

REMOVABLE PARAPET FOR A TRAM DEPOT IN LIEGE

CLIENT	DUCHENE S.A.
LOCATION	LIEGI, BELGIO
USE	350 LINEAR METERS OF PARAPET IN REMOVABLE MODULES AS PROTECTION OF MAINTENANCE LINES FOR TRAM VEHICLES
PRODUCT	FRP PREFABRICATED PARAPET; CUSTOMIZED BASE PLATES FOR FASTENING
SERVICE	PARAPET DESIGN, CUSTOMIZED STEEL FASTENING ELEMENTS DESIGN, ASSEMBLY AND SUPPLY



OBJECTIVE

The project for the Liège tram depot included the realization of a **broad gangway system serving the three maintenance lines for the railway carriages**. Such system required the installation of a removable parapet system on one side, in order to allow the workers to do the necessary operations on the vehicles. Originally, the plan included a modular steel parapet solution, that should have been assembled in order to be installed in dedicated circular recesses at the walking surface level.

SOLUTIONS

The M.M. Technical Team developed a **parapet system fully compatible with the project's specifications and restraints**. The choice of the FRP solution allowed to significantly reduce the weight of the modules, thus resulting in an easier handling while ensuring a proper protection from falling in the workspace.

The project has been realized as a completion of the gangways' steel structure. For this reason, it hasn't been possible to modify the circular shaped accommodation holes in order to install the standard square-shaped FRP posts. To solve this problem, **M.M. developed a special galvanized steel adaptor**, designed and built to realize an optimal fitting with the existing holes and ensuring an effective connection between the sections. The parapet modules have been supplied preassembled; the packing has been optimized in order to reduce transport costs and ease the installation process.