

# Technical Data Sheet

Laminated Flooring Freedom

Class 32 according to DIN EN 13329



# CLASSEN.

Profile:

## ML2.0

by CLASSEN

Core board:

Classenboard HDF

Dimensions:

1285 x 158 x 10 mm

Quantity / Weight per box (PU):


8 pieces = 1.624 m<sup>2</sup> / approx. 15 kg

Quantity / Weight per pallet:

50 PU = 81.200 m<sup>2</sup> / approx. 750 kg

Characteristics	Test Method	Requirements	
<b>General Requirements</b>			
Geometrical characteristics	EN 13329	Length: ± 0.5 mm Width: ± 0.1 mm	
Thickness	EN 13329	∅ ≤ 0.5 mm	
Squareness	EN 13329	≤ 0.20 mm	
Straightness	EN 13329	≤ 0.30 mm/m	
Flatness of the elements	EN 13329	<b>Width:</b> concave ≤ 0.15% convex ≤ 0.20% <b>Length:</b> concave ≤ 0.50% convex ≤ 1.00%	
Openings	EN 13329	∅ ≤ 0.15 mm max. ≤ 0.20 mm	
Height difference	EN 13329	∅ ≤ 0.10 mm max. ≤ 0.15 mm	
Residual indentation	 EN ISO 24343-1	≤ 0.05 mm	
Light fastness	 EN ISO 4892-2	grey scale level ≥ 4	
<b>Classification Requirements</b>			
Wear resistance	 EN 13329	≥ 4000 cycles ( AC4 )	
Impact resistance	 EN 13329	small - diameter ball ≥ 12 N large - diameter ball ≥ 750 mm	
Castor chair resistance	 EN 425	no damage with type W after 25 000 cycles	
Thickness swelling	 EN 13329	≤ 15 %	
Locking strength	 ISO 24334	F <sub>l0.2</sub> ≥ 1.0 kN/m F <sub>s0.2</sub> ≥ 2.0 kN/m	
Movement of a furniture leg	 EN 424	no damage with type 0	
Resistance to staining	 EN 438-2	5 (group 1 and 2), 4 ( group 3)	
Surface soundness	EN 311	≥ 1.25 N/mm <sup>2</sup>	
<b>Essential Characteristics</b>			
Reaction to fire*	 EN 13501-1	C <sub>fl</sub> - s1	
Slip resistance*	 EN 13893	DS	
Electrostatic behavior*	 EN 1815	≤ 2 kV	
Formaldehyde*	 EN 16516	E1	
Formaldehyde-Emission	ASTM D6007	US EPA TSCA Title VI / CARB P 2	
VOC Emissionen	 Décret no 2011-321	A+	
Thermal conductivity*	 EN 12667	≥ 0.75 W/mK	
Thermal resistance*	 EN 12667	R ≤ 0.09 (m <sup>2</sup> K)/W	
<b>Additional requirements</b>			
VOC Emissionen	 	according to eco institute specifications RAL-UZ 176	eco Institute Label Blauer Engel

We guarantee consistency of our decor colours under artificial light of type D50 (CIE D50, ANSI PH 2.30, ISO 3664) and D65 (CIE D65).

\* basic attributes concerning health, safety and energy saving acc.  EN 14041

Our technical data sheets are constantly updated and adapted to the state of the art.  
This edition replaces all previous versions and is valid at the time of writing.

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