














# Technical Data Sheet




Laminated Flooring Essence  
Class 33 according to DIN EN 13329

Core board:  
Dimensions:  
Quantity / Weight per box (PU):  
Quantity / Weight per pallet:

Classenboard HDF  
1286 x 160 x 12  
8 pieces = 1.646 m<sup>2</sup> / approx. 18 kg  
40 PU = 65.840 m<sup>2</sup> / approx. 720 kg

Characteristics	Test Method	Requirements
<b>General Requirements</b>		
Geometrical characteristics	DIN EN 13329 Annex A	Length: ± 0.5mm Width: ± 0.1mm
Thickness	DIN EN 13329 Annex A	∅ ≤ 0,5mm max. ≤ 0,5 mm
Squareness	DIN EN 13329 Annex A	≤ 0.20 mm
Straightness	DIN EN 13329 Annex A	≤ 0.30 mm/m
Flatness of the elements	DIN EN 13329 Annex A	<b>Width:</b> concave ≤ 0.15% convex ≤ 0.20 % <b>Length:</b> concave ≤ 0.50 % convex ≤ 1.00 %
Openings	DIN EN 13329 Annex B	∅ ≤ 0.15 mm max. ≤ 0.20 mm
Height difference	DIN EN 13329 Annex B	∅ ≤ 0.10 mm max. ≤ 0.15 mm
Residual indentation	 EN ISO 24343-1 : 2012	≤ 0.05 mm
Light fastness	 EN ISO 4892-2:2006/A1:2009	grey scale level ≥ 4
<b>Classification Requirements</b>		
Wear resistance	 EN 13329	IP ≥ 6000 cycles ( AC5 )
Impact resistance	 EN 13329	small - diameter ball ≥ 15 N large - diameter ball ≥ 1000 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	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
Formaldehyde*	 EN 717-1	E1
Thermal resistance*	 EN 12667	R ≤ 0.11 (m <sup>2</sup> K)/W

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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