

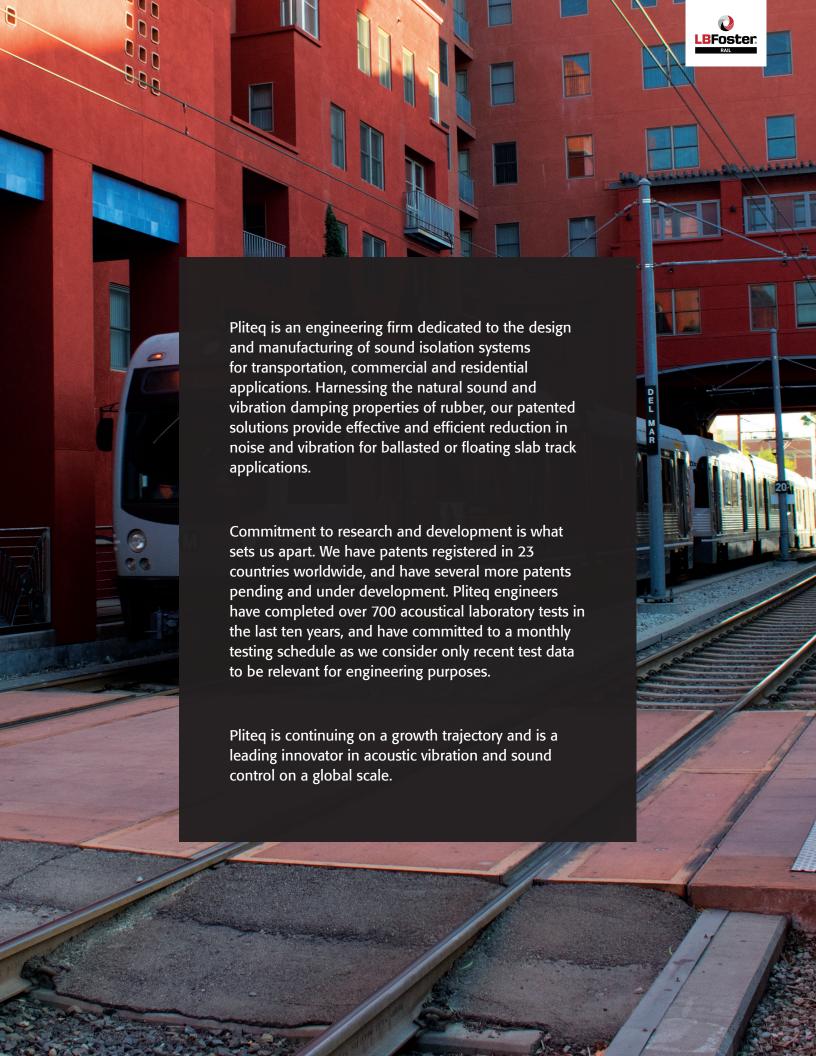


GENIEMAT® RAIL BST

ENGINEERED SUB-BALLAST MATS FOR BALLAST PRESERVATION AND VIBRATION ISOLATION



Patents: US 8240430 US 8556029 CA 2500956 CA 2503420

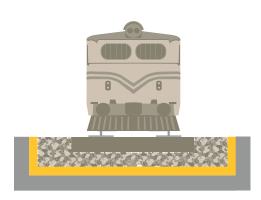




GENIEMAT® RAIL

Patented Isolation Technology for Rail Systems

FROM THE INVENTOR OF THE PATENTED TECHNOLOGY (US 8240430, US 8556029, CA 2500956, CA 2503420)

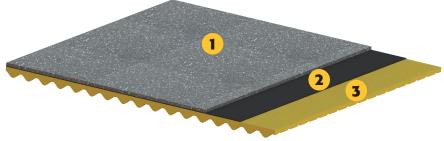


GENIEMAT RAIL BST - BALLAST MAT

- Engineered for transit and freight rail lines
- Proven to be most effective method of reducing ballast degradation
- Provides high-performance ground-borne vibration isolation in critical locations
- Water permeable for drainage
- Rubber or polyurethane foam

Impregnable protection surface extends the contact area of the ballast to provide greater stability.

