
CERTIFICATE OF APPROVAL

No CF 5061

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

EUROCON BUILDING INDUSTRIES (MULK HOLDINGS FZC)

P.B. 42642 Hamriyah Free Zone Sharjah UAE
Tel: +97165262202 Fax: +97165262203

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

Alubond usa FR Euroclass B
(4mm and 6mm products)

TECHNICAL SCHEDULE

TS19 Class 0 / Class 1 (BS)

See annex 1 for further product
information

Signed and sealed for and on behalf of Exova (UK) Limited trading as
Warrington Certification



Sir Ken Knight
Chairman
Impartiality Committee



Paul Duggan
Certification Manager



Issued: 1st March 2012
Revised: 20th March 2017
Valid to: 31st May 2017

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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 protective coverings such as durability, impact resistance, water absorption etc
3. The approval does not relate to the durability of fire performance if the construction product is used in external applications.
4. 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
 - v) Certification under ISO 9001; 2008
5. This approval is applicable to the following product family....
Alubond usa FR Euroclass B
6. The construction product shall be mounted and fixed in accordance with manufacturers instructions.
7. Markings to the CERTIFIRE design referencing MULK HOLDINGS FZC, CERTIFIRE and CERTIFIRE Ref. No. CF5061 shall be affixed to each construction product in the prescribed position.
8. This approval relates to ongoing 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.
9. 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

4mm thick product	WF Report No: 315920	BS 476: Part 6: 1989	Fire propagation index, I= 0.0 subindex, i ₁ = 0.0 subindex, i ₂ = 0.0 subindex, i ₃ = 0.0
	WF Report No: 315924	BS 476: Part 7: 1997	Class 1 surface spread of flame
6mm thick product	WF Report No: 371240	BS 476: Part 6: 1989	Fire propagation index, I= 0.1 subindex, i ₁ = 0.0 subindex, i ₂ = 0.0 subindex, i ₃ = 0.1
	WF Report No: 371242	BS 476: Part 7: 1997	Class 1 surface spread of flame

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 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.warringtonfire.net/certifire>.

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 up to 18m high
4. On external surfaces of multi-storey buildings above 18m high providing that cavity barriers are in situ which comply with Section 9 of Approved Document B of the Building Regulations of England and Wales 2006.

The product may be used in the following purpose groups:

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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

Annex 1

General description		A 4mm composite panel incorporating a layer of mineral filled / flame retardant inorganic core bonded& backed with a coated, chromium treated aluminium sheet	A 6mm composite panel incorporating a layer of mineral filled / flame retardant inorganic core bonded& backed with a coated, chromium treated aluminium sheet
Name of manufacturer		Eurocon Building Industries (Mulk Holdings FZC), P.B. 42642 Hamriyah Free Zone Sharjah UAE	Eurocon Building Industries (Mulk Holdings FZC), P.B. 42642 Hamriyah Free Zone Sharjah UAE
Product reference of composite		Alubond usa FR Euroclass B	Alubond usa FR Euroclass B
Colour reference of composite		"Pure white"	Silver
Thickness of composite		4mm	6mm
Weight per unit area of composite		7 kg/m ²	10.3 Kg /m ²
Top coat	Product reference	"Polyvinylidene fluoride (PVDF) Coating"	"Polyvinylidene fluoride (PVDF) Coating"
	Generic type	Polyvinylidene fluoride (PVDF) paint	Polyvinylidene fluoride (PVDF) paint
	Name of manufacturer / supplier	See Note 1 Below	See Note 1 Below
	Colour reference	"Pure white"	"Silver"
	Number of coats	Single	Single
	Density	1.7g/cm ³ (when dry)	1.7g/cm ³ (when dry)
	Application thickness	20-22 microns	20-22 microns
	Application method	Reverse coil coating process	Reverse coil coating process
	Curing process	See Note 1 Below	See Note 1 Below
	Flame retardant details	See Note 2 Below	See Note 2 Below

