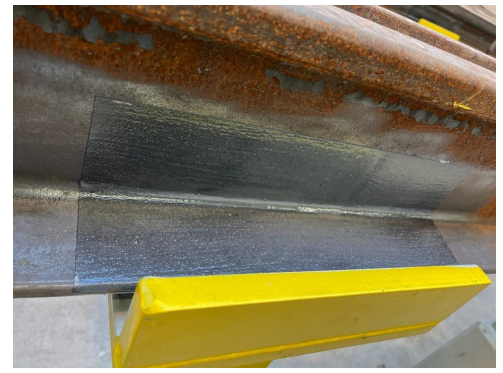




SIKA AT WORK

Repair of the assembly channel in hall No.6, depot Liberec

Rail fixing for halls and assembly pits without anchors



REQUIREMENTS:

The intent of the project was to design the rail fixing to the steel racks in an anchorless manner and in such a way as to provide electrical resistance to the rail. The investor's intention was to make the tram sets as accessible as possible for repairs and maintenance. This included the repair of the floors, where a robust floor system was used.

SUBJECTS:

Investor: Transport Company of Liberec and Jablonec nad Nisou, a. s.

Applicator: Hans Wendel CZ

Designer: V-con s.r.o.

PRODUCTS:

Icosit KC 340/7 – pouring the rail on the steel stand into the U-groove (over the rail heel),

Sikadur-32+ – rail primer,

SikaCor-299 Airless – steel groove primer,

Sika anchorfix-3030 – chemical anchor for anchoring threaded rods,

SikaGrout-800 steel rack heel underlay,

Sikafloor Multiflex PB-32 floor system

SOLUTION:

Following a request from the investor and collaboration between interested parties, a unique anchorless rail fixing system for service halls and assembly pits was developed. The system consists of a steel column that is topped with a "U" shaped groove. The rails are attached to the trough with Icosit KC. Icosit KC was used to both underlay the rail foot and to overlay the rail foot to the height of the rail neck. The uniqueness of the system lies in the simplicity of rail alignment, speed of application and commissioning. Compared to the traditionally used solution, it is not necessary to weld the base plates to the steel posts (the base plates have been completely eliminated from the composition). As a result, the structure is airy with plenty of space for the operating personnel and the rail itself is not conductively connected to the steel posts. At the fixing points there is Icosit KC, which has excellent electrical insulation properties.

As part of the refurbishment carried out, the floor was also repaired. Due to the stresses on the floor and the requirement for slip resistance, a robust Sikafloor Multiflex PB-32 flooring system was chosen.

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