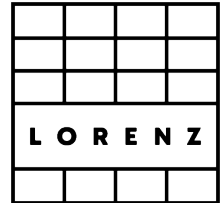


Building System Made of Wood and Straw

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



DD34_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 CO₂
- 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 DD34_60

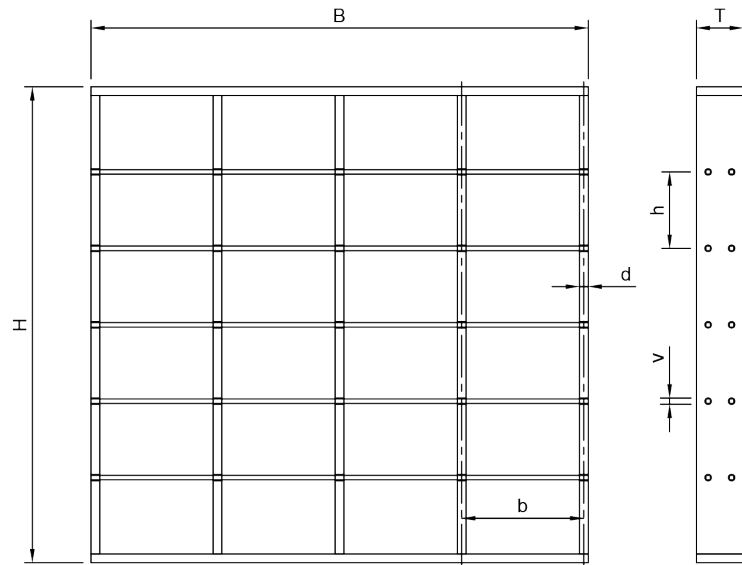
Components

Wood, straw, fastener

Not reinforced. Other sizes available on request.

Nominal dimension	mm*
H (Height)	2,760
B (Width)	2,560
T (Depth)	340
h (Height of section)	440
b (Width of section)	625
d (Width plank)	60
v (Height bar)	32

* According to DIN 68100



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

Technical Parameters DD34_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 ³ ± 15 kg/m ³	
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	BSH (laminated timber) spruce, GL24c	II. Frame
Apparent density of wood	420 kg/m ³	
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	350 kg	
□ Specific weight (wall surface)	49.5 kg/m ²	
□ Specific surface load (floor surface)	3.5 kN/m ²	
Thermal conductivity (λ _R)	Construction grade straw 0.049 W/(m*K) Softwood 0.130 W/(m*K)	
U-value (without cladding)	0.162 W/(m ² *K)	
Application	Wall, roof, floor, ceiling or gable modules	



Lorenz GmbH
Am Steinbruch 16
04425 Taucha

Tel.: +49 34298 20 99 36
Fax: +49 34298 20 99 40
E-Mail: info@lorenzsysteme.de
Web: www.lorenzsysteme.de



Version 1.3/10/22