## **TECHNICAL DATA SHEET**









# **COMPOSITION**

Medium density fiberboard (MDF) base board coated with decorative paper and lacquered with UV treatment on its front face.

# RECOMMENDED APPLICATIONS

Components for furniture and decoration.

# **BASE BOARD CHARASTERISTICS**

## **DIMENSIONAL TOLERANCES**

	PROPERTY	VALUE	STANDARD
	Length and width	± 2 mm/m	EN 324-1
-	Thickness	± 0,3 mm	EN 324-1
	Squaring	± 2 mm/m	EN 324-2

## **PHYSICAL & MECHANICAL PROPERTIES**

PROPERTY		THICKNESS (mm)			STANDARD
	PROFERIT	10-12	16-18	19-25	OTANDAND
	Density (kg/m³)	800±30	770±30	740±30	EN 323
	Internal bond (N/mm²) – min.	1,05	1,00	1,00	EN 319
	Thickness swelling 24h (%) – min.	15	12	10	EN 317
	Bending strength (N/mm²) – min.	22	20	18	EN 310
	Modulus of elasticity (N/mm²) – min.	2500	2200	2100	EN 310
	Moisture content (%) – range	4 – 11			EN 322
(5/02)	Sand content (%) – max.	0,05			ISO 3340
250	Formaldehyde standard class E1 (mg/100g) – max. (CARB P2 available upon request)	8			EN 120
	Fire performance (classification)	D-s2, d0			EN 13501-1









## **COATING CHARACTERISTICS**

### PHYSICAL & MECHANICAL PROPERTIES

	PROPERTY	LUXE	ZENIT	STANDARD
	Stain resistance	Grade 5	Grade 5	EN 14323:04
*	Resistance to cold liquids	Grade 5	Grade 5	EN 12720:09
	Cross cut test (adherence)	Grade 1	Grade 1	ISO 2409 :07
	Crack resistance	Grade 5	Grade 5	EN 14323:04
	Cold check (40 cycles:1h 60 °C,1h –20°C,15' room tem.)	No damage	No damage	AIDIMA
	Light fastness	Conforming	Conforming	EN 14323:04
	Dry heat resistance	Grade 5	Grade 5	EN 12722:09
	Damp heat resistance	Clase 5	Clase 5	EN 12721:09
	Scratch resistance	7,5 N	5,0 N	ISO 1518-1*
	Abrasion resistance	2 (200/225)	3B (700/850)	EN 14323:04
	Resistance to water steam	Grade 4	Grade 5	EN 14323:04
•	Resistance to impact stress (large diameter steel ball)	110 cm	200 cm	EN 14323:04
	Measures tolerance (edged parts)	± 0,5 mm	± 0,5 mm	ALVIC
	Antibacterial efficacy (24 hours)	100%	In progress	ASTM E2180:07 JIS Z2801:06
	Warping tolerance	2 mm / 1 m	2 mm / 1 m	ALVIC
	Plain color tolerance	ΔE ≤ 0,70	ΔE ≤ 0,70	CIELab D65/10°
	Gloss (60°)	90 ± 5 GU	4 ± 1 GU	ISO 2813

(\*) Maximum load that does not produce visible mark on the surface with a tungsten carbide tip of 0,75 mm diameter.

#### **EVALUATION OF SURFACE DEFECTS**

To be visible under the above conditions not be considered admissible defects (bigger than 1 mm²) as follows:

- 1. Viewing distance: 70 cm.
- 2. Position of workpiece: vertical (installation conditions).
- 3. Lighting: diffused light of white fluorescent lamps.
- 4. Observation time: maximum 20 seconds.

### **QUALITY STANDARD**

The supplying conditions for the panels are:

- 1. 70% flawless panels / 30% panels with maximum 3 defects.
- 2. For a more convenient use, these defects are marked.

# **COATED PANEL THICKNESS**

The coatings add 0,20 mm to the base board nominal thickness.

