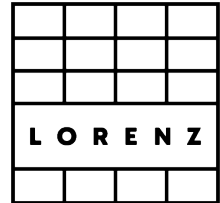
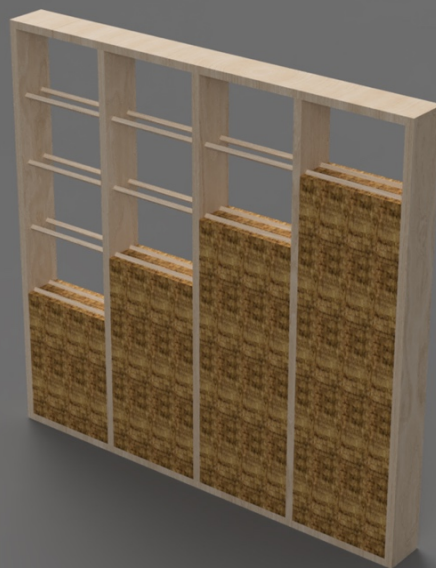


# Building System Made of Wood and Straw

Prefabricated building element made of wood with straw insulation for efficient construction



## DD18\_60



### Production

- Frames preassembled by skilled technicians
- Mechanically pressed and planed filling

### Assembly

- Quick and easy to assemble
- Can be plastered and planked immediately
- Available in many sizes

### Environmental aspects

- Completely removable and reusable
- Wood and straw store CO<sub>2</sub>
- Tested free of pollutants

**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.

# Building element DD18\_60

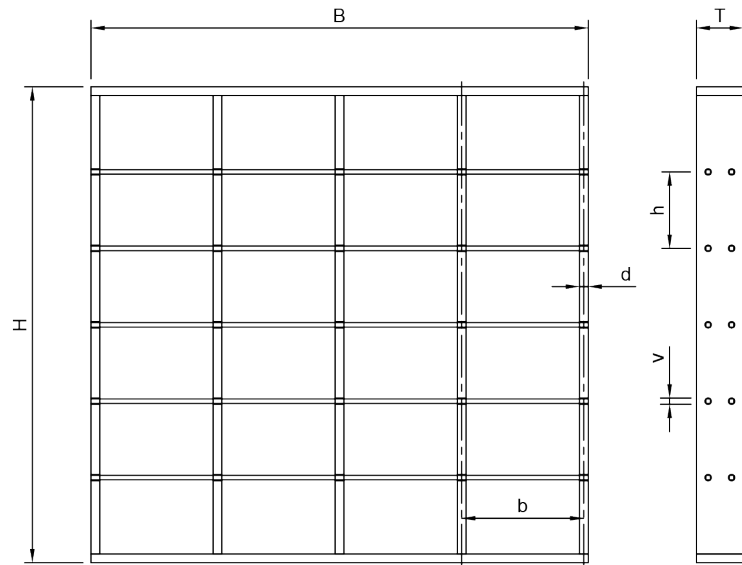
## Components

Wood, straw, fastener

Not reinforced. Other sizes available on request.

Nominal dimension	mm*
H (Height)	2,460
B (Width)	2,560
T (Depth)	180
h (Height of section)	390
b (Width of section)	625
d (Width plank)	60
v (Height bar)	32

\* According to DIN 68100



□ Model size 406 (4-panel wide, 6-panel high)

Technical Parameters DD18_60	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 <sup>3</sup> ± 15 kg/m <sup>3</sup>	
Straw moisture	< 18%	
Heat capacity of straw	2.0 kJ/(kg·K)	
Method of pressing	High-density small bales mechanically pressed into element sections	
Orientation of straw	Vertical for thermal flow	
Quality of wood	KVH® spruce-NSi, finger jointing	II. Frame
Apparent density of wood	420 kg/m <sup>3</sup>	
Wood moisture	< 15% ± 3%	III. Joints
Fasteners	Wooden dowels, raw, 8 mm Countersunk screws, galvanized 6 x 160 mm Crossbars, spruce, presorted 24 x 24 mm	
□ Absolute weight	168 kg	
□ Specific weight (wall surface)	26.7 kg/m <sup>2</sup>	
□ Specific surface load (floor surface)	3.6 kN/m <sup>2</sup>	
Thermal conductivity (λ <sub>R</sub> )	Construction grade straw 0.049 W/(m·K) Softwood 0.130 W/(m·K)	
U-value (without cladding)	0.298 W/(m <sup>2</sup> ·K)	
Application	Wall, roof, floor, ceiling or gable modules	



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