

# 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 158 x 8 mm  
11 pieces = 2.233 m<sup>2</sup>  
56 PU = 122.82 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.  
Version 12 / 2020

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