

PEDESTRIAN STRUCTURES IN GEOTHERMAL STATION

LOCATION

Geothermalelectric production plant with a 20 MW power capacity a 119 GWh production capacity and 4 cooling towers. Installation was referred only to the supply wells.

CLIENT

Large power production company and nationwide energy servicing.

LOCATION	POMARANCE - LARDERELLO (PI)
USE	GANGWAYS AND STEPS
PRODUCT	GRATING TYPE SCH 40/30_IFR AND



OBJECTIVE

Buyer needed to find a solution for rised pedestrian surfaces used for servicing purposes and as accessories to drilling areas. They had to permit a safe access but also needed to be modular (allowing different solutions according to the necessities), easy to maintain and light for a simple handling on different situations and surfaces.

SOLUTION

M.M. has designed and built a set of modular supports, gangways and steps which were pre-assembled, easy to set up and simply combined between them. Pieces were supposed to be handled by hand. Each module was supplied with steps for access. The structures were made with FRP pultured profiles and FRP gratings type SCH 40/30_IFR. The shape of these structures guarantee a pedestrian use and a simply handling without the use of lifting devices. The antiskid treatment made with quartz sand guarantees a high non-slip surface even when wet (level R13 V10 of the DIN 51130 norm). The covered M.M. gratings have been classified as excellent insulators according to the EN 61340-2.3 and IEC 61340-4-5 of the electric field norms. The yellow color of the profiles used for the construction of the supports is a main safety detail.