

De: Moyses, Isabel [mailto:Isabel.Moyeses@alcoa.com]

Enviada: quinta-feira, 1 de Julho de 2010 11:01

Para: Bruno Costa

Assunto: TR: Certification feu pour ReynobondR PE

Cumprimentos, Isabel

EMEA Legal Entity Information: http://www.alcoa.com/global/en/general/legal_europe.asp

From: ["Wehrle, Claude"](#)

To: ["Moyses, Isabel" <Isabel.Moyes@alcoa.com>](#)

Date: 05/07/2010 10:55:57

Subject: RE: Certification feu pour ReynobondR PE

Isa,

It's hard to make a note about this... Because we're not "clean"...

I'll call Bruno to discuss the situation with him, and I'll let you know the outcome.

From: Moyses, Isabel

Sent: Monday, 05 July 2010 10:52

To: Wehrle, Claude

Subject: TR: Fire certification for ReynobondR PE

Claude,

Bruno (absolutely) wants the certificate. Fire for the PE for the cassette system. We forwarded the Euronorm (riveted system) and mentioned that since it is the most unfavourable system, it is also acceptable for the cassette system. Unfortunately that's not enough... he wants a document... can you please take care of it? Thank you for your help

If you have any questions, do let me know.

From: Bruno Costa [<mailto:bruno.costa@inor.pt>]

Sent: Thursday, 1 July 2010 12:17

To: Moyses, Isabel

Subject: RE: Fire certification for ReynobondR PE

Isabel,

I think that's best, but if I present this solution it's like not presenting anything.

So the system is going to be a cassette system. Do you not have the cassette system that's certified for fire? Even if it's out of date?

Kind regards,
Bruno

From: Moyses, Isabel [<mailto:Isabel.Moyes@alcoa.com>]

Sent: Friday, 1 July 2010 11:08

To: Bruno Costa

Subject: RE: Certification feu pour ReynobondR PE

Bruno,

This is the only one we have. The Euronorm is based on the system but it's not great, soon the cassette system will be better.

Kind regards,
Isabel

From: Bruno Costa [<mailto:bruno.costa@inor.pt>]

Sent: Thursday, 1 July 2010 12:02

To: Moyses, Isabel

Subject: RE: Fire certification for ReynobondR PE

Isabel sent the riveted system, we need the cassette system.

Thanks,
Bruno

From: Moyses, Isabel [mailto:Isabel.Moyes@alcoa.com]

Sent: Friday, 1 July 2010 11:01

To: Bruno Costa

Subject: TR: Certification feu pour ReynobondR PE

Kind regards, Isabel

EMEA Legal Entity Information: http://www.alcoa.com/global/en/general/legal_europe.asp

To: 'Bruno Costa'[bruno.costa@inor.pt]
Cc: Moyses, Isabel[Isabel.Moyses@alcoa.com]
From: Wehrle, Claude
Sent: Mon 7/5/2010 9:55:32 AM (UTC)
Subject: Reynobond PE - EN13501 fire classification
[4899_001.pdf](#)

Bruno,

As discussed, I send you in attachment the document concerning the system we choose for the Reynobond PE fire certification

Regards,

Claude

INOR
Sr Bruno Costa
Rua Duque de Loulé, n°2424
Apartado 183 - Calendário
P – 4760-333 V.N. FAMALICAO

Merxheim, 05th july 2010

Mr COSTA,

Reynobond PE, is classified B-s2,d0 in accordance with the European standard EN13501.

This test was done on the riveted system, which expose the core of the material to the flame contrary to the cassette system where the core is protected by the returns.

Alcoa decided to check the behavior of its composite panels in this worst case of system (exposed fasteners on flat panels) and to use it for all the other systems.



Claude WEHRLE
Technical Manager
Alcoa Architectural Products

To: Gilles PREVOST[g.PREVOST@acodi.fr]; 'Gerald COLOMBIER'[g.COLOMBIER@acodi.fr]; Danjoux, Guillaume[Guillaume.Danjoux@alcoa.com]; Brunet, Mareva[Mareva.Brunet@alcoa.com]
From: Wehrle, Claude
Sent: Fri 12/17/2010 1:31:00 PM (UTC)
Subject: rapport M1
[M1.pdf](#)

Bonjour,

Afin de palier au problème rencontré pour la certification du Reynobond Architecture PE selon la norme européenne EN 13501, j'ai fait réaliser un nouveau rapport M1 (norme française) que je vous prie de bien vouloir trouver ci-joint

Merci et bon week-end

Claude Wehrle
Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.Wehrle@alcoa.com



From: ["Wehrle, Claude"](#)

To: ["Gilles PREVOST" <g.PREVOST@acodi.fr>](#)

["Gerald COLOMBIER" <g.COLOMBIER@acodi.fr>](#)

["Danjoux, Guillaume" <Guillaume.Danjoux@alcoa.com>](#)

["Brunet, Mareva" <Mareva.Brunet@alcoa.com>](#)

Date: 17/12/2010 14:31:00

Subject: report M1

Attachments: [M1.pdf](#)

Hello,

In order to solve the problem encountered for the certification of Reynobond Architecture PE according to the European standard EN 13501, I have had a new report M1 (French standard) produced which I kindly ask you to find attached herewith.

Thank you and have a good weekend

Claude Wehrle

Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France

Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.Wehrle@alcoa.com



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LABORATOIRE DE TRAPPES
29 avenue Roger Hennequin - 78197 Trappes Cedex
Tél. [REDACTED] - Fax [REDACTED]

PROCES-VERBAL DE CLASSEMENT DE REACTION AU FEU D'UN MATERIAU

prévu à l'article 5 de l'arrêté du 21 novembre 2002

VALABLE 5 ANS à compter du 15 décembre 2010

N° L110615 - DE/1

et annexe de 4 pages

Matériau présenté par : ALCOA ARCHITECTURAL PRODUCTS
1 Rue du Ballon
68500 MERXHEIM

Marque commerciale : REYNOBOND® ARCHITECTURE

Description sommaire :
Composition globale : Panneau sandwich constitué d'une âme en polyéthylène de 3 mm d'épaisseur, revêtue sur chaque face d'un parement en aluminium prélaqué de 0,5 mm.
Application : Bardage pour architecture intérieure et extérieure.
Masse : (5500 ± 100) g/m²
Epaisseur : (4 ± 0,1) mm
Coloris : Divers

Rapport d'essais : N° L110615 - DE/1 du 15 décembre 2010

Nature des essais : Essai par rayonnement, trait de scie.

Classement : **M1**

VALABLE POUR TOUTE APPLICATION POUR LAQUELLE LE PRODUIT N'EST PAS SOUMIS AU MARQUAGE CE**Durabilité du classement (annexe 22) : NON LIMITEE A PRIORI**

compte tenu des critères résultant des essais décrits dans le rapport d'essai N° L110615 - DE/1 annexé.

Ce procès verbal atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires.

