STEICO air injected insulation

STEICO*timberfloc* | **STEICO***zell* | **STEICO***floc*

Delivery in practical bags or as bales without individual packaging

NEW!

STEICO*timberfloc* – combination of wood fibres and cellulose

The bio-based STEICO air-injected insulation for new build and refurbishment

- Wood fibre and cellulose insulation materials of own production
- For use on site and in prefabrication
- Joint-free, settlement-proof, cut-free
- Easy storage and transport
- Delivery highly compressed in bags and bales
- Energy-efficient and economical
- Fast machine processing

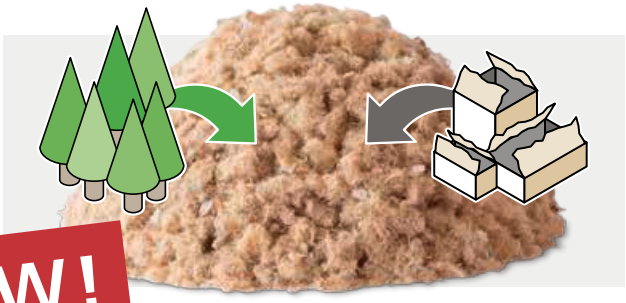
Areas of application

For all closed cavities in roofs, walls and ceilings

Saves CO_2
Stores CO_2
STEICO WOOD-FIBRE INSULATION

STEICO *timberfloc*

Air injected insulation from wood fibres and celluose



NEW !

Taking insulation one step further

STEICO*timberfloc* is the first air injected insulation on the market that perfectly combines the different advantages of the two bio-based air injected insulations wood fibre AND cellulose from cardboard boxes:

The addition of cellulose, with its excellent flow properties, improves the flow behaviour compared to pure wood fibre air injected insulation. This is why the most common air injection machines can be used for STEICO*timberfloc* – even somewhat less powerful ones, as are still often used.

Due to the three-dimensional interlocking of the wood fibres, STEICO*timberfloc* can be processed with a 10-25% lower raw density compared to pure cellulose air injected insulation.

STEICO*timberfloc* has extremely good thermal insulation properties in both winter and summer. The long-fibre structure guarantees permanent resistance to settlement, even with large insulation thicknesses.

Delivery in handy bags

- Delivery in PE bags of 15 kg
- 21 bags per pallet = 315 kg / pallet
- Pallet dimensions = approx. 0.80 * 1.20 * 2.60 m (L * W * H)

Further delivery forms on request

Note

Store in a dry place. Do not remove the transport packaging until the pallet is standing on a firm, level and dry surface. Observe processing guidelines.

Technical data STEICO*timberfloc*

Approval for loose wood fibres and cellulose flakes as thermal insulation	
European technical assessment (ETA)	23/0465
Fire class (RTF) according to EN 13501-1	E
Declared thermal conductivity λ_D [W/(m*K)]	0.039
Recommended density ρ [kg/m³]	
• Open blown: attic floor	approx. 32
• Closed cavities: roof, ceiling, wall	approx. 42-60
Water vapour diffusion resistance value μ	~~1/3~~ 1
Specific heat capacity c [J/(kg*K)]	2.100
Flow resistance r [kPa*s/m²] acc. EN 29053 30 kg/m³w	(≥45 kg/m³)= 8; (<45 kg/m³ - ≥35 kg/m³)=5; (<35 kg/m³ - ≥32 kg/m³)=4
Ingredients	wood fibres, cellulose flakes, flame retardant
Waste code (EAK/AVV)	170604/170904
Bound carbon / CO_2 storage [kg CO_2 equ./m³]	**approx. 51**

Minimum raw density table STEICO*timberfloc*

		0° - 20°	20° - 60°	> 60°
Insulation thickness	[kg/m³]			
≤ 16 cm	32	42	42	42
≤ 22 cm				
≤ 28 cm				
≤ 34 cm				
≤ 40 cm				

The requirement for settlement resistance is the quantity blown in according to the minimum raw density table and the even distribution in the cavity. No material quantity needs to be added for prefabricated components and subsequent transport. A check of the air-injected fields on the building site is essential in order to fulfil the high quality requirements.

The following applies when calculating the thermal resistance of components when openly blown on: Installation thickness = nominal thickness + 7%.

CE

PEFC
PEFC/04-31-2550
Förderung nachhaltiger Waldbewirtschaftung
www.pefc.org

STEICO *zell*

Wood fibre air injected insulation

STEICO*zell* is made exclusively from fresh softwood that is certified in accordance with the strict rules of the PEFC. A low proportion of ammonium salts (< 5 %) guarantees permanent material resistance and reliable fire protection.

STEICO*zell* has extremely good thermal insulation properties in both winter and summer. The long-fibre structure guarantees permanent resistance to settlement, even with large insulation thicknesses.

