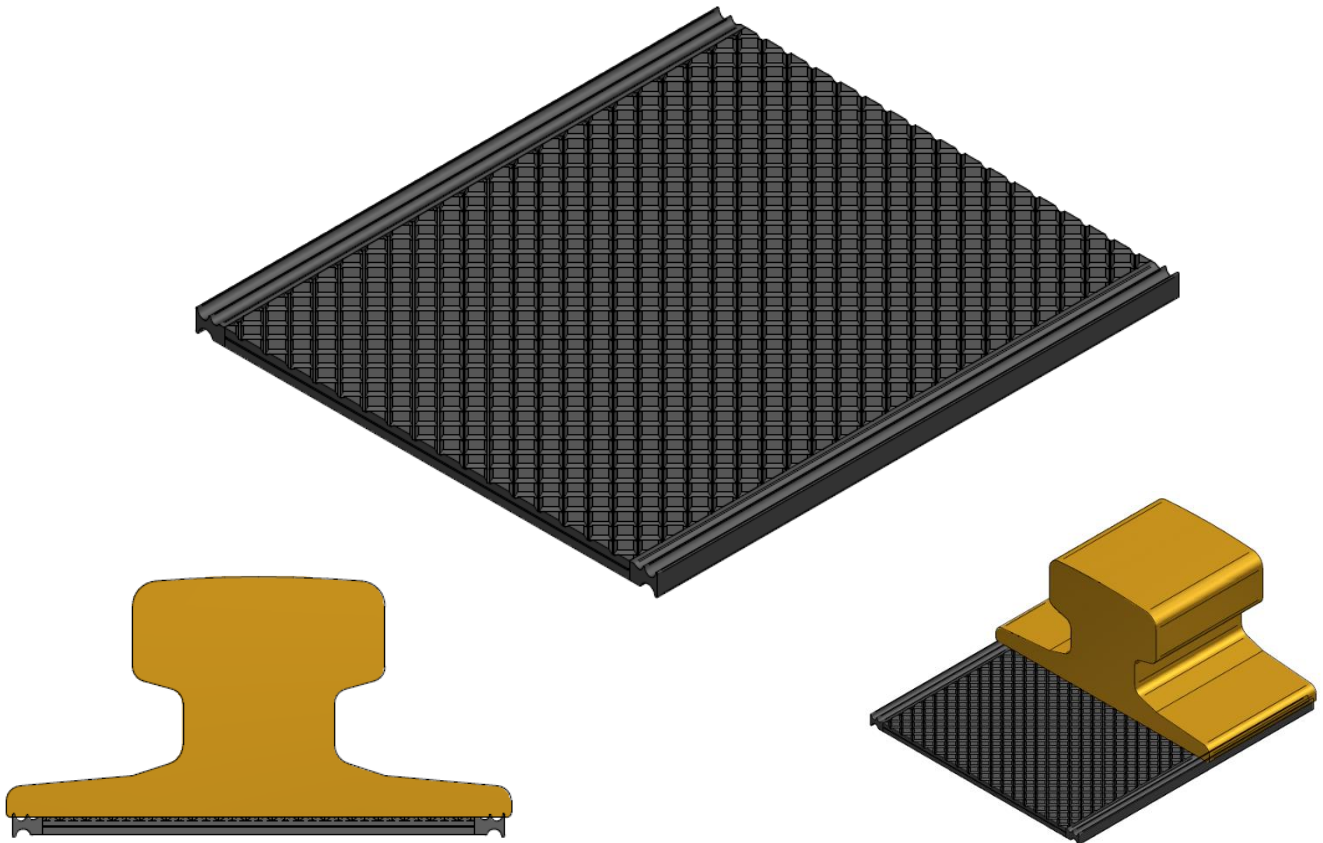


Bemorail Steel Reinforced Resilient Pad
For Continuous Rail Support



The NEW Bemorail MK10 pad is an evolution of the already proven and highly successful MK6 pad.

Bemo Rail MK10 steel reinforced pads have been specially designed for the soft mounting of crane rails, and its support substantially improves the performance of heavy duty crane tracks.

The “redesigned edge seal” including a re-orientated flute pattern on its top surface and protecting seals virtually eliminates the ingress of contaminants and water which can cause premature failure of the pad, rail and support structure.

