



# Technical specifications

Marmoleum sheet meets the requirements of EN-ISO 24011  
Marmoleum Decibel sheet meets the requirements of EN 686

		Marmoleum sheet Walton, Concrete, Piano, Cocoa, Slate	Marmoleum Decibel sheet Walton, Concrete, Piano, Cocoa, Slate
	Total thickness	EN-ISO 24346 2.5 mm	3.5 mm
	Surface finish		
	Domestic use	EN-ISO 10874 Class 23, heavy	Class 23, heavy
	Commercial use	EN-ISO 10874 Class 34, very heavy	Class 33, heavy
	Light Industrial use	EN-ISO 10874 Class 43, heavy	Class 41, moderate
	Collection size	78 colours	78 colours
	Roll width	EN-ISO 24341 2.00 m	1.90 / 2.00 m
	Roll length	EN-ISO 24341 ≤ 33 m	≤ 33 m
	Total weight <i>typical value</i>	EN-ISO 23997 2900 g/m <sup>2</sup>	3100 g/m <sup>2</sup>
	Residual indentation <i>Typical value</i>	EN-ISO 24343-1 ≤ 0.15 mm ~0.08 mm	≤ 0.30 mm ~0.20 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 > 6
	Flexibility	EN-ISO 24344	ø 40 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 Slate R10	R9 Slate R10
	Acoustical impact sound reduction	EN-ISO 717-2 ≤5 dB	18 dB Marmoleum with polyolefine foam backing. All items available as make to order.
	Indoor Air Emissions: TVOC at 28 days	EN ISO 16000-9 < 50 µg/m <sup>3</sup>	< 50 µg/m <sup>3</sup>
	Life Cycle Assessment**	LCA is the foundation for securing the lowest environmental impact.	
	Creating better environments	Marmoleum is produced CO <sub>2</sub> neutral.	
	renewable electricity	Marmoleum is manufactured using 100% electricity from renewable sources.	
		Marmoleum and Marmoleum Decibel are made of 94-98% natural materials.	
		Marmoleum contains PEFC certified wood flour.	
	natural materials (e.g. linseed oil, jute, tree resin, wood flour, limestone)	Marmoleum Cocoa additionally contains natural cocoa shells, a production residue of regional Dutch cocoa production.	
		Marmoleum and Marmoleum Decibel are free of PVC, PET, synthetic rubber and plasticizers.	
		Marmoleum is REACH compliant.	
	recycled content	Marmoleum contains recycled content.	
	Application on underfloor heating	yes	yes
Marmoleum sheet, Marmoleum Decibel sheet meet the requirements of EN 14041			
	Product code	EN 14041 0100201-DoP-306	0100207-DoP-306
	Reaction to fire	EN 13501-1 C <sub>n</sub> -s1	C <sub>n</sub> -s1
	Slip resistance	EN 13893 DS-µ ≥ 0.30	DS-µ ≥ 0.30
	Body voltage	EN 1815 ≤ 2 kV	≤ 2 kV
	Thermal conductivity	EN 12524 0.17 W/m-K	0.17 W/m-K

\* Marmoleum sheet can be installed nett fit, or with a welding rod in the seam. Both are proven hygienic solutions.  
\*\* Application of Marmoleum sheet can help maximize contribution in the project/building for LEED qualification.

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.

