

Forbo Environmental Data Sheet

Product name	Tessera Diffusion
Product description	Tessera Diffusion reflects an evolution towards softer more organic geometry observed in nature. Inspired by crystalline structures, the fractal shapes fade in and out creating appealing contemporary floor spaces. Diffusion complies with all requirements of EN1307: Textile Floor Coverings – Classification of Pile Carpets.
Manufacturing location	Bamber Bridge, United Kingdom
Site accreditation	ISO14001, ISO 9001, OHSAS 18001, SA8000®



Our footprint – how it's made

Environmental data

Total recycled content of product by weight	66%
Post industrial recycled content	66%
Post consumer recycled content	0%
Recycled content of yarn	20%
% renewable electricity used	100%

Independent assessment and rating

ISO 9001 Quality Management System



ISO 14001 Environmental Management System



OHSAS 18001 Occupational Health and Safety Management



Diffusion is made in an SA8000® certified facility



Carbon footprint

Estimated carbon footprint using data from Environmental product declaration according to ISO 14025	Raw materials and production	8.74 kg CO ₂ eq/m ²
	Use (1 year)	0.804 kg CO ₂ eq/m ²

Your footsteps – how it performs

Health and well being

Air quality CHPS 01350	Tessera products comply to 01350 Indoor Air Quality Standard
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Impact sound reduction	22dB
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Installation

Recommended adhesives

Carpet tiles must be adhered using an all over tackifier adhesive system: Forbo Eurocol 542 Eurofix Tack Plus, a **solvent free** release system, is recommended. Where periphery tiles are not constrained by fixtures e.g. walls, edge strips etc, it is recommended that such tiles are adhered using a permanent adhesive; Forbo Eurocol 540 Eurosafe Special, again a **solvent free** adhesive, is recommended.

Adhesives must be applied according to the manufacturer's instructions and it is essential that tackifier adhesives are allowed to dry to a tacky finish before laying the carpet tile. Failure to do so could result in a permanent nonrelease bond.

Where contribution to credits for BREEAM sections HEA2 and HEA9 are required then low emission adhesive Eurocol 542 Eurofix tack plus should be used. If a permanent bond is required, please use Eurocol 640 Eurostar special.

Maintenance

Appropriate care and maintenance is essential to longevity and appearance retention and is necessary to maintain product warranties. Refer to the clean and care instructions available from Forbo Flooring Systems. All Tessera products are suitable for cleaning using the Dry Fusion technique. Dry Fusion uses 95% less water than the normal system of cleaning, produces no waste product, uses non hazardous and biodegradable cleaning solutions and all packaging and materials within the Dry Fusion System can be recycled.

End of life

Products suitable for reuse, recycling, downcycling and waste to energy. Forbo Flooring Systems works with recycling companies to clean, reuse and recycle old carpet tiles in the UK.

Contribution to Green Building Schemes

BREEAM 2014

BREEAM ratings	Building Type				Retail (Durability)	Retail (Fashion)
	Office	Education	Health	Domestic	A	A+
	A	A	A	A	A	A+

BREEAM 2018

Compliant through declaration number 4788294459.124.1 Valid until April 2024

Ska scheme (RICS)

M12 soft floor covering criteria	(Ska Offices Vs 1.2 2013) Meets	(Ska Retail Vs 1.0 2012) Meets	(Ska Higher Education Vs 1.0 2016) Meets
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LEED (version 4)

Potential direct or indirect contribution to following categories and credits:	Materials and Resources	Building product disclosure and optimisation - EPD up to 2 points
		Building product disclosure and optimisation - sourcing of raw materials - up to 1 point
		Construction and demolition waste management up to 2 points
	Indoor environmental quality	Low emitting materials up to 3 points
		Acoustic performance up to 1 point

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

Reduce	Investment in an extruder has reduced our bitumen usage by 50%.
Reuse	Yarn ends are rewound and used in the production of new Tessera Carpet tiles. Cutting waste and imperfect tiles can be reprocessed and turned into backing at our Bamber Bridge plant – creating a closed loop process. All Tessera samples can be returned allowing them to be reused or recycled, reducing the need for virgin material.
Recycle	Yarns, backing cloth, fillers and latex all contain recycled materials. All tufted Tessera carpet tiles made in the UK contain at least 58% recycled content by weight.
Renew	All Tessera carpet tiles manufactured at Bamber Bridge are made with 100% renewable electricity.

Detailed environmental product declarations and full Life Cycle Analysis

visit www.forbo-flooring.co.uk/downloads for more information