














Realm Carpet Tile

Technical Specification

REA-TS-20200304-03-EN

Name	Standard	Symbol	Result																																
CE / DOP	EN 14041		CPR/AI/025																																
Usage Classification	EN 1307		23,33																																
Luxury Class	EN 1307		LC1																																
Size	EN 994		500mm x 500mm																																
Construction Gauge	ISO 2424		Tufted Loop 1/10"																																
Fibre Composition			Polyamide Nylon 6																																
Dye Method			Solution dyed																																
Backing			Flexible Back and Acoustic Flexible Back																																
Stitches for 10cm			42																																
Total Thickness (mm)	ISO 1765		5.2mm (50gsm Flexible Back) 7.2mm (500gsm Acoustic Flexible Back)																																
Total Mass Per Unit Area (g/m ²)	ISO 8543		3880g/m ² (50gsm Flexible Back) 4380g/m ² (500gsm Acoustic Flexible Back)																																
Effective Pile Thickness (mm)	ISO 1766		3.5mm																																
Total Pile Mass (g/m ²)	ISO 8543		550																																
Number of Tufts/Loops (calculated per m ²)	ISO 1763		164,000																																
Fire Resistance	EN ISO 13501-1		B _f s1																																
Slip Resistance	EN 13893		Class DS																																
Dimension Stability	EN 986		≤ 0.2 %																																
Anti-Static Body Voltage (kV @25%rh)	ISO 6356		≤ 2.0 kV																																
Vertical Electric Resistance	ISO 10965		4 x 10 ¹⁰ Ω																																
Horizontal Electric Resistance	ISO 10965		3 x 10 ⁸ Ω																																
Castor Chair Suitability	EN 985		Continuous																																
Light Colour Fastness	EN ISO 105:B02		≥ 5																																
Colour Fastness to Rubbing	EN ISO 105:X12		5																																
Colour Fastness to Water	EN ISO 105:E01		4.5																																
Impact Sound Insulation ΔL _w	EN ISO 717-2		23dB (50gsm Flexible Back) 29dB (500gsm Acoustic Flexible Back)																																
Sound Absorption	EN ISO 11654 ISO 354		$\alpha_w = 15$ <table border="1"> <tr> <td>Hz</td> <td>125</td> <td>250</td> <td>500</td> <td>1000</td> <td>2000</td> <td>4000</td> <td></td> </tr> <tr> <td>α_s</td> <td>-0.00</td> <td>0.06</td> <td>0.07</td> <td>0.14</td> <td>0.31</td> <td>0.32</td> <td>Flexible Back</td> </tr> </table> $\alpha_w = 25$ <table border="1"> <tr> <td>Hz</td> <td>125</td> <td>250</td> <td>500</td> <td>1000</td> <td>2000</td> <td>4000</td> <td></td> </tr> <tr> <td>α_s</td> <td>-0.01</td> <td>0.05</td> <td>0.39</td> <td>0.18</td> <td>0.26</td> <td>0.36</td> <td>Acoustic Flexible Back</td> </tr> </table>	Hz	125	250	500	1000	2000	4000		α_s	-0.00	0.06	0.07	0.14	0.31	0.32	Flexible Back	Hz	125	250	500	1000	2000	4000		α_s	-0.01	0.05	0.39	0.18	0.26	0.36	Acoustic Flexible Back
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α_s	-0.01	0.05	0.39	0.18	0.26	0.36	Acoustic Flexible Back																												
Thermal Resistance (m ² K/W)	ISO 8302		0.08 m ² K/W (50gsm Flexible Back) 0.11 m ² K/W (500gsm Acoustic Flexible Back)																																

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