



The shopping centre Il Borgo in Naples

A temple of light



Project: Roofing for the shopping centre "Il Borgo"

Client: Cravis S. r. L.

Location: Naples, Italy

Market segment: Construction

Product: Makrolon® multi UV 2/10-10,5 white 1140 IQ Relax und Makrolon® UV blue 2550 in 5 mm

Architects: Tecno Coperture S. r. L.

Building contractor: Tecno Coperture S. r. L.



makrolon®

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The shopping centre "Il Borgo" in Naples has been covered with an unusual, domed pitched roof. Its special feature is the quality of light thanks to the combination of the solid blue-tinted Makrolon® sheets with special heat-reducing Makrolon® multi UV IQ-Relax multi wall sheets.

The crowning of the shopping centre

The pitched roof design covers the 350 m² restaurant terrace in the middle of the shopping centre. The aim of the atrium design was to offer guests in the restaurant sufficient protection from the wind and rain and above all the intensive sun of Southern Italy. This has been achieved in particular by using Makrolon® multi UV IQ-Relax sheets which, on sunny days, reflect most of the sun's infrared rays and thus reduce heat by up to 50 % of the total energy input. At the same time they let in a great deal of light. This, together with the solid blue-tinted sheets in the pitch of the roof, results in an impressive light show. The covered inner area is uniformly lit without hard shadows, which also creates a bright and pleasant atmosphere.

A sweeping roof with a filigreed substructure

As Makrolon® combines perfectly the criteria for stability and flexibility and is a low weight material, a filigreed aluminium substructure was sufficient for the roof cladding. A cold bending process was used to shape sheets of up to 6 m long into a dome and fit them to the profile of the substructure. Makrolon® is easy to work with, which reduces cutting and assembly costs as well as delivery process and installation times.

Product features that speak for themselves

At the same time Makrolon® meets the strict fire protection guidelines for materials used in public buildings, because it falls below the limits for fume toxicity, and burning particles do not drip down. Another advantage for this structure has proved to be the polycarbonate multi-wall sheets that can withstand constant temperatures of 120 °C as well as wind and hail.



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