Il ne constitue pas une certification de produits au sens de l'article L. 115-27 du code de la consommation et de la loi du 3 juin 1994.

Est seule autorisée la reproduction intégrale soit du présent Procès-verbal de classement qui comprend 1 page soit l'intégralité du Procès-Verbal et rapport annexé qui comporte 5 pages.

Trappes, le 15 décembre 2010

La Responsable du Département
Comportement au Feu et Sécurité Incendie



Accréditation
N° 1-0606
Portée disponible
Sur www.cofrac.fr

Valérie RUMBAU



La Responsable de l'essai

Emilie COLIN

Laboratoire national de métrologie et d'essais

Établissement public à caractère industriel et commercial • Siège social : 1, rue Gaston Boissier - 75724 Paris Cedex 15 • Tél. : [REDACTED]
 Fax : [REDACTED] • E-mail : info@lne.fr • Internet : www.lne.fr • Siret : 313 320 244 00012 • NAF : 743 B • TVA : FR 92 313 320 244
 Barclays Paris Centrale IBAN : FR76 3058 8600 0149 7267 4010 170 BIC : BARCFRPP

425



Progress, a passion to be shared

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Tel.: [REDACTED] - Fax: [REDACTED]

CLASSIFICATION REPORT ON FIRE REACTION OF A MATERIAL

stipulated in Article 5 of the Decree of 21 November 2002

VALID for 5 years from 15 December 2010

No. L110615 - DE/1

and 4-page annex

Material presented by: ALCOA ARCHITECTURAL PRODUCTS
1 Rue du Ballon
68500 MERXHEIM

Commercial brand: REYNOBOND® ARCHITECTURE

Brief description:
Total composition: Sandwich panel composed of a polyethylene core 3 mm thick, covered on each side by a precoated aluminium skin of 0.5 mm.
Application: Cladding for interior and exterior architecture.
Mass: $(5500 \pm 100) \text{ g/m}^2$
Thickness: $(4 \pm 0.1) \text{ mm}$
Colours: Various

Test report: No. L110615 - DE/1 of 15 December 2010

Nature of the tests: Test by radiation, saw cut.

Classification: **M1**

VALID FOR ANY APPLICATION FOR WHICH THE PRODUCT IS NOT SUBJECT TO EC MARKING

Durability of the classification (annex 22): NOT A PRIORI LIMITED

taking account of the criteria resulting from the tests described in test report No. L110615 - DE/1 attached hereto.

This report certifies only the properties of the sample tested and does not prejudge the properties of similar products.
It is not a certification of products within the meaning of Article L 115-27 of the Consumer Code and the Law of 3 June 1994.

Only full reproduction is authorised, either of this Classification Report consisting of 1 page, or the entire Report and attached report, which contains 5 pages.

Trappes, 15 December 2010

Manager of the Fire Safety and Fire Behaviour
Department



Accreditation
No. 1-0606
Scope available at
www.cofrac.fr

Valérie Rumbau



Person responsible for the test

Emilie Colin

National metrology and test laboratory

Public industrial and commercial establishment • Registered office: 1, rue Gaston Boissier - 75724 Paris Cedex 15 • Tel.: [REDACTED]
 Fax: [REDACTED] • E-mail: info@lne.fr • Website: www.lne.fr • Siret: 313 320 244 00012 • NAF: 743 B • VAT: FR 92 313 320 244
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Dedicated to your Success

To: Leopoldes, Christine [Christine.Leopoldes@alcoa.com]
From: Wehrle, Claude
Sent: Thur 5/19/2011 8:22:15 AM (UTC)
Subject: Fire resistance request

Christine,

I come back to you concerning your request for fire resistance on Reynobond panels.

Our panels are installed as cladding with different kind of systems to be applied on façades, ceilings or roofs where their fire characteristics in terms of reaction to fire are evaluated.

This give a classification of the buildings products, for example B2 in accordance with DIN 4102 for Reynobond PE.

The request you did is for a fire resistance classification. This is a evaluation for a building element to keep stable and fire proof during 60, 90 or 180 minutes.

It's not adapted to our product, because Reynobond is a cladding element of the building, and not a structural element of it.

I hope this will help

Claude

Claude Wehrle
Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.Wehrle@alcoa.com



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To: Koenig, Bertrand[Bertrand.Koenig@alcoa.com]; Quiquerez, Laure[Laure.Quiquerez@alcoa.com]
From: Wehrle, Claude
Sent: Wed 6/29/2011 9:34:58 AM (UTC)
Subject: TR: Essais réaction au feu dossier ES541110270

[P1150080.JPG](#)

[P1150081.JPG](#)

[P1150082.JPG](#)

[P1150083.JPG](#)

[P1150084.JPG](#)

[P1150085.JPG](#)

[P1150088.JPG](#)

[P1150089.JPG](#)

Oups ...

Classement du PE en cassettes suite à essai ce matin ... « F » !!!

From: ["Wehrle, Claude"](#)

To: ["Koenig, Bertrand" <Bertrand.Koenig@alcoa.com>](#)

["Quiquerez, Laure" <Laure.Quiquerez@alcoa.com>](#)

Date: 29/06/2011 11:34:57

Subject: TR: Fire reaction tests dossier ES541110270

Oops...

The classification of PE in cassettes following the test this morning is..."F" !!!

















To: Wehrle, Claude[Claude.Wehrle@alcoa.com]
From: Scheidecker, Guy
Sent: Thur 6/30/2011 8:34:52 AM (UTC)
Subject: Re: Evolution classement feu en Europe

Ok

Guy Scheidecker
Sales & Marketing Director
Alcoa Architectural Products Merxheim

Le 30 juin 2011 à 10:18, "Wehrle, Claude" <Claude.Wehrle@alcoa.com> a écrit :

Pour son niveau d'allemand et être certain que je ne rate rien

Et aussi car il est responsable ARC

Est-ce OK ?

De : Scheidecker, Guy
Envoyé : jeudi 30 juin 2011 10:17
À : Wehrle, Claude
Objet : Re: Evolution classement feu en Europe

Pourquoi Peter ?

Guy Scheidecker

Sales & Marketing Director

Alcoa Architectural Products Merxheim

Le 30 juin 2011 à 09:20, "Wehrle, Claude" <Claude.Wehrle@alcoa.com> a écrit :

OK

Pour info, j'y vais avec Peter

De : Scheidecker, Guy
Envoyé : jeudi 30 juin 2011 09:19
À : Wehrle, Claude
Objet : Re: Evolution classement feu en Europe

On regarde si possible lundi

Mais il y a Iso

Je veux aussi savoir ce que tu va discuter avec Ritter

Merci

Guy Scheidecker

Sales & Marketing Director

Alcoa Architectural Products Merxheim

Le 30 juin 2011 à 09:14, "Wehrle, Claude" <Claude.Wehrle@alcoa.com> a écrit :

Guy,

Il faudrait que l'on arrive à se voir 1/2h au plus vite au sujet des essais feu réalisés sur le Reynobond PE en cassettes.

