MEGAMAT 650
VIBRATION CONTROL

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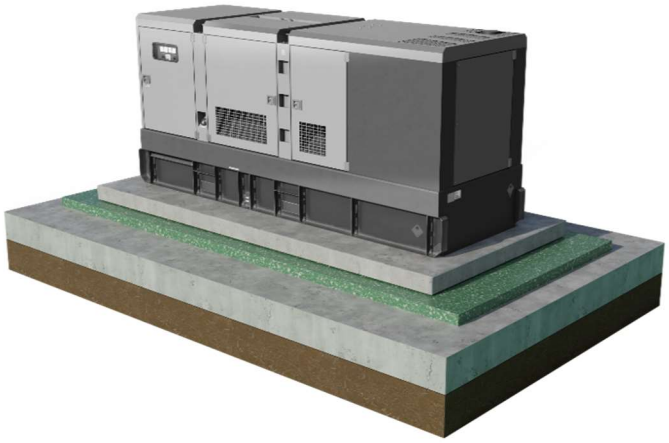
VIBRATION INSULATION PANEL MADE OF END-OF-LIFE TYRES RUBBER GRANULES AND FIBRES

TECHNICAL SPECIFICATION

Anti-vibration material supplied in panels, thickness 12,5/25/50 mm, made of rubber granules and fybres 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 650 kg/m^3. Panels dimensions are m 1,20 lenght, m 0,80 width. To be used for static and dynamic loads up to 0,60 N/mm^2.



APPLICATION AREA

Application fields	Load	Deformation
Static	up to 0,15 N/mm^2	~ 10%
Static and Dynamic	up to 0,60 N/mm^2	~ 30%
Load peaks (short time)	up to 1,50 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	650 kg/m^3	± 10%	
Stress at strain 10%	0,15 N/mm^2	± 10%	EN ISO 29470
Static Modulus of Elasticity (Es) - strain 10%	1,55 N/mm^2	± 10%	EN ISO 29470
Dynamic Modulus of Elasticity (Ed) - strain 10%	4,50 N/mm^2	± 10%	
Loss factor (η)	0,140	± 10%	
Thermal conductivity coefficient (λ)	0,090		EN 12668
Inflammability	E		EN 13501-2

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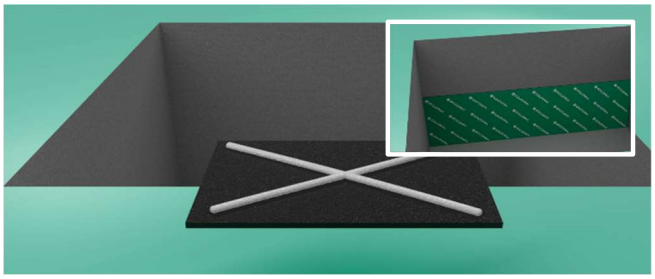
INSTALLATION INSTRUCTIONS FOR MEGAMAT

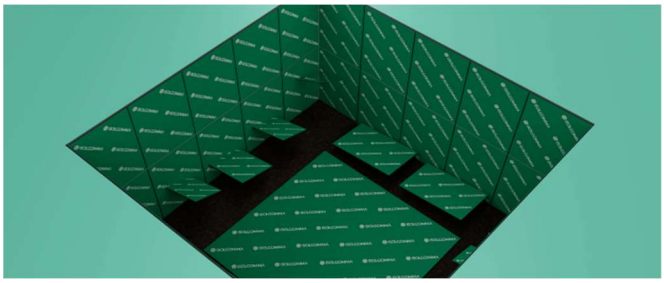
1 Prepare the excavation for the foundations and make the sub-foundation pit

2 Glue the MEGAMAT panels along the pit walls, taking care to fit them together without leaving gaps or cavities along the joins

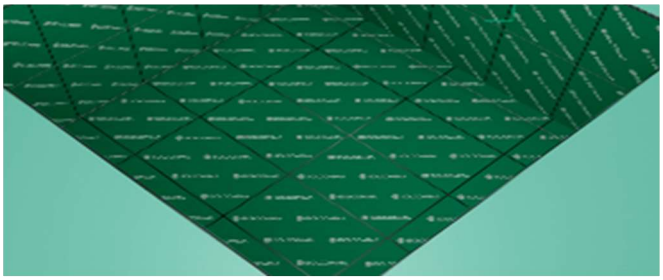


3 Seal the joins between the panels carefully with Stik tape

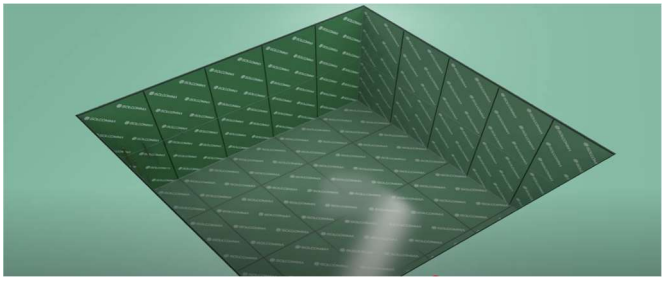
4 Lay the MEGAMAT panels on the bottom of the pit, taking care to fit them together without leaving gaps or cavities along the joins



