

Environmentally-friendly insulation system made from natural wood fibres



NEW!
light and stable

STEICO multi UDB
 DE: atmungsichere Luftdichtungsbahn, id ≤ 0,04 m / GB: diffusion permeable
 airtight membrane, id ≤ 0,04 m / FR: Membrane pare-vent hautement
 perméable à la vapeur, id ≤ 0,04 m / PL: Folia dyfuzyjnie otwarta,
 id ≤ 0,04 m / IT: Telo ariovento traspirante, id ≤ 0,04 m / NL: dampopen
 luchtdichtingsfolie, id ≤ 0,04 m / CZ: difúzně otevřená protivětrná fólie,
 id ≤ 0,04 m
 CE EN 12667-1



RECOMMENDED APPLICATIONS

Insulating weatherboarding made from natural wood fibres.

Suitable for both sheathing and roofing applications.

Ideal for renovation and new build projects.



- Applied over the rafters or studs to improve insulation values
- 3 fold functionality; insulation, wind tightness & weatherproofing
- High 'Summer Heat' protection
- Good sound insulating properties
- Can be laid directly onto the rafters without additional support
- Both easy to handle and work with
- Water vapour open for healthy constructions
- Exposure to the elements for up to 12 weeks on new build projects and 4 weeks for renovation projects for roof pitches over 16°
- High insulation values, improving energy efficiencies
- Reduces thermal bridging

For further information visit our website www.steico.co.uk



STEICOflex laid between the rafters

STEICOspecialdry Renovation board

STEICOmultip UDB air tight membrane

INSULATING SYSTEMS

To achieve sufficient insulation levels, Steicoflex is fitted between the rafters, with STEICOspecialdry laid over them. STEICOmultip UDB membrane should be installed over the rafters to achieve an air tight structure.

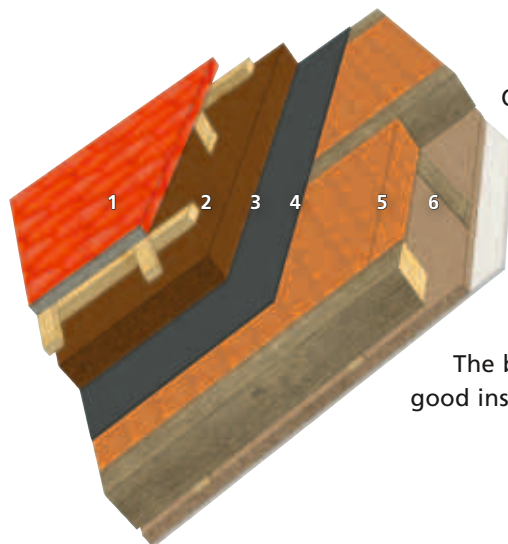
Old roofs insulated *efficiently*

STEICOspecialdry is the new generation of insulation materials for external roof renovations.

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 renovation

- 1 Roof tiles or similar
- 2 Tile battens and counter battens
- 3 STEICOspecialdry fitted directly onto the rafters
- 4 STEICOmultip UDB Membrane
- 5 Insulation between rafters eg STEICOflex or STEICOzell
- 6 Internal Finishes eg Plasterboard



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

STEICOspecialdry 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.

| IMMEDIATE PROTECTION FROM THE WEATHER



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. STEICOspecialdry 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). STEICOspecialdry 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.

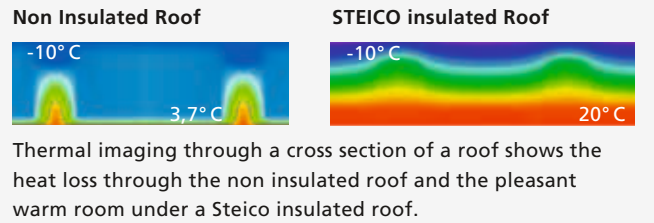
| SAFE DESIGNS

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 STEICOmulti 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 STEICOspecialdry in combination with either STEICOflex or STEICOzell, 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 140mm of STEICOflex and 60mm STEICOspecialdry 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.

| ADVANTAGES AT A GLANCE

- 1
+

0.041 W/(m*k): Very good thermal conductivity

The improved thermal conductivity of STEICOspecialdry allows for a reduced roof thickness whilst maintaining good summer heat protection.

