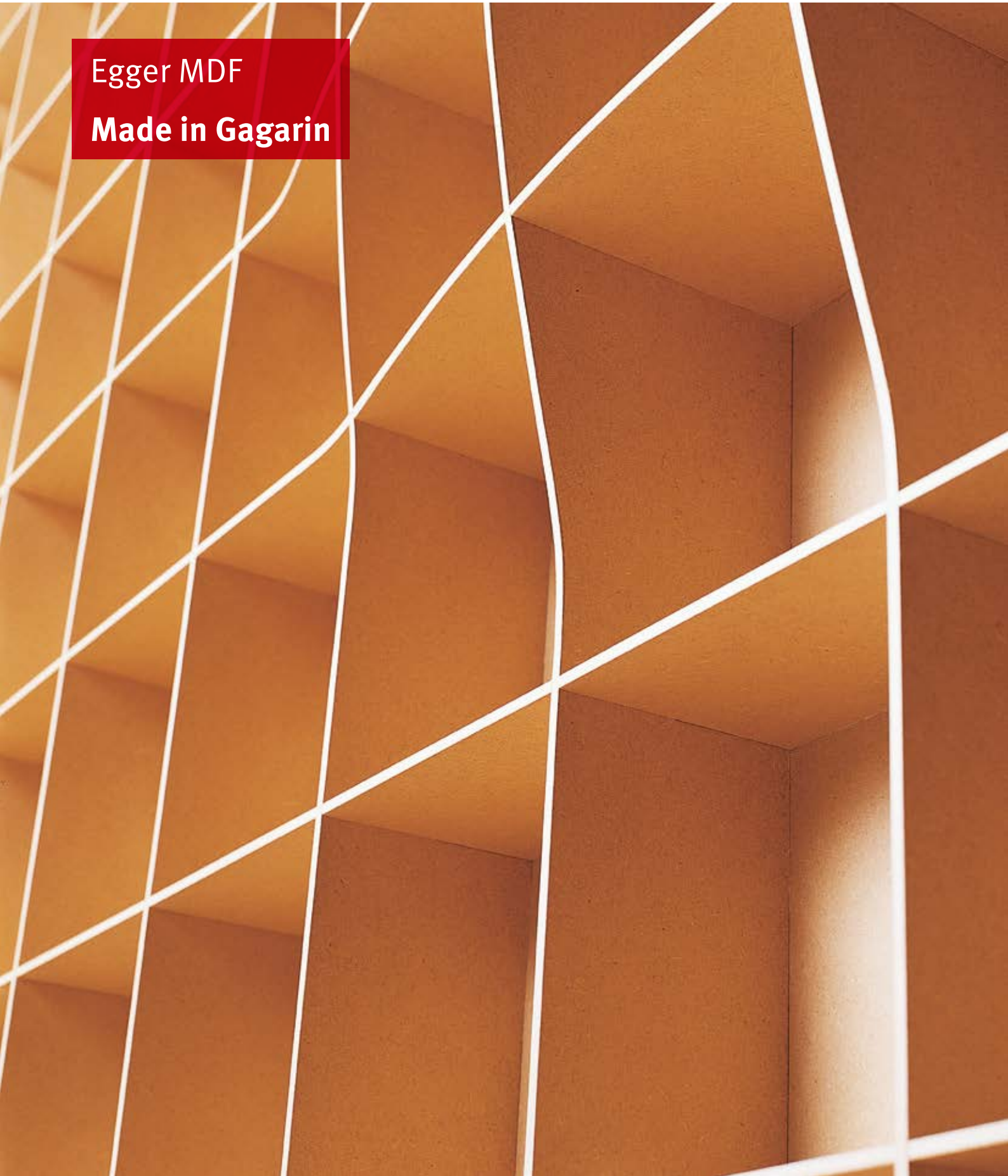
MORE FROM WOOD.

