Technical specifications

Diffusion carpet tiles meet the requirements of EN 1307

tessera® diffusion

Description		Tufted multi-height loop pile carpet tile
Dimensions		50cm x 50cm
Total thickness		6.5mm ± 10%
Pile height		3.7mm ± 0.5mm
Collection size		16 colourways, 4m² per box
Application	EN 1307	Class 33, Suitable for any type of heavy contract application
Pile composition		100% Universal Fibers[sm] Refresh™ polyamide 6.6
Dye method		100% solution dyed
Stitch density		217,120 per m² ± 10%
Pile weight		570 gsm ± 10%
Total weight		4,085 gsm ± 10%
Primary backing		Polyester/Nylon
Secondary backing		Modified bitumen and polyester fleece. Also available in SOFTbac® secondary backing
Castor chair use	BS EN 985:2001	Minimum R value: ≥2.4
Light fastness	BS EN ISO 105 B02	≥5
Dimensional stability	BS EN 986	≤0.2%
Creating Better Environments		
Renewable Electricity		All Tessera carpet tiles are manufactured using 100% electricity made from renewable sources
Recycled Content		Diffusion contains over 50% recycled content by weight
Indoor Air Quality		Diffusion meets 01350 Indoor Air Quality standard
Back to the Floor		Installation off cuts can be collected and recycled via Back to the Floor
Ska		Diffusion meets Ska Rating criteria for M12 soft floor coverings in both office and retail schemes
Guarantee		Diffusion carpet tiles are guaranteed for 10 years under heavy contract conditions (15 years guaranteed with SOFTbac®) provided that they have been professionally fitted by a recognised contractor and regularly maintained in accordance with the Forbo requirements currently in force.
Installation method		Monolithic, quarter turn or tessellated

Diffusion carpet tiles meet the requirements of EN 14041

CE EN 14041

Reaction to fire	EN 13501-1	B_{fl}-s1
Slip resistance	EN 13893	DS: ≥0.30
Electrical resistance	BS ISO 10965 & EN1815	<1 x 10^9 Ω: Static dissipative. Body voltage: Pass (< 2kV) Lifetime protection through the use of permanent anti-static yarn and backing

BREEAM ratings
Tessera Diffusion – Carpet Tiles (EN1307)

Building Type Office	Education	Healthcare	Multi Residential	Retail (Durability)	Retail (Fashion)	Meets Ska criteria
A	A	A+	A	A	A+	✔

Our recommended adhesive for our collection of Tessera carpet tiles is 542 Eurofix Tack plus. Please contact customer services for more information.

All Forbo Flooring Systems' sales organisations and manufacturing sites worldwide have certified Quality Management Systems in accordance with ISO 9001.

All Forbo Flooring Systems' manufacturing plants have certified Environmental Management Systems in accordance with ISO 14001.

Diffusion carpet tiles are manufactured in a facility certified to SA8000® and OHSAS 18001.

The Life Cycle Assessment (LCA) of Forbo Flooring Systems' products is documented in individual Environmental product declarations (EPD's) or local building rating schemes such as BREEAM.

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