

PANDROL CDM TRACK

Sustaining the way

FLOATING SLAB MATS

SYSTEM DATA SHEET



 **PANDROL**
CDM TRACK

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FLOATING SLAB MATS

(CDM-FSM)



SPAIN



QATAR



ITALY



CDM-FSM (Floating Slab Mat) is a continuous resilient mat used in Floating Slab Track vibration insulation systems. The system is based on the principle of a mass-spring system; where the mass of a concrete slab is elastically supported by a continuous elastomeric material.

APPLICATIONS & BENEFITS

THE VIBRATION ISOLATION PERFORMANCES CAN BE TUNED BY MODIFYING:

- Mitigation of vibration transmission, generated by rolling stock, into neighboring environments
- Reductions of 15dB(v) and up to 25dB(v) (of recorded vibration levels) are possible as a function of mat stiffness and slab properties
- Insulation performance can be tuned by either modifying the stiffness of the mat or the properties of the slab
- CDM-FSM is compatible with all types of rail and track systems
- Straightforward installation

SPECIFICATION

Track application category	LRT, metros, main and high speed lines
Materials	Resin bonded rubber (RR family) Protection layer in Polypropylene non-woven geotextile
Setup	Possible to install in single, double or triple layer plus an underlayment layer if necessary.
Thickness range	Single layer of the elastomer part: 15 – 30 mm Non-woven protection layer: 1,8 mm Total system thickness: 16,8 – 61,8 mm
Geometry	Flat or wavy mat
Density range	550 – 710 kg/m ³
Static bedding modules range	5 – 100 MN/m ³ according to DIN 45673-7
Dynamic bedding modules range (10Hz)	12 – 150 MN/m ³ according to DIN 45673-7
Supply	Rolls or sheets
Top joint	If lateral mat is a wavy mat, high density RR material or an elastic joint can be poured



Visit PandrolCDMTrack.com for more information about the FSM system