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## CERTIFICATE OF APPROVAL

### No CF 5214

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This is to certify that, in accordance with  
TS00 General Requirements for Certification of Fire Protection Products  
The undermentioned products of

## ALU27 INSULATED PANELS LLC

Jebel Ali Industrial Area 2, Dubai  
Tel: +97148804110 Fax: +9714 880 4112

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### CERTIFIED PRODUCT

ALU27 Flame retardant grade  
PIR foam insulation

#### TECHNICAL SCHEDULE

TS19 Class 0/Class 1

Signed and sealed for and on behalf of CERTIFIRE



Sir Ken Knight  
Chairman - Management Council

Issued: 5<sup>th</sup> December 2013  
Revised: 14<sup>th</sup> April 2015  
Valid to: 4<sup>th</sup> December 2018

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1. This approval relates to the use of the above construction product. The product has shown a fire performance of Class 0 (BS) in accordance with the requirements of Technical Schedule 19.
2. This approval does not cover other features required of rigid polyurethane foams such as durability, impact resistance, water absorption, thermal insulation etc
3. The construction product is approved on the basis of:
  - i) Initial type testing
  - ii) Audit testing at the frequency as specified in Clause 11 – TS 19.
  - iii) Inspection and surveillance of factory production control
  - iv) Certification under ISO 9001; 2008
4. This approval is applicable to the following product family:
 

**ALU27 Flame retardant grade PIR foam insulation**
5. Markings to the CERTIFIRE design referencing ALU27 INSULATED PANELS LLC, CERTIFIRE and CERTIFIRE Ref. No. CF5214 shall be affixed to each construction product in the prescribed position.
6. This approval relates to on-going production. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.
7. This approval has been prepared from test data summarised below and derived from the test reports referenced below. Full details of the product, justification for the conclusions given, along with validity statements are given in those reports.

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**Test Evidence**

**BS 476: part 6**     Formal test data – WF 333679

**Test Results:**

Fire propagation index, I	=	4.3
Sub index, i <sub>1</sub>	=	0.9
Sub index, i <sub>2</sub>	=	2.1
Sub index, i <sub>3</sub>	=	1.3

**BS 476: Part 7**     Formal test data – WF 333680  
**test results**

All results show <50mm flame travel

The product has been appraised as having a Class 0 performance when fire tested and assessed by Exova Warrington Fire to BS 476: Part 6: 1989+A1: 2009 'Method of test for fire propagation of products' and BS 476: Part 7: 1997 'Surface spread of flame test for materials' as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2006.

Certification is awarded on the basis of initial type testing to BS 476: Part 6 & BS 476: Part 7, as appropriate, initial inspection and ongoing surveillance of factory production control, and ongoing compliance with the scheme requirements including labelling of the product as specified. The currency of the certification may be verified at <http://www.warringtoncertification.com/certifire>.






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**Field Of Application**

In accordance with the guidance in Approved Document B of the Building Regulations for England and Wales 2006, a material with a fire performance classification of Class 0 may be used in the following areas within a building:

1. Wall and Ceiling Linings for unprotected escape routes and rooms
2. Above fire resistant suspended ceilings
3. On external surfaces of multi-storey buildings

The product may be used in the following purpose groups:

1. Residential dwellings
2. Residential institutions
3. Offices
4. Shops and commercial buildings
5. Assembly buildings and recreational buildings
6. Industrial buildings
7. Storage buildings



## CERTIFICATE No CF 5214 ALU27 INSULATED PANELS LLC

### Annex 1

<b>General description of product</b>		Flame retardant grade polyisocyanurate (PIR) foam insulation faced on both sides with a decoratively embossed aluminium foil
Product reference of product		"ALU27 Pre Insulated Panels"
Colour reference of product		"White"
Overall thickness of product		20 mm or more
Nominal density of the polyurethane core		44 kg/m <sup>3</sup>
Name of manufacturer of product		ALU27 Insulated Panels LLC
Product configuration		<ul style="list-style-type: none"> <li>• Aluminium foil (test face)</li> <li>• Lacquer (integral to the aluminium foil)</li> <li>• Insulation</li> <li>• Lacquer (integral to the aluminium foil)</li> <li>• Aluminium foil (reverse face)</li> </ul>
Aluminium foil (test face)	Product reference	"Aluminium Foil"
	Generic type	A decoratively embossed aluminium foil
	Name of manufacturer	<b>See Note 1 Below</b>
	Thickness	80 microns
Lacquer	Product reference	<b>See Note 2 Below</b>
Adhesion of aluminium foil to insulation		Auto adhesively bonded during the manufacturing process
Insulation	Generic type	Flame retardant grade polyisocyanurate (PIR) foam
	Product reference	"PIR"
	Name of manufacturer	ALU27 Insulated Panels LLC
	Thickness	20 mm or more
	Colour	"White"
	Density	44 kg/m <sup>3</sup>
	Formulation details	<b>See Note 1 below</b>
Flame retardant details	<b>See Note 1 below</b>	
Brief description of manufacturing process		<b>See Note 1 Below</b>

**Note 1 – The sponsor was unwilling to provide this information.**

**Note 2 – The sponsor was unable to provide this information as they do not manufacture the product / component (the lacquer is an integral component of the aluminium foil facing).**