

**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

**Non-Loadbearing Partition Assembly comprising
50 mm thick Sandwich Panel with Mineral Wool Infill
Test Method: BS 476 Part 20 & 22:1987**

which, subject to limitations described on the following pages and continued
listing on www.tbwcert.com, complies with Product Certification Scheme
SD02 Fire Resistant Separating Assemblies

In witness whereof, this Certificate is issued this 18th day of May 2022



Sandy Dweik

Sandy Dweik
Chief Executive Officer

Nicholas Purcell

Nicholas Purcell
Director of Certification

Certificate Number: TBW0200830

Initial registration: May 18, 2022

Issued: May 18, 2022

Expiration: May 17, 2025

File Name: VE100_CRT_SD02RF_RW_Issue1_(f)

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

Non-Loadbearing Partition Assembly comprising 50 mm thick Sandwich Panel with Mineral Wool Infill

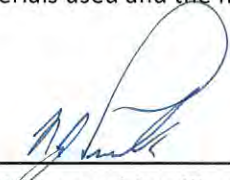
- A. Certification is given for the non-loadbearing partition, installed in accordance with the manufacturer's instructions, and subject to the limitations herein, to provide Fire Resistance rating according to test standard BS 476 Part 22:1987, "Fire tests on building materials and structures – Methods for determination of the fire resistance of non-loadbearing elements of construction". Refer to Table 1 below for the summary of the scope of certification.

Table 1. Summary of the scope of Certification

Product Name/Reference	Fire Resistance Rating	Report Reference
Non-Loadbearing Partition Assembly comprising 50 mm thick Sandwich Panel with Mineral Wool Infill	Up to 180 Minutes (Integrity)	VJ097-1 Rev.0

- B. Readers of this document should be familiar with Resistance 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 based on TBWIC Product Certification Scheme SD02 for Fire Resistant Separating Assemblies, which includes pre-test sampling, evidence of performance (under report reference(s) 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. The fire resistance of the partition assembly covered under this Certification is as a result of the fire test conducted on the system constructed of specific materials and assembled in a particular manner. Substitution of the approved components or deviation from components specification or the methods of assembly could adversely affect the fire resistance of the partition assembly.
- D.2. The partition assembly is non-loadbearing. The maximum height of the partition assembly shall be 3000 mm, and the width can be extended without limitation.
- D.3. The thicknesses of the steel components are minimum and shall not be reduced.
- D.4. Only the Fire Resistance characteristic, with respect to integrity only, is covered under this Certification based on BS 476 Part 22:1987 test standard; other properties such as (but not limited to) insulation, radiation, acoustical, weather resistance, durability, and toxicity level of smoke developed during combustion are not addressed.
- D.5. Service penetrations are not permitted unless otherwise tested with an adequate sealing or firestop system in an identical wall assembly configuration, which achieves an equal or higher fire-resistance rating.
- D.6. The treatment of gaps/joints in the construction of the partition assembly shall be as per Section E. The specification and condition of materials used and the method of sealing shall not be changed.

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Director of Certification
Nicholas Purcell

Seal number: 101978

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E. Typical Partition Assembly Configuration