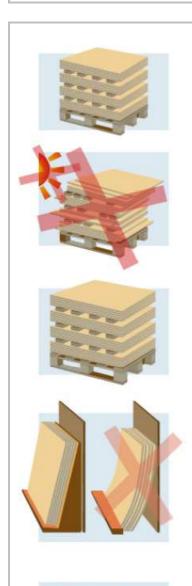








#### **USE RECOMMENDATIONS**



### **STORAGE**

The panels should be checked upon receipt so that any eventual issue can be communicated as soon as possible. Avoid exposure of the product to sunlight (UV radiation) and other sources of heat. Store in a ventilated area. Use a FIFO inventory management system to avoid the mixing of products of very different dates of production, which, with the slight changes in the qualities of coatings, might lead to visible differences between them.

The recommended range of environmental conditions of storage and use is as follows:

Temperature: 10°C - 40°C

Humidity: 30% - 70%

The boards should be checked upon receipt so that any eventual issue can be communicated as soon as possible.

#### HORIZONTAL STORAGE

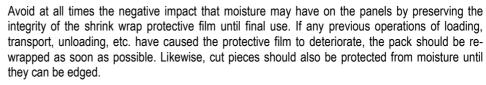
The panels must not be placed directly on the ground. Whenever possible, the storage support media supplied with each pack should be used and placed in the same position in order to maintain a uniform and level height and to prevent deformation of the boards. For the length of 2750 mm at least 4 supports should be used distributed uniformly.

When stacking multiple packs, up to a recommended maximum of four, the supports of different packs must be aligned vertically in order to transfer the weight to the lower layers without deforming the panels. To protect the surface of the panels, use upper and lower panels protections.

#### **VERTICAL STORAGE**

Although it should be avoided whenever possible, a limited number of boards may be stored vertically in racks with a support surface for the panels, so as to prevent warpage, and a minimum inclination of 10°.

### **HANDLING & TRANSPORT**



In manual handling of the boards protective gloves and safety shoes must be worn in order to avoid injury. During machining of the panels, appropriate suction systems must be used and, if necessary, protective masks to prevent breathing in of dust generated from the panel.

The panels must not be dragged on any surface that may cause deterioration of any of their faces. During all handling and machining it is essential to prevent particles, machined material and protective film residues or any other dirt from being caught between the pieces, since, with the cumulative weight of several units, visible marks may be produced on the lacquered surface. This precaution is especially critical for high gloss coatings.











#### **USE RECOMMENDATIONS**

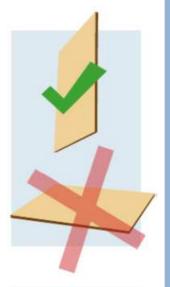


## **CLEANING**

The protective film of the panels must be removed once installation is complete or a maximum of 6 months after delivery, in order to ensure that no adhesive residue remains on the surface.

For cleaning, it is recommended to use a nonabrasive cloth moistened with soap and water and immediate subsequent drying.

Under no circumstances must harsh chemicals be used such as solvents, alcohol, ammonia, etc.



### **APPLICATIONS**

The characteristics of the product enable it to be used as non-work surface (vertical surface).

The information contained in this document does not relieve the purchaser, transformer, assembler and/or final user of the obligation to check the compatibility of the material with the planned use and installation.



# **MACHINING RECOMMENDATIONS**

The panel can be cut with any normal cutting disc, provided that it is adequately sharpened. It is recommended to use discs with an angle of attack that is not too aggressive in order to avoid splintering. An example of a suitable disc would be the Freud LU3F with -3° back-slanted teeth.

As guidance, for squaring, the LU3F model can be used with disc diameter = 300 mm, plate width = 3.2 mm, body width = 2.2, axle = 30 mm and number of teeth = 96. For edging, it is advisable to use a diamond cutter, the more teeth, the better the result. With a Homag edger, two suitable options are as follows:

Leuco Leucodia Power-Tec Model CM 250x14x80 Z = 18+18 (good result)

Leuco Leucodia Power-Tec Model S 250x14x80 Z = 24 +12+6 (optimal result)

The choice of one or the other depends on the durability the user gets from each.



#### **UPDATES**

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