En 2008, lors d'une réunion, j'avais précisé que le PE risquait d'être « ou » de l'architecture en Europe de l'ouest.

En 2011 .. nous n'y sommes pas encore, mais presque !

Le classement obtenu pour le Reynobond PE cassettes est le même que celui des concurrents, c'est-à-dire « F », et donc non utilisable en façade de bâtiment (M4 en France par exemple)

Si possible un RDV avant mardi , car c'est le jour où je vois F. RITTER à Fribourg pour en parler

Merci

Claude

Claude Wehrle

Technical Manager

Alcoa Architectural Products

1 rue du Ballon, 68500 Merxheim, France

Tel:

Fax:

E-mail: Claude.Wehrle@alcoa.com

<image002.jpg>

From: ["Scheidecker, Guy"](#)

To: ["Wehrle, Claude" <Claude.Wehrle@alcoa.com>](#)

Date: 30/06/2011 10:34:52

Subject: Re: Evolution of fire classification in Europe

Ok

Guy Scheidecker

Sales & Marketing Director

Alcoa Architectural Products Merxheim

On 30 June 2011 at 10:18, "Wehrle, Claude" <Claude.Wehrle@alcoa.com> wrote:

Because of his level of German and making sure I don't miss anything

And also because he is responsible for ARC

Is that OK?

From: Scheidecker, Guy

Sent: Thursday, 30 June 2011 10:17

To: Wehrle, Claude

Subject: RE: Evolution of fire classification in Europe

Why Peter?

Guy Scheidecker

Sales & Marketing Director

Alcoa Architectural Products Merxheim

On 30 June 2011 at 09:20, "Wehrle, Claude" <Claude.Wehrle@alcoa.com> wrote:

OK

For the record, I'm going with Peter.

From: Scheidecker, Guy

Sent: Thursday, 30 June 2011 09:19

To: Wehrle, Claude

Subject: Re: Evolution of fire classification in Europe

We'll check if we can on Monday.

But there is Iso

I also want to know what you're going to discuss with Ritter

Thank you

Guy Scheidecker

Sales & Marketing Director

Alcoa Architectural Products Merxheim

On 30 June 2011 at 09:20, "Wehrle, Claude" <Claude.Wehrle@alcoa.com> wrote:

Guy,

We should be able to meet as soon as possible for a half-hour meeting about the fire tests carried out on the Reynobond PE in cassettes.

In 2008, at a meeting, I stated that PE was in danger of becoming "or" for architecture in Western Europe.

In 2011... we're not there yet, but almost there!

The classification obtained for the Reynobond PE cassettes is the same as that of the competitors, i.e. "F", and therefore not suitable for use on building facades (M4 in France for example)...

A meeting before Tuesday, if possible, would be good because that's the day I see F. RITTER in Fribourg to talk about it.

Thank you.

Claude

Claude Wehrle

Technical Manager

Alcoa Architectural Products

1 rue du Ballon, 68500 Merxheim, France

Tel:

Fax.

E-mail: Claude.Wehrle@alcoa.com

<image002.jpg>

To: Marichez, Herve[Herve.Marichez@alcoa.com]
From: Wehrle, Claude
Sent: Thur 7/7/2011 2:02:38 PM (UTC)
Subject: PE Vs FR
[PE Vs FR - DIN 4102.docx](#)

Hervé,

La réaction au feu d'un matériau est l'aliment qui peut être apporté au feu et au développement d'un incendie. Ainsi existe-t-il des matériaux qui vont favoriser le développement d'un incendie et d'autre qui, au contraire, vont limiter sa propagation.

En ajoutant des charges minérales dans l'âme du Reynobond, nous avons créé un produit qui va empêcher cette propagation et donc limiter les dégâts à la zone directement en contact avec la flamme.

L'aluminium est une première barrière qui résistera à de très hautes températures.

Dès que cette première barrière sera franchie par le feu, l'âme « Fire Retardant » du Reynobond FR n'alimentera pas le feu pour qu'il progresse, contrairement au Polyéthylène (PE) pur.

Un exemple d'essai qui distingue clairement les deux matériaux Reynobond PE et Reynobond FR est l'essai allemand DIN 4102. Les plaques de composite sont attaquées par une flamme de gaz à leur base, et on évalue la propagation du feu. Le PE y est classé B2 (inflammable) alors que le FR y est classé B1 (difficilement inflammable).

A ta dispo si tu as besoin d'autres infos

Claude

Claude Wehrle
Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.Wehrle@alcoa.com



From: ["Wehrle, Claude"](#)

To: ["Marichez, Herve" <Herve.Marichez@alcoa.com>](#)

Date: 07/07/2011 16:02:38

Subject: PE Vs FR

Attachments: [PE Vs FR - DIN 4102.docx](#)

Hervé,

The reaction to fire of a material is the degree to which it fuels the fire and contributes to its spread. Thus, certain materials will encourage the spread of a fire, whilst others limit its spread.

By adding mineral fillers to the core of the Reynobond, we have created a product that will prevent this spread and therefore limit damage to the area in direct contact with the flame.

Aluminium is used as an initial barrier that will resist very high temperatures.

Once the fire breaks through this barrier, the "Fire Retardant" core of Reynobond FR will not feed the fire's progress, unlike pure Polyethylene (PE).

An example of a test that clearly distinguishes the two materials Reynobond PE and Reynobond FR is the German DIN 4102 test. The composite panels are exposed to a gas flame at their base and the flame spread is evaluated. PE is classified as B2 (flammable) while FR is classified as B1 (Hardly flammable).

I will be happy to help you if you need more information

Claude

Claude Wehrle
Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.Wehrle@alcoa.com



Ansicht der Prüfkörper nach der Brandschachtprüfung

Reynobond PE – *Le feu se propage sur la hauteur des échantillons.*



Aussehen der Probekörper nach der Brandschachtprüfung
(Produkt: Alcoa Reynobond® FR)

Reynobond FR – *Le feu est resté localisé à l'endroit de l'attaque de la flamme*

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To: Froehlich, Peter[Peter.Froehlich@alcoa.com]
From: Wehrle, Claude
Sent: Fri 7/8/2011 1:21:39 PM (UTC)
Subject: Visit - CE marking Freiburg.docx
[Visit - CE marking Freiburg.docx](#)

Peter,

Ich muss dass am Dienstag an GSc/CS und RQ zeigen

Kannst du mir bitte deine Bemerkungen machen ?

Danke

Claude

From: ["Wehrle, Claude"](#)

To: ["Froehlich, Peter" <Peter.Froehlich@alcoa.com>](#)

Date: 08/07/2011 15:21:38

Subject: Visit - CE marking Freiburg.docx

Attachments: [Visit - CE marking Freiburg.docx](#)

Peter,

I need to show that to GSc/CS and RQ on Tuesday.

Can you please send me your comments?