EGGER

Egger MDF

Made in Gagarin



2016 – Start of the MDF production line in Gagarin/Russia

EGGER Group continuously makes significant investments in expansion and modernization of its Russian plants. In spring 2016, an ultra-modern MDF production line, intended for manufacturing of wood-based panels for distribution, furniture industry and flooring production, was launched as part of the second construction stage of EGGER plant in Gagarin.

- In spring 2016, the successful launch of the MDF production line took place, and the first MDF-board was produced.
- ContiRoll Siempelkamp – the most up-to-date press in the whole of the EGGER Group, has been installed on the production line with a capacity up to 600.000 m^3 per year.
- Range of thickness of the produced MDF boards – from 6 to 38 mm with a large variation of sizes for local and export markets.

EGGER MDF

EGGER MDF are medium-density fibreboards made by dry pressing of fine wood chips at high pressure and temperature. MDF boards with high density of the face layers are used for furniture and interior fittings, both laminated and raw.

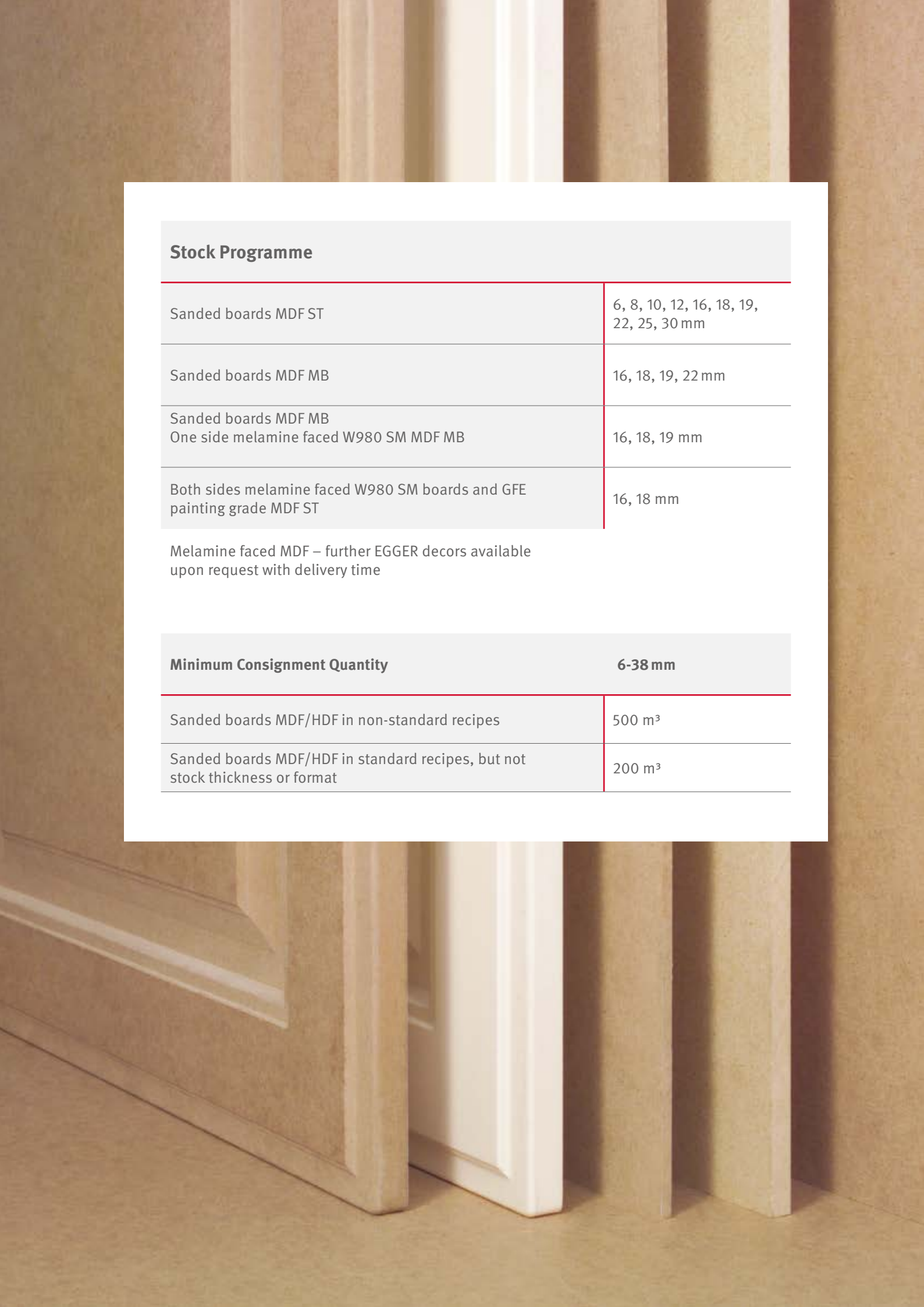
Compared to many other wood-based materials, MDF has a higher bending strength, a higher perpendicular tensile strength and excellent screw holding properties. The mechanical load bearing capacity and resistance of MDF boards are higher than those of simple chipboards. Better values are also obtained on swell behavior. MDF is characterized by mechanical, technological and physical properties that are comparable with those of solid wood.

