

MEGAMAT 500

VIBRATION CONTROL



VIBRATION INSULATION PANEL MADE OF END-OF-LIFE TYRES RUBBER GRANULES AND FIBRES

■ TECHNICAL SPECIFICATION

Anti-vibration material supplied in panels, thickness 12,5/25/50 mm, made of rubber granules and fibres from End-of-Life Tyres (ELTs) compacted using a polyurethane binder in a hot process. A non-woven, non-stretch synthetic membrane is applied on one side of panel, for added protection; density 500 kg/m³. Panels dimensions are m 1,20 length, m 0,80 width. To be used for static and dynamic loads up to 0.25 N/mm².



■ APPLICATION AREA

Application fields	Load	Deformation
Static	up to 0,05 N/mm ²	~ 10%
Static and Dynamic	up to 0,25 N/mm ²	~ 30%
Load peaks (short time)	up to 0,80 N/mm ²	~ 50%

■ TECHNICAL DATA

		Tolerance	Standard
Thickness	12,5 - 25 - 50 mm	± 2	
Length	1,20 m	± 2%	
Width	0,80 m	± 2%	
Density	500 kg/m ³	± 10%	
Stress at strain 10%	0,05 N/mm ²	± 10%	EN ISO 29470
Static Modulus of Elasticity (Es) - strain 10%	0,55 N/mm ²	± 10%	EN ISO 29470
Dynamic Modulus of Elasticity (Ed) - strain 10%	1,80 N/mm ²	± 10%	
Loss factor (η)	0,143	± 10%	
Thermal conductivity coefficient (λ)	0,090		EN 12668
Inflammability	E		EN 13501-2

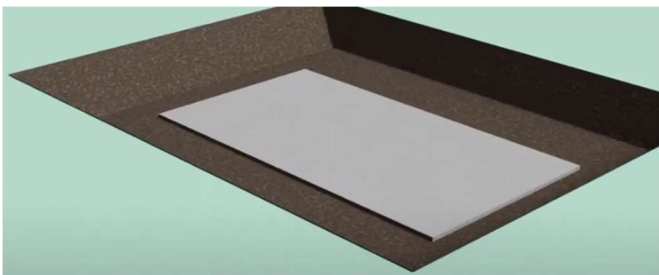
MEGAMAT 500

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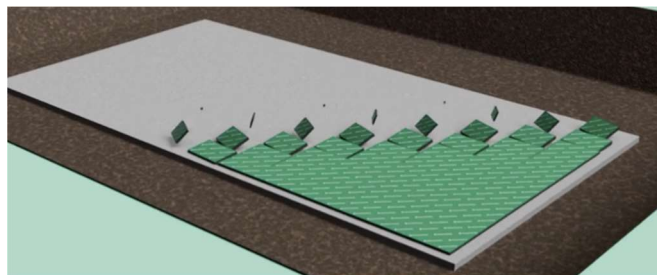


INSTALLATION INSTRUCTIONS FOR MEGAMAT

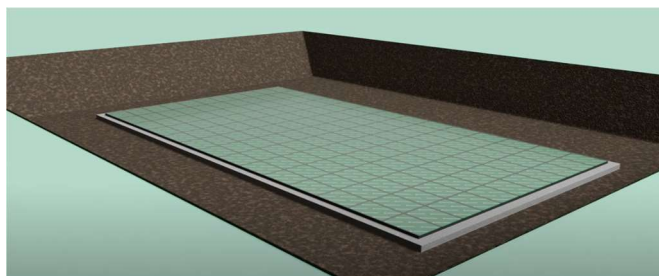
- 1 Prepare the excavation for the foundations and construct the sub-foundation



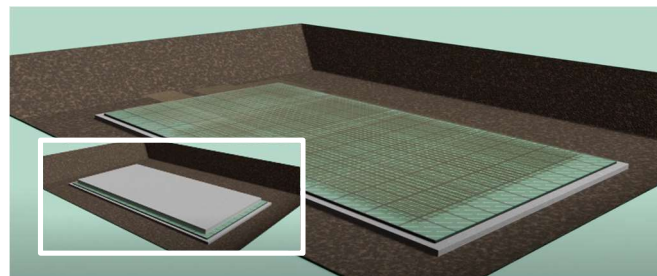
- 2 Lay the MEGAMAT panels on the sub-foundation, taking care to fit them together without leaving gaps or cavities along the joins



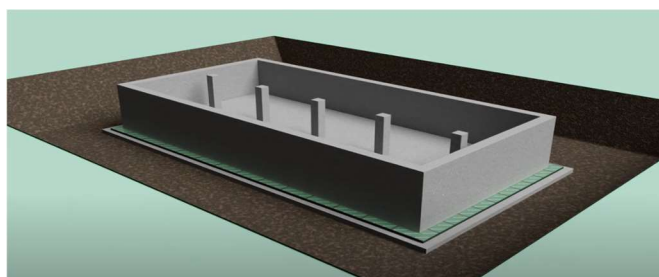
- 3 Seal the joins between the panels carefully with Stik tape and lay a waterproof protective sheet.



