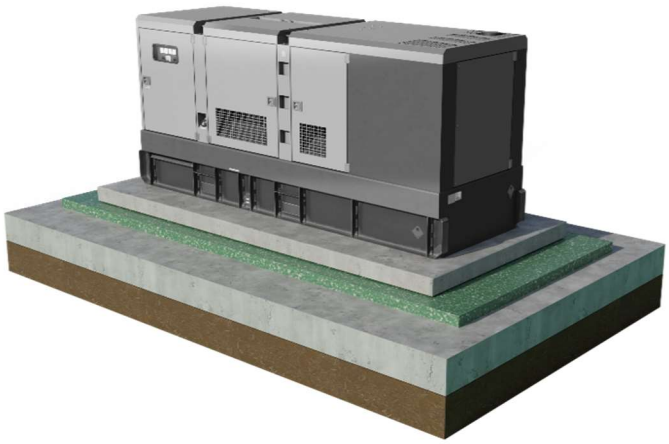
# MEGAMAT 800
## VIBRATION CONTROL

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 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 800 kg/m$^3$. Panels dimensions are m 1,20 lenght, m 0,80 width. To be used for static and dynamic loads up to 1,50 N/mm$^2$.



## APPLICATION AREA

| Application fields | Load | Deformation |
|---|---|---|
| Static | up to 0,30 N/mm$^2$ | ~ 10% |
| Static and Dynamic | up to 1,50 N/mm$^2$ | ~ 30% |
| Load peaks (short time) | up to 3,00 N/mm$^2$ | ~ 50% |

## TECHNICAL DATA

| | | Tolerance | Standard |
|---|---|---|---|
| Thickness | 12,5 - 25 mm | ± 2 | |
| Length | 1,20 m | ± 2% | |
| Width | 0,80 m | ± 2% | |
| Density | 800 kg/m$^3$ | ± 10% | |
| Stress at strain 10% | 0,30 N/mm$^2$ | ± 10% | EN ISO 29470 |
| Static Modulus of Elasticity (Es) - strain 10% | 3,00 N/mm$^2$ | ± 10% | EN ISO 29470 |
| Dynamic Modulus of Elasticity (Ed) - strain 10% | 8,80 N/mm$^2$ | ± 10% | |
| Loss factor (η) | 0,136 | ± 10% | |
| Thermal conductivity coefficient (λ) | 0,090 | | EN 12668 |
| Inflammability | E | | EN 13501-2 |

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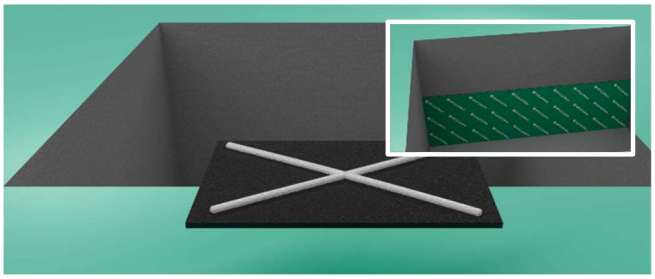
## INSTALLATION INSTRUCTIONS FOR MEGAMAT

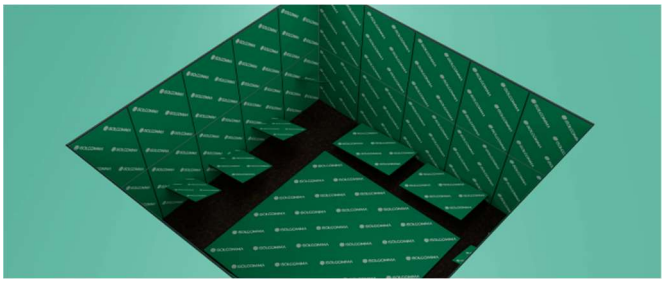
**1** Prepare the excavation for the foundations and make the sub-foundation pit