By utilising STEICOspecialdry over the rafters, cold thermal bridging is effectively minimised.
- 2
+

Effective weather control profile

The unique tongue & grooved profile of STEICOspecialdry has been developed for ease of installation and lasting weather security.

The profile is compatible to that of STEICOspecial produced on the wet process line and thus can be mixed and matched if necessary.
- 3
+

Easily installed, lightweight insulation boards

With a density of circa 140 kg/m³, STEICOspecialdry boards are lightweight and easy to use.

A 60 mm board only weighs 9.1kg, so can be installed by one person. This means that even large roof areas can be quickly, easily and most importantly, economically renovated.

Thicknesses up to 300 mm on request

DELIVERY FORMS OF STEICOspecialdry

Thickness [mm]	Size [mm]	Cover. dim. [mm]	Weight [kg / m ²]	Pieces / Palett	m ² / Palett	Coverage / Pal. [m ²]	Weight. / Pal.
60	1.880 * 600	1.855 * 575	8,40	36	40,6	38,4	ca. 360
80	1.880 * 600	1.855 * 575	11,20	28	31,6	29,9	ca. 370
100	1.880 * 600	1.855 * 575	14,00	22	24,8	23,5	ca. 360
120	1.880 * 600	1.855 * 575	16,80	18	20,3	19,2	ca. 360
140	1.880 * 600	1.855 * 575	19,60	16	18,0	17,1	ca. 370
160	1.880 * 600	1.855 * 575	22,40	14	15,8	14,9	ca. 370
180	1.880 * 600	1.855 * 575	25,20	12	13,5	12,8	ca. 360
200	1.880 * 600	1.855 * 575	28,00	12	13,5	12,8	ca. 390

HANDLING

Wood fibre insulation produced in accordance with EN 13171, with quality assurance monitoring.

Store laid flat in dry conditions
Protect against edge damage

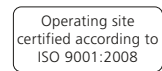
Keep wrapped until ready to use
Maximum stack height of 2 pallets.

STEICO uses wood from sustainably managed forests, certified according to the strict guidelines of the FSC® (Forest Stewardship Council).

STEICOspecialdry is particularly user friendly and will not knowingly cause skin irritation. It can be worked with traditional woodworking tools, such as hand or electric saws. When cutting and handling STEICO products please ensure the correct personal protection equipment is used.

TECHNICAL DATA STEICOspecialdry

Produced and supervised in accordance with	EN 13171
Board Designation	WF – EN 13171 – T3 – CS(10V)70 – TR10 – WS1,0 – AF100
Edge Profile	Special 'Tongue & Grooved' profile (compatible with STEICOspecial – 'wet' process boards)
Fire classification according to EN 13501-1	E
Thermal Conductivity λ_D [W/(m*K)]	0.041
Declared Thermal Resistance R_D [(m ² *K)/W]	1.45(60) / 1.95 (80) / 2.40 (100) / 2.90 (120) / 3.40 (140) / 3.90 (160) / 4.35 (180) / 4,85(200)
Density [kg/m ³]	ca. 140
Water vapour resistance diffusion factor μ	3
sd value [m]	0,18 (60) / 0,24(80) / 0,3 (100) / 0,35 (120) / 0,40(140) / 0,50(160) / 0,55(180) / 0,60(200)
Specific Heat Capacity c [J/(kg*K)]	2100
Compressive strength at 10% compression σ_{10} [N/mm ²]	0.10
Compressive strength [kPa]	100
Tensile strength perpendicular to the board [kPa]	≥ 10
Length related flow resistance [(kPa*s)/m ²]	≥ 100
Ingredients	wood fibre, polyurethane resin, paraffin wax



Subject to technical changes. Date 12/2012. Valid subject to subsequent revisions.

STEICO
natural building products

Your STEICO Agent

www.steico.co.uk