These seals also improve the compression caused by the nose of the clip, preventing pad movement when the pressure of the rail is released.

The updated “design of the grooves” avoids high stresses and resultant damage due to high loads, rail twisting and oscillation.

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Cranes apply very high forces to the structures on which they are mounted.

The pad significantly reduces the stress between the rail and its support.

Bemo Rail – Steel Reinforcement Pad:

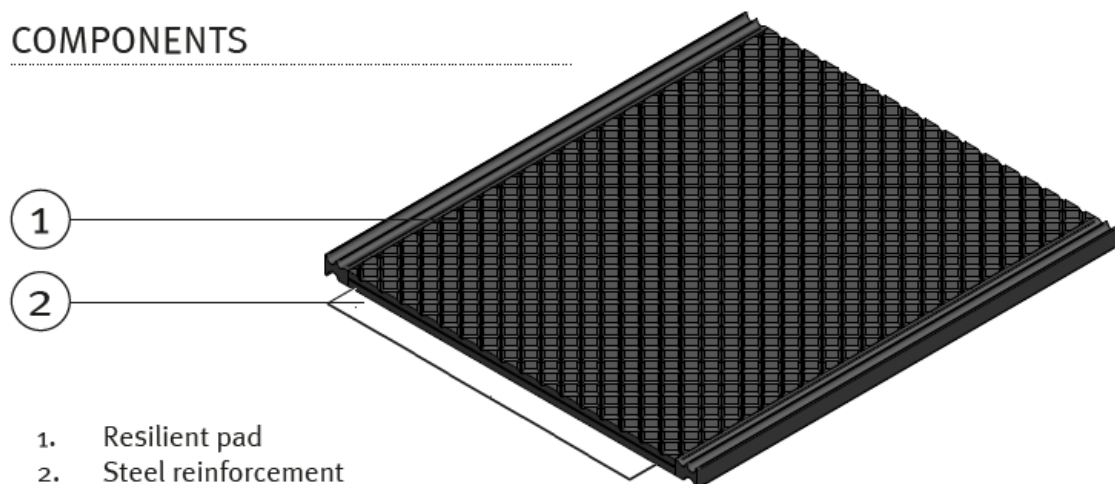
New features.

- Eliminate the ingress of dirt and water.
- Improve the compression created by the nose of the clip Also the fluted top surface results in a two stage stiffness characteristic.
- Avoid high stresses and pad damage caused by crane oscillation and rail twisting.
- The flutes now exit the sides of the pad so that as the voids are reduced in size during loading, any fluid is flushed out carrying with it debris and other contaminants.
- By orientating the flutes at an angle of 45 degrees, the resistance to lateral tearing induced by rotational forces from the rail, has also been vastly improved over the previous longitudinal flute design.

Maintained features.

- Are manufactured as a vulcanized synthetic elastomer strip, reinforced with a steel strip. The upper face is grooved.
- Reduce the wear of the rail and its support:
 - Absorb the uneven surfaces.
 - Improve the contact between rail and support.
- Are specially to wear, shear, crushing, oil, greases, oxygen and ultra violet rays.
- Are designed for service temperatures from -25°C up to 110°C , especially owing to low and high temperature pads.
- Reduce noise and vibration: noise: typical reduction of 12:
vibrations: typical reduction of 45%-50%

COMPONENTS



Bemorail Steel Reinforced Resilient Pad For Continuous Rail Support

Material characteristics:

- Composition: synthetic elastomer reinforced with a steel strip.
- Shore hardness: $75^{\circ}\text{A} \pm 5^{\circ}$
- Max. Tensile strength: $17,5 \text{ N/mm}^2 - 15,0 \text{ N/mm}^2$ after ageing.
- Elongation: 305% as supplied – 240% after ageing.
- Working temperature: -25 C° to $+110 \text{ C}^{\circ}$
- Vibration reduction: 45%-50%
- Rebound resilience: 12%
- Permanent Set: $<5\%$ ($<20\%$ after aging)

Overall dimensions shall be:

Pad width Rail foot width, plus 0, less 5 to 6mm

Pad thickness 7mm nominal (- 0mm / + 0.5mm)

Pad length 12m (minimum)

