M.M. S.R.L.
Fiberglass Reinforced Polymer gratings and structures

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SCREENING ENCLOSURES

LOCATION

Substations supporting the wireline network management system.

CLIENT

Italian company working in the field of network engineering, offering innovative services and solutions in the telecommunication, transport, energy and technological plant sector.

LOCATION	EMILIA ROMAGNA (ITALY)
USE	SCREENING ENCLOSURES
PRODUCT	SCH 38/25C_ IFR GRATINGS AND L 90X35X8 PULTRUDED PROFILES

OBJECTIVE

Substations of main telecommunication stations are often located in urban or industrial areas and therefore need to be screened to reduce their impact on the landscape. One of the purposes of the enclosures used in telecommunication substations is to offer a technologically appropriate image, to be radio-transparent and avoid the creation of potential induced current systems. Furthermore, enclosures should be modular, light and resistant to the elements and atmospheric agents, long-lasting, easy to install and maintenance-free.

SOLUTION

M.M. designed and successfully installed its enclosures composed of SCH 38/25C_IFR covered grating and vertical uprights in L 90x35x8 profile. Enclosures are ideal for installations in environments where sources of electricity and irradiation are present. As a matter of fact, the material used for these enclosures features excellent dielectric properties and the stiffness tests performed according to the ASTM D 149-97-a show a current absorption of just 300µ A. As a result, we are able to ensure a high degree of protection against electric hazards and the total absence of interference with transmission systems. Thanks to their excellent insulation properties, enclosures do not need to be grounded. FRP intrinsic properties make the enclosure system radio-transparent. Aging tests performed according to the ASTM G154-06 standard and the cyclic exposure tests performed according to the UNI EN ISO 9142/04 standard show an excellent resistance to the elements and an ability to maintain dimensional, mechanical and colour properties over time.