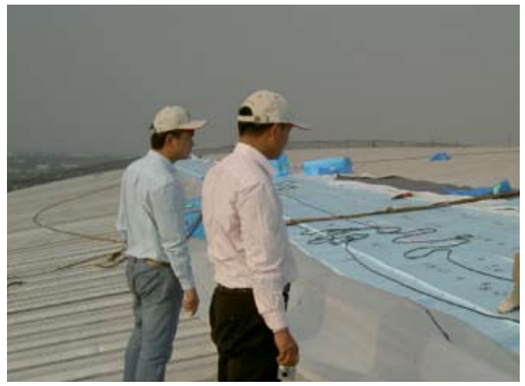
Sika Participants

Owner :	Impact Exhibition Management Co., Ltd.
Construction Management :	Bouygues Thai Ltd.
Sika organization :	Sika (Thailand) Ltd.
	Sika Sarnafil Waterproofing Systems (Shanghai) Ltd.



Existing condition :–

1. Metal deck Profile V650 0.53 mm thk. coated with Zincalume with 11 cm. height of profiles.
2. Low density Insulation by local supplier
3. Backer Steel supported the clip–lock system

IMPACT Challenger, Re-roofing Bangkok, Thailand

The Challenger, Muang Thong Thani, Exhibition+ Convention Hall

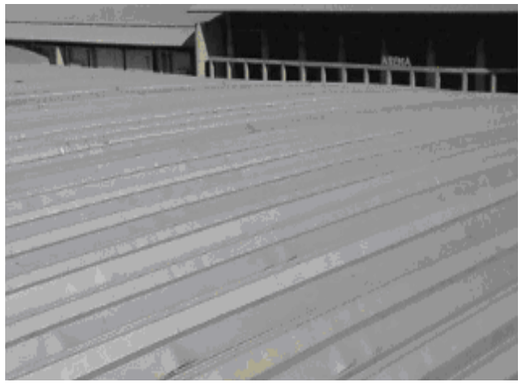
Sika (Thailand) Limited.
700/37 Moo 5, Bangpakong Industrial Park II, Bangna-Trad. KM. 57, Tambol Klong Tamhru, Muang District, Cholburi, Thailand 20000
Tel: + 66 3821 4270-85
Fax: + 66 3821 4286
E-mail: sikathai@th.sika.com www.sika.co.th

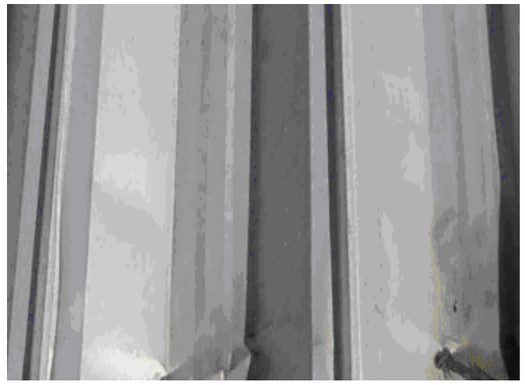
Project Description

Project : IMPACT Challenger, Re–roofing
Type : Exhibition and Convention Hall
Location : Bangkok, Thailand
Project Size : 69,990 sq.m.
Roof Deck : Metal Deck Profile 650

The Challenger 1 to 3

The largest Exhibition Hall in Bangkok, Thailand, dimension of 459 x 131.2 m^2 with 16 m. height of ceiling and floor space of > 60,000 m^2 is divided into three Halls without center column for 20,000 m^2 in each Halls.





Background

In 2005 Bouygues Thai Ltd. began their construction work of the hall excluded the contract of Metal Roof, meanwhile Metal Deck profile V650 was designed and choosen by owner in order to avoid the water remain in the center of roof and this work awarded to Steel Intertech.

During the construction, Profile machine was set up at job site because the idea of single sheet across the purlins was preferred. Anyhow when the Metal Deck began to be installed they suddenly found the potential of crack and unlevel.

Pre–Installation Training provided for Hammersmith at job site

Project Approaching and Requirement

April 2007 : First meeting with Steel Intertech for Sarnafil® Introduction.

May 2007 : Architect Exhibition 2007 at IMPACT Challenger Hall and this make us recognize the leakage problem in the hall.

Jun 2007 : Meeting with IMPACT's owner and Steel Intertech for Sarnafil® System, we proposed numbers of system for their choices and finally mechanically fastened with self drilling was selected.

Aug 2007 : Conducted the mock–up area on Metal roof in order to design the proper length of fastener, we finally got the Sika solution for final proposal to IMPACT.

Nov 2007 : Awarded the contract of 69,990 m^2 for Re–roofing Project together with BTL and Hammersmith as Construction Management and our recommended applicator respec–tively.

Sika Solution

1. PE Sheet 0.3 mm.
2. Two layers of 32 kg/m^3 density DOW Roofmate–G Insulation board 50 mm. thick? totally
3. S–Felt 130g/m^2
4. Sarnafil® S327–12L membrane
   Mechanically fixed with Magni Self drilling 230 mm. length included accessories.

Sarnametic–661 as Automatic Welding machine

Pull out Test to check the existing performance