
Compressive strength [kPa]	≥ 100
Tensile strength perpendicular to the board [kPa]	≥ 10
Length related flow resistance ⊥ [(kPa*s)/m²]	≥ 100
Raw material	wood fibre, polyurethane resin,paraffin wax
Waste Code (EAK)	030105 / 170201, disposal like timber and timber products

Notes: Store laid flat in dry conditions; protect against edge damage; keep wrapped until ready to use; Maximum stack height of 3 pallets

Planning and installation documents are available at www.steico.com.

a) Size of pallet: approx. 2.25 * 1.20 * 1.22 m; 24 pallets/truck
b) Size of pallet: approx. 1.89 * 1.22 * 1.22 m; 28 pallets/truck

Quality Management ISO 9001:2015

Environmental Management ISO 14001:2015

Your STEICO Partner

www.steico.com

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