

GREENPANEL[®]

The Lightweight Panel



Technical information

Maximum resistance

Minimum weight

Greenpanel is a lightweight construction panel which serves as an alternative for solid, heavy panels such as MDF and plywood. By using Greenpanel you reduce the amount of material needed which gives it ecological benefits.

This revolutionary board is made up of two thin HDF faces and the interior is also made of thin HDF. Its interior actually comprises 3mm HDF arrayed in a gridlike system.

The panel is highly resistant with enhanced stability, making it especially suitable for all applications requiring a combination of high resistance, low weight and a high degree of stability.

Applications

- Furniture
- Worktops
- Tabletops
- Doors
- Kitchen worktops
- Wall panels and ceilings
- Architecture and design
- Fairs and events
- Interior decoration
- Exhibition floors



Main advantages

- High resistance / Structural stability
- Low weight / Grid structure
- High degree of thickness / Enhanced volume
- Low formaldehyde content / Classification E-1
- Environmentally friendly / Less raw material
- Easily machined / Use of standard machines
- Multiple applications / Easy to adapt



Processing Greenpanel

Edge-banding

To get a nice finish or add properties to Greenpanel you could use edge-band.
The edge-band should have a minimal thickness of 2mm.
Greenpanel can be edge-banded normally to a thickness of 38mm. Above 38 mm it is possible but this will need a fine tuning of your edge-banding machine.
At a thickness of 60mm and above an support-edge is advised.



Finishes

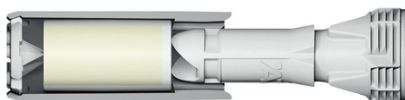
Multiple finishes can be applied to Greenpanel:

- Lacquering
- Painting
- Coating with Finish Foil, HPL, PVC or veneering

	Veneer	HPL
Temperature	90° C	90° C
Pressing-time	2 Minutes	2 Minutes
Pressure	Max 0,5 KG / cm2	Max 0,5 KG / cm2
Amount of adhesive	100g/m2	80g/m2

Fittings

Greenpanel is compatible with any type of standard fittings on the market.
You can combine them with screws and adhesive runners.



