

# Technical specifications

Marmoleum meets the requirements of EN-ISO 24011  
 Marmoleum Acoustic meets the requirements of EN 687  
 Marmoleum Decibel meets the requirements of EN 686



		Marmoleum Real/Fresco 2.0 mm	Marmoleum Real/Fresco/Vivace/ Splash/Terra 2.5 mm	Marmoleum Real/Fresco 3.2 mm	Marmoleum Decibel	Marmoleum Acoustic	
	Total thickness	EN-ISO 24346	2.0 mm	2.5 mm	3.2 mm	3.5 mm	4.0 mm
	Surface finish		Topshield <sup>2</sup>	Topshield <sup>2</sup>	Topshield <sup>2</sup>	Topshield <sup>2</sup>	Topshield <sup>2</sup>
	Domestic use	EN-ISO 10874	Class 23	Class 23	Class 23	Class 23	Class 23
	Commercial use	EN-ISO 10874	Class 32	Class 34	Class 34	Class 33	Class 33
	Light Industrial use	EN-ISO 10874	Class 41	Class 43	Class 43	Class 41	Class 41
	Collection size		29 colours	90 colours	8 colours	14 colours All items available as made to order.	6 colours
	Roll width	EN-ISO 24341	2.00 m	2.00 m	2.00 m	1.90 / 2.00 m	2.00 m
	Roll length	EN-ISO 24341	≤ 33 m	≤ 33 m	≤ 33 m	≤ 33 m	≤ 33 m
	Total weight <i>Typical value</i>	EN-ISO 23997	2300 g/m <sup>2</sup>	2900 g/m <sup>2</sup>	3900 g/m <sup>2</sup>	3100 g/m <sup>2</sup>	4000 g/m <sup>2</sup>
	Residual indentation <i>Typical value</i>	EN-ISO 24343-1	≤ 0.15 mm ~0.07 mm	≤ 0.15 mm ~0.08 mm	≤ 0.15 mm ~0.10 mm	≤ 0.30 mm ~0.20 mm	≤ 0.40 mm ~0.25 mm
	Castor chair continuous use	ISO 4918/ EN 425	Suitable for office chairs with castors				
	Light fastness	EN-ISO 105-B02	Method 3: blue scale minimum 6.				
	Flexibility	EN-ISO 24344	ø 30 mm	ø 40 mm	ø 50 mm	ø 40 mm	ø 60 mm
	Resistance to chemicals	EN-ISO 26987	Resistant to diluted acids, oils, fats and to the conventional solvents. Not resistant to prolonged exposure to alkalis.				
	Bacteriostatic properties*	Marmoleum has natural bacteriostatic properties which are confirmed by independent laboratories, even against the bacteria MRSA.					
	Cigarette resistance	EN 1399	There is no melting of the surface by cigarettes. Marks left on Marmoleum as a result of stubbed-out cigarettes can be removed.				
	Slip resistance	DIN 51130	R9	R9	R9	R9	R9
	Electrical resistance Marmoleum Ohmex	EN 1081	-	1-10 <sup>6</sup> < R1 < 1-10 <sup>8</sup> Ω static dissipative	-	-	-
	Acoustical impact sound reduction	EN-ISO 717-2	≤ 4 dB	≤ 5 dB	≤ 6 dB	≤ 18 dB	≤ 14 dB
	Life Cycle Assessment	LCA is the foundation for securing the lowest environmental impact.					
	<b>Creating better environments</b>						
	CO <sub>2</sub> neutral	Marmoleum 2.0 mm and 2.5 mm are produced CO <sub>2</sub> neutral.**					
	renewable electricity	Marmoleum is manufactured using 100% electricity from renewable sources.					
	natural materials (e.g. linseed oil, jute, tree resin, wood flour, limestone)	Marmoleum is made of 94-98% natural materials. Marmoleum contains PEFC certified wood flour. Marmoleum is free of PVC, PET, synthetic rubber and plasticizers.					
	recycled content	Marmoleum contains recycled content.					
	Application on underfloor heating	yes	yes	yes	yes	yes	

Marmoleum meets the requirements of EN 14041

		EN 14041	0100201_DoP_306	0100201_DoP_306	0100201_DoP_306	0100207_DoP_306	0100206_DoP_306
	Product code	EN 14041	0100201_DoP_306	0100201_DoP_306	0100201_DoP_306	0100207_DoP_306	0100206_DoP_306
	Reaction to fire	EN 13501-1	C <sub>ii</sub> -s1, G, CS	C <sub>ii</sub> -s1, G, CS***	C <sub>ii</sub> -s1, G, CS	C <sub>ii</sub> -s1, G, CS	C <sub>ii</sub> -s1, G, CS
	Slip resistance	EN 13893	μ ≥ 0.30	μ ≥ 0.30	μ ≥ 0.30	μ ≥ 0.30	μ ≥ 0.30
	Body voltage	EN 1815	≤ 2 kV	≤ 2 kV	≤ 2 kV	≤ 2 kV	≤ 2 kV
	Thermal conductivity	EN 12524	0.17 W/m-K	0.17 W/m-K	0.17 W/m-K	0.17 W/m-K	0.17 W/m-K
	Indoor Air Emissions: TVOC at 28 days	EN 16516	< 0,05 mg/m <sup>3</sup>	< 0,05 mg/m <sup>3</sup>	< 0,05 mg/m <sup>3</sup>	< 0,05 mg/m <sup>3</sup>	< 0,05 mg/m <sup>3</sup>
	Content of specific dangerous substances	EN 14041	Compliant, not actively added.	Compliant, not actively added.	Compliant, not actively added.	Compliant, not actively added.	Compliant, not actively added.

\* Marmoleum sheet can be installed nett fit, or with a welding rod in the seam. Both are proven hygienic solutions.

\*\* For verification and details please consult our Marmoleum EPD.

\*\*\* Marmoleum 2.5 mm is available in reaction to fire classification B<sub>ii</sub>-s1, G, CS. Available on request, contact sales support for leadtime.

All Forbo Flooring Systems' sales organisations worldwide have a certified Quality Management System in accordance with ISO 9001.

All Forbo Flooring Systems' manufacturing operations have a certified Environmental Management System in accordance with ISO 14001.

The Life Cycle Assessment (LCA) of Forbo Flooring Systems' products is documented in individual Environmental Product Declarations (EPD's) which can be found on all of our websites.



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