Delivery in handy bags

- Delivery in PE bags of 15 kg
- 21 bags per pallet = 315 kg / pallet
- Pallet dimensions = approx. 0.80 * 1.20 * 2.60 m (L * W * H)

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

- Bales of 15 / 20 kg, stacked open on a pallet, packed weatherproof with stretch wrapping
- 18 bales per pallet = 270 kg / pallet (15 kg bales) / 360 kg / pallet (20 kg bales)
- Pallet dimensions = approx. 0.80 * 1.20 * 2.30 m (L * W * H)

Further delivery forms on request

Note

Store in a dry place. Do not remove the transport packaging until the pallet is standing on a firm, level and dry surface. Observe processing guidelines.

Technical data STEICO*zell*

Approval for loose wood fibres as thermal insulation	
European technical assessment (ETA)	12 / 0011
Fire class (RTF) according to EN 13501-1	E
Declared thermal conductivity λ_D [W / (m*K)]	0.038
Recommended density ρ [kg / m³]	
• Open blown: attic floor	approx. 32
• Closed cavities: roof, ceiling, wall	approx. 35 - 45
Water vapour diffusion resistance value μ	1 / 3
Specific heat capacity c [J / (kg * K)]	2.100
Flow resistance r [kPa * s / m²] acc. EN 29053	30 kg / m³ > 5
Ingredients	wood fibres, flame retardant ammonium sulphate
Waste code (EAK/AVV)	170201, disposal like wood and engineered wood products
Bound carbon / CO_2 storage [kg CO_2 equ./m³]	**approx. 63**

Minimum raw density table STEICO*zell*

		0° - 20°	20° - 60°	> 60°
Insulation thickness	[kg / m³]			
≤ 16 cm	32	35	35	35
≤ 22 cm				
≤ 28 cm				
≤ 34 cm				
≤ 40 cm				

Tip for pre-measuring the amount of material: 40 kg / m³ or 2.5 - 3.0 bags / m³.

The requirement for settlement resistance is the quantity blown in according to the minimum raw density table and the even distribution in the cavity For prefabricated components and subsequent transport, 7 kg/m³ of material must be added. A check of the air-injected fields on the building site is essential in order to fulfil the high quality requirements.

The following applies when calculating the thermal resistance of components when openly blown on: Installation thickness = nominal thickness + 20%.

STEICO *floc*

Cellulose air injected insulation

Only sorted daily newspaper is used for STEICO*floc*. This is defibred in a modern vortex mill. A low proportion of inorganic mineral salts ensures the material's lasting durability and fire protection.

STEICO*floc* has extremely good thermal insulation properties in both winter and summer. The special flake quality guarantees permanent resistance to settlement, even with large insulation thicknesses.

Delivery in handy bags

- Delivery in PE bags of 15 kg
- 21 bags per pallet = 315 kg / pallet
- Pallet dimensions = approx. 0.80 * 1.20 * 2.60 m (L * W * H)

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

- Bales of 15 / 20 kg, stacked open on a pallet, packed weatherproof with stretch wrapping
- 18 bales per pallet = 270 kg / pallet (15 kg bales) / 360 kg / pallet (20 kg bales)
- Pallet dimensions = approx. 0.80 * 1.20 * 2.30 m (L * W * H)

Further delivery forms on request

Note

Store in a dry place. Do not remove the transport packaging until the pallet is standing on a firm, level and dry surface. Observe processing guidelines.

Characteristic values STEICO*floc* and STEICO*floc* NB (boron free)

Approval for loose cellulose flakes as thermal insulation	
European technical assessment (ETA)	16/0141
Fire class (RTF) according to EN 13501-1	E
Declared thermal conductivity λ_D [W/(m*K)]	0.038
Recommended density ρ [kg/m³]	
• Open blown: attic floor	approx. 27-39
• Closed cavities: roof, ceiling, wall	approx. 40-60
Water vapour diffusion resistance value μ	1/3
Specific heat capacity c [J/(kg*K)]	2.100
Flow resistance r [kPa*s/m²] acc. EN 29053	30 kg/m³ = 6.2 45 kg/m³ = 18.4
Ingredients	Sorted newsprint, inorganic mineral salts
Waste code (EAK/AVV)	170604/170904
Bound carbon / CO_2 storage [kg CO_2 equ./m³]	**approx. 61**

Minimum densities STEICO*floc*

		0° - 20°	20° - 60°	>60°
Insulation thickness	[kg/m³]			
≤16 cm	30	38	43	47
≤22 cm	32	40	45	50
≤28 cm	34	43	47	52
≤34 cm	34	44	49	55
≤40 cm	34	48	51	57

The requirement for settlement resistance is the quantity blown in according to the minimum raw density table and the even distribution in the cavity For prefabricated components and subsequent transport, 5 kg/m³ of material must be added. A check of the air-injected fields on the building site is essential in order to fulfil the high quality requirements.

The following applies when calculating the thermal resistance of components when openly blown on: Installation thickness = nominal thickness + 10%.

FORUM HOLZBAU PREMIUM PARTNER

Quality Management ISO 9001:2015

Environmental Management ISO 14001:2015

STEICO engineered by nature

Your STEICO Partner

www.steico.com