

# GANGWAYS IN BOTTLING AREAS

## LOCATION

The bottling process involves the packaging of liquids, such as beverages or water. The nature of the product being filled entails significant aspects relating to productivity, precision and the environmental impact of the production sites.

## CLIENT

Bottling company which bottles mineral water, carbonated and non-carbonated beverages.

<b>LOCATION</b>	<b>VENETO (ITALY)</b>
<b>USE</b>	<b>FLOORINGS IN BOTTLING AREAS</b>
<b>PRODUCT</b>	<b>SCH 30/28_ISO GRATING</b>



## OBJECTIVE

In a modern plant, operational efficiency is crucial. It depends on the ability of each line to work at maximum speed with the lowest possible number and shortest duration of interruptions. Floorings and work benches are frequently wet as a result of the pouring of liquids and use of water for cleaning activities; this entails a risk of slipping for operators working at the lines. Considering that floorings are a critical element for workers' safety, the customer looked for an application enabling to minimize this issue. The objective is to build a walking surface in bottling areas using a product which is hygienic, mould resistant, easy to sanitize and that requires no maintenance.

## SOLUTION

In continuous cooperation with one of the Italian leading companies in the manufacturing of bottling systems, M.M. designed the structures and selected the appropriate size of the floorings which were used to cover all operational areas. The solution devised for this customer consisted in the installation of elevated gangways (built using SCH 30/28\_ISO gratings) near the lines. The aging tests performed according to the ASTM G154-06 standard and cyclic exposure tests according to the UNI EN ISO 9142/04 standard show a high resistance to mechanical and corrosion stress and an ability to keep anti-slip properties over time (R13 level, DIN 51130). The material used for M.M. gratings is dielectric; as a result, these gratings could be certified as excellent non-conducting materials according to the EN 61340-2.3 and IEC 61340-4-5 electrical safety standards. The structure of the gratings ensures the required capacity under concentrated load conditions and at the same time the wellbeing of workers.