Thanks,

Claude

1, rue du Ballon
F- 68500 Merxheim
France
Tel: [REDACTED]
Fax: [REDACTED]
Claude.wehrle@alcoa.com

Visit report

Company : [REDACTED]	Written by : Claude WEHRLE
Location : Freiburg	Date of Visit: 05 July 2011
People present : Frank RITTER (3A)	People of AAP - Merxheim present: Peter FROELICH (PFR) – Claude WEHRLE (CWE)
Copy : GSC + PFR	

	Discussed points	Actions: who/when															
	Reason for Visit: Changes in ACM use for Architecture																
1.	<p><u>European fire regulation</u></p> <p><u>Remind:</u></p> <p>The European fire reaction classification norm EN 13501 is testing the product in his installation conditions. After the tests we did, the classifications for Reynobond in cassettes and riveted/screwed system are:</p> <table border="1"> <thead> <tr> <th>Product</th><th>System</th><th>Class EN 13501</th></tr> </thead> <tbody> <tr> <td>Reynobond 55 PE</td><td>Riveted/screwed</td><td>B-s1,d0</td></tr> <tr> <td>Reynobond 55 PE</td><td>Cassettes</td><td>E</td></tr> <tr> <td>Reynobond 55 FR</td><td>Riveted/screwed</td><td>B-s1,d0</td></tr> <tr> <td>Reynobond 55 FR</td><td>Cassettes</td><td>B-s1,d0</td></tr> </tbody> </table> <p>A “B class” is the minimum required for a façade in Europe.</p> <p><u>Next steps:</u></p> <p>For the moment, even if we know that PE material in cassette has a bad behavior exposed to fire, we can still work with national regulations who are not as restrictive.</p> <p>Some counties (Spain...) are already working with EN13501 standards, and the PE in cassettes is no more usable there. The evolution of fire regulation will put the PE out of the market in the coming month. It's difficult to give a dead line do to the inertia of European</p>	Product	System	Class EN 13501	Reynobond 55 PE	Riveted/screwed	B-s1,d0	Reynobond 55 PE	Cassettes	E	Reynobond 55 FR	Riveted/screwed	B-s1,d0	Reynobond 55 FR	Cassettes	B-s1,d0	<p>CWE: analyze how we could have a “D” call with PE cassettes – max class possible and usable in some small buildings.</p>
Product	System	Class EN 13501															
Reynobond 55 PE	Riveted/screwed	B-s1,d0															
Reynobond 55 PE	Cassettes	E															
Reynobond 55 FR	Riveted/screwed	B-s1,d0															
Reynobond 55 FR	Cassettes	B-s1,d0															

	<p>commissions.</p> <p><u>New information – Big fire test:</u></p> <p>A new “real fire test”, erected as a façade is done on a project, will be included in fire regulation. The fire is done with 400kg wood.</p> <p>This will approximately be the same as in Russia for K0.</p> <p>We already did this kind of tests, even in Austria, and passed it with our Reynobond FR. But it’s impossible to run it with Reynobond PE.</p> <p>We are already asked for such kind of test for Dubai, with a test in accordance with BS 8414 standard, but this will be very difficult to pass do to the temperature of the test who is higher than 660°C (aluminum fusion temp.)</p> <p>2. <u>Technical issues for CE marking</u></p> <p>A technical report (TR), written by the Spanish certification institute has as target to give the “Assessment procedure for durability of light weight self supporting Alu/PE/Alu composite panels”.</p> <p>Both 3A and ALCOA have a lot of remarks to bring to this document, in order to have a height level of requirements for the quality of composite panels used in Europe.</p> <ol style="list-style-type: none"> 1- The coil coated surface: add to initial proposal some QUV B tests and a remark excluding panels with Cr26 pre treatments. 2- We should add a standard stiffness (the RB55 4mm one) 3- The ageing procedure: the ASTM C 481 type B is not relevant for composite panels. A new proposal will include our standards and especially a climate cycle test made in the range of -40°C to +80°C who is the product range. 4- The flexural strength test has to be better defined 5- <p>For this, 3A and ALCOA, will answer together under the behalf of EAA.</p>	<p>CWE:</p>
	<p>Conclusion:</p> <p>It has to be checked if the proposed procedure is an Initial Type Testing “ITT” or a Fabrication Control Procedure “FCP”.</p> <p>An ITT has to be done one time, when the product is coming into the market; a FCP has to be run minimum ones a year.</p> <p>The cost of the procedure for CE marking is approximately evaluated at 150.000 Euros !!</p>	

To: 'eric@simcoefs.com'[eric@simcoefs.com]
Cc: French, Deborah[Deborah.French@alcoa.com]
From: Wehrle, Claude
Sent: Thur 9/22/2011 12:57:03 PM (UTC)
Subject: RE: University of Warwick IIPSI Building Cladding UK Project

Dear Mr Eric Ross,

I come back to you concerning your fire issues :

- We didn't certificate Reynobond by LPCB against LPS 1581 or 1582 for the moment. We never launch the procedure, and it's not something that we planned to do.
- Indeed both Reynobond PE and FR reached the class O when tested in accordance with BS476 class 6&7. The difference is in the fire propagation index and in the spread of flame.

Kind regards,

Claude Wehrle
Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.Wehrle@alcoa.com



De : French, Deborah
Envoyé : jeudi 15 septembre 2011 10:35
À : Wehrle, Claude
Objet : FW: University of Warwick IIPSI Building Cladding UK Project
Importance : Haute

Morning Claude

RB has been specified on this project and the building contractors have some questions relating to the fire resistance of RB, could you answer the 2 questions below for me please

- Ideally we would prefer a rain screen product that is tested and certificated by LPCB against LPS 1581 or 1582 dependent on supporting structure. Is there a reason Reynobond have not obtained the desired approval?
- On some of the Reynobond product spec info there is reference to a fire resisting version as well as the standard version. What is the difference as it appears both achieve class O of BS476 Part 6? Though the panel is only 4mm thick it still contains a combustible polyethylene core which affects our fire classification of the building construction and this is why I am keen to make sure the best possible option is used.

Thanks Claude
Debbs

Sent: Wednesday, September 14, 2011 11:56 AM
To: French, Deborah
Subject: FW: University of Warwick IIPSI Building Cladding

Debbs,

We've put Reynobond forward on the above project and everything's looking quite good.

Can you answer the below questions regarding the LPCB and fire rating panel please?

Thanks

Regards,

Eric Ross
[REDACTED]

Simco EFS Eric Ross | eric@simcoefs.com

Simco External Framing Solutions Limited
Leamore Lane
Bloxwich
Walsall
WS2 7DQ.
United Kingdom

Tel: [REDACTED]

Fax: [REDACTED]

Website: www.simcoefs.com

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From: Keith Merritt [<mailto:Keith.Merritt@willmottdixon.co.uk>]
Sent: 14 September 2011 11:32
To: Eric Ross
Cc: Stuart Wilson; Ravneet Singh; Roger Winfer; Andrew Bonner; Jennifer Song
Subject: FW: University of Warwick IIPSI Building Cladding

Eric,

Please see the email below from Philip Smith at the Universities building insurers.

