technical data sheet

STEICO*zell*

Air-injected wood fibre insulation



Premium air-injected insulation made from natural wood fibres for new construction and renovation

- Insulates cavities of all shapes and sizes - free of joints and waste
- Particularly cost-effective due to optimised material requirements (insulation with low densities due to three-dimensional interlocking of the wood fibres)
- Suitable for on-site assembly and prefabrication
- Bears the quality mark of the German Institute for Building Biology Rosenheim (IBR) for healthy living and environmentally friendly building products.
- Carbon storage: Up to 71 kg CO2eq/m3 are stored in the wood of this insulation material.
- Wood from responsible forestry - PEFC certified

Application area



- Air injected insulation material for closed and open cavities of roofs, walls, and ceilings

Technical data

European technical approval (ETA)	12/0011
Fire class (RTF) according to EN 13501-1	E
Declared thermal conductivity	0.038 W/(m*K)
Density	~ Open blown: attic floor: approx. 32 /Closed cavities: roof, ceiling, wall: approx. 35 - 45 kg/m³
Water vapour diffusion resistance factor μ	1/3
Specific heat capacity	2,100 J/(kg*K)
Ingredients	wood fibres, fire retardants
Declared level of airflow resistance	>5 (n.DIN EN 29053 30 kg/m³) (kPa*s)/m²

Bonded carbon

CO_2-storage

During growth, trees absorb carbon dioxide (CO_2) and split the molecule into carbon (C) and oxygen (O_2). The carbon is bound in the wood. The amount of bound carbon (C) is therefore also referred to as CO_2 equivalent (CO_2eq). As long as the wood is used in the form of wood products, the carbon remains bound and is removed from the atmosphere.

Biogenic carbon content in the product according to EN 15804+A2	approx. 71 kg CO_2eq/m³

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Forms of delivery

Delivery in handy bags

Number/pal. [pcs.]	Weight/pcs. [kg]	Weight./pal. (approx.) [kg]
21	15.0	335

Delivery in bales without individual wrapping / big bales (industrial packaging)

Number/pal. [pcs.]	Weight/pcs. [kg]	Weight./pal. (approx.) [kg]
18	270.0	290

Weight and packing

Delivery in handy bags

Number/pal. [pcs.]	Weight/pcs. [kg]	Weight./pal. (approx.) [kg]	pac./pal. wood (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. paper/cardboard (approx) [kg]
21	15.0	335	12.6	4.0	0.01

Delivery in bales without individual wrapping / big bales (industrial packaging)

Number/pal. [pcs.]	Weight/pcs. [kg]	Weight./pal. (approx.) [kg]	pac./pal. wood (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. paper/cardboard (approx) [kg]
18	270.0	290	16.5	1.1	0.01

Notes

Storage

- Store in a dry and UV-protected place
- Do not remove the transport packaging until the pallet is on a firm, level surface.
- Store pallets without additional load

Disposal

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

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

Installation

- The air injected isolation installed exclusively by trained partners and licensed companies (in accordance with European Technical Approval).
- The insulation material is applied using specialised air-injection blowing machines

Occupational health and safety

- Dust may be generated during the installation of the insulation material therefore wearing a dust mask is recommended.

Building moisture

- Excess moisture caused by e.g. fresh screed, plaster, or paint must be removed by ventilation
- Dry air must be provided inside the building during the construction phase.

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Installation

- Please observe the processing instructions under the following link: https://www.steico.com/eur/downloads/documents/technical-/-installation

Certificates and quality management

Caption

other abbreviations

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

EUR Europe

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Compliance

Responsible for content
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Version: 5
Date: 2026-10-12

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STEICO accepts no responsibility for the completeness, accuracy or quality of information provided by third parties.

Regional document validity: EU*

***Additional Validity Information**
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.

The most recent version of this document applies. This version can be found at:
www.steico.com/tds_steicozell_eur_en