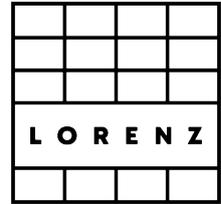


Insulation System Made Of Wood and Straw

Flexible insulating element made of wood with straw insulation for efficient renovation



DTX



Production

- Preassembled frames with minimal wood content
- Mechanically pressed and planed filling

Assembly

- Quick and easy to assemble
- Can be plastered and planked immediately
- Variable sizes and installation depending on the condition of the existing wall

Environmental aspects

- Completely removable and reusable
- Wood and straw store CO₂
- Tested free of pollutants
- Regulating and insulating effect

Information: This data sheet contains a visual representation of the product. In some cases, there may be minor discrepancies between the product shown and the actual product. Such discrepancies represent neither a defective product nor a technical limitation

Insulation element DTX

Components

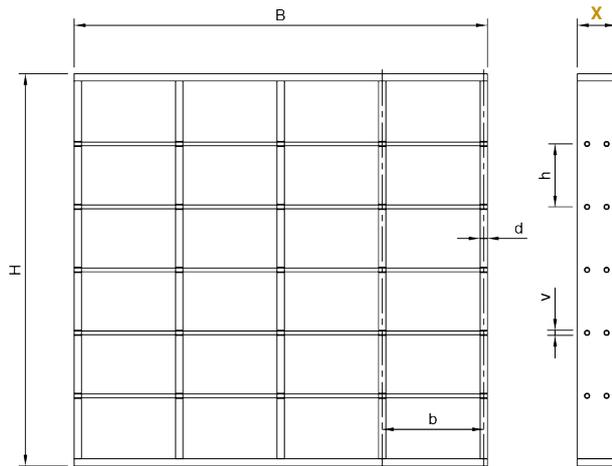
Wood, straw, fastener

Not reinforced. Other sizes available on request.

Abmessungen DTX	mm*
H (Height)	2,384
B (Width)	2,522
X (Depth)	1,800 – 3,400
h (Height of section)	390**
b (Width of section)	625
d (Width plank)	22
v (Height bar)	32

* According to DIN 68100

** Applies up to installation depth 26 cm, from installation depth 28 cm: 440 mm



□ Model size 406 (4 panels wide x 6 panels high)

Installation depth in cm	18	20	22	24	26	38	30	32	34
Specific weight in kg/m ²	21	23	25	27	29	32	34	36	40

Technical Parameters DTX	Specification/Unit	
Straw quality	Certified construction grade straw, regionally sourced	I. Filling
Fire classification	E (ordinary combustibles) according to EN 13501-1	
Apparent density of straw	100 kg/m ³ ± 15 kg/m ³	
Straw moisture	< 18%	
Method of pressing	High-density small bales mechanically pressed into element sections	
Orientation of straw	Predominantly vertical for thermal flow	
Quality of wood	Rod plywood, Apparent density 450 kg/m ³ , Moisture < 15% ± 3%	II. Frame
Fasteners	Wooden dowels, raw, 8 mm Countersunk screws, galvanized 5 x 100 mm Crossbars, spruce, presorted 24 x 24 mm	III. Joints
Application	Facade, roof or floor insulation	

Insulation behaviour DTX	Specification/Unit
Heat capacity of straw	2.0 kJ/(kg·K)
Thermal conductivity (λ _R)	Construction grade straw 0.049 / Rod plywood 0.130 W/(m·K)

Installation depth in cm	18	20	22	24	26	38	30	32	34
U-value (without cladding)	0.27	0.248	0.226	0.208	0.193	0.179	0.168	0.158	0.149
Phase shift in h	8.3	9.3	10	11	12	13	14	15	16

Installation depth in cm	18	20	22	24	26	38	30	32	34
CO ₂ -Storage in kg/m ²	26	29	32	35	38	41	43	46	49



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