Characteristics

- Excellent profiling possibilities
- High edge strength
- Optimal density profile
- Excellent elastomechanical properties
- Even fibre structure
- Extra fine surface
- High load-bearing strength
- Low swelling behaviour
- GOST certification according to EN 622-5

EGGER plant in Gagarin produces the following types of MDF / HDF boards

- MDF ST boards for furniture construction, interior doors, wall panels, interior design components (see Technical Data Sheet, p 8).
- MDF MB boards for furniture production and interior design, requiring deep 3D milling, are used for further vacuum membrane pressure, coating and painting (see Technical Data Sheet, p 10).
- HDF ST boards for production of flooring
- Special recipes of MDF/HDF boards (boards for powder coating, moisture-resistant boards, low formaldehyde boards, flame retardent boards etc.) are available upon request
- Standard board size: 2800 x 2070 mm
- Special sizes are available upon request



Stock Programme

Sanded boards MDF ST	6, 8, 10, 12, 16, 18, 19, 22, 25, 30 mm
Sanded boards MDF MB	16, 18, 19, 22 mm
Sanded boards MDF MB One side melamine faced W980 SM MDF MB	16, 18, 19 mm
Both sides melamine faced W980 SM boards and GFE painting grade MDF ST	16, 18 mm

Melamine faced MDF – further EGGER decors available upon request with delivery time

Minimum Consignment Quantity	**6-38 mm**
Sanded boards MDF/HDF in non-standard recipes	500 m³
Sanded boards MDF/HDF in standard recipes, but not stock thickness or format	200 m³

Storage Recommendations

Correct storage and protective measures during transportation are essential for further problem-free processing. The following straight-forward principles should generally be observed:

- MDF and HDF boards are to be stored in clean rooms, horizontally in stacks not higher than 5.5 m, consisting of piles and pallets, divided by separating bars at least 80 mm wide and thick, and with length at least equal to the board width.
- The separating bars are laid across the boards in same vertical planes. The separators must be laid with max. 600 mm intervals. The distance between the end separators and the edges must not exceed 250 mm. Pallet stacking must exclude shift of boards and their warping.
- It is advisable to cover the corners of stacks facing the track of the loaders at the warehouse with special metal protection strips of signal colors and up to 1 m height.
- The storage temperature must be at least 5°C, and relative air humidity must not exceed 65%.
- Laminated and raw MDF and HDF boards have to be protected from direct sunlight and UV rays, as well as from heat.
- Time of board storage at the warehouse must not be more than 1 year. Storage time can be shortened, in case of the product's loss of quality, warping. For example, it is desirable not to store boards, less than 8 mm thick, longer than 6 months.
- Storage of materials must comply with fire safety regulations. The stored products must not block access to fire hydrants and emergency exits. A minimum allowed width of passage must be observed.