Please could you address the questions raised regarding the ACM cladding. i.e.:

- What is the insulation on or within the wall?
- Ideally we would prefer a rain screen product that is tested and certificated by LPCB against LPS 1581 or 1582 dependent on supporting structure. Is there a reason Reynobond have not obtained the desired approval?
- On some of the Reynobond product spec info there is reference to a fire resisting version as well as

the standard version. What is the difference as it appears both achieve class O of BS476 Part 6? Though the panel is only 4mm thick it still contains a combustible polyethylene core which affects our fire classification of the building construction and this is why I am keen to make sure the best possible option is used.

thanks,
Keith

Keith Merritt
Snr. Design Co-ordinator
Willmott Dixon Construction

T: [REDACTED]
F: [REDACTED]
M: [REDACTED]
Email: keith.merritt@willmott Dixon.co.uk

From: Smith, Philip [mailto:Philip.Smith@[REDACTED]]
Sent: 14 September 2011 09:54
To: Keith Merritt
Cc: The IIPSI Team at ECA; Ravneet Singh; Stuart Wilson; Robson, Marcus
Subject: RE: University of Warwick IIPSI Building Cladding

Keith

Thanks for the spec info on the two products.

Technology Hall - No problem with the LPCB certificated Thyssen Krupp Isowelle cladding panel. Please remember the certification includes certain installation requirements.

Main Building - As the Reynobond ACM is rain screen cladding there is obviously a wall behind it. What is the insulation on or within the wall? Ideally we would prefer a rain screen product that is tested and certificated by LPCB against LPS 1581 or 1582 dependent on supporting structure. Is there a reason Reynobond have not obtained the desired approval? On some of the Reynobond product spec info there is reference to a fire resisting version as well as the standard version. What is the difference as it appears both achieve class O of BS476 Part 6? Though the panel is only 4mm thick it still contains a combustible polyethylene core which affects our fire classification of the building construction and this is why I am keen to make sure the best possible option is used.

I await your further advices.

Thanks

Philip

Philip Smith BA(hons) MIRM Chartered Insurer
Risk Control Surveyor

[REDACTED] - 1st Floor, 2 Minster Court, Mincing Lane, London. EC3R 7BB
Mobile: [REDACTED] E-mail: [philip.smith@\[REDACTED\]](mailto:philip.smith@[REDACTED])

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MET00053158_P04/39
MET00053158_P04_0039

Think green - please do not print this email unless you really need to

From: Keith Merritt [mailto:Keith.Merritt@willmottdixon.co.uk]
Sent: Tuesday, September 13, 2011 5:17 PM
To: Smith, Philip
Cc: The IIPSI Team at ECA; Ravneet Singh; Stuart Wilson
Subject: University of Warwick IIPSI Building Cladding

Philip,

Further to our telephone conversation earlier today I confirm the proposed cladding materials for the UoW IIPSI building are as follows:

To the technology hall. Thyssen Krupp Isowelle cladding panel with the PIR internal core. Please find attached the LCPB fire certification.

To the main building. Reynobond ACM (aluminium composite Material) 4mm thick cladding panel with Polyethylene Core and aluminium sheet either side. See attached link:
http://www.alcoa.com/aap/europe/en/product_category.asp?cat_id=1843

The material is class 0 rated and has the following certification.
http://www.alcoa.com/aap/europe/en/info_page/down_certification.asp

I hope this is acceptable. If you require any further information please let me know. I am on leave from Wednesday evening until Monday 26th September. If you require any information in the meantime please contact my colleagues, Stuart and Rav, email address as cc.

Regards,
Keith

Keith Merritt
Snr. Design Co-ordinator
Willmott Dixon Construction

Email: keith.merritt@willmottdixon.co.uk

Chantry House

High Street

Coleshill

Birmingham B46 3BP

Telephone: [REDACTED]

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To: 'COLOMBIER Gerald'[g.COLOMBIER@acodi.fr]
From: Wehrle, Claude
Sent: Wed 10/5/2011 1:03:19 PM (UTC)
Subject: RE: Classement feu en France

Oui, elle sont obsolètes maintenant

De : COLOMBIER Gerald [mailto:g.COLOMBIER@acodi.fr]

Envoyé : mercredi 5 octobre 2011 15:02

À : Wehrle, Claude

Objet : RE: Classement feu en France

Les infos viennent de votre doc jointe ?

Gérald COLOMBIER Chargé d'affaires
[REDACTED]

Elise ROCIPON Chargée d'études
e.rocipon@acodi.fr



ACODI SA

Rue Jean Colas (Z.I.)

10440 TORVILLIERS

A5 sortie n°20 direction TROYES

Tél : [REDACTED]

Fax : [REDACTED]

De : Wehrle, Claude [mailto:Claude.Wehrle@alcoa.com]

Envoyé : mercredi 5 octobre 2011 14:16

À : COLOMBIER Gerald

Objet : RE: Classement feu en France

Merci de relire mon tableau

De : COLOMBIER Gerald [mailto:g.COLOMBIER@acodi.fr]

Envoyé : mercredi 5 octobre 2011 14:08

À : Wehrle, Claude

Objet : RE: Classement feu en France

Claude,

Lors de mes recherches, j'ai bien trouvé B s1 d0 pour le FR mais B s2 d0 pour le PE. Est-ce vrai ou les deux sont ils B s1 d0 ?

Gérald COLOMBIER Chargé d'affaires

Elise ROCIPON Chargée d'études
e.rocipon@acodi.fr



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 10440 TORVILLIERS
 A5 sortie n°20 direction TROYES

Tél :
 Fax :

De : Wehrle, Claude [mailto:Claude.Wehrle@alcoa.com]

Envoyé : mercredi 5 octobre 2011 14:00

À : Danjoux, Guillaume; Brunet, Mareva; PREVOST Gilles; COLOMBIER Gerald; MOREAU Pierre Antoine

Cc : Scheidecker, Guy

Objet : Classement feu en France

Bonjour,

Je souhaite, au travers de ce message, faire le point sur le classement de réaction au feu du Reynobond et son usage sur le marché français.

Comme vous le savez, nous avons un classement M1 selon la norme NF P 92.507 pour le Reynobond PE. Cette norme ne concerne que le produit, sans tenir compte du système utilisé pour sa mise en œuvre. Ce classement M1 est toujours valable au jour d'aujourd'hui.

D'autre part, nous avons une nouvelle norme de classement en réaction au feu (EN 13501), qui elle tient compte du système utilisé pour la mise en œuvre du Reynobond.

Les Classements sont les suivants :

<i>Produit</i>	<i>Système</i>	<i>Classement selon EN 13501</i>	<i>Equivalence NF</i>
Reynobond PE	Cassette	E	M4
Reynobond PE	Riveté / vissé	B-s1,d0	M1
Reynobond FR	Cassette	B-s1,d0	M1
Reynobond FR	Riveté / vissé	B-s1,d0	M1 454

En conclusion, je vous demande d'accorder la plus grande attention aux éléments donnés dans le CCTP.

