



Render carrying wood fibre insulation board for ETICS on flat wood and mineral substrates

- Handy formats with a square edge - ideal for masonry and solid wood walls
- Can be combined with STEICO*secure* and many other render systems
- Diffusion-open to protect the construction - excellent building physics supplement for masonry and wooden substrates
- Naturally reduces the formation of algae and moss on the façade
- Robust and durable
- Wood from responsible forestry - PEFC certified

Application area



- (STEICO*Protect L dry* / 037) External insulation for full-surface mineral and timber substrates to accept direct render'

Technical data

Produced and supervised according to	EN 13171, EN 14964
Board designation	WF - EN 13171 - T5 - DS(70,90)3 - CS(10\Y)50 - TR10 - WS1,0 - MU3;
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
Declared thermal conductivity [W/(m*K)]	0,037
Density [kg/m³] (approx.)	110
Water vapour diffusion resistance factor μ	3
Specific heat capacity [J/(kg*K)]	2,100
Compression strength [kPa]	50
Tensile strength perpendicular to face [kPa] (approx.)	10
Manufacturing process	dry process / utilization polyurethane resin for panel bonding
Ingredients	wood fibre, polyurethane resin, paraffin wax
Outdoor exposure [weeks]	4
Bonded carbon [kg CO ₂ equivalent./m³] (approx.)	160

Additional technical data

Thickness [mm]	Type	Declared thermal resistance [(m ² *K)/W]	s _d value [m]
80	L dry/037	2.15	0.24
100	L dry/037	2.70	0.30
120	L dry/037	3.20	0.36
140	L dry/037	3.75	0.42
160	L dry/037	4.30	0.48
180	L dry/037	4.85	0.54
200	L dry/037	5.40	0.60
220	L dry/037	5.90	0.66
240	L dry/037	6.45	0.72
260	L dry/037	7.00	0.78
280	L dry/037	7.65	0.84
300	L dry/037	8.10	0.90

Forms of delivery

Handy formats, especially for flat and solid undergrounds

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]
80	L dry/037	SE	600	400	56	13.400
100	L dry/037	SE	1200	400	22	10.560
120	L dry/037	SE	1200	400	18	8.640
140	L dry/037	SE	600	400	32	7.680
140	L dry/037	SE	1200	400	16	7.680
160	L dry/037	SE	600	400	28	6.720
160	L dry/037	SE	1200	400	14	6.720
180	L dry/037	SE	600	400	24	5.760
180	L dry/037	SE	1200	400	12	5.760
200	L dry/037	SE	600	400	24	5.760
200	L dry/037	SE	1200	400	12	5.760
220	L dry/037	SE	1200	400	10	4.800
240	L dry/037	SE	1200	400	10	4.800
260	L dry/037	SE	600	400	16	3.840
280	L dry/037	SE	600	400	16	3.840
300	L dry/037	SE	600	400	12	2.880

Weight and packing

Handy formats, especially for flat and solid undergrounds

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Weight/m ² [kg]	Weight/pcs. [kg]	pac./pal. paper/ cardboard (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. wood (approx) [kg]	Weight./ pal. (approx.) [kg]
80	L dry/037	SE	600	400	8.80	2.1	0.10	0.7	16.2	140
100	L dry/037	SE	1200	400	11.00	5.3	0.10	0.7	16.2	135
120	L dry/037	SE	1200	400	13.20	6.3	0.10	0.7	16.2	135
140	L dry/037	SE	600	400	15.40	3.7	0.10	0.7	16.2	140
140	L dry/037	SE	1200	400	15.40	7.4	0.10	0.7	16.2	140
160	L dry/037	SE	600	400	17.60	4.2	0.10	0.7	16.2	140
160	L dry/037	SE	1200	400	17.60	8.4	0.10	0.7	16.2	140
180	L dry/037	SE	600	400	19.80	4.8	0.10	0.7	16.2	135
180	L dry/037	SE	1200	400	19.80	9.5	0.10	0.7	16.2	135
200	L dry/037	SE	600	400	22.00	5.3	0.10	0.7	16.2	150
200	L dry/037	SE	1200	400	22.00	10.6	0.10	0.7	16.2	150
220	L dry/037	SE	1200	400	24.20	11.6	0.10	0.7	16.2	135
240	L dry/037	SE	1200	400	26.40	12.7	0.10	0.7	16.2	150
260	L dry/037	SE	600	400	28.60	6.9	0.10	0.7	16.2	130
280	L dry/037	SE	600	400	30.80	7.4	0.10	0.7	16.2	140
300	L dry/037	SE	600	400	33.00	7.9	0.10	0.7	16.2	120

