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 63 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 [W/(m*K)]	0.038
Density [kg/m³] (approx.)	Open blown: attic floor: approx. 32 /Closed cavities: roof, ceiling, wall: approx. 35 - 45
Water vapour diffusion resistance factor μ	1/2
Specific heat capacity [J/(kg*K)]	2,100
Ingredients	wood fibres, fire retardants
Declared level of airflow resistance [(kPa*s)/m²]	>5 (n.DIN EN 29053 30 kg/m³)
Bonded carbon [kg CO_2 equivalent./m³] (approx.)	63

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

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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	0.05

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	0.05

Compaction density table for ETA-12/0011

Component insulation thickness [cm]	up to 16	17-22	23-28	29-34	35-40
	Minimum bulk density [kg/m³]				
Blown freely onto ceiling + 15 % insulation cover	32	32	32	32	32
Blown into intermediate floor	35	35	35	35	35
Blown into suspended ceiling					
Blown into top floor ceiling					
Blown into roof up to 20° pitch					
Blown into roof of 20 - 60° pitch					
Blown into roof over 60° pitch					
Blown into walls					

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 is 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

- HSE guidance on the management of wood dust should be followed

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

- The following applies when calculating the thermal resistance of components when openly installed: installation thickness = nominal thickness + 15 %.
- Please observe the processing instructions under the following link: https://www.steico.com/en/technical/installation

Certificates and quality management

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Caption

other abbreviations

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

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This document is valid in the following countries:
United Kingdom, Republic of Ireland

The currently valid version can be found at: www.steico.com/tds_steicozell_gbr-irl_en