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

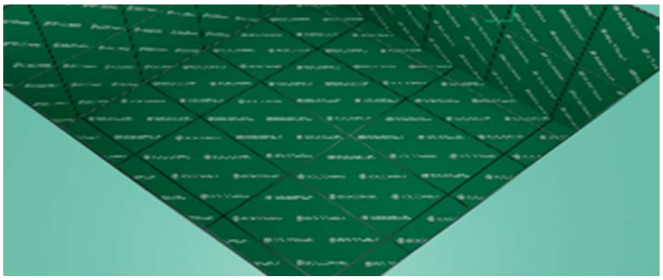


**3** Seal the joins between the panels carefully with Stik tape

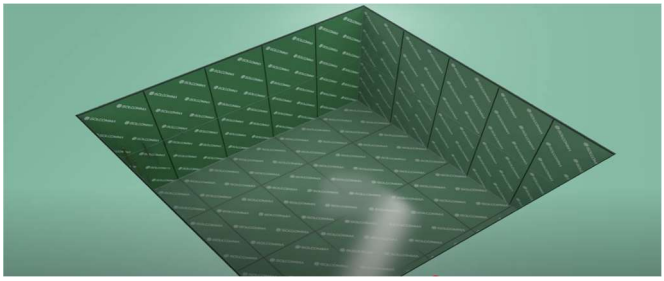
**4** Lay the MEGAMAT panels on the bottom of the pit, taking care to fit them together without leaving gaps or cavities along the joins



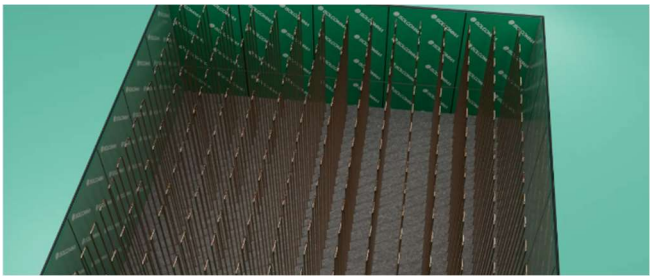
**5** Seal the joins between the panels carefully with Stik tape



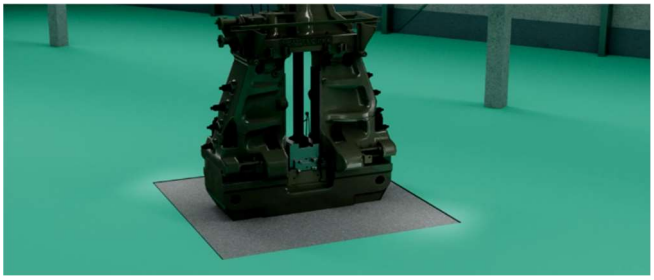
**6** Lay a waterproof protective sheet over the MEGAMAT