The reinforcing shall be of steel with the following characteristics:

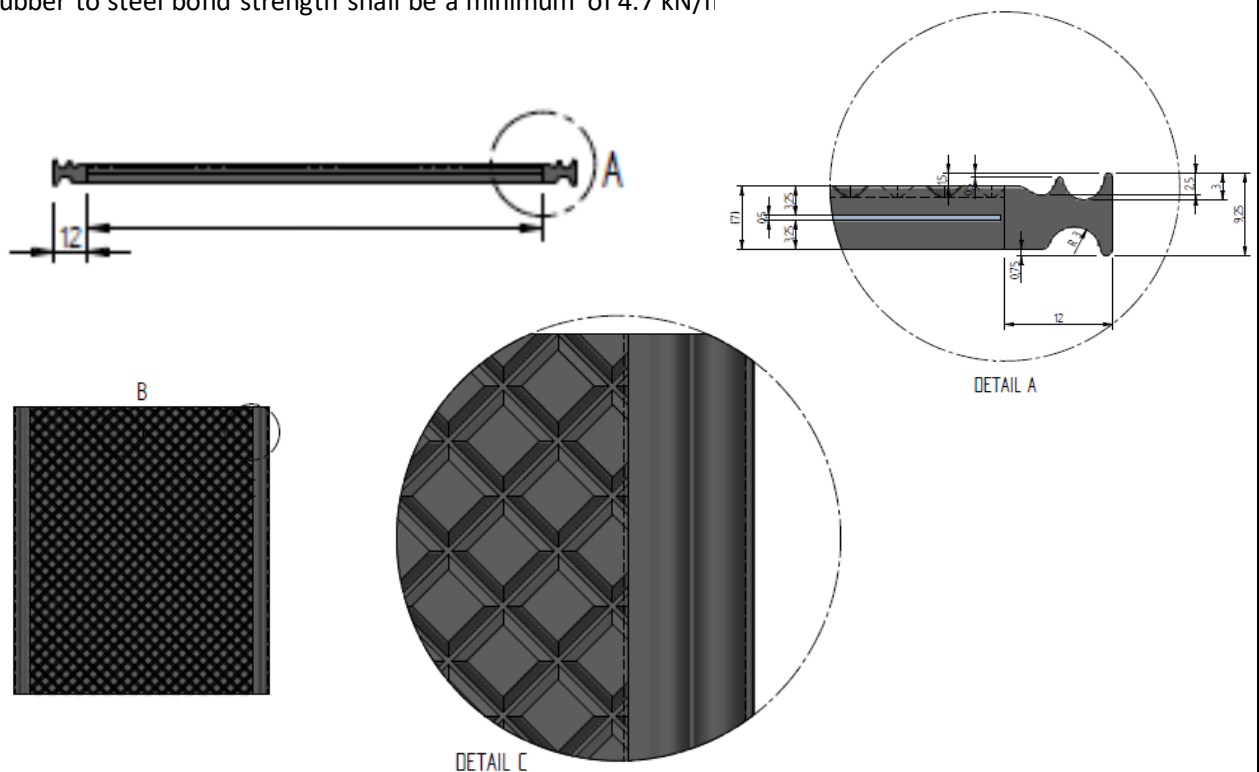
Minimum thickness 0.7mm

Minimum width 60% of the pad width

Tensile strength 690 MPa

The rubber shall be securely bonded to the steel by means of a vulcanization process.

Rubber to steel bond strength shall be a minimum of 4.7 kN/n°



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Installation instructions:

Rail pad should be narrower than the rail it is supporting (nominally 5mm).

The pad is normally supplied in 12 meter lengths.

The flutes of the pad are placed facing upwards. The pad may be cut to precise length of rail. It can be cut with a hacksaw or jigsaw.

No installed length of pad should be less than the spacing between three pairs of crane rail fixing clips.

Before installing MK6 pad, the supporting area should be clean and free of oil, grease or any projections likely to damage the pad.

It is preferable that the steel structure below the pad is not painted.

If the rail is to be welded the pad should be protected from excessive heat during welding by being removed under the weld or by being protected with a thermal barrier.

Our technical department will be pleased to advise on the suitability of Mk10 pad in specific installation conditions.