

Project of the Month

Suntuf Roof at Essen Stadium | Germany



Suntuf sheets were used in the construction of the roof at the Essen football stadium in Essen, Germany (stadium capacity 20,000). An innovative combination of perforated metal sheets and clear polycarbonate sheets, layered on top of each other, created a roofing solution that is robust, transparent and waterproof.

Meeting the Needs of the Customer

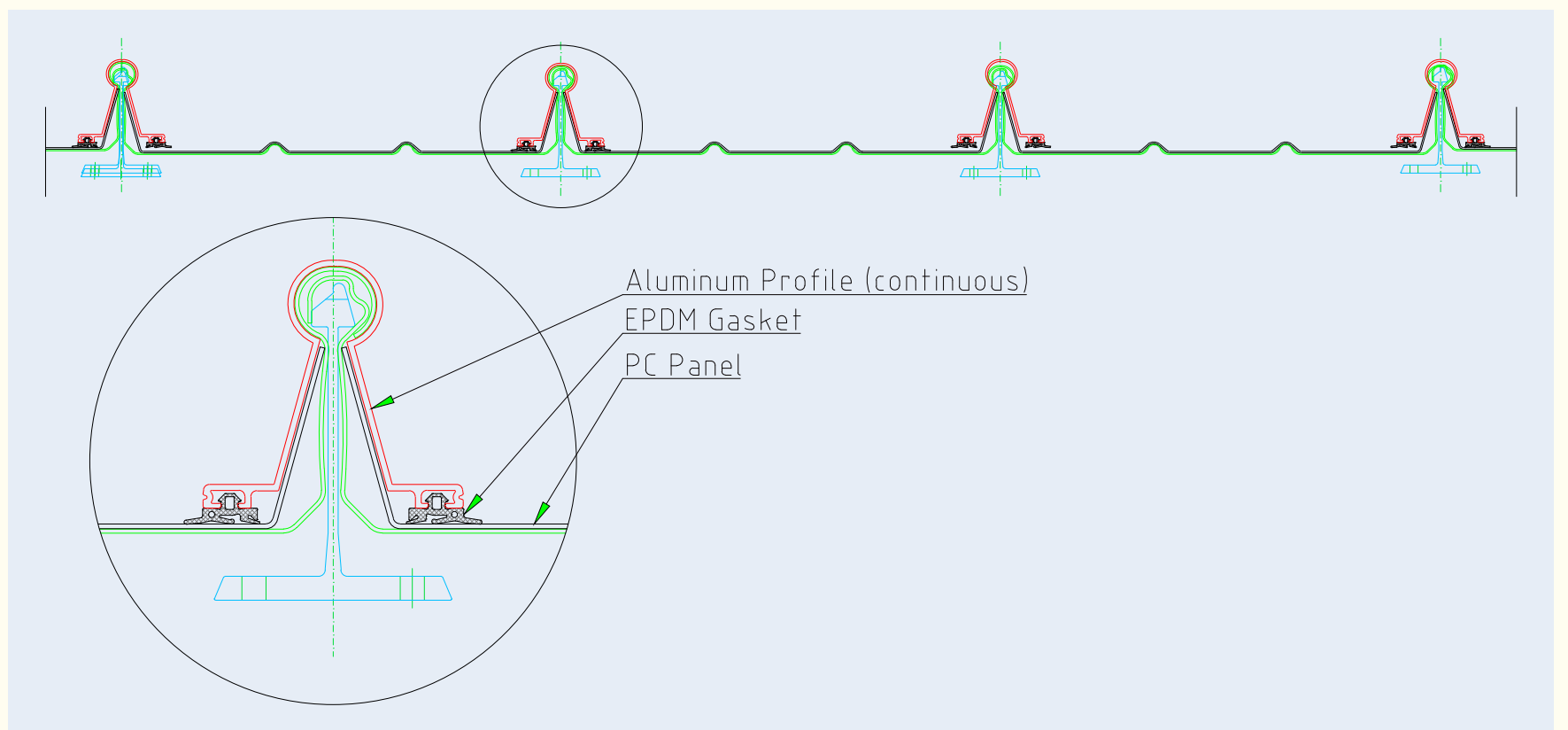
The designer of the Essen Stadium roof specified corrugated perforated metal sheets produced by [Bemo](#), a global manufacturer of metal roofing solutions. Perforated metal allows light transmission but also water penetration. In order to create a waterproof solution while maintaining transparency, the designer turned to Palram.

The roof design called for standing seam metal panels, similar in shape to the Kalzip system. Palram was requested to provide a solution fully compatible with the metal sheets that would ensure waterproofness.

Palram's Winning Solution

In order to maintain the structure of the metal roof and to keep water away from the fans, Palram offered to install a layer of Suntuf over the metal sheets. The solution consisted of the following elements:

1. A unique Suntuf profile that matched the metal profile, with the exception of the standing seam.
2. A specially designed aluminum cap that runs along the standing seam and clamps together the metal and the Suntuf sheets.
3. Suntuf sheets were produced at a length of 19 meters to be installed with a single longitudinal lap and to cover the full length of the roof.



The details

Product: Suntuf 1.2 mm clear, special profile for the project

Coverage: 12,000 SQM

Customer: Pazdera

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