

GenieMat® RSTo2

ROLL-OUT SOUND CONTROL UNDERLAYMENT



PRODUCT SPECIFICATIONS

PRODUCT NAME:	GenieMat RSTo2
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:	• 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, 75' long (nom. 1.22 m wide, nom. 22.86 m long)
THICKNESS:	3/32" (nom. 2 mm)
WEIGHT:	120 lb/Roll (54.4 kg/Roll)
AREA:	300 ft² (27.87 m²)
DENSITY:	Shall be > 62 lb/ft³ (1000 kg/m³)
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 RSTo2 tested over 8" (nom. 200 mm) concrete slab with vinyl plank floor covering, no ceiling, IIC 53 ($L_{n,w}$ 53) and Δ IIC 20dB
IMPROVEMENT OF IMPACT SOUND ISOLATION BY A FLOOR COVERING (ISO 16251-1):	nom. 1/8" (3.5 mm) vinyl over GenieMat RSTo2 ΔL_w 23dB
NATURAL FREQUENCY:	Shall not be greater than 92 Hz at 400 psf (0.02 MPa) load
HIIC (ASTM E3222):	Shall be ≥ 58 when tested on an 8" (nom. 200 mm) concrete slab with vinyl Shall be ≥ 55 when tested on an 8" (nom. 200 mm) concrete slab with engineered wood Shall be ≥ 45 when tested on a 6" (nom. 150 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):	Extra heavy 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):	9000 lbf/in ³ (2443 MN/m ³)
STATIC STIFFNESS (ASTM D5992, ISO 4664-1):	1069 lbf/in ³ (290 MN/m ³)

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DYNAMIC-STATIC STIFFNESS
RATIO (ASTM D5992, ISO 4664-1):

8.42

VOC EMISSIONS (CDPH/EHLB
STANDARD METHOD v1.2-2017):

FloorScore[®] certified

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):

0.085 ft²·°F·hr/BTU (0.015 m²·K/W)

THERMAL TRANSMITTANCE
(U-VALUE):

11.711 BTU/ hr·°F·ft² (66.5 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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