



The optimum elastomer solution for every railway track

**ELASTIC**

**RAIL PADS AND BASE PLATE PADS**

for high-speed traffic and conventional lines

# SECURELY AND EVENLY BEDDED

PROTECT TRACK BED STRUCTURES WITH CALENBERG

Our EPDM elastomers ensure high elasticity in track bed structures and protect the overall bed structure system thanks to the properties in the material.

This reduces maintenance and repair costs for our clients substantially.

RAIL  
PADS











## Areas of use

Elastic **RAIL PADS** are installed directly beneath the rail base to protect the track bed structure and increase elasticity in ballast beds. Elastic EPDM rail pads can be manufactured in a variety of dimensions for different rigidities as per client requirements for different needs, **ranging from metros and tramways through to high-speed traffic**, thanks to their microcellular structures ( $c = 20\text{--}200 \text{ kN/mm}$ ).

The elasticity required for ballastless track systems is guaranteed by highly elastic **BASE PLATE PADS** and installed between the ribbed base plates and the supporting concrete slab with a spring rigidity of  $c = 5 - 60 \text{ kN/mm}$ . This ensures a load-spreading effect in the rails and greatly reduces any vibrations and structure-borne sound.

Our products are quickly and easily installed directly beneath the ribbed base plate. The support point manufacturer's instructions must be followed when doing so.

## State-of-the-art in-house test equipment



The new 160 kN servo-hydraulic test machine can be used to perform static and dynamic tests on our EPDM elastomers between  $-40 \text{ }^\circ\text{C}$  and  $+100 \text{ }^\circ\text{C}$  as per EN 13146-9, EN 13481, DBS 918235:2017 and DIN 45673.

The test machine features a special thermal cabinet, meaning all relevant material properties can be reliably tested and documented. It is mandatory for us to arrange comparative measurements on a rotating basis with technical universities and testing institutions.





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