

Product Review

Voxflor
Carpet Tiles & Planks

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Product class

Class 1 - Batch or mass-produced products

Product name

Voxflor Carpet Tiles & Planks

Product description and its intended use

500mm x 500mm x 10mm high carpet tile made with a multi-level loop construction consisting of 100% solution dyed nylon 6 fibre bonded to either a recycled ComfortBack backing system or EcoBack. Stocked in a range of patterns and colours.

Product identifier (if applicable)

Voxflor Carpet Tiles & Planks, Awake & Wetland, Gold Coast, Interweave, Myriads, Novel Tartan, Sketch, Spacewalk, Thrive, Urban Forest, Woodbine, Interweave, Mondrian Collection, Myriads, Network, Sketch, Spacewalk, Spiral, Thrive and Urban Forest.

Place Manufactured (New Zealand or Overseas)

Overseas, manufactured in China

Relevant Building Code clauses

B2 Durability	Performance clause B2.3.1 c) 5 years
C3 Fire Affecting Area beyond the source	Performance clause C3.4 b) - does not apply to detached dwellings, within household units in multi-unit dwellings or outbuildings and ancillary buildings.
D1 Access Routes	Performance clause D1.3.3 d)
F2 Hazardous Building Materials	Performance clause F2.3.1
G6 Airborne and Impact Sound	Performance clause G6.3.1 and G6.3.2
H1 Energy Efficiency	Functional requirement clause H1.2a) - does not apply to assembly service buildings, industrial buildings, out-buildings or ancillary buildings. Contributes to performance clause H1.2.1 (Floor coverings only contribute to the Construction R-value of Floors when using the modelling method in accordance with NZBC H1/VM1 & VM2)

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Statement of how the building product is expected to contribute to compliance

B2 Durability - B2.3.1 c)

- Voxflor carpet tile & plank has a durability beyond 5 years, based on NZBC B2/VM1 clause 1.1 In-service history.
- Durability supported by a 15 year product warranty for wear resistance, delamination and dimensional stability, a lifetime warranty for stain, soil and anti-static and a 15 year caster chair limited warranty.

C3 Fire Affecting Area Beyond the Source - C3.4 b)

- Voxflor carpet tile & plank has been tested to BS EN ISO 9239.1 - 2002 and achieves a CHF (Critical Heat Flux) mean of 8.4kW/m². Refer to BCTC, Test Report 25/06159B/08/14, dated 4 September 2014.
- Note: The above testing is to the older version of AS ISO 9239.1, NZBC C/AS2 requires testing to ISO 9239.1:2010. The above is therefore presented as an alternative solution to NZBC C3.

D1 Access Routes - D1.3.3 d)

- Voxflor carpet tiles & plank meets the requirements for slip resistance in accordance with NZBC D1/AS1 2.1 Slip Resistance, Table 2 Slip Resistance for walking surface. Voxflor carpet tiles & plank are acceptable for level and sloping surfaces, wet and dry slip resistance.

F2 Hazardous Building Materials - F2.3.1

- Voxflor carpet tiles & plank are manufactured from non-toxic materials
- Declare certified, Living Building Challenge Criteria complaint, LBC Red List Free

G6 Airborne and Impact Sound - G6.3.1 and G6.3.2

- Voxflor carpet tiles & plank have been tested to EN ISO 354 and ISO 11654 for sound absorption, achieving a weighted sound absorption co-efficient of 0.25 and tested to EN ISO 10140 for impact sound insulation. Refer to TFI Report 481331-01 Sound Absorption / Impact Sound Insulation, dated 13.08.2018

H1 Energy Efficiency - H1.2a) & H1.2.1

- Voxflor carpet tiles & plank have been tested to ASTM C518-17 and achieve a thermal conductivity of 0.053 W/mK and thermal resistance of 0.198 (m².K)/W. Refer to Intertek Test Report 200925017SHF-001 dated 14.10.2020.

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Limitations on the use of the building product

- Voxflor carpet tiles & plank suitable for interior applications only.

Design requirements that would support the appropriate use of the building product

- Voxflor carpet tiles & plank are suitable for use in high traffic, commercial areas.

Installation requirements

- Install in accordance with Advance Flooring, Installation Guide Advance Carpet Tiles for EcoBac and Comfort Backed / Mix-Bac Tiles.
- Ensure carpet tiles are from the same batch (batch number stated on box) as slight colour variation may occur from batch to batch.
- Ensure temperature at installation is between 10°C and 25°C at a relative air humidity of approximately 60%. Remove tiles from box and condition for 24 hours in room they will be installed.
- Lay Voxflor carpet tiles in brick, quarter-turn or Ashler pattern.
- Advance Flooring recommend the full stick installation method using Advance Flooring approved adhesives only.

Maintenance requirements

- Maintenance to be in accordance with Advance Flooring, Maintenance Guide Advance Carpet Tiles.
- Regular maintenance is required to ensure optimal performance and appearance.
- Do not use any cleaner with a pH of 10 or higher.
- Periodic cleaning by a certified carpet care professional using the standard hot water extraction method (60°) is recommended to refresh carpet appearance.

Building Act 2004 section 26 compliance

- Yes/No

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