

WALKING SURFACES IN TRAIN WASHING STATIONS

LOCATION

Due to the assignment and in view of the European soccer championship organisation to Ukraine in 2012, the State Administration of Railway Transport – Ukrzaliznytsia, undertook great efforts for the renovation of the national railway lines in order to align them to the European quality standards.

CLIENT

This company runs most of the rail transport of the country for a total of 23000 km.

LOCATION

RAILWAY STATION KHARKOV -
UKRAINE

USE

PEDESTRIAN COVERINGS ON
GULLIES

PRODUCT

GRATING SCH 38/30_IFR



OBJECTIVE

The customer needed to make a walking surface on the gullies inside Kharkov's train wash station. The technical specifications for this application required a product with a copious drainage system because of the large quantity of flowing water during the functioning of the plant and a non corrosive material because of the continuous contact with water and cleansing substances. No performance decrease must occur in the course of time. The purpose was to guarantee the safe working of the operators on wet and slippery surfaces. These surfaces also have a potential electric risk. These coverings also needed to be light and easy to remove for the recurring cleaning of the gullies.

SOLUTION

For the installation in extremely humid environments with continuous temperature variations and wet/dry cycles, M.M. ha suggested and successfully installed SCH 38/30_IFR type molded gratings in glass reinforced polyester resin which are certified as long-lasting with no mechanical deterioration according to the UNI EN ISO 9142/04 norm. In the cases where the wide spans required an intermediate support M.M. has proposed isophtalic resin pultruded profile beams for the support of gratings which have an open span of 31x31 mm. The customer has considered these gratings as a perfect solution for the drainage of the water and weighed their high adherence level obtained with the quartz sand antiskid treatment that reaches the R13 V10 top level according to the DIN 51130 norm. The total dielectric property of the material completely cancels the risk of contact of the electric locomotives in a humid environment and grounding is not necessary. The light weight of these gratings, 15 kg/m² makes them easy to remove and could be handled by a single worker during the cleaning activity even though they could stand a 500 kg/m² load.