Technical data sheet

MDF ECS E1 CARB2/TSCA ST CE (Rec. 500)
MDF EAC E1 CARB2/TSCA ST CE (Rec. 501)

ECS (Egger Controlled Sources): Made from certified wood and controlled sources, suitable for PEFC certified products.
EAC (Egger Audit Controlled): Made from certified wood and controlled sources, suitable for FSC®-certified products.

Certification statement (claim) on the sales documents is only on customer's request and according to availability.

Board type in line with EN 622-5

Mechanical properties Board mean values	Unit	Board thickness				
	[mm]	>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Density EN 323	[kg/m³]	plant-specific				
Internal bond EN 319	[N/mm²]	0.65	0.60	0.55	0.55	0.50
Bending strength EN 310	[N/mm²]	23.0	22.0	20.0	18.0	17.0
Modulus of elasticity EN 310	[N/mm²]	2.700	2.500	2.200	2.100	1.900
Swelling 24h EN 317	[%]	17.0	15.0	10.0	10.0	8.0
Surface soundness EN 311	[N/mm²]	0.80				
Screw hold surface	[N]	0	0	1.080	1.080	1.080
Screw hold edge	[N]	0	0	900	810	750
Sand content	[%]	0.02				
Moisture content * EN 322	[%]	4 - 8				
Formaldehyde emission class**		E1, CARB 2, TSCA				

General tolerances	Unit	Board thickness				
	[mm]	>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Length and width tolerance EN 324	[mm]	±2.0 mm/m, max. ±5.0				
Squareness EN 324	[mm/m]	<=2.0				
Edge straightness tolerance EN 324	[mm/m]	<=1.5				
Thickness tolerance EN 324	[mm]	±0.3				
Standard sanding		K150				

Building physical properties	Unit	Board thickness				
	[mm]	>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 40
Fire behaviour category						
EN 13986 (>9 mm) and density >= 600 kg/m³		D-s2, d0				
Water vapour diffusion resistance value						
			μ moist	μ dry		
Mean density 600 kg/m³			12	20		
Mean density 800 kg/m³			20	30		
Thermal conductivity EN 13986						
Mean density 600 kg/m³	[W/(m*K)]	0.10				
Mean density 800 kg/m³		0.14				
Air sound insulation EN 13986						
EN 13986		R =13 x lg(mA) + 14 (mA = board surface weight [kg/m²])				
Sound absorption EN 13986						
Frequency range						
250 Hz to 500 Hz		0.1				
1000 Hz to 2000 Hz		0.2				
Biological durability EN 13986						
EN 335-3		Hazard category 1 (no earth contact , dry 20°C/65% relative humidity)				
PCP content EN 13986						
EN 13986	[ppm]	<5				

* On delivery

** The product complies with the following emission class (es):
E1: According to the “Regulation on the Prohibition of Chemicals (ChemVerbotsV)” from October 1993 along with the “Regulation on the classification and external supervision of wood-based panels regarding formaldehyde emission (DIBt - Guideline 100)" dated June 1994, unfaced MDF must not exceed a perforator value (photometric) of 8 mg HCHO/100g oven dry board at a moisture content of 6.5 %. The rolling average of EN ISO 12460-5 values over a period of year is max. 7.0 mg HCHO/100g panel mass.

CARB 2: According to the California Air Resources Board (CARB) „Final Regulation Order AIRBORNE TOXIC CONTROL MEASURE TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS“, California Code of Regulations 93120-93120.12, title 17, Artikel 93120.2 (a) - Phase 2 - using the chamber method according to ASTM E 1333, MDF may not exceed 0.11 ppm and Thin-MDF 0.13 ppm.

TSCA: In line with US EPA 40 CFR Part 770 “Formaldehyde Emission Standards for Composite Wood Products”, Title VI to the Toxic Substances Control Act (TSCA) - ‘TSCA Title VI’, para 40 CFR § 770.10 (b), MDF may not exceed 0.11 ppm and Thin-MDF 0.13 ppm according to ASTM E1333 using the chamber method.

Provisional note:
This technical data sheet has been carefully drawn up to the best of our knowledge. We accept no liability for any mistakes, errors in standards or printing errors. In addition, technical modifications can result from the continuous further development, as well as from changes in standards and documents originating from statutory bodies. The contents of this technical leaflet should therefore not be considered as instructions for use or as legally binding.