**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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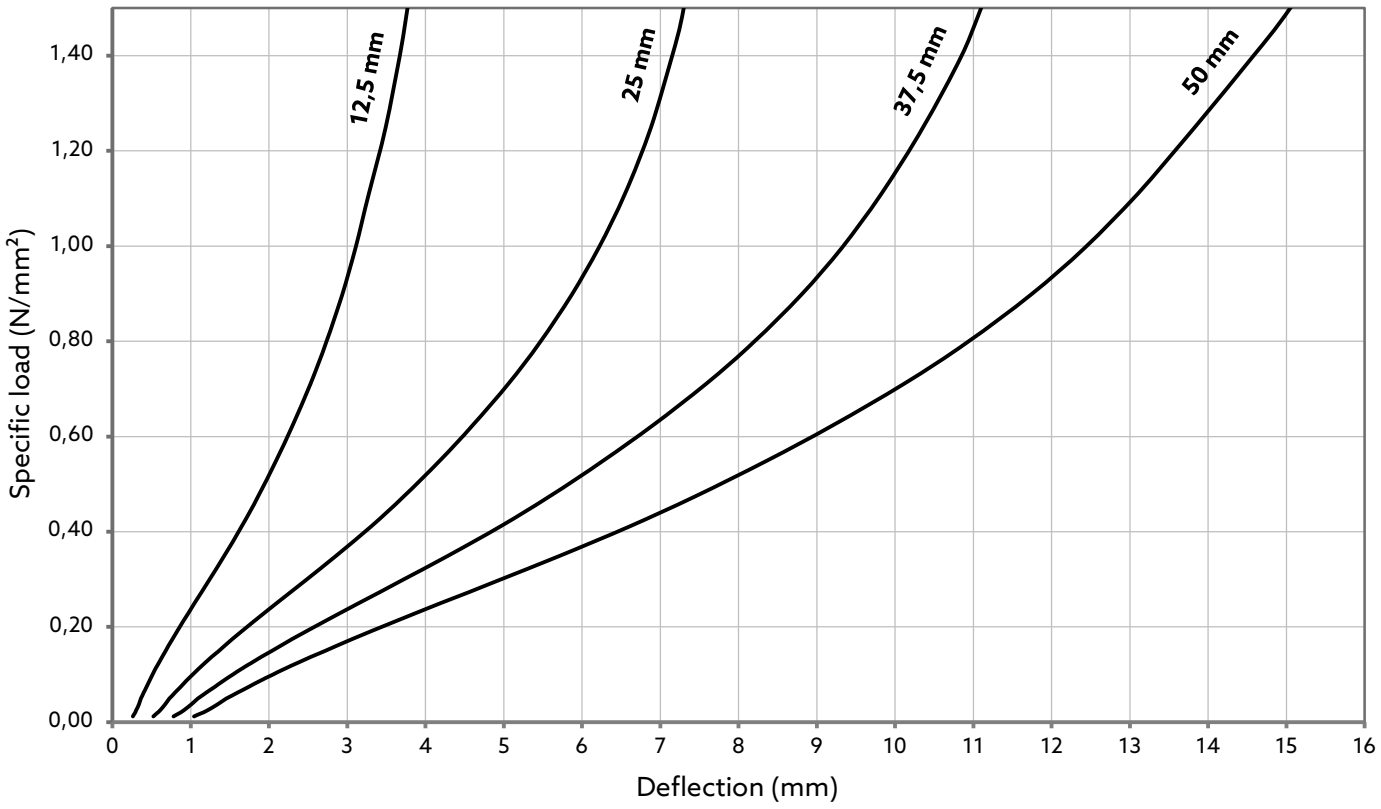
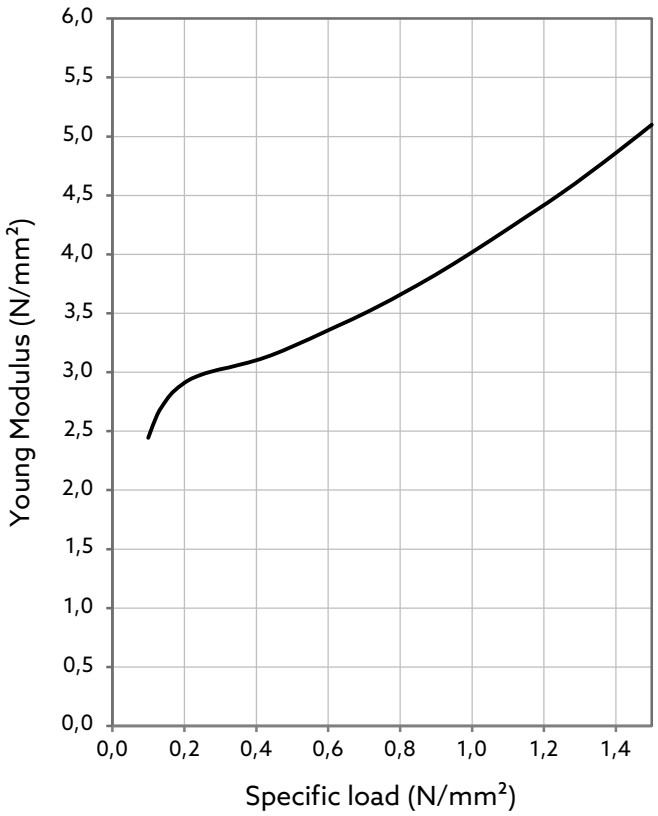
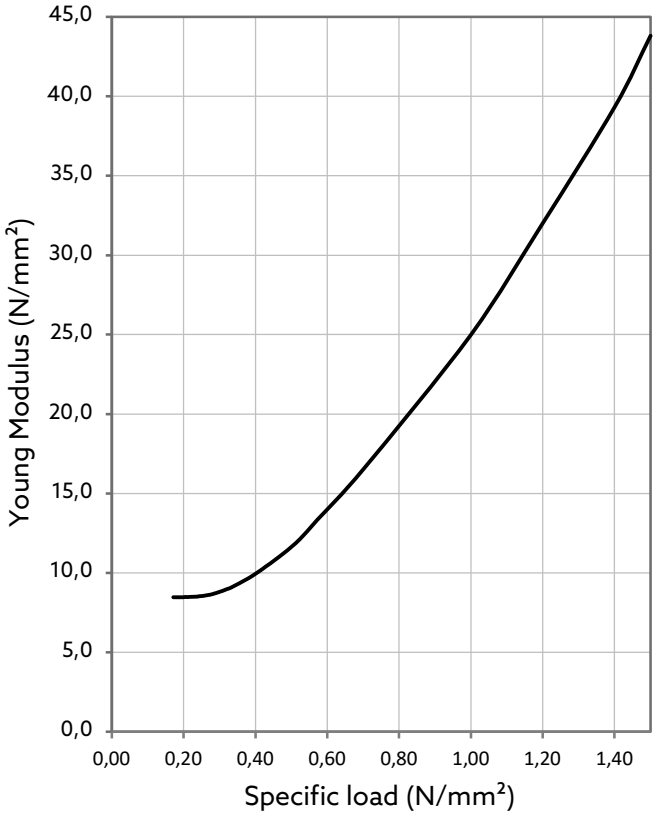
## LOAD DEFLECTION CURVE




