

# Technical Data Sheet

Laminated Flooring 833-4 WR

Class 33 according to DIN EN 13329



# CLASSEN.

Profile:

## ML2.0

by CLASSEN

Core board:  
Dimensions:  
Quantity  
Quantity

Classenboard HDF  
1285 x 192 x 8 mm  
9 pieces = 2.22 m<sup>2</sup>  
52 PU = 115.44 m<sup>2</sup>

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	Ø ≤ 0.15 mm max. ≤ 0.20 mm
Height difference	EN 13329	Ø ≤ 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>10.2</sub> ≥ 1.0 kN/m F <sub>50.2</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>s1</sub> - s1
Slip resistance*	 EN 13893	DS
Electrostatic behavior*	 EN 1815	≤ 2 kV
Formaldehyde*	 EN 16516	E1
Formaldehyde-Emissions	ASTM D6007	US EPA TSCA Title VI / CARB P 2
VOC Emissions	 Décret no 2011-321	A+
Thermal conductivity*	 EN 12667	≥ 0.75 W/mK
Thermal resistance*	 EN 12667	R ≤ 0.07 (m <sup>2</sup> K)/W
<b>Additional requirements</b>		
VOC Emissions	 	according to eco institute specifications eco Institute Label
		RAL-UZ 176 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. to **CE** EN14041

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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