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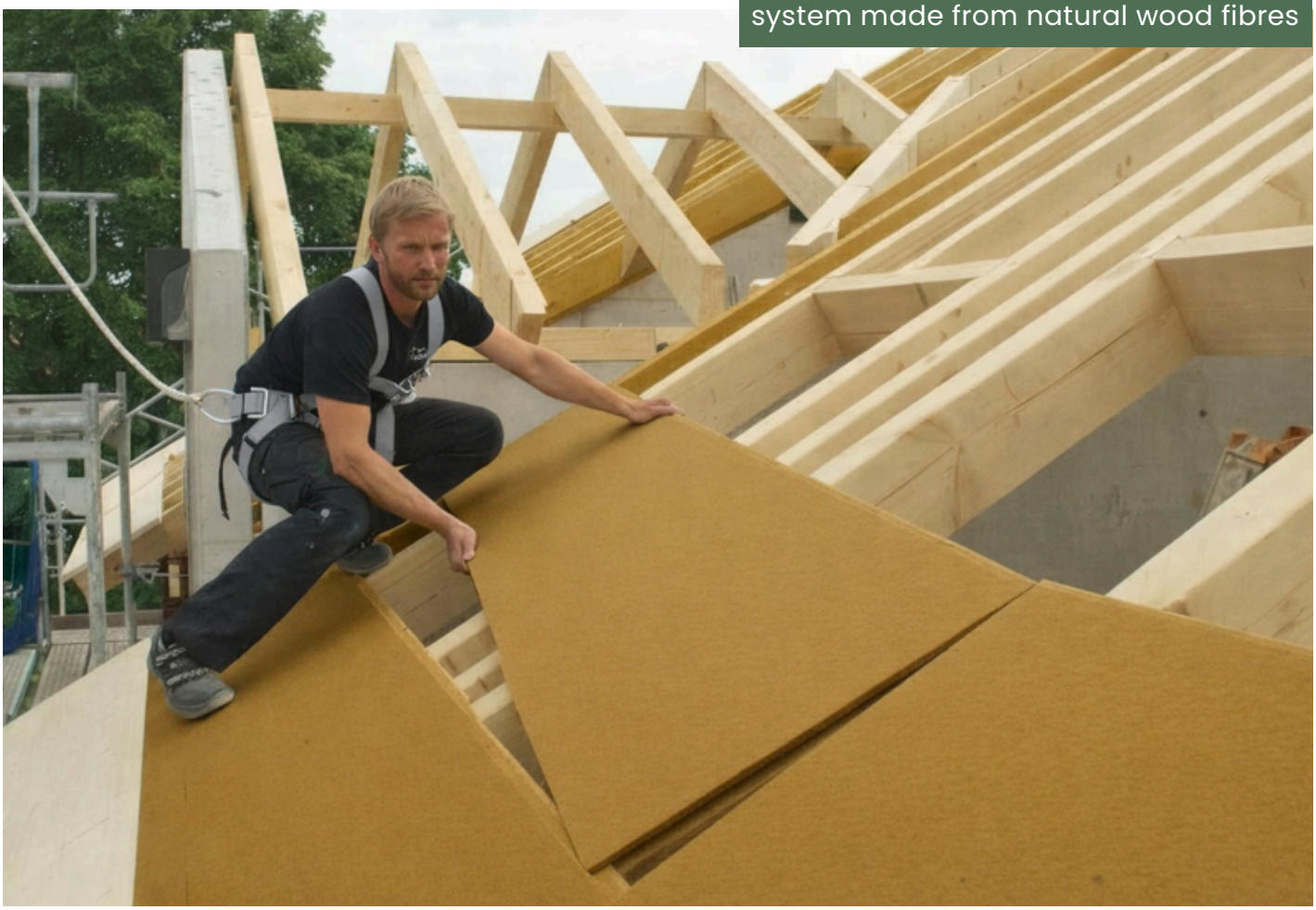
Technical Data Sheet

# Steico **Universal**

Environmentally friendly insulation system made from natural wood fibres



## Steico **Universal**

### Rigid insulating and sarking board

**Areas of application**

Above roof rafter,

external walls

- 3-fold function: heat/cold protection, rain protection, wind protection
- Ecological, produced without additional glues
- Excellent heat protection in Summer
- Reduces thermal bridging
- May be left exposed for up to 4 weeks during construction

STEICO
Strategic Distribution Partner

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# Steico **Universal**

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## Packaging & Sizes

| Thickness (mm) | Size [mm] | Cover. dim (mm) | Edge profile | Pieces / pallet | m² / pallet | Coverage per pallet | Weight kg / m² | Weight / pal. [kg] |
|---|---|---|---|---|---|---|---|---|
| 22 | 2230 * 600 | 2210 * 585 | Tongue & Groove | 104 | 139.152 | 134.456 | 5.94 | ~ 815 |
| 35 | 2230 * 600 | 2205 * 575 | Tongue & Groove | 64 | 85.632 | 81.144 | 9.50 | ~ 805 |

Pallet size: ca. 2.25 * 1.20 * 1.28 m.

## R-Values

| Thickness (mm) | Declared thermal resistance [(m²*K)/W] | sd value [m] |
|---|---|---|
| 22 | 0.45 | 0.11 |
| 35 | 0.70 | 0.18 |

## Technical Data

| | | | |
|---|---|---|---|
| **Produced and supervised according to** | EN 13171, EN 14964 | **Compressive strength at 10% compression δ10 [N/nm²]** | 0.20 |
| **Board designation** | WF – EN 13171 – T5 – DS (70,-) 2 – CS (10 \ Y)200 –TR30 – WS1,0 – AFr100, EN-14964-IL | **Compression strength [kPa]** | 200 |
| **Fire class (RTF) according to EN 13501-1** | E | **Tensile strength perpendicular to face [kPa] (approx.)** | ≥ 30 |
| **Permanent temperature range [°C]** | ≤ 100 | **Declared level of airflow resistance [(kPa*s)/m²]** | ≥ 100 |
| **Declared thermal conductivity [W/(m*K)]** | 0.048 | **Ingredients** | wood fibre, aluminium sulphate, paraffin, bond between layers |
| **Density [kg/m³] (approx.)** | 270 | **Manufacturing process** | wet process / utilisation of the wood's own lignin for panel bonding |
| **Water vapour diffusion resistance factor μ** | 5 | **Waste code (EAK/AVV) 2014/955/EU: 030105/170201** | Disposable like wood and wood products |
| **Short-term water absorption [kg/m²]** | ≤ 1.0 | **Outdoor exposure [weeks]** | 4 |
| **Specific heat capacity [J/(kg*K)]** | 2,100 | **Bonded Carbon [kg $CO_2$ equivalent/m³] (approx.)** | 420 |

## 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

### Cutting

- The boards can be cut to size using typical woodworking tools.
- HSE guidance on the safe cutting of timber and the management of wood dust should be followed

### 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.

### Occupational health and safety

- Wood fibre boards can be walked on directly above a rafter or joist support. 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

**Scan for Installation Guide**

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