En effet, si celui-ci mentionne un classement selon B-s1,d0 selon EN13501, nous ne pourrions pas mettre en œuvre du PE en cassettes sur une façade.

Si celui-ci mentionne un classement M1 selon NF P 92.507, le PE en cassettes est autorisé.

Ces infos sont confirmées par le CSTB.

Salutations,

Claude Wehrle

Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.Wehrle@alcoa.com



EMEA Legal Entity Information: http://www.alcoa.com/global/en/general/legal_europe.asp

From: ["Wehrle, Claude"](#)

To: ["COLOMBIER Gerald" <g.COLOMBIER@acodi.fr>](#)

Date: 05/10/2011 15:03:19

Subject: RE: Fire classification in France

Yes, they are obsolete now.

From: COLOMBIER Gerald [mailto:g.COLOMBIER@acodi.fr]

Sent: Wednesday, 5 October 2011 15:02

To: Wehrle, Claude

Subject: RE: Fire classification in France

Does the information come from your attached document?

Gérald COLOMBIER Chargé d'affaires
[REDACTED]

Elise ROCIPON Chargée d'études

e.rocipon@acodi.fr

ACODI SA

Rue Jean Colas (Z.I.)

10440 TORVILLIERS

A5 sortie n°20 direction TROYES

Tél : [REDACTED]

Fax : [REDACTED]

From: Wehrle, Claude [mailto:Claude.Wehrle@alcoa.com]

Sent: Wednesday, 5 October 2011 14:16

To: COLOMBIER Gerald

Subject: RE: Fire classification in France

Please read the table again

From: COLOMBIER Gerald [mailto:g.COLOMBIER@acodi.fr]

Sent: mercredi 5 octobre 2011 14:08

To: Wehrle, Claude

Subject: RE: Fire classification in France

Claude,

During my research, I found B s1 d0 for FR but B s2 d0 for PE. Is this true or are both B s1 d0?

A+

Gérald COLOMBIER Chargé d'affaires

Elise ROCIPON Chargée d'études
e.rocipon@acodi.fr

ACODI SA

Rue Jean Colas (Z.I.)
10440 TORVILLIERS
A5 sortie n°20 direction TROYES

Tél :
Fax :

From: Wehrle, Claude [mailto:Claude.Wehrle@alcoa.com]
Sent: Wednesday 5 October 2011 14:00
To: Danjoux, Guillaume; Brunet, Mareva; PREVOST Gilles; COLOMBIER Gerald; MOREAU Pierre Antoine
Cc: Scheidecker, Guy
Subject : Fire classification in France

Hello,

I would like, through this message, to provide an update on Reynobond's reaction to fire classification and its use on the French market.

As you know, we have an M1 classification according to the NF P 92.507 standard for Reynobond PE. This standard only concerns the product, without taking into account the system used for its implementation.

This M1 ranking is still valid today.

On the other hand, we have a new classification standard in reaction to fire (EN 13501), which takes into account the system used for the implementation of Reynobond.

The classifications are as follows:

Product	System	Classification according to EN 13501	NF equivalence
Reynobond PE	Cassette	E	M4
Reynobond PE	Riveted / screwed	B-s1,d0	M1
Reynobond FR	Cassette	B-s1,d0	M1
Reynobond FR	Riveted / screwed	B-s1,d0	M1

In conclusion, I would ask you to pay the greatest *attention to the information provided in the CCTP*. Indeed, if it mentions a classification according to B-s1,d0 as per EN13501, we will not be able to implement PE in cassettes on a façade.

If it mentions an M1 classification according to NF P 92.507, the PE in cassettes is authorised.

This information is confirmed by the CSTB.

Sincerely,

Claude Wehrle
Technical Manager

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
E-mail: Claude.vehrle@alcoa.com

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To: Jordi Gonzalez[jordi@alotark.com]
Cc: Wehrle, Claude[Claude.Wehrle@alcoa.com]
From: Moyses, Isabel
Sent: Wed 11/23/2011 4:23:56 PM (UTC)
Subject: Fire classification
Courrier - ENDESA.pdf

Estimado Jordi,

Te envío el correo de Claude con relación a la norma fuego.

Con relación a los plazos estoy tratando de tener las cartas de compromiso para enviar a Aluman y Truque.
Como había dicho si les corren prisa para el material { parte interior } es necesario que ellos vienen con los pedidos esta semana.

Gracias y saludos, Isabel

Isabel Moyses
Reynobond Architecture & Corporate ID

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France
Tel: [REDACTED]
Fax: [REDACTED]
Mob: [REDACTED]
E-mail: Isabel.Moyes@alcoa.com



From: ["Moyses, Isabel"](#)

To: ["Jordi Gonzalez" <jordi@alotark.com>](#)

Date: 23/11/2011 17:23:56

Subject: Fire classificacion

Attachments: [Courier_-_ENDESA.pdf](#)

Dear Jordi,

I am sending you Claude's email regarding the fire standard.

With regard to the deadline, I am trying to get the letter of intent to send to Aluman and Truque.

As I said, if they are in a hurry for the material (internal section), it is necessary for them to come with the orders this week.

Thank you and best wishes, Isabel

Isabel Moyses

Reynobond Architecture & Corporate ID

Alcoa Architectural Products

1 rue du Ballon, 68500 Merxheim, France

Tel:

Fax:

Mob:

E-mail: Isabel.Moyeses@alcoa.com

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Alotark Arquitectos
Mr. Jordi Gonzalez

Subject: ref. ENDESA

Merxheim, 23 November 2011

Dear Mr. Gonzalez,

As the fire reaction tests recently changed in Europe, and especially for Spain, we kindly inform you that some modifications have to be taken into consideration for your project "ENDESA".

Cladding systems for projects in Spain have to be classified B-s3,d2 minimum (based on the EN 13501 standard).

For the Reynobond® FR, our riveted and cassette systems are both B-s1,d0.
For the Reynobond® PE, our riveted systems are B-s1,d0 and our cassette systems are E.

The ENDESA project is made with cassettes, therefore, we recommend you to use our Reynobond® FR product.

If further help and advice is required, please let us know and we will be happy to discuss a solution.

