

# TECHNICAL DATA SHEET

## MELAMINE FACED TSS

### PARTICLE BOARD PANELS

Particle board of wood for interior use (type P2 in accordance with standard EN 312). On the top side, the product disposes of decorative melamine through a pressing process.  
Available on request: FSC-COC, water repellent and fire resistant.



### TECHNICAL CHARACTERISTICS

RESISTANCE TO ABRASION	EN 14323	Printed Class 1, Unicolour Class 3A
RESISTANCE TO WATER STEAM	EN 14323	≥ Level 4
RESISTANCE TO SCRATCHES	EN 14323	≥ 1,5N
RESISTANCE TO STAINS	EN 14323	Group 1 & 2, class ≥ 4
RESISTANCE TO LIGHT	EN 14323	≥ 6 blue wool scale
RESISTANCE TO CRACKS	EN 14323	Class ≥ 3
RESISTANCE TO DRY HEAT	EN 12722	Class B
TENDENCY TO RETAIN DIRT	UNI 9300	Level ≥ 4

### PARTICLE BOARD TECHNICAL CHARACTERISTICS

Composition	Wood	trunks, stems, branches, logs, billets, root collars, fast-growing trees and shrubs, residues from sawmilling, veneer cutting, joinery and carpentry of broad-leaved and coniferous species.		78 - 88%			
	Adhesive	Urea - formaldehyde glue		7 - 9%			
	Additives	Water		5 - 13%			
		Ammonium sulfate		0,2%			
Paraffin		Traces					
Density	EN 323	500 - 700 Kg/m <sup>3</sup>					
Moisture content	EN 322	5 - 13%					
Formaldehyde content	EN 120	Class E1		<8mg/100g			
	ASTM E1333-96	CARB (2)		<0,09ppm			
Dimensional tolerances	Thickness vs. nominal value		≤15mm +/-0,2mm		>15mm +/-0,3mm		
	Thickness within same panel		+/-0,3mm				
	Length and width		+/-5mm				
Planarity (both sides melamine faced ≥ 15mm)	EN 14323	≤2mm/m					
Surface defects	EN 14323	Spots: ≤2 mm <sup>2</sup> /m <sup>2</sup>		Length: ≤20 mm/m <sup>2</sup>			
Fire behavior standard grade	EN 13986	D-s2, d0					
Requirements	Std.	≥8mm ≤13mm	>13mm ≤20mm	>20mm ≤25mm	>25mm ≤32mm	>32mm ≤40mm	>40mm
Internal bonding N/mm <sup>2</sup>	EN 319	> 0,40	> 0,35	> 0,30	> 0,25	> 0,20	> 0,20
Bending strength N/mm <sup>2</sup>	EN 310	> 12	> 11	> 10,5	> 9,5	> 8,5	> 7
Elasticity modulus N/mm <sup>2</sup>	EN 310	> 1800	> 1600	> 1500	> 1350	> 1200	> 1050
Surface delamination N/mm <sup>2</sup>	EN 311	> 0,8	> 0,8	> 0,8	> 0,8	> 0,8	> 0,8

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### ON REQUEST

#### WATER REPELLENT MELAMINE FACED PARTICLE BOARD

Same properties as the standard panel, but with water resistance:

Requirements	Standard	≥8mm <13mm	>13mm <20mm	>20mm <25mm	>25mm <32mm	>32mm <40mm	>40mm
Swelling H <sub>2</sub> O 24hr (*) V100	EN317	< 11%	< 10%	< 10%	< 9%	< 9%	< 9%
Int. bond. after H <sub>2</sub> O N/mm <sup>2</sup> (*) V100	EN1087	> 0,15	> 0,14	> 0,12	> 0,11	> 0,10	> 0,09

#### FIRE RESISTANT MELAMINE FACED PARTICLE BOARD

B-s2, d0 EN 13986 EN13501-1

Class B ASTM E84 NFPA 101

#### FSC CERTIFIED MELAMINE FACED PARTICLE BOARD

FSC mix 75% ICILA-COC-000343



### STORAGE AND HANDLING

Goods must be stored in a dry and ventilated place (relative air humidity 35%-65%). Do not store with inflammable substances. If exposed to direct sunlight, the laminate may deteriorate. Stacks should be stored correctly, at a manageable height to ensure stability. To avoid warping or damp stains, place the panels on pallets with adequate spaces. When handling the laminates, use suction pads or gloves. Machinery and equipment must be fitted with suitable aspiration systems.



### CLEANING & MAINTENANCE

The melamine surfaces are the most resistant among those used in the furniture field. For cleaning, it is preferable to choose a detergent for domestic use. It is recommended that you avoid spraying products directly onto the surface, as this may leave stains and marks; instead, it is preferable to apply the detergent product on a soft damp cloth, clean the surface and then rinse it. Avoid using abrasive products, bleach or highly chlorinated products or acids.