ATTENTION!
Wrong storage can lead to change of original technical features.

Technical Datasheet
EGGER MDF-ST E1

Recipe: 500

Application: for use in dry conditions, mostly for furniture production and interior design.
Very even surface, good elastomechanical properties of the board.

The board is made in compliance with GOST 32274-2013 (according to EN 622-5)

Mechanical values Board mean values	Unit	Board thickness				
	[mm]	›6.0–9	›9-12	›12-19	›19-30	›30-40
Density, GOST 10634-88	[kg/m³]	plant specific				
Tension strength, GOST 10636-90	[MPa]	›0.65	›0.60	›0.55	›0.55	›0.50
Bending strength, GOST 10635-88	[MPa]	›23	›22	›20	›18	›17
Module of elasticity, GOST 10635-88	[MPa]	›2700	›2500	›2200	›2100	›1900
Swelling in thickness 24h, GOST 10634-88	[%]	‹17	‹15	‹12	‹10	‹8
Tear strength, GOST 23324-09	[MPa]	›1.0				
Screw withdrawal surface, GOST 10637-10	[N/mm]	60				
Screw withdrawal edge, GOST 10637-10	[N/mm]	40				
Sand content	[%]	≤ 0.02				
Moisture upon delivery, GOST 10634-88	[%]	6±2				
Surface absorbtion	[mm]	-				
Formaldehyde content, GOST 27678-88	[mg/100g]	8				

General Tolerances	Unit	Board thickness				
	[mm]	›6.0–9	›9-12	›12-19	›19-30	›30-40
Length tolerance	[mm]	±2.0 mm/m, maximum ±5.0				
Width tolerance	[mm]	±2.0 mm/m, maximum ±5.0				
Squareness	[mm/m]	≤ 2.0				
Edge straightness	[mm/m]	≤ 1.5				
Thickness tolerance	[mm]	±0.2	±0.2	±0.2	±0.3	±0.3
Standard sanding		K150				

MDF HDF

MDF ST

MDF ST GFE

MDF ST MEL

Technical Datasheet
EGGER MDF-MB E1

Recipe: 605

Application area: for use in dry conditions, mostly in furniture production and interior design, for deep milling.

The board is made in compliance with GOST 32687-2014 (according to EN 622-5)

Mechanical values Board mean values	**Unit**	**Board thickness**		
	[mm]	›12-19	›19-30	›30-40
Density, GOST 10634-88	[kg/m³]	plant specific		
Tension strength, GOST 10636-90	[MPa]	≥ 0.85	≥ 0.80	≥ 0.75
Bending strength, GOST 10635-88	[MPa]	≥ 35	≥ 31	≥ 26
Module of elasticity, GOST 10635-88	[MPa]	≥ 3200	≥ 3100	≥ 2900
Swelling in thickness 24h, GOST 10634-88	[%]	≤ 10	≤ 8	≤ 7
Tear strength, GOST 23324-09	[MPa]	≥ 1.2		
Screw withdrawal surface, GOST 10637-10	[N/mm]	60		
Screw withdrawal edge, GOST 10637-10	[N/mm]	40		
Sand content	[%]	≤ 0.02		
Moisture upon delivery, GOST 10634-88	[%]	6±2		
Surface absorbtion	[mm]	-		
Formaldehyde content, GOST 27678-88	[mg/100g]	8		

General Tolerances	**Unit**	**Board thickness**		
	[mm]	›6.0–9	›9-12	›12-19
Length tolerance	[mm]	±2.0 mm/m, maximum ±5.0		
Width tolerance	[mm]	±2.0 mm/m, maximum ±5.0		
Squareness	[mm/m]	≤ 2.0		
Edge straightness	[mm/m]	≤ 1.5		
Thickness tolerance	[mm]	±0.2	Thickness tolerance	[mm]
Standard sanding		K180		

MDF MB

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