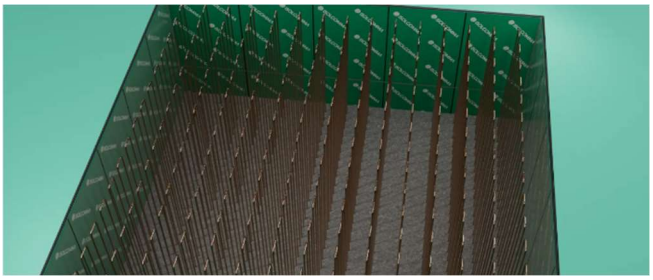
5 Seal the joins between the panels carefully with Stik tape



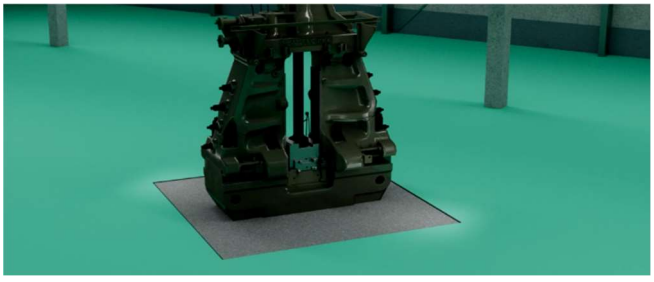
6 Lay a waterproof protective sheet over the MEGAMAT