Aerofix 100
32-50mm Häfele



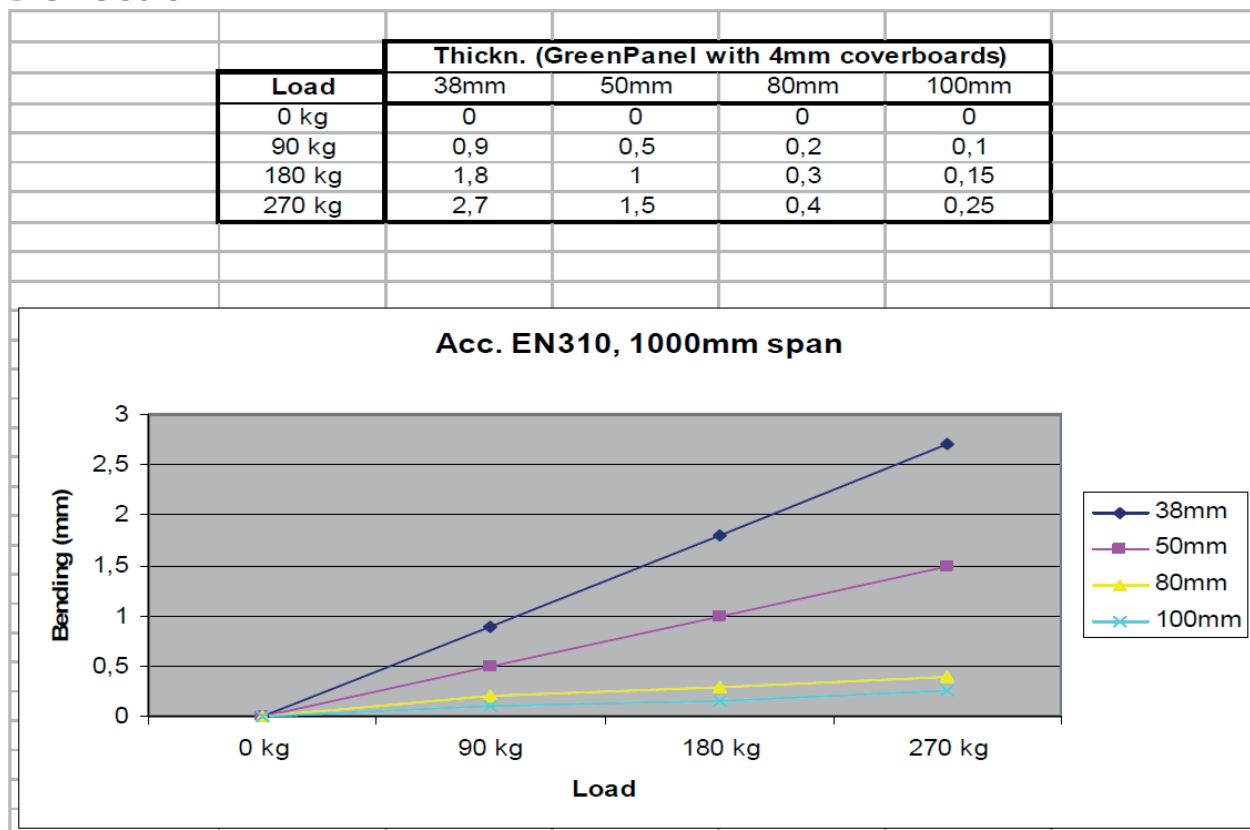
Varianta
3-5mm Häfele

Product range

Greenpanel is available in various versions:

- High Density Fibreboard (HDF)
- HDF Negro
- HDF Fire retardant
- HDF Moisture resistant

Deflection



TESTS	PROPERTIES	THICKNESS							UNITS
		19	28	38	50	60	80	100	mm
EN 323	DENSITY (INDICATIVE DATA)	400	320	260	220	200	175	160	kg/m3
EN 319	INTERNAL BOND				0.15				N/mm2
EN 310	BENDING STRENGTH	11	10	10	7	7	5	5	N/mm2
EN 310	MODULUS OF ELASTICITY	1100	1000	1000	900	900	700	700	N/mm2
EN 311	SURFACE TENSION				0.8				N/mm2
EN 322	MOISTURE				>150				%
EN 382-1	SURFACE ABSORPTION (BOTH FACES)				7+/-3				mm
ISO 3340	SILICA CONTENTS				≤ 0.05				% weight
EN 120	FORMALDEHYDE CONTENTS CLASS E1				≤8				mg/100g

tolerance in nominal dimensions

TESTS	PROPERTIES	THICKNESS							UNITS
EN 324-1	THICKNESS				+/-0.5				mm
EN 324-1	LENGTH AND WIDTH				+/- 2 mm/m (max +/- 5 mm)				mm/m
EN 324-2	SQUARENESS				+/-2				mm/m
EN 324-2	EDGE STRAIGHTNESS				+/-1,5				mm/m

data table (testing méthod according to standard din 68874-1)

THICKNESS	COMPOSITION	DEFORMATION / DEFLECTION		
50 mm	4+42+4 mm	5 min.	14 days	28 days
50 mm	4+42+4 mm	1.1 mm	1.7 mm	1.8 mm

Notes: Distance between stands: 975 mm. Applied load: 150 Kg /m2. Maximum deflection accepted by the standard 9.75 mm

standard dimensions (mm)

1220 x 2440
1220 x 3050
2100 x 2850

Other properties, sizes or thicknesses: upon request

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Teugseweg 12

7418 AM Deventer The Netherlands

P +31 (0)570 502929

E info@greenpanel.nl

W greenpanel.nl



The mark of
responsible forestry