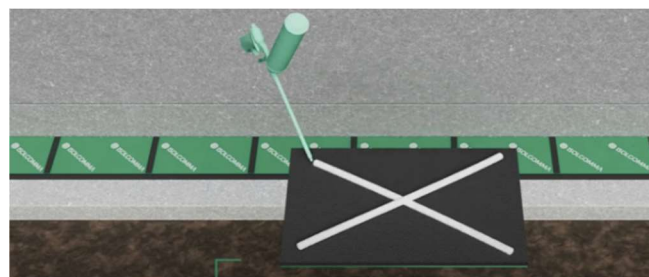
- 4 Prepare and position the formwork and reinforcing bars and construct the reinforced concrete foundation slab.



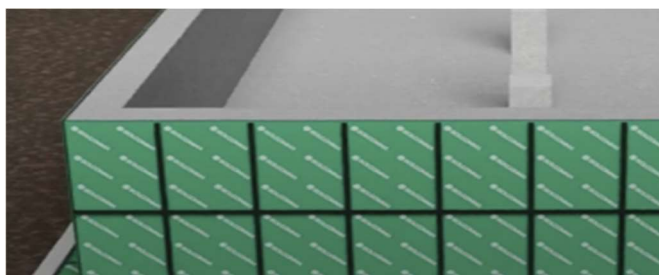
- 5 In the case of underground floors, construct the perimeter walls in reinforced concrete.



- 6 Glue the MEGAMAT panels along the perimeter walls, taking care to fit them together without leaving gaps or cavities along the joins



