



**THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS**

In accordance with UKAS accreditation to ISO 17065
Certification is Hereby Granted

to

Emaar Industries LLC

*P.O. Box 301, PC-113, Samail Industrial Estate,
Samail, Sultanate of Oman*

for

**50 mm thick "PIR – Fire Shield
Polyisocyanurate Roof/Wall Sandwich Panel"
Test Method: ASTM E84-21a**

which, subject to limitations described on the following pages and continued
listing on www.tbwcert.com, complies with Product Certification Scheme
*SD03 Exterior Wall Assemblies, Curtain Walls, Building Materials,
Products & Assemblies*

In witness whereof, this Certificate is issued this 18th day of November 2021



Sandy Dweik
Chief Executive Officer

Nicholas Purcell
Director of Certification

Certificate Number: TBW0300787

Initial registration: November 18, 2021
File Name: VD098_CRT_SD03RX_(f)

Issued: November 18, 2021

Expiration: November 17, 2024
Issue 1

This Certificate and schedules are held in force by regular Factory Inspections by Thomas Bell-Wright International Consultants (TBWIC). Refer to www.tbwcert.com or contact TBWIC Certification Division to validate the current status of Certification. This Certificate remains the property of Thomas Bell-Wright International Consultants, PO Box 26385, Dubai, UAE. Tel: +971 4 8215777, Email: certification@bell-wright.com
Web: www.bell-wright.com

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F 19 Scheme Certificate Issue 7 Issued Feb 2020

50 mm thick “PIR – Fire Shield Polyisocyanurate Roof/Wall Sandwich Panel”

- A. Certification is given for 50 mm thick “PIR – Fire Shield Polyisocyanurate Roof/Wall Sandwich Panel” for Reaction to Fire performance to test standard ASTM E84-21a for Flame Spread Index (FSI) and Smoke Developed Index (SDI), subject to the limitations stated herein. The summary of the scope of this Certification is listed in the table below:

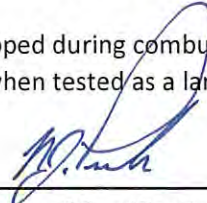
Table 1. Summary of the scope of Certification

Product Name/ Reference	Classification (See Note)	Report References
50 mm thick “PIR – Fire Shield Roof/Wall Sandwich Panel”	Class A (FSI:0, SDI:250)	VD099-1 Rev.0 VD099-2 Rev.0

Note: Certification is based on ASTM E84-21a test result, and Classification is based on the International Building Code 2021, Section 803.1.2 according to Flame Spread Index (FSI) and Smoke Developed Index (SDI) values.

- B. Readers of this document should be familiar with Reaction to Fire testing and the requirements of ISO/IEC 17065:2012. The Certification will be listed on www.tbwcert.com while it remains current. This Certification is not valid if it is not listed.
- C. The product is approved on the basis of TBWIC Product Certification Scheme SD03 for Exterior Wall Assemblies, Curtain Walls, Building Materials, Products & Assemblies, which includes; pre-test sampling, evidence of performance (under report reference(s) mentioned in Table 1), Technical Verification and Proof of Performance, compliance to Factory Production Control requirements and surveillance & Re-certification Inspection/ Audits.
- D. Limitations:
- D.1. This Certification covers the specifications of the product as tested and described in Section E.
- D.2. The response of the material to heat and flame was measured under controlled conditions in accordance with the requirements of the test standard covered under this Certification. The result(s) described in the respective test report shall not be used as the sole criteria for fire-hazard or fire-risk assessment of the product, material or system assembly under actual fire conditions.
- D.3. No variations are allowed in the material composition, mix recipe, and manufacturing process unless recognised and approved by this Certification.
- D.4. Changes to the interior and exterior facings (metal specification, grade, thickness, and profile type) are not permitted unless recognised and approved by this Certification. The thickness of metal facings shall not be reduced.
- D.5. This Certification does not address the following:
- Measurement of heat transmission
 - Effect of aggravated flame spread behaviour of an assembly resulting from the proximity of combustible walls and ceilings.
 - Classification or definition of material as non-combustible
 - Any Resistance to Fire rating
 - The toxicity level of smoke developed during combustion
 - Fire propagation characteristics when tested as a large-scale façade cladding assembly

Certificate number: TBW0300787


Director of Certification
Nicholas Purcell

Seal number: 101510

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E. Product details

- E.1. Reference: "PIR – Fire Shield Polyisocyanurate Roof/Wall Sandwich Panel"
Description: Corrugated Polyisocyanurate (PIR) core sandwich panel with pre-painted galvanised steel-facings
Panel Thickness: 50 ± 1 mm

E.2. Product component details

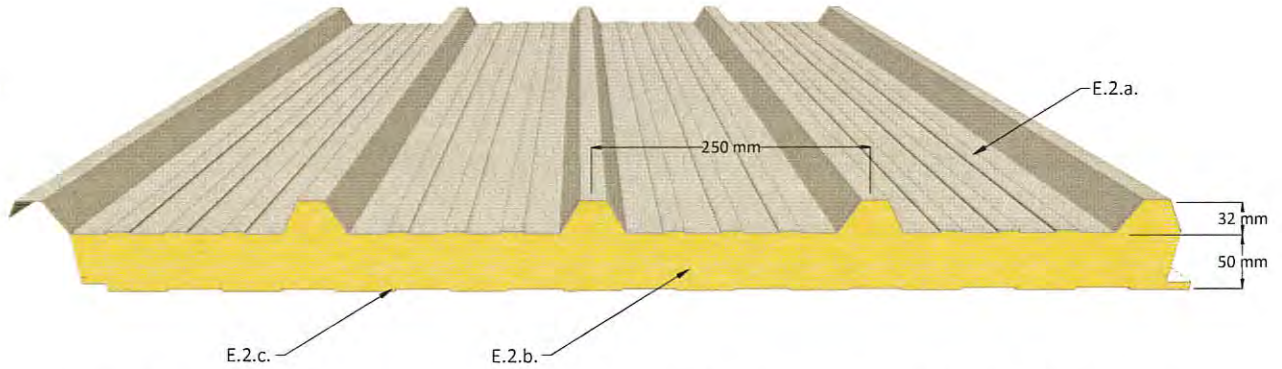


Figure 1. 50 mm thick "PIR – Fire Shield Polyisocyanurate Roof/Wall Sandwich Panel" – typical details

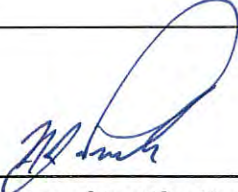
- a. Exterior Facing (Top Skin)
Material: Pre-painted galvanised steel sheet
Grade: ASTM A653M, SS 50, Z001
Profile type: "32/250"
Nominal Thickness: 0.48 mm
Coating Type: Polyester (PE)
Maximum Coating Thickness: 33 microns
- b. Core
Material: Polyisocyanurate (PIR)
Nominal thickness: 50 mm
Density: 40 ± 2 kg/m³
- c. Interior Facing (Bottom Skin)
Material: Pre-painted galvanised steel sheet
Grade: ASTM A653M, SS 50, Z001
Profile type: "Low-rib"
Nominal Thickness: 0.48 mm
Coating Type: Polyester (PE)
Maximum Coating Thickness: 33 microns

F. Approved Manufacturing Location

P.O. Box 301, PC-113,
Samail Industrial Estate, Samail,
Sultanate of Oman

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