

# Product data sheet

## strawplate light



### CERTIFICATES

Formaldehyde/AgBB K 8156FM- Cert  
Behaviour in fire DIN EN 13501-1:2010-01  
Behaviour in low temperature carbonization  
DIN EN 16733:2016-07  
Mould K 8892 FM  
Stiffness DIN EN 29052-1  
Airborne sound insulation DIN EN ISO 10140-2  
Sound absorption factor DIN EN ISO 11654

### PROPERTIES

The straw plate light is an ecologically harmful, healthy for living environment and diffusion-open plate for the inside area. It consists of shives (annually growing again raw material) and minerals.

### APPLICATION

It's use takes place for heat insulation, mould-sanitation and regulation of moisture. It creates a pleasant and healthy room air condition.

### STORING

The plates are to store flat and dry on solid bases in aerated building.

### PROCESSING

The light straw plates can be processed with conventional compass saw, band saw, disk saw or ribbon saw. Because of the dust that occurs, it is recommended to wear respiratory protection.

### DANGER INDICATIONS

None

### NOTES

Please note the relevant processing instructions. In addition the generally accepted technical standards apply. The information given in this notification must be followed. Processors are obliged to check the suitability and application possibilities for the intended purpose. Our information only describes the properties of our products and services and does not constitute a guarantee.



low-flammable



water resistant



formaldehyde free



mould resistant



diffusion open



100% natural



preserving the „green lung“



environmentally friendly



CO2 binding



recyclable



biodegradable

## TECHNICAL DATA

Features	Standard	Parameters and measured values		Unit
		30 mm	20mm	
Dimensions	DIN EN 822, DIN EN 823	1200 x 600	1200 x 600	mm
Apparent density	DIN EN 1602	ca. 350	ca. 350	kg/m <sup>3</sup>
Thickness swell	DIN EN 1604	0,9	0,7	%
Squareness	DIN EN 824	2,9	2,7	mm/ m
Evenness	DIN EN 825	0,7	0,6	mm
Caloric conductivity	DIN EN 12667	0,087	0,087	W/(m*K)
Behaviour in fire	DIN EN 13501	B-s1 d0	B-s1 d0	Klasse
Resistance on extension	DIN EN 1607	74	118	kPa
Compressive resistance	DIN EN 826	758	1022	kPa
Dynamic stiffness	DIN EN 29052-1	s´=286		MN/m <sup>3</sup>
Humidity degree at 23°C a. 80°C relative humidity of air	DIN EN ISO 12571	24,2	30,7	%
Water vapour permeability	DIN EN 12086	0,06	0,03	m
Water vapour diffusion resistance coefficient	DIN EN 12086	2,1	1,8	µ
Formaldehyde	AgBB 02/2015 VVOC-,VOC and SVOC-emission	A+	A+	category
Acoustic absorption factor	DIN EN ISO 11654	0,45 (MH)		aw
Airborne sound insulation	DIN EN ISO 10140-2	5,2 dB ± 1,2 dB		Rw

Technical information - version May 2020

These technical information have been compiled on the basis of the newest level of technology and our experiences. Due to the variety of grounds and object conditions the buyer/ user is not discharged from his duty to check the materials for their suitability for the planned purpose, specialist and trade like.



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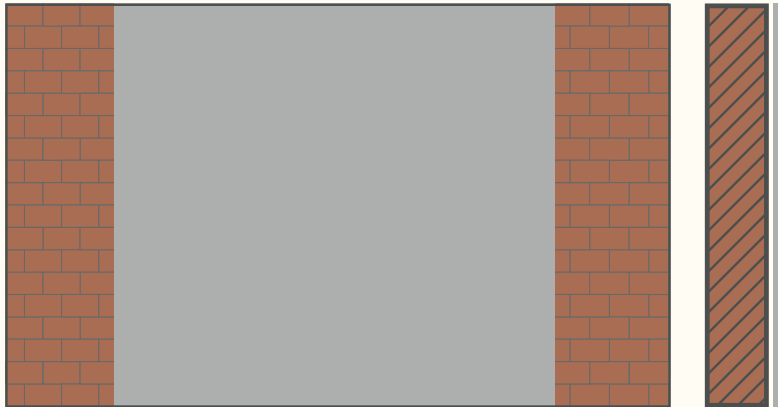
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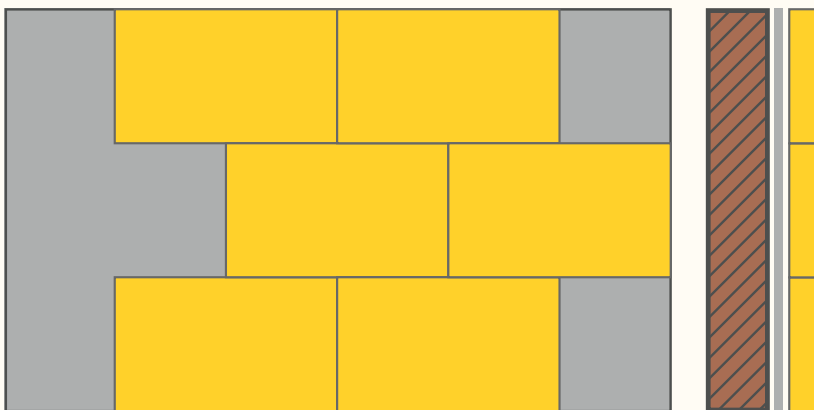
# Processing instructions