- 7 Seal the joins between the panels carefully with Stik tape



- 8 Complete construction of the building



SEE THE REFERENCES > VISIT THE WEBSITE



www.isolgamma.com
PRG-MOD. 15 - REV. 4.1 14/07/25 EN

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CONTACT THE TECHNICAL DEPARTMENT FOR MORE INFORMATION

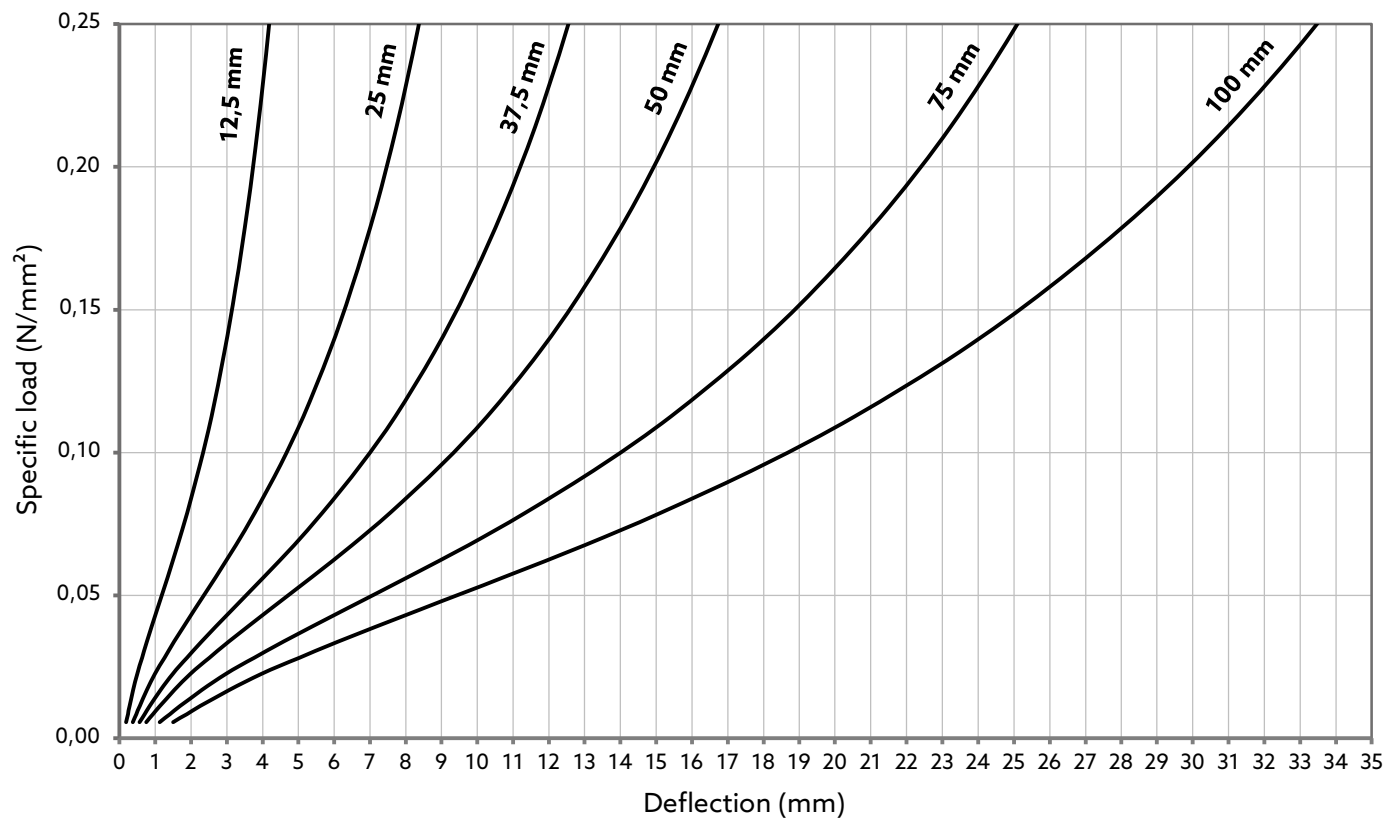
ISOLGOMMA
SILENCE MAKERS

MEGAMAT 500

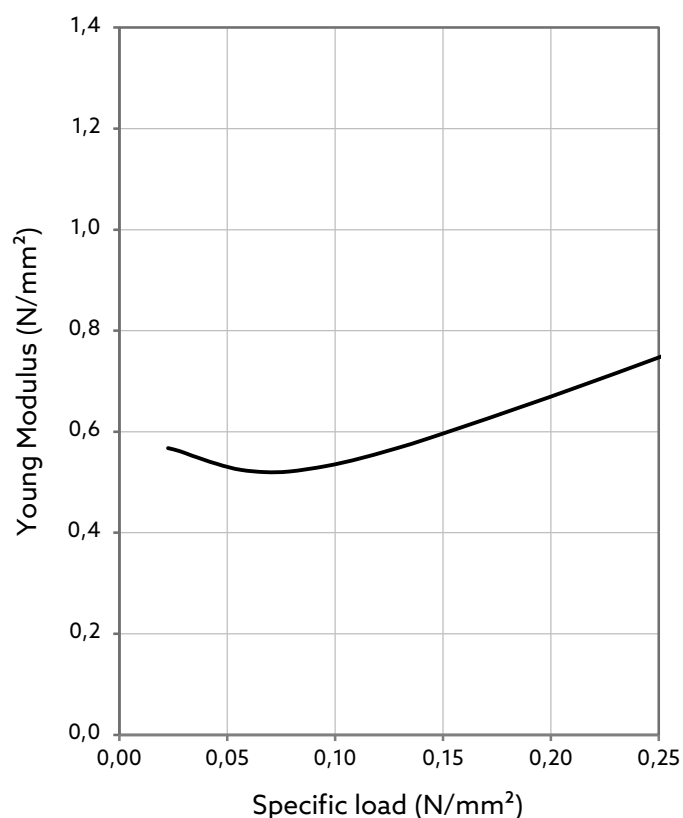
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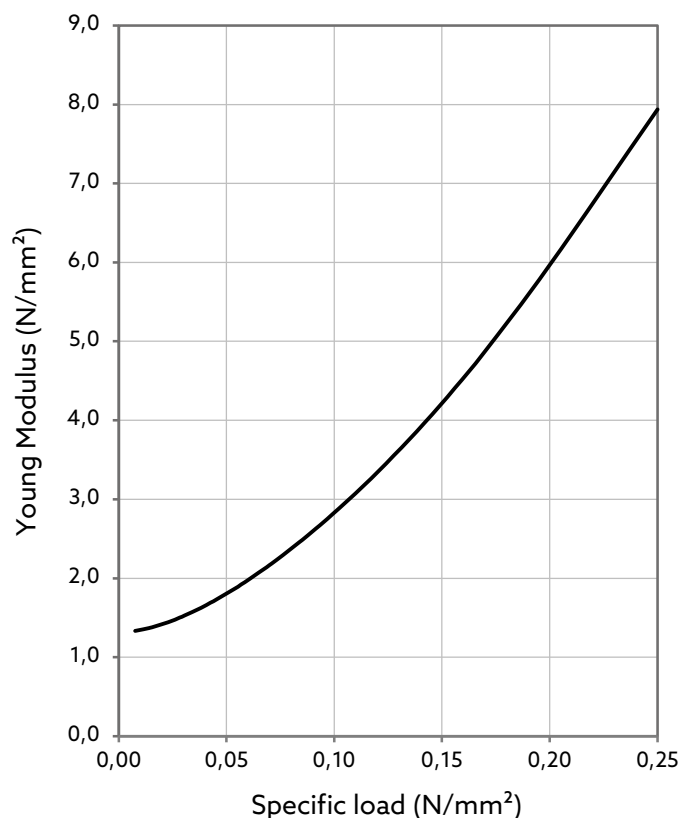
LOAD DEFLECTION CURVE



