

Metro of Lisbon, Portugal



Floating Slabtrack CDM-DFMA



CDM Partner

Permanent Way Owner & Client

Typical Project Data

Project

Type of Rail

Axle Load

Track type:

Specifications for FST

Condition

Thickness of concrete

Static Bedding Module

Dynamic Bedding Module

Max. Track deflection

Insertion isolation

CDM Supply

Execution / Operation

CDM Portugal

METROPOLITANO DE LISBOA - PORTUGAL

Building of new underground track

U50

≈ 100 kN

Biblock sleeper

Underground tunnel

300 mm

8 - 12 MN/m³

12 - 18 MN/m³

< 2,8 mm

Hz | 31,5 40 50 80 100 125

dB | 5 10 15 20 20 20

DFMA-L13 (CDM-PF family)

2002-2003 / 2003-2004



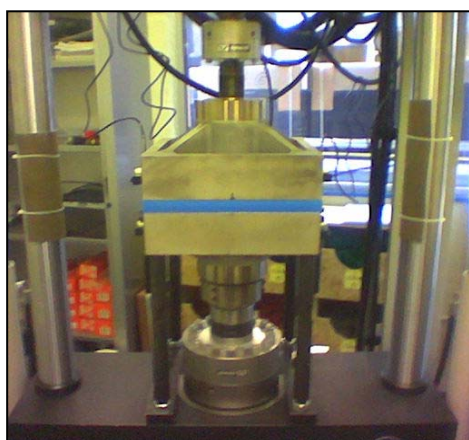
Metro tunnel Lisboa

METROPOLITANO DE LISBOA, the main underground operator in Lisbon city, is expanding its network lines, which will reach a length of 40km (double track) with 52 stations.

Based in an acoustic evaluation and after a public tender, CDM was selected to supply and install the resilient mat for the floating trackbed system, according ML specifications. CDM supplied the solution for two lines: Yellow Line (Odivelas - Rato) and Blue Line (Falagueira – Santa Apolónia).

The main selection criteria were:

- Fulfill the specifications (vibration isolation and track deflection)
- To be easily installed
- Material durability



Lab test with Instron test device



View on the installation of the mat: all joints are well taped off

CASE STUDY - CDM-ISO-TRACK

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noise & vibration control

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