## strawplate light



Ground Preparation

- 1 • Remove possibly existing mould infestation according to valid regulations  
• bearing ground must be free of old-coatings (oil-paint, dispersions, and similars)  
• equalize level existing unevenness or excess endings with fitting mortar, e.g. lime- or loam-cast  
• Devilling the surface; at strong sucking ground: prime with deflagration-stop



Applying straw plates

- 2 • After putting on diffusion-open armouring-mortar stick straw plates all-over and closely joined on existing walls/ceilings with toothed eave all-over  
• At this, the adhesive mortar can be applied on the wall area or on the plate  
• For ceiling: additional securing of the plates by screws with plate washers (minimum distance of mounting points: 20mm to the edge)  
• Linings should stay free of adhesive mortar  
• Align the plates and press plane with entire palm of the hand  
• Place the plates in bond (at least 30 cm offset) and interlock in room corners ATTENTION: Avoid cross joints!



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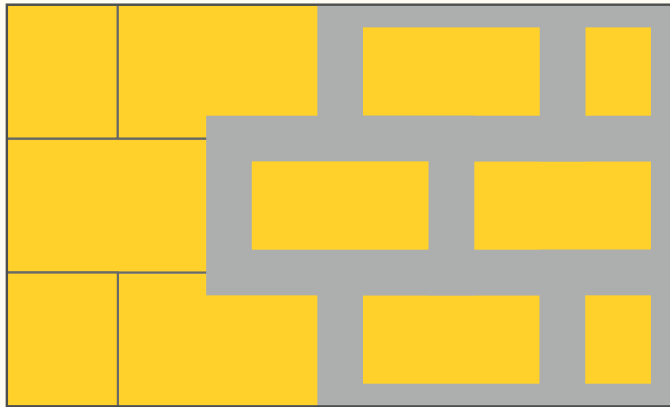
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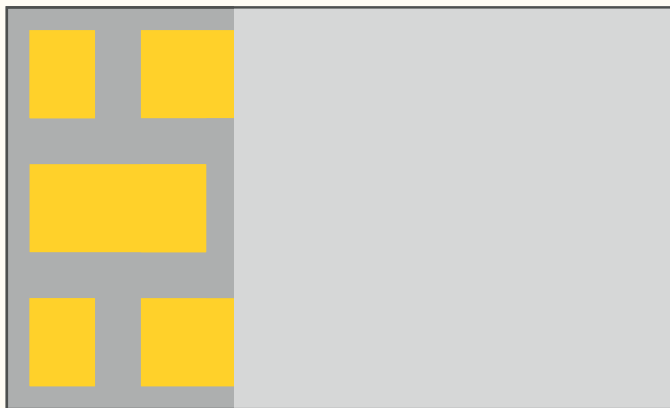


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Armouring

- ③
- armoring is recommended (material: glass fibre/ flax web)
  - filling in adhesive mortar all-over
  - min. 12 hours hardening time – depending on temperature and humidity



Applying coating

- ④
- possibly final coating with thin-layered diffusion-open cast (lime, loam, etc.)
  - recommendation:
    - fitting of edge protection at stressed corners
    - Diffusion-dense final coatings (e.g. coats of paint or dispersion, wallpapers, casts) should NOT be used



