FLOORING SYSTEMS

Forbo Environmental Data Sheet

Product name	Marmoleum Decibel Sheet
Product description	Marmoleum Decibel is a resillient floor covering complying with all the requirements of EN-ISO 24011: Specification for plain and decorative linoleum. Marmoleum Decibel provides the reduction of impact sound by 17dB
Manufacturing location	Kirkcaldy, United Kingdom
Site accreditation	ISO14001, ISO 9001, ISO18001

Our footprint – how it's made

Environmental data

Total recycled content of product by weight	59%
Post industrial recycled content	59%
Post consumer recycled content	0%
% renewable electricity used	100%

Independent assessment and rating

Nordic Swan	
Natureplus	
Cradle to Cradle Silver	
Allergy UK Seal of Approval	
ISO 9001 Quality Management System	
ISO 14001 Environmental Management System	
ISO 18001	

Carbon footprint

Estimated carbon footprint using data from Environmental product declaration according to ISO 14025	Raw materials and production	1.49 kg CO_2 eq/m^2
	Use (1 year)	0.36 kg CO_2 eq/m^2

Your footsteps – how it performs

Health and well being

AgBB/DiBT	Pass
Air quality	Approved by Allergy UK
Impact sound reduction	17dB
Bacteriostatic properties	Marmoleum has independent tests to prove that it inhibits bacteria such as MRSA, C Difficile, Norovirus, Acinetobacter baumannii

Installation

Recommended adhesives	Forbo recommends the use of 540 Eurosafe special, a **solvent free** adhesive or 640 Eurostar Special a **very low Voc** emission adhesive. Where contribution to credits for BREEAM sections HEA2 and HEA9 are required then low emission adhesive Eurocol 640 Eurostar Special should be used. If a permanent bond is required, please use Eurocol 640 Eurostar special.
	Installation off-cuts of Marmoleum can be collected via our **Back to the Floor** scheme and recycled back into Marmoleum at our plant in Scotland.

Maintenance

Topshield2	Unique dual layer finish. Resistant to staining and scuffing so reducing the amount of cleaning required. Can be completely rennovated, unlike PUR finishes.

End of life

	Marmoleum can be recycled or composted.

Contribution to Green Building Schemes

BREEAM

BREEAM ratings (generic) Linoleum – Plain and decorative linoleum (EN548)	**Building Type**				Retail/Leisure (Durability)	Retail/Leisure (Fashion)
	Offices A	Schools A+	Healthcare A+	Domestic A+	A+	A+

Ska scheme (RICS)

M12 soft floor covering criteria (Ska offices Vs 1,2.2013)	Meets
M12 soft floor covering criteria (Ska retail Vs 1,0.2012)	Meets

LEED (version 2.2)

Potential direct or indirect contribution to following categories and credits:	**Indoor Environmental Quality**	Credit 4.1 Low Emitting Materials: Adhesive & Sealants		Credit 4.3 Low emitting Materials	
	Materials and Resources	Credit 2.1 Construction Waste Management		Credit 4.1 Recycled content	Credit 5.1 Regional materials
	Innovation and Design	Credits 1-4 1 Climate Neutral Products		Credits 1-4 1 Pilot Credit 43, Certified Products	

Forbo design principles (Reduce, Recycle, Reuse, Renew)

Reduce	Marmoleum's Topshield2 finish significantly reduces cleaning and maintenance costs in life. Reduced VOC emissions from calendering process in 2012 by introducing rapeseed oil.
Reuse	All Marmoleum site offcuts can be returned to Forbo for reprocessing using our **Back to the Floor** initiative. After Marmoleum's long life it can be incinerated for landfill and this reclaims more energy that is used in production. It is also biodegradable in a controlled environment.
Recycle	Packaging used to deliver raw materials is seperated and recycled externally.
Renew	All Marmoleum is produced using 100% renewable electricity.

Detailed environmental product declarations and full Life Cycle Analysis

EPD declaration number 12CA64879.115.1	visit **www.forbo-flooring.co.uk/downloads** for more information