

## Forbo Environmental Data Sheet

<b>Product name</b>	<b>Tessera Diffusion</b>
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, ISO 45001, SA8000®



### Our footprint – how it's made

#### Environmental data

Total recycled content of product by weight	66%
Post industrial recycled content	66%
% renewable electricity & biogas used	100%

#### Independent assessment and rating

ISO 9001 Quality Management System



ISO 14001 Environmental Management System



ISO 45001 Occupational Health and Safety Management



Tessera 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 <sub>2</sub> eq/m <sup>2</sup>
	Use (1 year)	0.804 kg CO <sub>2</sub> eq/m <sup>2</sup>

### Your footsteps – how it performs

#### Health and well being

Indoor Air quality	Gold
AgBB/DiBt	Pass
Impact sound reduction	22 dB

#### Installation

Recommended adhesives	<p>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 640 Eurostar 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 non-release bond.</p> <p>Where contribution to credits for BREEAM sections HEA2 and HEA9 are required then low emission adhesive Eurocol 542 tack plus should be used. If a permanent bond is required, please use Eurocol 640 Eurostar special.</p>
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**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 used carpet tiles in the UK.

**Contribution to Green Building Schemes**

**BREEAM 2018**

Compliant through declaration number 4788294459.124.1 Valid until April 2024

**LEED (version 4)**

Potential direct or indirect contribution to following categories and credits:

**Materials and Resources**

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. All Tessera samples can be returned allowing them to be reused or recycled, reducing the need for virgin materials.

**Recycle**

Yarns, backing cloth, fillers and latex all contain recycled materials. All tufted Tessera carpet tiles contain at least 57% recycled content by weight.

**Renew**

All Tessera carpet tiles manufactured at Bamber Bridge are made with 100% renewable forms of energy (renewable electricity & biogas).

visit [www.forbo-flooring.co.uk/downloads](http://www.forbo-flooring.co.uk/downloads) for more information