

TECHNICAL INFORMATION

tretford ECO-tile

DESCRIPTION

tretford ECO-tile is made from carded fibres formed into a continuous corrugation and bonded to a 100% post-consumer recycled PET backing.

MATERIALS

Pile composition of carpet: 70% Goat Hair (512 Dapple Grey, 538 Silver Birch and 587 Double Cream are manufactured using undyed goat hair), 30% Nylon.

WARRANTIES

Wear Guarantee and a Lifetime Anti-Ravel/Non-Zipper Guarantee.
BS EN 1307:2005 Class 33 LC2 Heavy Commercial Use

DIMENSIONS & WEIGHT

Size: 50 cm x 50 cm
Packing: 5 m² per box
Thickness: 9.1 mm
Weight: ca. 3.8 kg/m²

FLAMMABILITY

BS 4790: 1987 Mean radius of burning: 25mm Class: low
BS EN ISO 11925:2002, BS EN ISO 9239-1: Euroclass C_{fl}-s1
Critical radiant flux tests: ANSI/ASTM E648 result category 1
EN ISO 9239-1:2003. CHF value: mean 5.1 kW/m² loose laid and direct stick.
Conclusion: Suitable for all commercial / contract installations including institutional, commercial and public buildings.

THERMAL INSULATION (ISO 8302:1991)

Thermal resistance (R-value): 0.09 m²·K/W

Conclusion: Satisfactory thermal properties for normal underfloor heating.

ELECTRICAL PROPERTIES / STATIC

ISO 6356:2000: -1.3 kV, BSEN 14041:2004: Classified as antistatic

AATCC TM 134 Step test: 2.7 kV, Scuff test: 3.0 kV – Suitable for commercial use

IBM and ICL Electrical Resistance: Tested at 40% RH and 20°C - Passed.

Recommendation: To prevent discomfort a minimum of 40% RH should be maintained.

LOSS IN THICKNESS AFTER DYNAMIC LOADING (BS4052:1987)

Thickness loss (%) after 1000 Impacts: 13.33%

DIMENSIONAL STABILITY (BS EN 986:2005)

Dimensional stability test requirements: -0.2% - +0.2% - Passed

COLOUR FASTNESS (BS 1006: 1990)

To light - colour change: 5-6 very slight to none

To water spotting - colour change: 4 very slight

To carpet shampoo - colour change: 3-4 slight

To rubbing - colour change: 4 very slight

IMPACT INSULATION (EN ISO 140-8: 1998)

Centre band frequencies (Hz)	200	400	800	1000
Test 1 bare concrete (dB)	63.7	66.1	66.3	66.2
Test 2 bare concrete with tretford (dB)	53.7	42.0	28.1	22.0
Regulation Requirements (dB)	66	66	64	63

Conclusions: This carpet meets the requirements of the building regulations by a useful margin.

SOUND ABSORPTION (EN ISO 354: 2003)

Sound absorption grade (EN ISO 11654:1997) is 0.25

	125	250	500	1000	2000	4000	Hz
Carpet	0.02	0.05	0.14	0.29	0.27	0.35	Coefficient of absorption