Best Regards,

Claude WEHRLE
Technical Manager

To: Wehrle, Claude[Claude.Wehrle@alcoa.com]
From: Moyses, Isabel
Sent: Thur 12/8/2011 3:55:57 PM (UTC)
Subject: TR: evolution feu 2011 ROMGOM.pptx
[evolution feu 2011 ROMGOM.pptx](#)

De : Wehrle, Claude
Envoyé : jeudi 8 décembre 2011 16:31
À : Moyses, Isabel
Objet : evolution feu 2011 ROMGOM.pptx

Pour avis

From: ["Moyses, Isabel"](#)

To: ["Wehrle, Claude" <Claude.Wehrle@alcoa.com>](#)

Date: 08/12/2011 16:55:57

Subject: TR: evolution feu 2011 ROMGOM.pptx

Attachment
s: [evolution feu 2011 ROMGOM.pptx](#)

From: Wehrle, Claude

Sent: Thursday, 8 December 2011 16:31

To: Moyses, Isabel

Subject: evolution feu 2011 ROMGOM.pptx

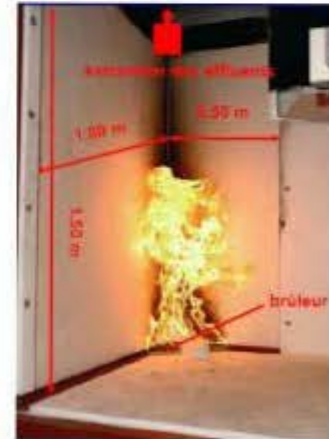
For opinion

➤ *Classification Norm EN-13501:*

Test on a small piece of product for the flameability :



Single Burning Item (SBI) test – On a building corner



↘ Equivalence with building rules

↘ **B-s1,d0 for:**

- **Reynobond FR cassettes and riveted**
- **Reynobond PE riveted**

Limit for façades products in Spain: B-s3,d1

↘ **E for Reynobond PE cassettes**

Classes selon NF EN 13 501-1			Exigence
A1	—	—	Incombustible
A2	s1	d0	M0
A2	s1	d1 ⁽¹⁾	M1
A2	s2 s3	d0 d1 ⁽¹⁾	
B	s1 s2 s3	d0 d1 ⁽¹⁾	
C ⁽²⁾	s1 ^{(2) (3)} s2 ⁽²⁾ s3 ⁽³⁾	d0 d1 ⁽¹⁾	M2
D	s1 ⁽²⁾ s2 s3	d0 d1 ⁽¹⁾	M3
			M4 (non gouttant)
Toutes classes ⁽²⁾ autres que E-d2 et F			M4

Mechanical characteristics

Reynobond Vs other ACM

Characteristics	Unit	Competitor A	Competitor B	Reynobond
Alloy		5005	3105	3005
Temper		H42	H44	H46
Tensile strength (Rm)	MPa	> 130 - 185	> 150 - 200	> 185 - 240
Proof stress (Rp 0,2)	MPa	> 90	> 120	> 160
Elongation (A50)	%	> 5	> 3	> 2
Elasticity modulus (E)	MPa	70 000	70 000	70 000
Maximum stress (Rp0,2 / Normal wind 1,7)	MPa	51	70	94
Bonding integrity* (T-peel in Pound per Linear Inch)	PLI	25	25	Published: 25 Mini Average: 45
Rivet fixing point resistance (Maxi Force/ safety factor 3)	N (Newton)	Rc: 720 N Rt: 680 N	Not tested	Rc: 892 N Rt: 1050 N

Conclusion: More distance between fixing points for Reynobond = Lower Cost



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To: Koenig, Bertrand[Bertrand.Koenig@alcoa.com]
From: Wehrle, Claude
Sent: Fri 8/31/2012 2:55:19 PM (UTC)
Subject: Emailing: echeances certif feu.xlsx
[echeances certif feu.xlsx](#)

Bertrand,

Ci-joint le fichier demandé

Je préfère que l'on prenne un moment pour en parler lundi avant la réunion NPD

Claude

From: ["Wehrle, Claude"](#)

To: ["Koenig, Bertrand" <Bertrand.Koenig@alcoa.com>](#)

Date: 31/08/2012 16:55:18

Subject: Emailing: echeances certif feu.xlsx

Attachments: [echeances certif feu.xlsx](#)

Bertrand,

Please find the requested file attached.

I would prefer that we take a moment to talk about this on Monday before the NDP meeting

Claude

CERTIFICATION - REYNOBOND ARCHITECTURE

Date du jour :5/26/2011

Code couleur alarme
(nombre de mois) :

Echu

4

12

Zone	Pays	Type	Désignation	Produit	N°	Classe	Date début	Durée (mois)	Expiration
EUROPE	EUROPE	Feu & Fumée	Euroclasses	55 PE RIVETE	RA11-0032	B-s1,d0	2/9/2011	60	2/9/2016
EUROPE	EUROPE	Feu & Fumée	Euroclasses	55 FR RIVETE et CASSETTES	RA09-0407	B-s1,d0	11/20/2009	60	11/20/2014
EUROPE	EUROPE	Feu & Fumée	Euroclasses	55 PE cassettes	RA11-?????	E	9/30/2011	60	9/30/2016
EUROPE	EUROPE	Feu & Fumée	Euroclasses	Reynolux	RA07-0182	A1	5/14/2007	60	5/14/2012
1	France	Feu	Classement Feu	33PE	J090011-CEMATE/1	M1	9/22/2008	60	9/22/2013
1	France	Feu	Classement Feu	55 PE	L110615 - DE/1	M1	12/15/2010	60	12/15/2015
2	Allemagne	Feu	PRÜFZEUGNIS	55 PE	3040/293/07	B2	12/1/2007	60	12/1/2012
2	Allemagne	Feu	PRÜFZEUGNIS	55 FR	3012/419/11	B1	5/1/2011	60	5/1/2016
2	Allemagne	Produit	Überwachung von MPA	55PE 55FR	ZERT -3/837/10	Ü	11/18/2010	12	11/18/2011
2	Allemagne	Feu	PRÜFZEUGNIS	55 FR ZINK	3035/778/09-1	B2	8/24/2009	60	8/24/2014
4	UK	Feu	BS 476 part 6 BS 476 part 7	55 FR (COA3)	157534 157533	class 0 class 1	9/14/2006	100	1/14/2015
4	UK	Feu	BS 476 part 6 BS 476 part 7	55 FR recette f	173774 173775	class 0 class 1	7/28/2003	120	7/28/2013
4	UK	Feu	BS 476 part 6 BS 476 part 7	55 PE	70707 70708	Class 1	5/9/1997	100	9/9/2005
4	UK	Méca	BBA Approval	55 PE 55 FR	BBA 08/4510		1/14/2008	100	5/14/2016
2	Italie	Feu	CERTIFICATO DI PROVA	55 PE	CSI / 0047 / 03 / RF	Classe 1	7/1/2004	60	7/1/2009
2	Italie	Feu	CERTIFICATO DI PROVA	55 FR	En cours				
2	Italie	Feu	CERTIFICATO DI PROVA	33 PE	CSI / 0154 / 04 / RF	Classe 1	5/21/2004	60	5/21/2009
1	Espagne	Méca	DIT	55 PE 55 FR	485		4/16/2007	60	4/16/2012
1	Espagne	Feu	AFITI - LICOF	55-3 PE 55-6 PE 55-4 FR	0289T04 0290T04 0291T04	M1 M1 M1	7/29/2004	60	7/29/2009
1	Portugal	Systeme	Documento de Homologação	55 PE	DH 889		2/1/2008	36	2/1/2011

