

# Technical specifications

tessera® diffusion

Diffusion carpet tiles meet the requirements of EN 1307

|                                                                                     |                              |                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 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              | 10 colourways, 4m² per box                                                                                                                                                                                                                                                                  |
|    | Application                  | EN 1307 Class 33, Suitable for any type of heavy contract application                                                                                                                                                                                                                       |
|                                                                                     | Pile composition             | 100% Universal Fibers <sup>sm</sup> Refresh <sup>tm</sup> 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 carpet tiles contain 66% 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 office, retail and higher education 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 <sub>f1</sub> -s1                                                                                                                                     |
|  | Slip resistance       | EN 13893              | DS: ≥0.30                                                                                                                                               |
|  | Electrical resistance | BS ISO 10965 & EN1815 | <1 x 10 <sup>9</sup> Ω: Static dissipative. Body voltage: Pass (< 2kV)<br>Lifetime protection through the use of permanent anti-static yarn and backing |

## BREEAM ratings

Tessera Diffusion – Carpet Tiles (EN1307)

| Building Type<br>Office | Education | Healthcare | Multi<br>Residential | Retail<br>(Durability) | Retail<br>(Fashion) | Meets Ska<br>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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