PANDROL CDM TRACK
Sustaining the way

FLOATING SLAB PADS
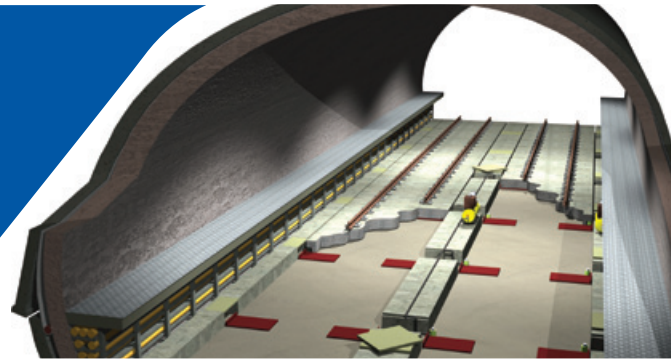
SYSTEM DATA SHEET

PANDROL
CDM TRACK
A DELACHAUX GROUP

FLOATING SLAB PADS
(CDM-FSP)

CDM-FSP (Floating Slab Pads) are discrete pads used for Floating Slab Track vibration isolation systems. The system is based on the principle of a mass-spring system; where the mass of a concrete slab is elastically supported by resilient bearings.

APPLICATIONS & BENEFITS

- CDM-FSPs offer a high level of flexibility and control over the dynamic and static behaviour of the track and are completely adaptable to particular on-site characteristics and performance requirements

- Reductions up to 25dB(v) (of recorded vibration levels) are achieved

- Low resonance frequency ($\approx$12-16 Hz) & high vibration insulation (15-25 dBv) in the frequency range of interest (30 – 200 Hz)

- Reduction of maintenance and increased lifetime of track components (slower corrugation development)

- Quick installation of the pads with precast slab

- The CDM-FSP system can be tuned for any construction requirement (thickness, stiffness, rail deflection) by modifying:

  - the stiffness of the bearing (material composition & shape)

  - the distribution of the bearings

  - the suspended mass and the stiffness of the supporting structure

- Bearings are easily accessible and can be replaced if needed, depending on the track installation.

- CDM-FSP is compatible with all types of rail and track systems.

- If required, CDM-FSP can be applied to Fibre-cement formwork panels

SPECIFICATION

Track application category	LRT, metros, main lines
Materials	Resin bonded rubber (RR family)
Setup	Discrete Pads spaced at regular intervals on both side under the slabs
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	Rectangular shape (200 mm to 600mm)
Density range	710 – 1000 kg/m³
Static bedding modules range	2,5 – 20 MN/m³ (according to DIN 45673-7)
Dynamic bedding modules range (10Hz)	7,2 - 50 MN/m³ (according to DIN 45673-7)
Supply	Discrete pads
Joints	Not needed

BRAZIL

Visit Pandrolcdmtrack.com for more information about the FSP system

PANDROL
CDM TRACK
© DELACHAUX GROUP