



Case Study

Metro Line 6 Depot, Beijing, China

Mass-Spring-System with
PURASYS MSS P/PN

Providing peace and quiet along the track.



1. Project

- Beijing Metro Line 6 is an important line in the Beijing Metro network connecting the eastern and western cities.
- As part of the construction phase II of line 6, the Dongxi-aoying depot section will be rebuilt and expanded.
- In order to adapt to the economic development of the surrounding Tongzhou district, a new construction project is planned. Several 6 to 10 storey residential buildings are being built directly above the station concourse.
- These residential buildings must be protected against vibrations during train entry and exit. This requires insulation measures. After evaluation of the external consultant, MFS must be used for the interior of the station.
- The minimum vibration insulation requirement is 9 dB (according to Chinese standard). According to the design, the set natural frequency is 16 Hz. Converted according to Chinese standards, the insertion loss is 12 dB.

2. Installation

The elastic components in the Mass-Spring-System PURASYS MSS P were installed according to the installation instructions of PuraSys GmbH & Co. KG. In addition, punctual bonding of the mat to the substrate is desired for better adhesion.

As with any other project, an installation plan is developed by PuraSys GmbH & Co. KG in advance. This makes it easier for the installation team to install the MSS and avoids errors during installation.





Installation procedure:

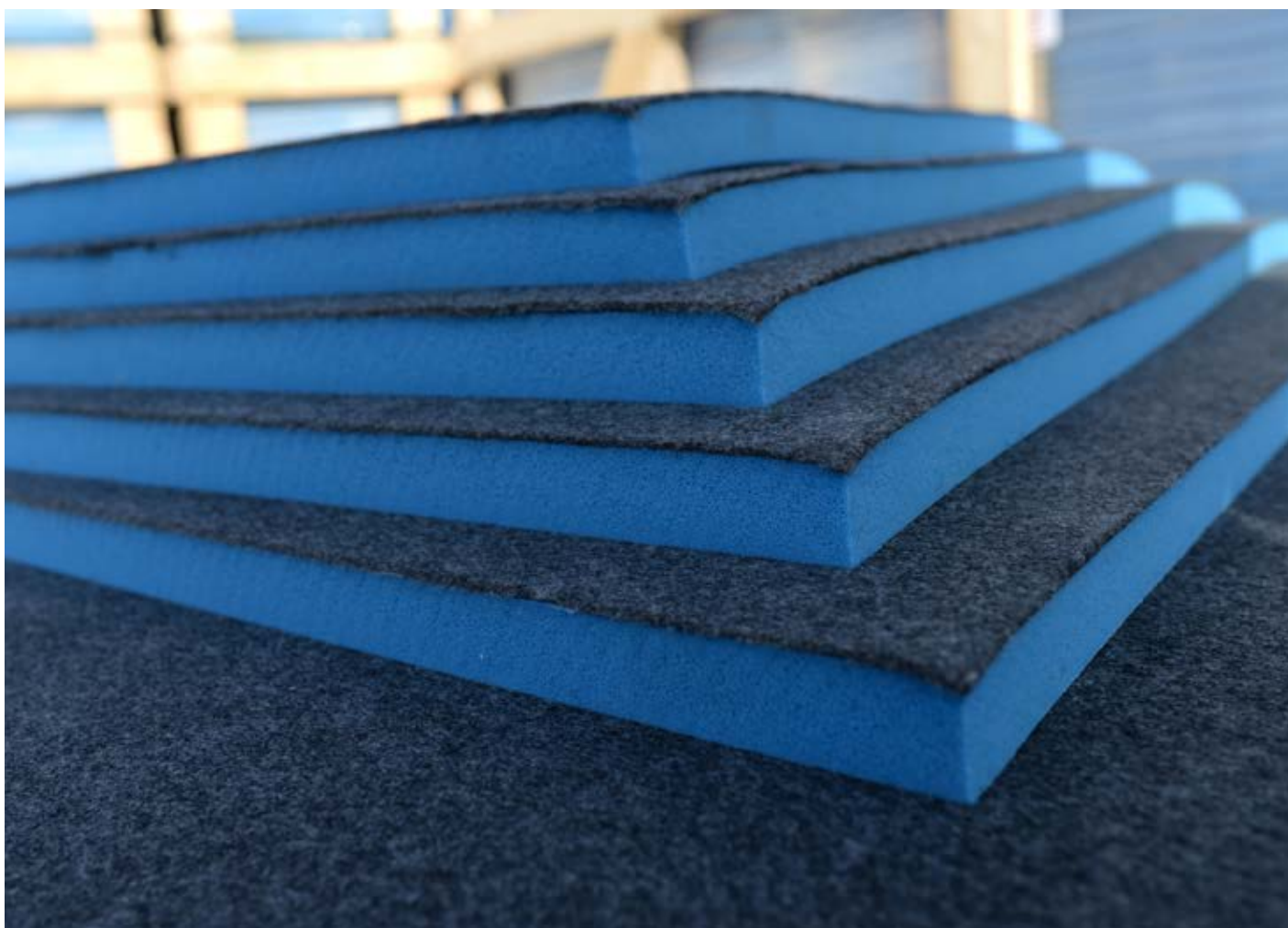
1. Cleaning the surface to be laid
2. Distributing the 2K-PU adhesive
3. Laying of MSS P products
 - In the depot area PURASYS MSS P 2028 floor mat was installed. Subsequently, the slab track was concreted.
 - After the roadway had dried out, the side mat was glued to both sides of the paved roadway.
 - The side walls of the concrete trough were concreted on the outside of the side mat at the end.
4. The mat joints were glued with a 10cm wide geotextile adhesive tape. This tape prevents the penetration of concrete / concrete milk into the mat joints.



3. Technical data

Bearing for Mass-Spring-System		
PURASYS MSS P/PN		
	Type	PURASYS MSS P2028
	Width	28 mm
	System	Full-surface installation in slab track
	Amount	25.000 m ²

Beijing Metro Linie 6		
Dongxiaoying Depot		
	Track class	N.A.
	Max. speed	20 km/h
	Max. Axle loads	7 t







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