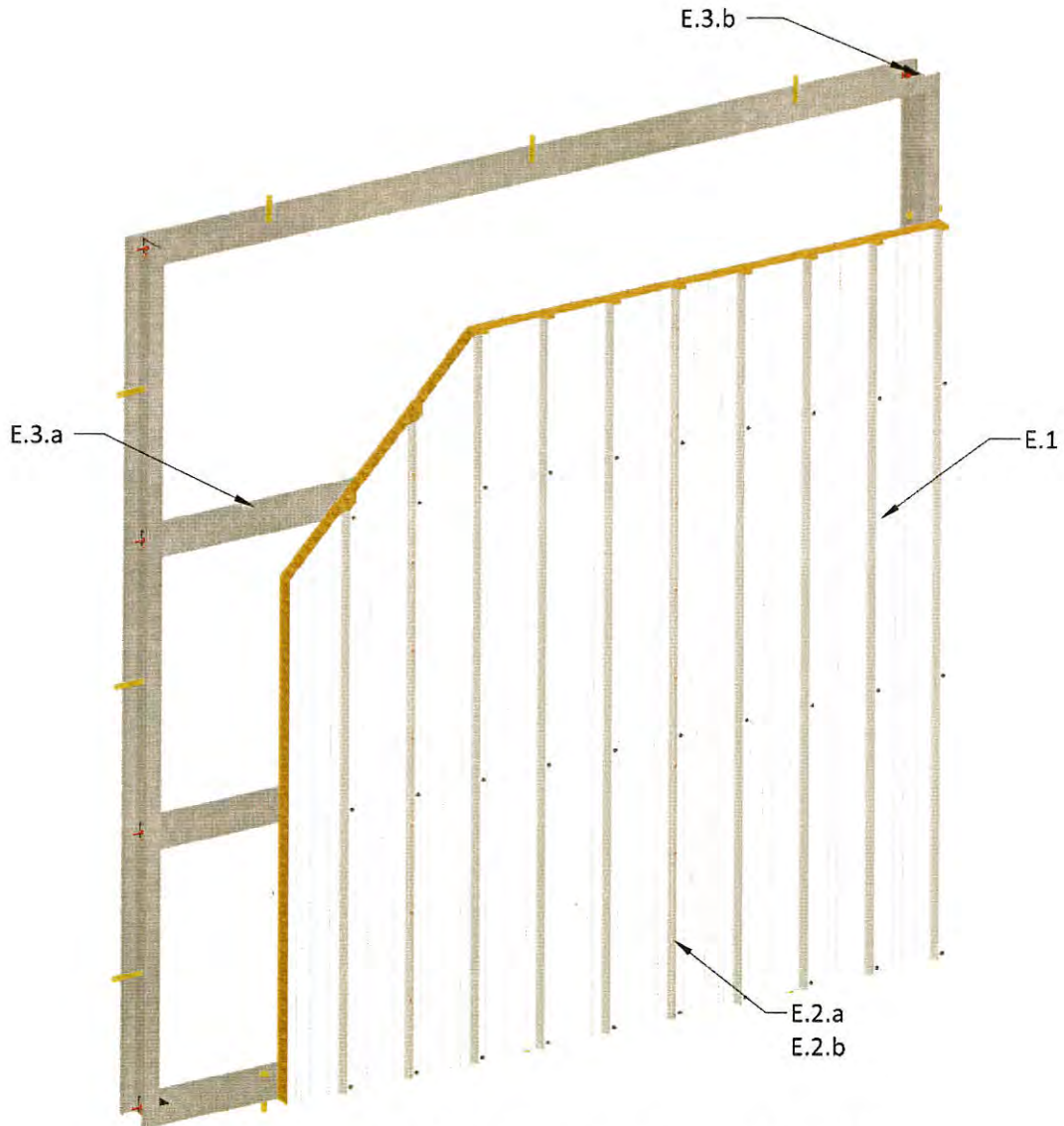


Figure 1. Typical Detail – Non-Loadbearing Partition Assembly

E.1. Sandwich Panel

Reference: "32/250 – 50 mm Rockwool Panel"

Description: Corrugated sandwich panel with mineral wool infill and prepainted galvanized steel facings

Manufacturer: Emaar Industries LLC

Panel Weight Per Unit Area: $13 \pm 0.2 \text{ kg/m}^2$

Panel Width: $1000 \pm 2 \text{ mm}$

Panel Thickness: $50 \pm 2 \text{ mm}$

Panel Component Details:

- Exterior Facing: 0.5 mm thick Galvanised Steel (Grade: CS Type A, ZF120) with 25 microns (nominal) Polyester coating
- Interior Facing: 0.5 mm thick Galvanised Steel (Grade: CS Type A, ZF120) with 25 microns (nominal) Polyester coating

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- Core: Mineral Wool, Density: 100 kg/m³ (nominal), Reference: "Fujairah Rockwool Slab without facing"
- Adhesive: Polyurethane adhesive, Application rate: 100 g/m², Reference: "Solfre 3022"

Panel Fixing: The panels shall be fixed to the framing system using Ø6.3 × 120 mm hex head self-drilling screws along the crests of the panels at a nominal vertical spacing of 1000 mm.

E.2. Joint Fixing

a. Sealant

Description: Polyurethane joint sealant

Reference: "Sikaflex®-400 Fire"

Manufacturer: Sika UAE LLC

Applications: Applied along the joints on the unexposed side and overlapping skins

b. Joint fasteners

Description: Self-drilling screws

Dimension: Ø4.8 × 20 mm

Fixing Details: Fixed along the slope of the joint overlap at a nominal spacing of 300 mm centres

E.3. Framing System

a. C Purlins

Material: Galvanised steel

Grade: ASTM A653, Grade 50

Dimension: 55 × 152 × 55 × 20 × 1.5 mm (web × flange × flange × return × thickness)

Fixing details:

- Fixed to the structure, along the perimeter of the partition assembly, using anchor bolts at 500 mm from the corners and 1000 mm centres
- Fixed horizontally to the vertical C Purlins using angle brackets at a nominal spacing of 1000 mm

b. Angle Brackets

Material: Galvanised steel

Grade: ASTM A653, Grade 50

Dimension: 50 × 50 × 100 × 2 mm (leg × leg × length × thickness)


Fixing details: At every intersection of the horizontal and vertical C purlins, fastened with 4 nos. of Ø12 × 25 mm hex head bolts and nuts

F. Approved Manufacturing Location

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

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