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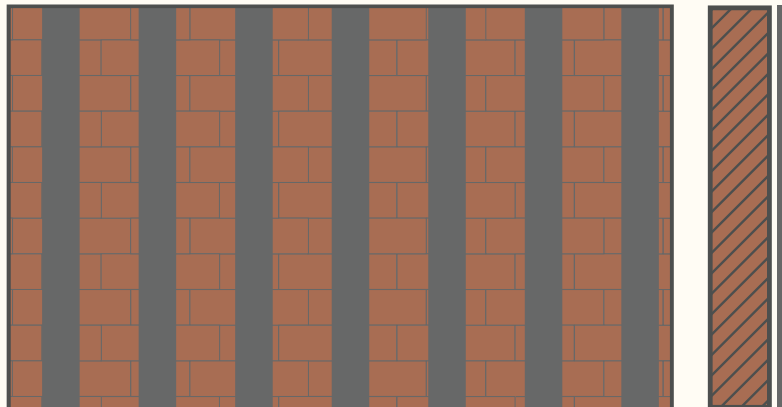
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# Processing instructions with substructure

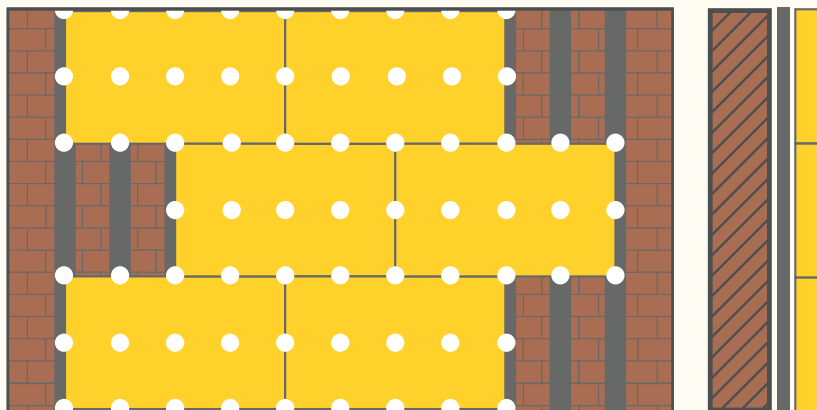
## strawplate light



Ground and substructure

Stand space  
max. 30 cm

- Setting up the substructure by using standard technology for drywalls
  - stand space amounts max. 30 cm (while planking walls, ceilings and sloping roofs)



Installation of the strawplates

- Installing a circulating expansion joint ( ceiling, wall, floor ) of 5 – 10 mm, filling it with suitable material (e.g. darning hemp, cork,...)
  - Putting the plates in a composite, in that process vertical joints should not stand on top of each other
  - If panel joints end in the space between the the stands, put a wood strip behind the joint and screw it together
  - Mounting the straw plates with screws at 15 mounting points. (material: corrosion-free mounting material for damp rooms, galvanized wood screws)
  - At horizontal ceilings and sloping roofs use screws and washers at 15 mounting points
  - The screws should be flush with the surface of the plates



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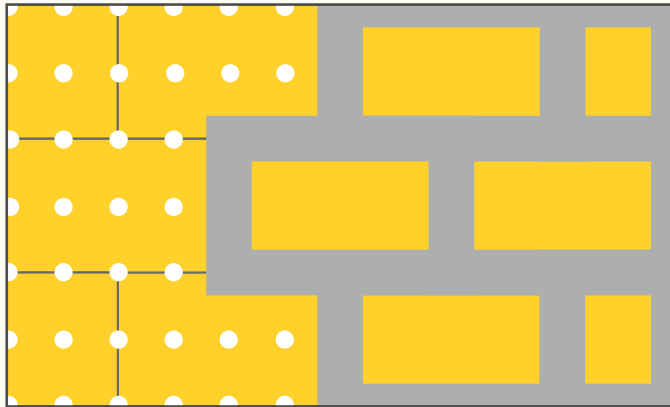
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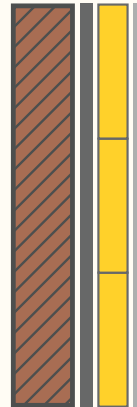
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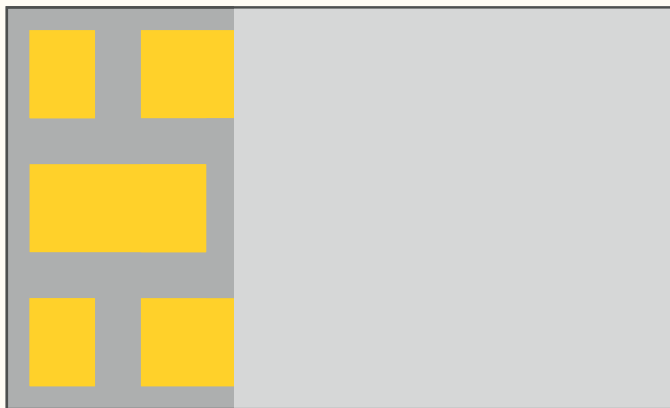
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