Notes

Storage

- Store wood fibre boards horizontally, flat and dry
- Protect edges from damage
- Only remove the film packaging when the ambient climate is dry and keep the pallet packing label
- Maximum stacking height: 2 Pallets

Disposal

Waste cuttings:

- Waste code according to 2014/955/EU: 03 01 05

Dismantling:

- Waste code according to 2014/955/EU: 17 02 01

Cutting

- The boards can be cut to size using the STEICO *isoflex cut combi* cutting table, band saw, circular saw, jigsaw and other wood-cutting tools.

Occupational health and safety

- Comply with local regulations for the processing of wood-fibre material.
- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)

Building moisture

- Wood fibre insulation boards are delivered dry. On building sites a material moisture level is reached that allows immediate plaster coating.
- In the event of prolonged damp weathering with driving rain, or in periods of very high humidity, the material moisture content of the wood fibre insulation boards that have not yet been plastered increase significantly. Before plastering, a limit moisture content of the wood fibre insulation board of 13 % must be maintained.
- For renovations and new buildings made of mineral building materials a high core moisture content of the substrate must be avoided.

Installation

Installation as a plaster base board

- Please observe the processing instructions under the following link: <https://www.steico.com/int/technical/installation>

Additional information:

- The maximum weight of the entire render system is 25kg
- Gluing brick slips onto the plaster base board / plaster system is not permitted



Certificates and quality management



☰ Caption

other abbreviations

pal. Pallet
T&G Tongue and Groove
pac. Packaging
approx. Approximately
SE square edge
Pcs. Pieces

Responsible for content

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Date: 2025-05-23

The contents of this document have been prepared with the utmost care. However, applicable regulations can change. STEICO accepts no liability for the accuracy, completeness, or current applicability of the content. Application areas may vary in the detailing. Always verify the suitability of our products for the specific intended use.

The contents of this document have been prepared in consideration of European product standards and provide a general overview of component structures, construction methods, and installation. Local applicable regulations have not been considered. Before using our products, please verify that the applicable regulations for the specific area of use are followed.

The currently valid version can be found at: www.steico.com/tds_steicoprotectdry_eur_en



Render carrying wood fibre insulation board for ETICS in timber frame construction

- With tongue and groove for use in timber frame construction
- Can be combined with STEICO*secure* and many other render systems
- Diffusion-open to protect the construction
- With wood's own lignin as a binding agent
- When used as a wall construction panel in rear-ventilated façades, stiffening in accordance with German approval AbZ-9.1-826
- Wood from responsible forestry - PEFC certified

Application area



- Wood fiber insulation board from the wet process with tongue and groove for ETICS in timber construction
- Suitable for air-injected insulation from a board thickness of 40 mm

Technical data

Produced and supervised according to	EN 13171, EN 14964
Board designation	WF EN 13171 – T5 – DS(70/90)3 – CS (10\Y)150 – TR20(30) – WS1,0 – MU5
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
Declared thermal conductivity [W/(m*K)]	Type M: 0,046; Typ H: 0,048
Density [kg/m³] (approx.)	Type M: approx. 230; Typ H: approx. 265
Water vapour diffusion resistance factor μ	5
Specific heat capacity [J/(kg*K)]	2,100
Compression strength [kPa]	Type M: 100; Type H: 150
Tensile strength perpendicular to face [kPa] (approx.)	20
Manufacturing process	wet process / utilisation of the wood's own lignin for panel bonding
Ingredients	wood fibre, aluminium sulphate, paraffin, bond between layers
Outdoor exposure [weeks]	4
Bonded carbon [kg CO ₂ equivalent./m³] (approx.)	400 (Protect H) / 380 (Protect M)