7 Prepare and position the reinforcing bars and cast the reinforced concrete foundation plinth



8 Conclude with the installation of the machinery



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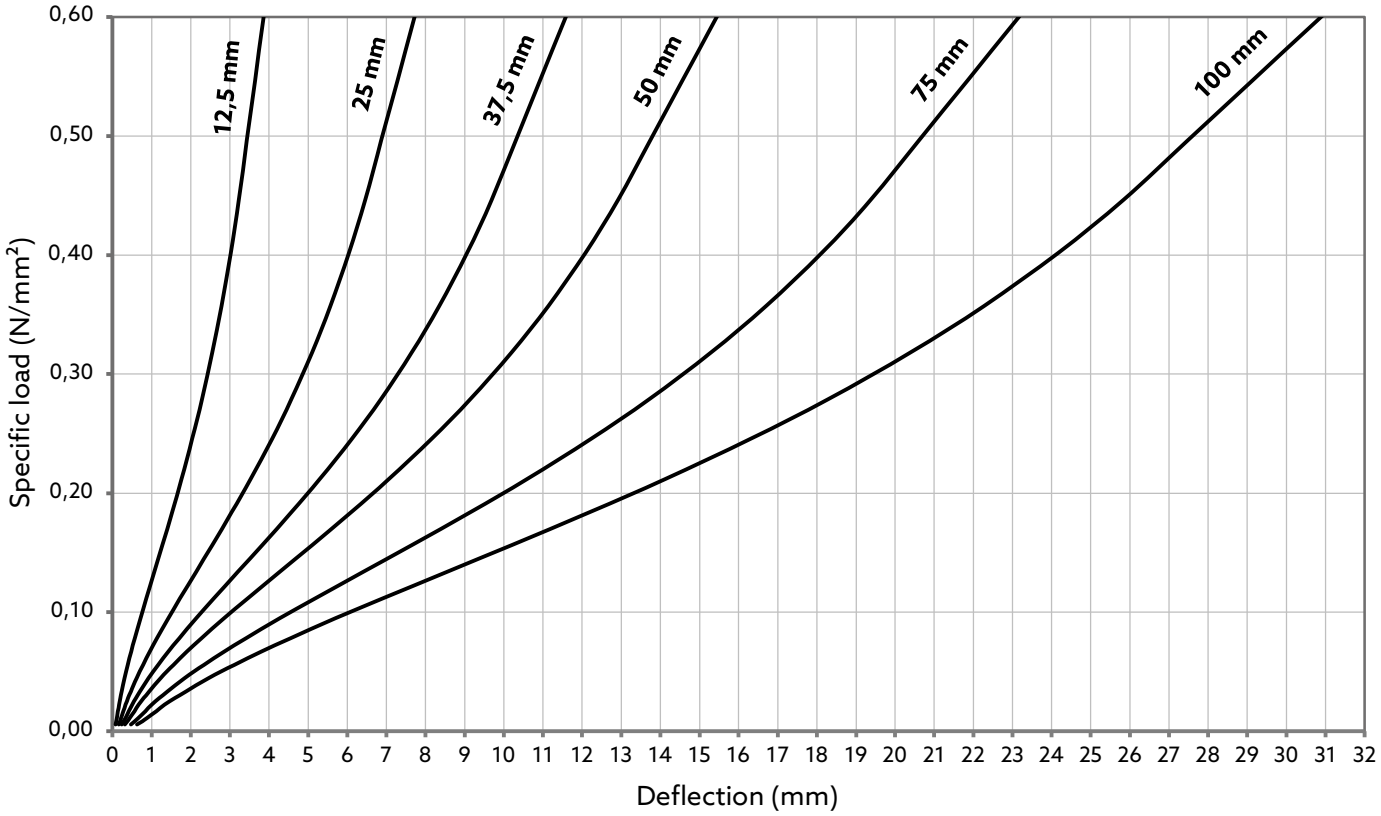
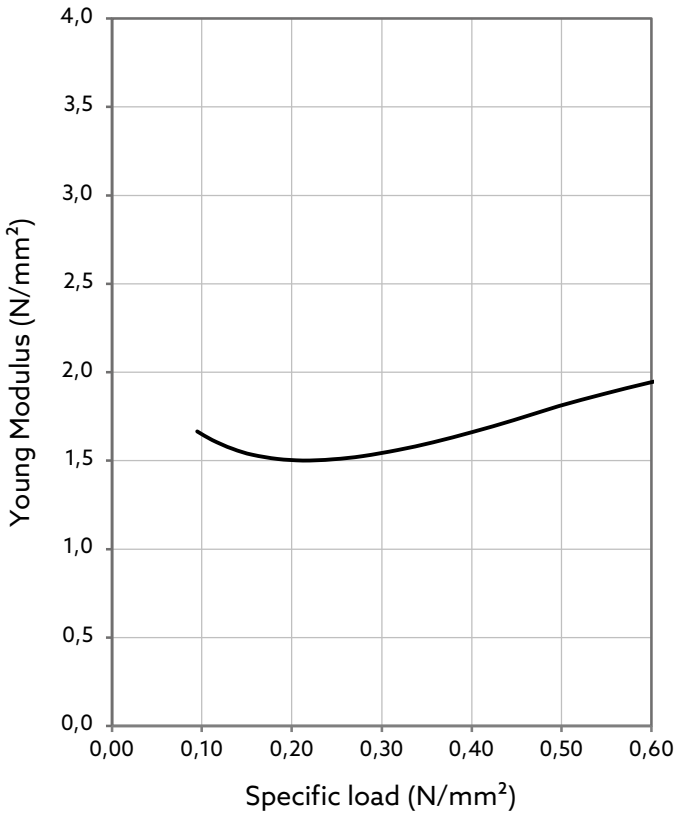
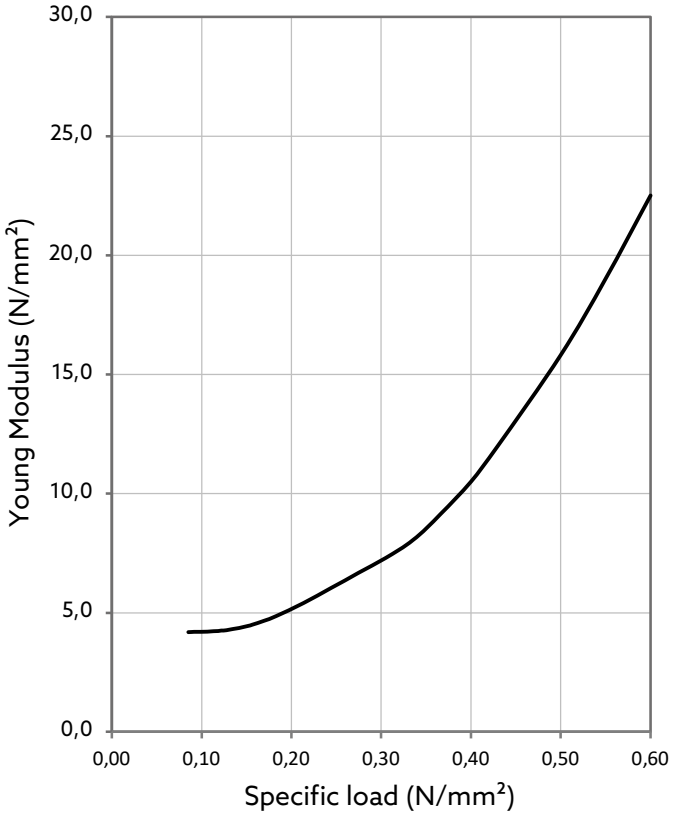
LOAD DEFLECTION CURVE



