

SUCCESS STORY

RAILWAYS

PROJECT DATA

Brief description

Installation and integration of the Calenberg elastic EPDM Rail Pads into the RHEDA CITY G ballastless track system.

Requirement

Measures at the track superstructure to reduce airborne and structure-borne noise caused by the new tram line and to ensure a high level of travelling comfort through precisely defined deflection.

City, Year Augsburg, 2020

PROJECT DESCRIPTION

In the course of 2021, the new Line 3 will be 4.6 km, directly connecting the cities of Königsbrunn and Augsburg. The new tram line runs mainly on grass and only in technically necessary areas, for example at level crossings, on asphalt. Significant sections of the line are equipped with the Rheda City G track system, which allows elastic and discrete support of the rail. As an additional damping measure for the rail, elastic rail pads are integrated into the track system to effectively reduce vibrations and thus protect residents from noise and ensure a high level of travelling comfort.

SOLUTION

The use of highly elastic microcellular EPDM rail pads in optimised permanent way also efficiently and permanently minimises the transfer of vibrations into the substructure, protects the track system and reduces rail emissions. The integration of the elastic rail pads into the slab track system is an effective measure against the development of structure-borne noise and to protect the track superstructure.

Augsburg, extension of tram line 3



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