

# WALKWAYS IN TRAIN MAINTENANCE WORKSHOP

## LOCATION

The Rome-Naples line is one of the first lines that has been redeveloped for the “high speed” passage. Naples train station and its servicing workshop is an essential hub for the maintenance of modern trains.

## CLIENT

This servicing company guarantees the safe circulation on the whole railway line, develops the materials and the systems technology and guarantees an efficient servicing of the railway infrastructure.

<b>LOCATION</b>	<b>NAPLES (ITALY)</b>
<b>USE</b>	<b>PEDESTRIAN WALKWAYS FOR INSPECTION PITS</b>
<b>PRODUCT</b>	<b>GRATING SCH 38/30_IFR</b>



## OBJECTIVE

The customer needed to create a pedestrian walkway on the gullies that are between the tracks in the locomotive servicing workshop. The maximum safety of the workers during the train inspections and servicing was the main purpose. The environment is one of those with a high fire risk because of the presence of electric cables and flammable materials both on the trains and in the gullies. Because of the use of high technology devices and the precision of the work required, the solution needed to give a stability and a suitable load resistance for the support of the team of workers and their equipments. Furthermore, the walkway coverings needed to be flexible for their use on two different levels and positions.

## SOLUTION

M.M. has proposed and successfully installed its gratings type SCH 38/30\_IFR that met all customer's needs. The product is produced with isophthalic fire retardant polyester resin designed for the guarantee of good fire reaction properties that could avoid fire propagation and the reduction of fumes development (spread <25 secondo la ASTM E84-98). It is classified as level V-0 of the UL94 Vertical Burning Test. The dielectric property of this material cancels any risk of working in a tight contact with electric drive vehicles and their specialized infrastructures, with no previous grounding. M.M. gratings are classified as excellent insulators by the EN 61340-2.3 (resistivity and RS surface and RT transversal electric resistance) and IEC 61340-4-5 (resistivity and safety resistance to ground) safety norms in force. The bidirectional support properties of this type of grating and its square shape specifically designed have allowed to use the grating pieces on two different levels and positions (90° rotation) on the servicing walkways. M.M. has carried out specific load tests for the different spans and loads for the guarantee of loads and deflection limits required by the customer.