

GenieMat[®] RST12

ROLL-OUT SOUND CONTROL UNDERLAYMENT



PRODUCT SPECIFICATIONS

PRODUCT NAME:	GenieMat RST12
DESCRIPTION:	GenieMat RST is a flat, resilient underlayment made from up to 94% recycled rubber, designed for installation directly under various hard-surface floor finishes, including tile, vinyl plank, and wood flooring.
APPLICATION:	Used in concrete and wood-frame construction to provide superior sound control, especially in multifamily housing, high-rises, and commercial buildings. It is engineered to protect ceramic tile, porcelain, and stone from substrate cracks.
FEATURES AND BENEFITS:	<ul style="list-style-type: none">• Significantly reduces impact sound• Mold, bacteria, fungi, and water resistant• Exceeds pass criteria for point load test for crack isolation membrane (ANSI 118.12)• Can be installed directly under hard surface or resilient floor coverings• Meets requirements for VOC emissions (IAQ test, ASTM D5116/ISO 16000-9)• Complete floor covering system warranty available• Floorscore[®] certified• Third-party verified EPDs available• Qualifies for LEED[®] points
DIMENSION:	Roll: 4' wide, 12.5' long (nom. 1.22 m wide, nom. 3.81 m long)
THICKNESS:	15/32" (nom. 12 mm)
WEIGHT:	120 lb/Roll (54.4 kg/Roll)
AREA:	50 ft ² (4.65 m ²)
DENSITY:	Shall be > 62 lb/ft ³ (1000 kg/m ³)
QUANTITY/PALLET:	16

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TECHNICAL DATA

TYPE A HARDNESS (ASTM D2240):	50 (±5) Durometer
REDUCTION OF IMPACT SOUND PRESSURE LEVEL (ASTM E492/E2179, ISO 10140-3):	GenieMat RST12 tested over 8" (nom. 200 mm) concrete slab with 12" x 12" (nom. 300 mm x nom. 300 mm) ceramic tile, no ceiling, IIC 55 ($L_{n,w}$ 55) and Δ IIC 22dB (ΔL_w 18dB)
NATURAL FREQUENCY:	Shall not be greater than 61 Hz at 400 psf (0.02 MPa) load
HIIC (ASTM E3222):	Shall be \geq 57 when tested on an 8" (nom. 200 mm) concrete slab with tile
POINT LOAD TEST FOR CRACK ISOLATION MEMBRANES (ANSI 118.12):	Exceeds pass criteria
PUNCTURE TESTING WHEN INSTALLED UNDER LUXURY VINYL TILE (ASTM F924):	No change when compared to puncture failure limit of luxury vinyl tile tested without underlayment
ROBINSON WHEEL TILE TEST (ASTM C627):	Light commercial with tile
RESISTANCE TO IMPACT WHEN INSTALLED UNDER LUXURY VINYL TILE (ASTM F1265):	Luxury vinyl tile shows no signs of breaking or cracking and meets standard criteria
ROLLING LOAD INDENTATION WHEN INSTALLED UNDER LUXURY VINYL TILE (ASTM F2753):	Luxury vinyl tile shows no signs of indentation and plank separation for 12,500 cycles
DYNAMIC STIFFNESS (ASTM D5992, ISO 4664-1):	2738 lbf/in ³ (743 MN/m ³)
STATIC STIFFNESS (ASTM D5992, ISO 4664-1):	366 lbf/in ³ (99 MN/m ³)
DYNAMIC-STATIC STIFFNESS RATIO (ASTM D5992, ISO 4664-1):	7.48
VOC EMISSIONS (CDPH/EHLB STANDARD METHOD v1.2-2017):	FloorScore [®] certified

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LOAD/DEFLECTION FOR TILE FLOORS:

Shall not have deflection greater than 2% of the thickness at loads up to 1,000 psf (nom. 48 kPa)

THERMAL RESISTANCE (R-VALUE):