## STATIC MODULUS OF ELASTICITY




## DYNAMIC MODULUS OF ELASTICITY



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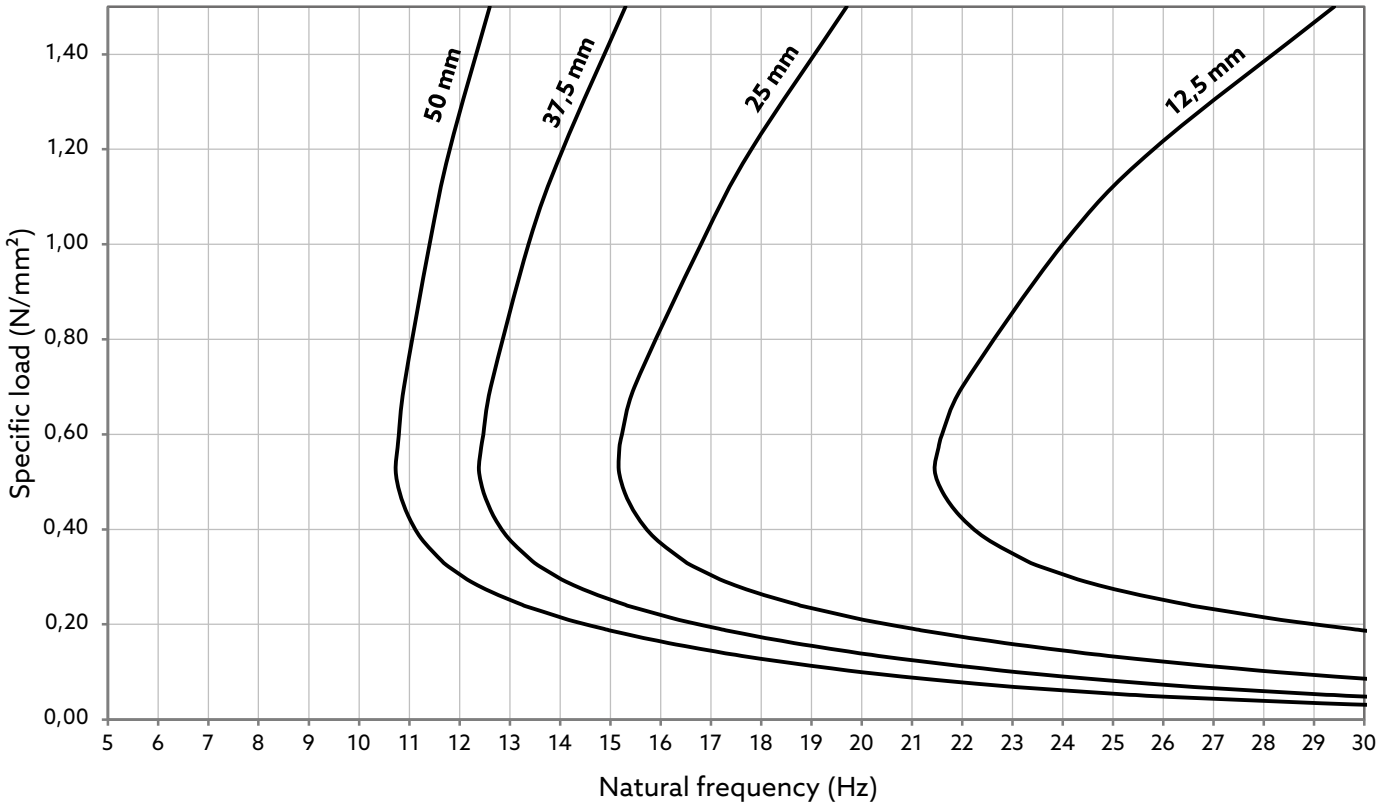
## NATURAL FREQUENCY




## VIBRATION ISOLATION EFFICIENCY