
CERTIFICATE OF APPROVAL

No CF 5223

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

Alucoil S.A.

**C/Ircio, Parcela R72-75, Poligono Industrial de Bayas
Miranda de Ebro, Burgos, 09200, Spain
Tel: 947 333 320**

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

CERTIFIED PRODUCT

LARSON
See annex 1 for further
product information

TECHNICAL SCHEDULE

TS19 Class 0 / Class 1 (BS)

Signed and sealed for and on behalf of CERTIFIRE



Sir Ken Knight
Chairman - Management Council
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Issued: 22nd January 2014
Valid to: 21st January 2019



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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 such as durability, impact resistance, water absorption 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:
LARSON
5. The construction product shall be mounted and fixed in accordance with manufacturers instructions.
6. Markings to the CERTIFIRE design referencing Alucoil S.A., CERTIFIRE and CERTIFIRE Ref. No. CF5223 shall be affixed to each construction product in the prescribed position.
7. 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.
8. 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 Test Results:	<u>Formal test data – WF 171197</u>	
	Fire propagation index, I	= 0.5
	Sub index, i ₁	= 0.0
	Sub index, i ₂	= 0.0
	Sub index, i ₃	= 0.5
	<u>Indicative test data: - WF 336520</u>	
	Fire propagation index, I	= 0.0
	Sub index, i ₁	= 0.0
	Sub index, i ₂	= 0.0
	Sub index, i ₃	= 0.6

BS 476: Part 7 test results	<u>Formal test data – WF 171198</u>	
	All results show <50mm flame travel	
	<u>Indicative test data – WF 336523</u>	
	All results show <50mm flame travel	

The product has been appraised as having a Class 0 performance when fire tested and assessed by Exova warringtonfire to BS 476: Part 6: 1989 '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 on-going surveillance of factory production control, and on-going compliance with the scheme requirements including labelling of the product as specified. The currency of the certification may be verified at <http://www.warringtonfire.net/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

A handwritten signature in black ink, appearing to be "K. H. H.", located below the "Signed" text.

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Annex 1

General description		A two coat, decorative coating system, applied to one face of an aluminium faced sandwich panel with an LDPE core
Product reference of coated composite		LARSON
Thickness of coated product		4 ± 0.2mm
Weight per unit area of coated product		5.5 kg/m ²
Product configuration		<ul style="list-style-type: none"> • Aluminium (Test face) • Adhesive • Core • Adhesive • Aluminium • Coating (Reverse face)
Aluminium	Generic type	Aluminium
	Thickness	0.5 mm
	Density	2700 kg/m ³
Adhesive	Product reference	See Note 1 below
	Generic type	Anhydrid modified low density polyethylene (LDPE)
	Name of manufacturer	See Note 2 below
	Application rate	0.12 g/m ²
	Application method	Extrusion
	Flame retardant details	See Note 2 below
Core	Generic type	mineral
	Colour	"Black"
	Thickness	3 mm
	Density	920 kg/m ³
	Flame retardant details	See Note 2 below

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Adhesive	Product reference	See Note 1 below
	Generic type	Anhydrid modified low density polyethylene (LDPE)
	Name of manufacturer	See Note 2 below
	Application rate	0.12 g/m ²
	Application method	Extrusion
	Flame retardant details	See Note 2 below
Aluminium	Generic type	Aluminum
	Thickness	0.5 mm
	Density	2700 kg/m ³
	Flame retardant details	The substrate is inherently flame retardant
Coating	Generic type	Polyvinylidene fluoride (PVDF)
	Product reference	See Note 1 below
	Name of manufacturer	See Note 2 below
	Colour	"Grey Metallic"
	Number of coats	Two
	Application thickness per coat	25 ± 4 microns
Brief description of manufacturing process		See Note 1 below

Note 1. The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

Note 2. The sponsor of the test was unable or not willing to provide this information.