

PEDESTRIAN TECHNICAL AREAS IN TREATMENT PLANT

LOCATION

Sewage treatment plant whose clean water is directly discharged in local rivers. This plant is certified according to ISO 14001 for the environment management.

CLIENT

A public partnership company that manages the water service, waste disposal and other services in the area.

LOCATION	PADOVA (ITALY)
USE	PEDESTRIAN GRATING FOR TECHNICAL AREAS
PRODUCT	GRATING SCH 30/28_ISO



OBJECTIVE

The environment of the water treatment plants that remove urban and industrial contaminants from the domestic and industrial waters, continuously get in contact with organic and non-organic substances which corrode the structures in the years and could reduce their functionality. In the water treatment cycle there are several chemical, physical and organic processes. Sludge coming from these cycles is also contaminated with toxic substances. Materials used in floors, gangways, steps and ladders must perfectly resist to nitrates (in particular organic compounds of carbon and hydrogen structures together with some oxygen, nitrogen, sulfur, phosphorus, silicon bonds) and to non-organic compounds as oxide, carbonate, sulphate and halide groups. The Buyer needed to drastically reduce maintenance cost of structures, to use materials that could resist to this aggressive environment and to be safe for workers.

SOLUTION

M.M. has successfully offered and installed isophthalic resin gratings type SCH 30/28_ISO. They are certified to last in the years without the downfall of the mechanical resistance according to the UNI EN ISO 9142/04 norm for the exposure to heat, cold and humidity cycles and ASTM G 154 norm for the U.V. rays exposure. The quartz sand antiskid surface treatment reaches the R13 V10 level of the DIN 51130 norm which certifies the non slippery surface even if wet.