Structural mesh provides monolithic reinforcement.



The resilient elastomer is engineered dependent on project conditions.

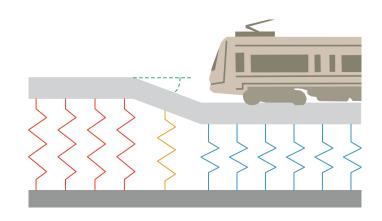
GENIEMAT RAIL PLITEQ 3

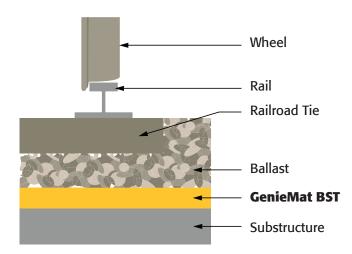


REDUCES IMPACTS AND MAXIMIZE TRACK COMPONENT LIFESPAN

Due to the change in substructure stiffness, track components in bridge transition zones are subject to higher impacts and vibrations magnitudes.

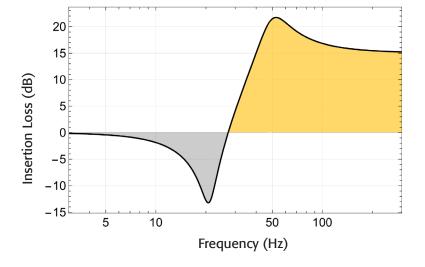
If these areas are left untreated, the track, ballast, and sleepers will suffer a shortened lifespan and increased operating costs.





To reduce impacts in bridge transition zones, engineers use FEA to specify **GenieMat BST** products that will moderate the stiffer portions of track and equalize deflection throughout.

When acoustical isolation is necessary, **Pliteq** offers insertion loss calculations based on the use of **GenieMat BST** under the specific project conditions.



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GENIEMAT® RAIL BST - BALLAST MAT

VIBRATION ISOLATION SYSTEM FOR RAIL

PRODUCT SPECIFICATION

PRODUCT NAME: GenieMat RAIL BST

PATENTS: US 8240430, US 8556029, CA 2500956, CA 2503420

GenieMat RAIL BST ballast mats are engineered according to project requirements to project vibration in letter and reduce bellegt strong.

to provide vibration isolation and reduce ballast stress.

PROPERTY	GenieMat RAIL BST25	GenieMat RAIL BST16	GenieMat RAIL BST12
TYPICAL AXLE LOAD:	12 Tons*	33 Tons*	40 Tons*
DIMENSIONS:	1219 mm width, 30 mm thickness (48" width, 1 ³ / ₁₆ " thickness), length to spec	1219 mm width, 22 mm thickness (48" width, $7/8$ " thickness), length to spec	1219 mm width, 19 mm thickness (48" width, $\frac{3}{4}$ " thickness), length to spec
STRUCTURE:	Protective top layer, structural mesh, and resilient elastomer	Protective top layer, structural mesh, and resilient elastomer	Protective top layer, structural mesh, and resilient elastomer
	75 mm (3") protection layer overlap for seam reinforcement	75 mm (3") protection layer overlap for seam reinforcement	75 mm (3") protection layer overlap for seam reinforcement
WEIGHT:	15 kg/m² (~28 lb/yd²)	14 kg/m² (~26 lb/yd²)	13 kg/m² (~24 lb/yd²)
FABRIC:	Type: Fiberglass coated PVC Tensile: 105 N/mm (600 lb/in) Elongation at break: ≥10%		
ELASTOMER:	Rubber		
TEMPERATURE RANGE:	Suitable for service where GenieMat RAIL BST temperatures range between -40°C and +110°C (-40°F and 230°F).		

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 $^{{\}it *Complete specification guides and submittal package available upon \ request.}$





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