Additional technical data

Thickness [mm]	Type	Declared thermal resistance [(m²*K)/W]	s _d value [m]
40	H	0.80	0.20
60	H	1.25	0.30
80	M	1.70	0.40
100	M	2.15	0.50

Forms of delivery

Handy formats, e.g. for construction site assembly

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Length net [mm]	Width net [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]	Coverage/pal. net [m²]
40	H	T+G	1325	600	1300	575	56	44.520	41.860
60	H	T+G	1325	600	1300	575	38	30.210	28.405
80	M	T+G	1325	600	1300	575	28	22.260	20.930
100	M	T+G	1325	600	1300	575	22	17.490	16.445

Large format panels for pre-fabricated production, type H stiffening in accordance with AbZ-9.1-826

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m²]
40	H	SE	2800	1250	28	98.000
60	H	SE	2800	1250	19	66.500

Weight and packing

Handy formats, e.g. for construction site assembly

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Weight/m² [kg]	Weight/pcs. [kg]	pac./pal. paper/ cardboard (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. wood (approx) [kg]	Weight./ pal. (approx.) [kg]
40	H	T+G	1325	600	10.60	7.9	2.50	1.1	30.7	480
60	H	T+G	1325	600	15.90	11.9	2.50	1.1	30.7	490
80	M	T+G	1325	600	18.40	13.8	2.50	1.1	30.7	425
100	M	T+G	1325	600	23.00	17.2	2.50	1.1	30.7	415

Large format panels for pre-fabricated production, type H stiffening in accordance with AbZ-9.1-826

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Weight/m² [kg]	Weight/pcs. [kg]	pac./pal. paper/ cardboard (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. wood (approx) [kg]	Weight./ pal. (approx.) [kg]
40	H	SE	2800	1250	10.60	37.1	0.10	1.5	61.9	1105
60	H	SE	2800	1250	15.90	55.7	0.10	1.5	61.9	1125

Notes

Storage

- Store wood fibre boards horizontally, flat and dry
- Protect edges from damage
- Only remove the film packaging when the ambient climate is dry and keep the pallet packing label
- Maximum stacking height: (protect H) 4 pallets / (Protect M) 3 Pallets

Disposal

Waste cuttings:

- Waste code according to 2014/955/EU: 03 01 05

Dismantling:

- Waste code according to 2014/955/EU: 17 02 01

Cutting

- The boards can be cut to size using the STEICO*isoflex cut combi* cutting table or a band saw, circular saw, jigsaw and other wood-cutting tools.

Occupational health and safety

- Comply with local regulations for the processing of wood-fibre material
- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)

Building moisture

- Wood fibre insulation boards are delivered dry. On building sites a material moisture level is reached that allows immediate plaster coating.
- In the event of prolonged damp weathering with driving rain, or in periods of very high humidity, the material moisture content of the wood fibre insulation boards that have not yet been plastered may increase significantly. Before plastering, a limit moisture content of the wood fiber insulation board of 13 % must be maintained.
- For renovations and new buildings made of mineral building materials a high core moisture content of the substrate must be avoided.

Installation

Installation as a plaster base board

- Please observe the processing instructions under the following link: <https://www.steico.com/int/technical/installation>

Additional information

- STEICO*protect* with T&G has a water-repellent surface - can be used without additional weatherproof membranes behind rear-ventilated facades
- The maximum weight of the entire render system is 25kg
- Gluing clinker brick slips onto the plaster base board / plaster system is not permitted



Certificates and quality management



☰ Caption

other abbreviations

pal. Pallet
T&G Tongue and Groove
pac. Packaging
approx. Approximately
SE square edge
Pcs. Pieces

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