



## Technical specifications

		Marmoleum 2.0 mm Real/Fresco	Marmoleum 2.5 mm Real/Fresco/Vivace/ Splash/Terra	Marmoleum 3.2 mm Real/Fresco	Marmoleum Decibel	Marmoleum Acoustic
Meets the requirements of		EN-ISO 24011	EN-ISO 24011	EN-ISO 24011	EN 686	EN 687
Total thickness	EN ISO 24346	2.0 mm	2.5 mm	3.2 mm	3.5 mm	4.0 mm
Surface finish		Topshield pro	Topshield pro	Topshield pro	Topshield pro	Topshield pro
Collection size		29	90	8	17 all items available as made to order	6
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
Roll width	EN ISO 24341	2.0 m	2.0 m	2.0 m	1.95 m / 2.0 m	2.0 m
Roll length	EN ISO 24341	≤ 33 m <sup>1</sup>	≤ 33 m <sup>1</sup>	≤ 33 m <sup>1</sup>	≤ 33 m <sup>1</sup>	≤ 33 m <sup>1</sup>
Total weight	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>
Slip resistance (ramp test)	EN 16165 Annex B	R9	R9	R9	R9	R9
Castor chair continuous use	ISO 4918	Pass	Pass	Pass	Pass	Pass
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
Colour fastness to light	EN ISO 105-B02 method 3	≥ 6	≥ 6	≥ 6	≥ 6	≥ 6
Indoor air emissions: TVOC after 28 days	EN 16516	≤ 0.01 mg/m <sup>3</sup>	≤ 0.01 mg/m <sup>3</sup>	≤ 0.01 mg/m <sup>3</sup>	≤ 0.05 mg/m <sup>3</sup>	≤ 0.05 mg/m <sup>3</sup>
Bacteriostatic properties*		Marmoleum has natural bacteriostatic properties which are confirmed by independent laboratories, even against MRSA bacteria.				
Resistance to chemicals	EN ISO 26987	Resistant to diluted acids, oils, fats and to the conventional solvents. Not resistant to prolonged exposure to alkalis.				
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.				
Flexibility	EN-ISO 24344	ø 30 mm	ø 40 mm	ø 50 mm	ø 40 mm	ø 60 mm
Acoustical impact noise reduction	EN ISO 717-2	≤ 4 dB	≤ 5 dB	≤ 6 dB	≥ 18 dB	≥ 14 dB
Electrical resistance Marmoleum Ohmex	EN 1081	1-10 exp.6<R1<1-10exp.8Ω static dissipative				
<b>Creating better environments</b>		Life Cycle Assessment is the foundation for securing the lowest environmental impact. Marmoleum is climate positive cradle to gate**				
Natural materials		Marmoleum is a bio-based floor made with up to 98 % natural ingredients (e.g. linseed oil, rosin, wood flour and jute). Marmoleum contains PEFC certified wood flour. Marmoleum is free of PVC, PET, synthetic rubber and plasticizers.				
Recycled content		Marmoleum contains ingredients derived from recycled sources, which are a combination of post-industrial, post-installation and post-consumer streams of both flooring and non-flooring Marmoleum products. Marmoleum sheet installation off-cuts and post-consumer used flooring are recyclable.				
Health and safety		Marmoleum is REACH compliant to assure human safety and health.				
Renewable electricity		Marmoleum is manufactured using 100% electricity from renewable sources.				
Green building certifications		Application of Marmoleum sheet can help maximise contribution in green building certifications e.g. LEED, BREEAM, DGNB and WELL.				
Application for underfloor heating		yes				
Marmoleum meets the requirements of EN 14041:2004						
Product code		0100201-DoP-107	0100201-DoP-107	0100201-DoP-107	0100207-DoP-107	0100206-DoP-107
Reaction to fire	EN 13501-1	C <sub>fl</sub> -s1, G, CS	C <sub>fl</sub> -s1, G, CS***	C <sub>fl</sub> -s1, G, CS	C <sub>fl</sub> -s1, G, NCS	C <sub>fl</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	≤ 2.0 kV	≤ 2.0 kV	≤ 2.0 kV	≤ 2.0 kV	≤ 2.0 kV
Thermal conductivity	EN 12524	0.17 W/mK	0.17 W/mK	0.17 W/mK	0.17 W/mK	0.17 W/mK

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

\*\* For details, please consult the EPD for Marmoleum 4790859342.101.2

\*\*\* Marmoleum 2.5 mm is available in reaction to fire classification B<sub>fl</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 (EPDs) which can be found on all of our websites. Marmoleum is manufactured at an SA8000® -certified organisation.

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