STATIC MODULUS OF ELASTICITY



DYNAMIC MODULUS OF ELASTICITY

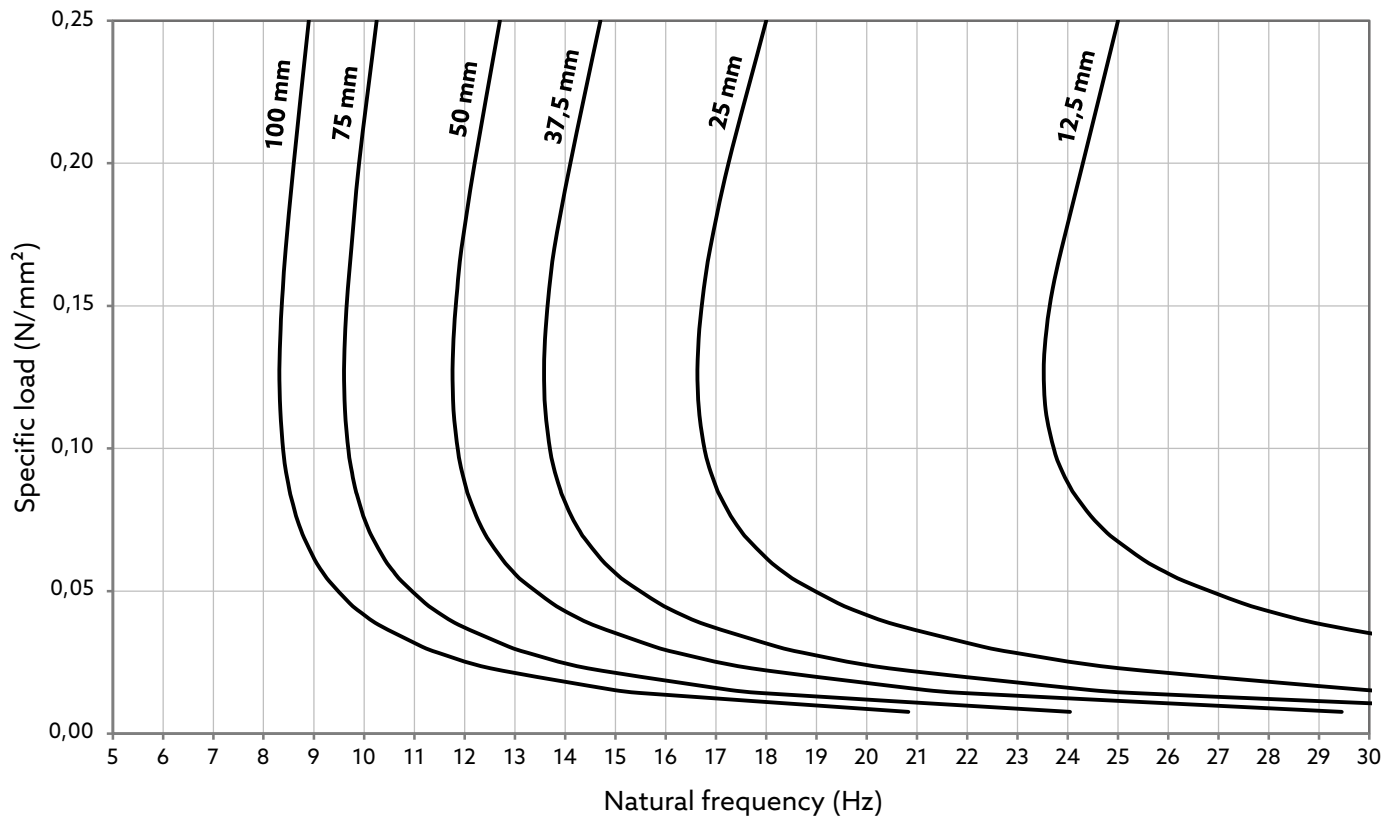


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NATURAL FREQUENCY



VIBRATION ISOLATION EFFICIENCY

