

GenieMat® RSTo3

ROLL-OUT SOUND CONTROL UNDERLAYMENT



PRODUCT SPECIFICATIONS

PRODUCT NAME:	GenieMat RSTo3
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, 50' long (nom. 1.22 m wide, nom. 15.24 m long)
THICKNESS:	1/8" (nom. 3 mm)
WEIGHT:	120 lb/Roll (54.4 kg/Roll)
AREA:	200 ft² (18.58 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 RSTo3 tested over 8" (nom. 200 mm) concrete slab with wood laminate floor covering, no ceiling, IIC 56 ($L_{n,w}$ 54) and Δ IIC 23dB
IMPROVEMENT OF IMPACT SOUND ISOLATION BY A FLOOR COVERING (ISO 16251-1):	nom. 1/8" (3.5 mm) vinyl over GenieMat RSTo3 ΔL_w 24dB
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):	6922 lbf/in ³ (1879 MN/m ³)
STATIC STIFFNESS (ASTM D5992, ISO 4664-1):	979 lbf/in ³ (266 MN/m ³)

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DYNAMIC-STATIC STIFFNESS RATIO (ASTM D5992, ISO 4664-1):	7.07
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):	0.128 ft ² ·°F·hr/BTU (0.023 m ² ·K/W)
THERMAL TRANSMITTANCE (U-VALUE):	7.808 BTU/ hr·°F·ft ² (44.333 W/m ² ·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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