

STEICOsafe

Sarking and sheathing boards for roofs >5°



- The pitch of the standard roof can be reduced by up to 12°
- For pitched roofs with increased requirements for rain protection (new buildings and renovation)
- Diffusion open for increased structural safety
- Can be combined with STEICO*multi UDB* (sub-roofing membrane) to form connection details (e.g. valley, ridge etc.)
- Ecological alternative to rigid foam panels

Application area



- Rigid underlay board for the roof area
- Wall construction panel for timber construction in combination with ventilated rainscreen facades

Technical data

Produced and supervised according to	EN 13171
Board designation	Board thickness 40 mm: WF – EN 13171 – T5 – CS(10\Y) 200 – TR30 – WS1,0; Board thickness 60 - 100 mm: WF – EN 13171 – T5 – CS(10\Y) 100 – TR10 – WS1,0; Board thickness 120 - 240 mm: WF – EN 13171 – T5 – CS(10\Y) 50 – TR10 – WS1,0
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
Declared thermal conductivity [W/(m*K)]	0,043 (40 mm) / 0,040 (60-100 mm) / 0,037 (120-240 mm)
Density [kg/m ³]	approx. 180 (40 mm) / approx. 140 (60-100 mm) / approx. 110 (120-240 mm)
Short-term water absorption [kg/m ²]	≤ 1.0
Specific heat capacity [J/(kg*K)]	2,100
Compressive strength at 10% compression δ_{10} [N/mm ²]	0.2 (40 mm) / 0.1 (60-100 mm) / 0.05 (120-240 mm)
Compression strength [kPa]	200 (40 mm) / 100 (60-100 mm) / 50 (120-240 mm)
Manufacturing process	dry process / utilization polyurethane resin for panel bonding (approx. 5%)
Permissible roof pitch without additional measures [°]	≥5
Maximum undercutting of the standard roof pitch [°]	12
Ingredients	Wood fibre, PUR resin, paraffin, diffusion-open bottom cover membrane 3-ply protected on both sides with PP fleece, seam bonding acrylic dispersion, solvent-free
European Waste Code (EWC)	030105/170201, disposal as wood and wood-based materials, waste wood category A II
Processing temperature [°C]	from +5
Resistance to water penetration	W1
Outdoor exposure	up to eight weeks
Bonded carbon [kg CO ₂ equivalent./m ³]	260 (safe 40mm) / 200 (safe 60-100) / 160 (safe 120-240)

Additional technical data

Thickness [mm]	Declared thermal resistance [(m ² *K)/W]	s _a value [m]
40	0.90	0.36
60	1.50	0.36
80	2.00	0.48
100	2.50	0.60
120	3.20	0.60
140	3.75	0.70
160	4.30	0.80
180	4.85	0.90
200	5.40	1.00
220	5.90	1.10
240	6.45	1.20

Forms of delivery

Handy formats, e.g. for construction site assembly

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Length net [mm]	Width net [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]	Coverage/pal. net [m ²]
40	T+G	2230	600	2205	575	56	74.928	71.001
60	T+G	2230	600	2205	575	36	48.168	45.644
80	T+G	2230	600	2205	575	28	37.464	35.501
100	T+G	2230	600	2205	575	22	29.436	27.893
120	T+G	1880	600	1855	575	18	20.304	19.199
140	T+G	1880	600	1855	575	16	18.048	17.066
160	T+G	1880	600	1855	575	14	15.792	14.933
180	T+G	1880	600	1855	575	12	13.536	12.800
200	T+G	1880	600	1855	575	12	13.536	12.800
220	T+G	1880	600	1855	575	10	11.280	10.666
240	T+G	1880	600	1855	575	10	11.280	10.666

XXL formats for pre-fabricated production

Thickness [mm]	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m ²]
40	SE	2800	1250	28	98.000
60	SE	2800	1250	19	66.500

Weight and packing

Handy formats, e.g. for construction site assembly

Thickness [mm]	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]
40	T+G	2230	600	7.20	9.1	0.05	1.0	36.2	535
60	T+G	2230	600	8.40	10.7	0.05	1.0	28.4	410
80	T+G	2230	600	11.20	14.2	0.05	1.0	28.4	425
100	T+G	2230	600	14.00	17.8	0.05	1.0	28.4	415
120	T+G	1880	600	13.20	14.1	4.50	1.0	25.5	285
140	T+G	1880	600	15.40	16.4	4.50	1.0	25.5	295
160	T+G	1880	600	17.60	18.8	4.50	1.0	25.5	300
180	T+G	1880	600	19.80	21.1	4.50	1.0	25.5	290
200	T+G	1880	600	22.00	23.5	4.50	1.0	25.5	320
220	T+G	1880	600	24.20	25.8	4.50	1.0	25.5	295
240	T+G	1880	600	26.40	28.2	4.50	1.0	25.5	320

XXL formats for pre-fabricated production

Thickness [mm]	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]
40	SE	2800	1250	7.20	25.2	0.10	1.5	59.0	770
60	SE	2800	1250	8.40	29.4	0.10	1.5	59.0	625

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: 4 pallets 40mm / 3 pallets 60-100mm / 2 pallets \geq 120 mm

Disposal

- Disposal of offcuts: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II
- Disposal after dismantling: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II

Cutting

- The panels can be cut to size using a band saw, circular saw, jigsaw and other wood-cutting tools.
- To prevent the laminated water-bearing sheet from tearing out, cut on the non-covered side of the panel

Occupational health and safety

- STEICO wood fibre boards can be walked on directly above a rafter or joist support, however they cannot be used as the primary walking surface
- To ensure that the roof can be walked on at all times, it is advisable to lay the battens at the same time.
- Additional fall protection (man safe systems) should be used in line with national guidelines
- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)

Building moisture

- Condensation on the side of the panel facing the room during the construction phase disrupts (hinders) the diffusion flow.
- Building moisture caused by fresh screed, plaster or paint, for example, must generally be removed by ventilation.
- Dry air must be ensured inside the building during the construction phase.
- Additional measures, such as the installation of drying equipment during the construction phase, are recommended.

Installation

Installation in roof and wall areas

- For additional technical documentation, handling instructions etc. please consult the STEICO homepage.

Additional information

- In order to ensure a highly diffusion-open structure even with low roof pitches, this system is outside the regulations of the ZVDH, depending on the roof pitch and roof covering. This system does not comply with the ZVDH regulations. For these deviations, the STEICOsafe processing instructions apply first and foremost. If there is a deviation from the ZVDH regulations, this must be indicated in construction drawings and offers.
- The suitability of further superstructures and installations such as the roof cladding, solar and PV elements as well as roof windows must be checked by the contractor independently.
- This document is based on the German technical data sheet and is intended for general information purposes in an international context. National regulations and building codes must be additionally observed.



Certificates and quality management



☰ **Caption**

other abbreviations

pal. Pallet

T&G Tongue and Groove

pac. Packaging

approx. Approximately

SE square edge

Pcs. Pieces