STATIC MODULUS OF ELASTICITY



DYNAMIC MODULUS OF ELASTICITY



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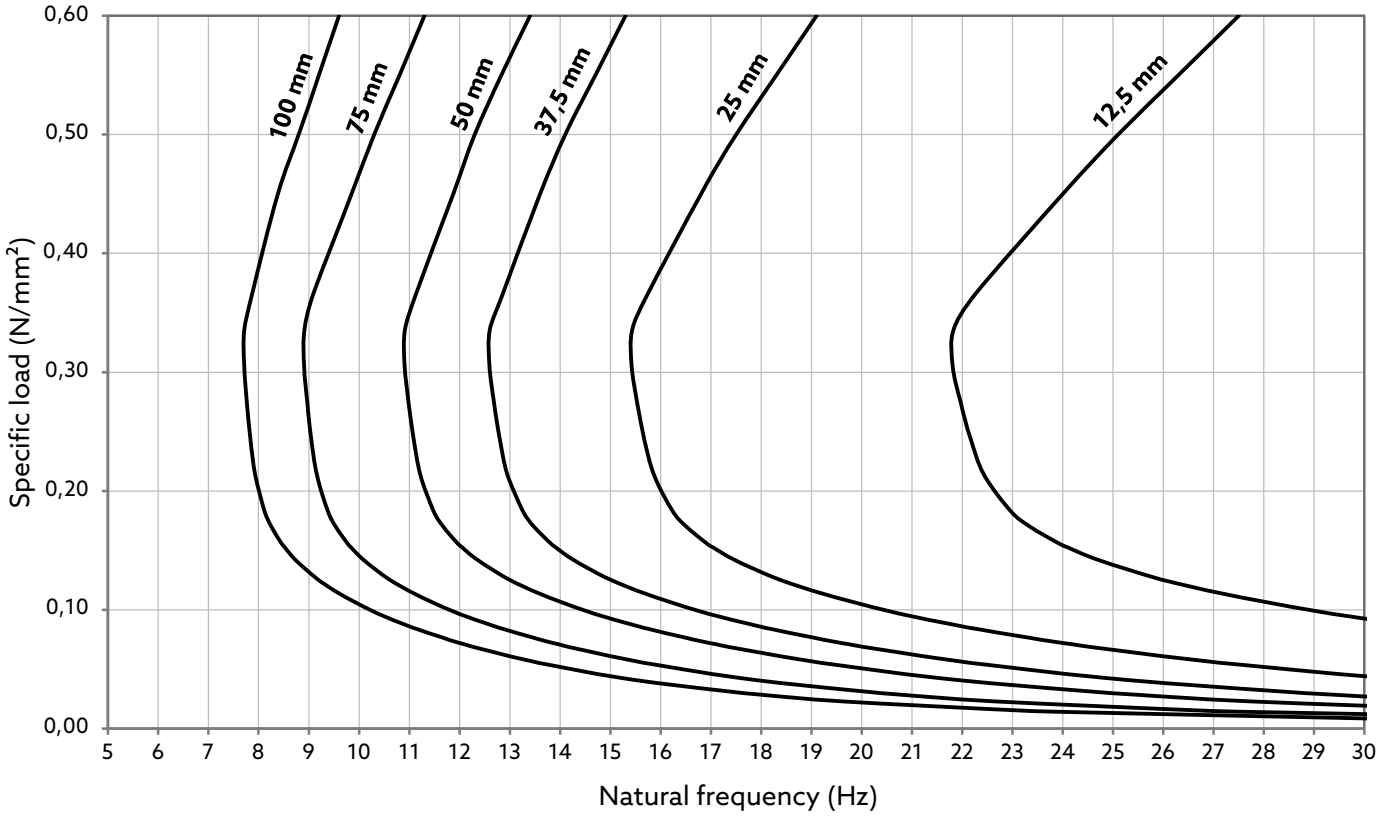
NATURAL FREQUENCY



VIBRATION ISOLATION EFFICIENCY