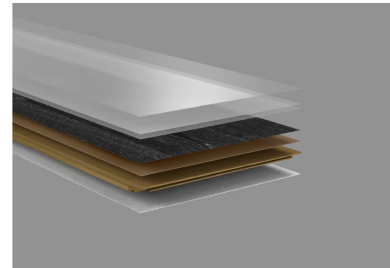


## Total Design Class 33

### Features:

Class 23/33 HPL-laminate flooring intended for heavy domestic and heavy commercial use.  
 Very high resistance against scratches, indentation and wear.  
 Anti-static  
 Fire Class B<sub>f1</sub>-s1  
 Environment labelled  
 Life time triple guarantee in residential use.  
 Commercial guarantee on request.



### Build up:

Surface layer	High Pressure Laminate (HPL) with TitanX™ Advanced.
Core material	High Density Fibre board (HDF)
Backing / Attached underlay	Compact SoundBloc™

### Installation:

Installation	Floating installation
Joint	PerfectFold™

### Classification Requirements, (EN 13329):

Characteristic	Test method	Requirement	Typical result
Abrasion resistance	EN 13329 Annex E	AC 5; ≥ 6000 rev	> 6500 rev
Impact resistance	EN 13329 Annex F	IC 3 Small ball ≥ 15 N Large ball ≥ 1600 mm	> 20 N > 2000 mm
Resistance to staining	EN 438	5 (group 1&2) 4 (group 3)	5 (group 1&2) 4 (group 3)
Resistance to cigarettes burns	EN 438	Class 4	Class 5
Effect of a furniture leg	EN 424	Foot type 0 No change or damage	No change or damage
Effect of a castor chair	EN 425	25000 revs soft wheels No change or damage	No change or damage
Thickness swelling	EN 13329 Annex G	≤ 18 %	≤ 12 %

### General Requirements, (EN 13329):

Characteristic	Test method	Requirement	Typical result
Dimensional stability	EN 13329 Annex C	≤ 0,9 mm	≤ 0,9 mm
Light fastness	EN ISO 105B02	Blue wool scale: ≥ 6	Blue wool scale: ≥ 7
Light fastness	EN ISO 20105A02	Grey scale: ≥ 4	Grey scale: ≥ 5
Static indentation	EN 433	≤ 0,01 mm	0,00 mm
Surface soundness	EN 13329 Annex D	≥ 1,0 N/mm <sup>2</sup>	> 1,4 N/mm <sup>2</sup>



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## Total Design Class 33

### Essential Characteristics, (EN 14041):

Characteristic	Test method	Requirement	Typical result
Reaction to fire	EN 13501-1	National requirements	Class B <sub>fl</sub> -s1
Content of pentachlorophenol	CEN/TR 14823	No content allowed	No content
Formaldehyde emission	EN 717-1	< 0,124 mg/m <sup>3</sup> (E1)	< E1
Slip resistance	EN 13893	Class DS : $\mu \geq 0,30$	DS
Electrical behaviour	EN 1815	< 2,0 kV (Antistatic)	< 2,0 kV
Thermal resistance	EN 12667	Declare R-value	< 0,07 m <sup>2</sup> K/W

### Additional Technical Data:

Characteristic	Test method	Typical result
Impact sound reduction	ISO 717-2	$\Delta L_w$ 17-19 dB
Risk of slipping	www.slipalert.com	$\mu_{dry} = 0,46-0,52$ (Low risk of slipping) $\mu_{wet} = 0,22-0,30$ (Moderate risk of slipping)
Slip resistance	DIN 51130	R9 or R10 see table below
Generic anti-microbial effect (without added preservative)	JIS Z 2801:2000	Reduction of MRSA > 99,98% (24h) Reduction of E Coli > 99,70% (24h) Reduction of H5N1 = 99,99% (16h)
Resistance to micro-scratches	IHD-W-445	Grade 0, $\Delta R' < 10\%$
Staining of rubber tyres	ISO 3865	No discolouration of surface

### Environmental Approvals:

Certificate	Description
Ü-labelled (Germany)	General Construction Material Approval No. Z-156.606-580
A+, VOC-emission (France)	French law on VOC emissions in indoor air. Construction products are labelled from Class A + (very low emissions) to C (high emissions).
IAC GOLD	Indoor Air Comfort Gold certified product fulfilling all governmental and all voluntary VOC and ecolabelling requirements in the EU.
Nordic Ecolabel (Scandinavia)	Nordic Ecolabel Floors (The Swan) Licence 329 001 floors
PEFC	Programme for the Endorsement of Forest Certification schemes
M1 (Finland)	Emission approval for building materials
BASTA (Sweden)	Building material registered in the BASTA-system. The BASTA-system requires minimum or no use of harmful chemicals.
CARB (USA)	HDF compliant with CARB CCR-1793129.2(a) Phase 2



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## Total Design Class 33

### Slip Classification:

Art. No.	Classification	Décor	Texture
70233-1425	R10	Black	Facette
70233-1426	R9	Mocca	Leather
70233-1427	R10	Stylewood	Sculptured wood
70233-1428	R9	Clouds	Naturaltouch matt

### Demographics, Plank & Package:

Product	Length Mm	Width mm	Thickness mm	Quantity Panels/Pack	Quantity m <sup>2</sup>	Weight kg
Slab	1235,5	400,0	9	5	2,471	19,3

### Demographics, Pallets:

Product	Length mm	Width mm	Height mm	Cube m <sup>3</sup>	Quantity Pack/Pallet	Quantity m <sup>2</sup>	Weight kg
Slab	1260	840	870	0,92	30	74,13	578



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