

Transport Business Successfully Waterproofs Bridges

BITUTHENE® 5000 and SOLARSHIELD® 100 used in Expo Milan 2015 project

Project	EXPO Milano 2015
Owner	EXPO 2015
Engineer	Marco Acquati Engineer (MM)
General Contractor	Ing. Mantovani SpA
GCP Solutions	BITUTHENE® waterproofing, SOLARSHIELD® waterproofing



Project Profile

Supporting 20 million visitors

Expo Milano 2015 was a non-commercial exhibition site, which was open from May 1 to October 31, 2015. The exhibition site covered 1 million square meters and welcomed over 20 million visitors, hosted over 130 participants, and ran for 184 days.

The project involved bridge construction of several small trafficable bridges linked to the main EXPO deck, which crossed over an artificial stream.

A self-adhesive membrane solution was proposed to satisfy the needs of the bridge construction project. The proposal consisted of both BITUTHENE®5000 and SOLARSHIELD®100 membranes to the bridge deck areas.

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Delivering bridge deck waterproofing

The transport business responsible for the project required a low-thickness waterproofing membrane, which offered protection to the bridge decks and also met the criteria defined by the Milan Metropolitan office. The chosen system had to offer resistance to hot asphalt, provide complete adhesion, and be easy to apply.

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Delivering unparalleled waterproof protection

GCP proposed a self-adhesive membrane solution to satisfy the needs of the car bridge construction project. The proposal consisted of both BITUTHENE®5000 and SOLARSHIELD®100 membranes to the bridge deck areas.

BITUTHENE®5000 is a preformed, cold applied sheet membrane that is 1.6mm thick overall, comprising of a self-adhesive rubber/bitumen compound, protected with a silicone release paper, with a polypropylene mesh carrier film and is supplied in 1.0m x 20.0m long rolls. SOLARSHIELD®100 is a robust, cold applied self-adhesive aluminum membrane, which can be used as a conformable solar reflective flashing or protection for exposed roofing membranes.

GCP's team provided ongoing site support, ensuring materials were applied according to the recommended installation guidelines. This value-added service was critical since no specialized applicator was involved

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