0.512 ft²·°F·hr/BTU (0.09 m²·K/W)

THERMAL TRANSMITTANCE (U-VALUE):

1.952 BTU/ hr·°F·ft² (11.083 W/m²·K)

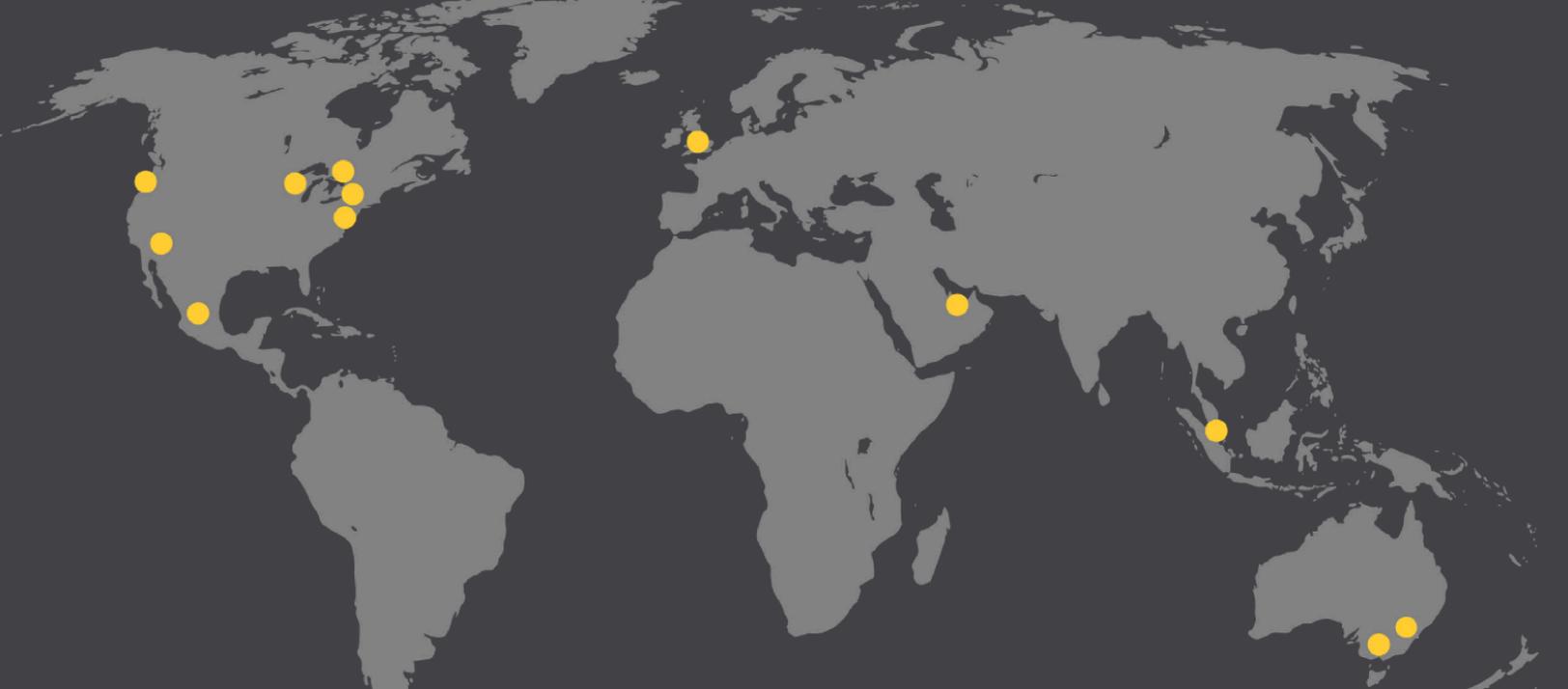
WARRANTY:

Shall have a 25 year warranty as an approved component of a full waterproofing floor system

TEMPERATURE STABILITY:

-40°F to +240°F (-40°C to +115°C)





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