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Primer	Product reference	"Polyester (PE) Coating"	"Polyester (PE) Coating"
	Generic type	Polyester primer paint	Polyester primer paint
	Name of manufacturer / supplier	See Note 1 Below	See Note 1 Below
	Colour reference	"White "	"White "
	Number of coats	One	One
	Density	1.42g/cm ³ (when dry)	1.42g/cm ³ (when dry)
	Application thickness	5-8 microns	5-8 microns
	Application method	Reverse coil coating process	Reverse coil coating process
	Curing process	See Note 1 Below	See Note 1 Below
	Full composition details		
Flame retardant details	See Note 2 Below	See Note 2 Below	
Aluminium	Product reference	"Cold Rolled Aluminium Rolls"	"Cold Rolled Aluminium Rolls"
	Generic type	Aluminium alloy (EN 484-1)	Aluminium alloy (EN 484-1)
	Name of manufacturer	See Note 1 Below	See Note 1 Below
	Thickness	0.5mm	0.5mm
	Density / weight per unit volume	2700 kg/m ³	2700 kg/m ³
	Preparation details (pre-treatment)	Each face of the aluminium is coated with chromic acid (to a thickness of 0.008mm) before being cured at a temperature of between 120 and 150°C	
	Flame retardant details	The aluminium sheet is inherently flame retardant	The aluminium sheet is inherently flame retardant
Adhesive film	Product reference	"DuPont bynel resin based adhesives"	"DuPont bynel resin based adhesives"
	Generic type	See Note 1 Below	See Note 1 Below
	Name of manufacturer	See Note 1 Below	See Note 1 Below
	Colour reference	"Off white"	"Off white"
	Thickness	50 microns	50 microns
	Weight per unit area	0.093kg/m ²	0.093kg/m ²
	Application method	Co-extrusions process	
	Full composition details	See Note 1 Below	See Note 1 Below
Flame retardant details	See Note 2 Below	See Note 2 Below	
Adhesion of aluminium facing to core		Auto adhesively bonded during the manufacturing process (adhesion is assisted by the adhesive film)	
Mineral filled / flame retardant inorganic core	Product reference	"Fire Rated Mineral Core - FR"	"Fire Rated Mineral Core - FR"
	Generic type	Mineral filled / flame retardant inorganic core	Mineral filled / flame retardant inorganic core
	Name of manufacturer / supplier	See Note 1 Below	See Note 1 Below
	Thickness	3 mm	5 mm
	Density	1710 kg/m ³	1710 kg/m ³
	Full composition details	See Note 1 Below	See Note 1 Below
	Flame retardant details	See Note 2 Below	See Note 2 Below
Adhesion of aluminium facing to core		Auto adhesively bonded during the manufacturing process (adhesion is assisted by the adhesive film)	

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Adhesive film	Product reference	"DuPont bynel resin based adhesives"	"DuPont bynel resin based adhesives"
	Generic type	See Note 1 Below	See Note 1 Below
	Name of manufacturer	See Note 1 Below	See Note 1 Below
	Colour reference	"Off white"	"Off white"
	Thickness	50 microns	50 microns
	Weight per unit area	0.093kg/m ²	0.093kg/m ²
	Application method	Co-extrusions process	Co-extrusions process
	Full composition details	See Note 1 Below	See Note 1 Below
	Flame retardant details	See Note 2 Below	See Note 2 Below
Aluminium	Product reference	"Cold Rolled Aluminium Rolls"	"Cold Rolled Aluminium Rolls"
	Generic type	Aluminium alloy (EN 484-1)	Aluminium alloy (EN 484-1)
	Name of manufacturer	See Note 1 Below	See Note 1 Below
	Thickness	0.5mm	0.5mm
	Density / weight per unit volume	2700 kg/m ³	2700 kg/m ³
	Preparation details (pre-treatment)	Each face of the aluminium is coated with chromic acid (to a thickness of 0.008mm) before being cured at a temperature of between 120 and 150°C	Each face of the aluminium is coated with chromic acid (to a thickness of 0.008mm) before being cured at a temperature of between 120 and 150°C
Flame retardant details	The aluminium sheet is inherently flame retardant	The aluminium sheet is inherently flame retardant	
Coating (reverse face)	Product reference	"Polyester (PE) Based Service Coat"	"Polyester (PE) Based Service Coat"
	Generic type	Polyester paint	Polyester paint
	Name of manufacturer / supplier	See Note 1 Below	See Note 1 Below
	Colour reference	"Grey"	"Grey"
	Number of coats	One	One
	Density	1.7g/cm ³ (when dry)	1.7g/cm ³ (when dry)
	Application thickness (per coat)	5-8 micron	5-8 micron
	Application method	Reverse coil coating process	Reverse coil coating process
	Curing process	See Note 1 Below	See Note 1 Below
	Full composition details	See Note 1 Below	See Note 1 Below
Flame retardant details	See Note 2 Below	See Note 2 Below	
Brief description of manufacturing process of composite panel		The sponsor was unwilling to provide this information	The sponsor was unwilling to provide this information

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 was unable to provide this information as they do not manufacture the component