2	Suisse	Feu	BRANDKENNZIFFER BESTIMMUNG	55 PE	205001-09-0151-01	4.2	4/14/2009	60	4/14/2014
2	Suisse	Feu	BRANDKENNZIFFER BESTIMMUNG	55 FR	205001-09-0151-02	5.3	4/14/2009	60	4/14/2014
2	Autriche	Feu	PRÜFZEUGNIS	55 PE	3990/00	B1 ; Tr1 ; Q1	4/25/2010	24	4/25/2012
2	Autriche	Feu	PRÜFZEUGNIS	55 FR	3991/00	B1 ; Tr1 ; Q1	4/25/2010	24	4/25/2012
2	Autriche	Feu	PRÜFZEUGNIS	55 FR	08060418	B1 ; Tr1 ; Q1	10/2/2008	24	10/2/2010
2	Danemark	Feu	Provningsrapport	55 FR	PF11888	Klasse B	10/12/2004	100	2/12/2013
3	Pologne	Feu NRO	CERTIFICATION NRO (COA3)	55 FR	NP-822/A/06/TG	NRO	6/30/2006	36	6/30/2009
3	Pologne	Feu NRO	CERTIFICATION NRO (FR f)	55 FR	NP-723,1/07/TG	NRO	7/12/2007	36	7/12/2010
3	Pologne	Feu NRO	CERTIFICATION NRO (COA8)	55 FR	NP-03147,1/09/TG	NRO	2/5/2010	36	2/5/2013
3	Roumanie	Feu		55 FR	NOT TO DO				
3	Hongrie		En attente				4/27/2006		
3	Russie	Feu Produit	Certificat anti-feu	55PE	CCI Ib,FR,OII019,B02019	G1	12/28/2007	36	12/28/2010
3	Russie	Feu Produit	Certificat anti-feu	55 FR	CCI Ib,FR,OII019,B02018	G1	12/28/2007	36	12/28/2010
3	Russie	Feu Produit	Certificat anti-feu	33PE	IN PROCESS	G1		36	12/31/1902
3	Russie	Feu Produit	Certificat anti-feu	55FR (COA4)	IN PROCESS	G1		36	12/31/1902
3	Russie	Feu Produit	Certificat anti-feu	Reynolux	IN PROCESS	G1		36	12/31/1902
3	Ukraine	Feu		55 FR	En cours		4/27/2006		
4	USA	Feu	ASTM E84	55 FR (FR f)	n° 216569	FS 1,5 10 SDI	6/2/2004	60	6/2/2009
4	USA	Feu	ASTM E84	55 FR (COA3)	n° 234350	FS 1,5 10 SDI	1/19/2007	60	1/19/2012
3	Croatie	Produit	Svjedodzba br.	55 PE	S 32999		6/19/2009	12	6/19/2010

CERTIFICATION - REYNOBOND ARCHITECTURE

Current date:26/05/2011Alarm color code (number of months):Expired412

Zone	Country	Type	Designation	Product	No.	Class	Start date	Duration (months)	Expiry date
EUROPE	EUROPE	Fire & Smoke	Euroclasses	55 PE RIVETED	RA11-0032	B-s1,d0	09/02/2011	60	09/02/2016
EUROPE	EUROPE	Fire & Smoke	Euroclasses	55 FR RIVETED and CASSETTES	RA09-0407	B-s1,d0	20/11/2009	60	20/11/2014
EUROPE	EUROPE	Fire & Smoke	Euroclasses	55 PE cassettes	RA11-?????	E	30/09/2011	60	30/09/2016
EUROPE	EUROPE	Fire & Smoke	Euroclasses	Reynolux	RA07-0182	A1	14/05/2007	60	14/05/2012
1	France	Fire	Classement Feu	33PE	J090011-CEMATE/1	M1	22/09/2008	60	22/09/2013
1	France	Fire	Classement Feu	55 PE	L110615 - DE/1	M1	15/12/2010	60	15/12/2015
2	Germany	Fire	PRÜFZEUGNIS	55 PE	3040/293/07	B2	01/12/2007	60	01/12/2012
2	Germany	Fire	PRÜFZEUGNIS	55 FR	3012/419/11	B1	01/05/2011	60	01/05/2016
2	Germany	Product	Überwachung von MPA	55PE 55FR	ZERT -3/837/10	Ü	18/11/2010	12	18/11/2011
2	Germany	Fire	PRÜFZEUGNIS	55 FR ZINK	3035/778/09-1	B2	24/08/2009	60	24/08/2014
4	UK	Fire	BS 476 part 6 BS 476 part 7	55 FR (COA3)	157534 157533	class 0 class 1	14/09/2006	100	14/01/2015
4	UK	Fire	BS 476 part 6 BS 476 part 7	55 FR formula f	173774 173775	class 0 class 1	28/07/2003	120	28/07/2013
4	UK	Fire	BS 476 part 6 BS 476 part 7	55 PE	70707 70708	Class 1	09/05/1997	100	09/09/2005
4	UK	Méca	BBA Approval	55 PE 55 FR	BBA 08/4510		14/01/2008	100	14/05/2016
2	Italy	Fire	CERTIFICATO DI PROVA	55 PE	CSI / 0047 / 03 / RF	Class 1	01/07/2004	60	01/07/2009
2	Italy	Fire	CERTIFICATO DI PROVA	55 FR	In process				
2	Italy	Fire	CERTIFICATO DI PROVA	33 PE	CSI / 0154 / 04 / RF	Class 1	21/05/2004	60	21/05/2009
1	Spain	Méca	DIT	55 PE 55 FR	485		16/04/2007	60	16/04/2012
1	Spain	Fire	AFITI - LICOF	55-3 PE 55-6 PE 55-4 FR	0289T04 0290T04 0291T04	M1 M1 M1	29/07/2004	60	29/07/2009
1	Portugal	System	Documento de Homologação	55 PE	DH 889		01/02/2008	36	01/02/2011
2	Switzerland	Fire	BRANDKENNZIFFER BESTIMMUNG	55 PE	205001-09-0151-01	4.2	14/04/2009	60	14/04/2014
2	Switzerland	Fire	BRANDKENNZIFFER BESTIMMUNG	55 FR	205001-09-0151-02	5.3	14/04/2009	60	14/04/2014
				1 / 4					

2	Austria	Fire	PRÜFZEUGNIS	55 PE	3990/00	B1; Tr1;Q1	25/04/2010	24	25/04/2012
2	Austria	Fire	PRÜFZEUGNIS	55 FR	3991/00	B1; Tr1;Q1	25/04/2010	24	25/04/2012
2	Austria	Fire	PRÜFZEUGNIS	55 FR	08060418	B1; Tr1;Q1	02/10/2008	24	02/10/2010
2	Denmark	Fire	Provningsrapport	55 FR	PF11888	Klasse B	12/10/2004	100	12/02/2013
3	Poland	Fire NRO	CERTIFICATION NRO (COA3)	55 FR	NP-822/A/06/TG	NRO	30/06/2006	36	30/06/2009
3	Poland	Fire NRO	CERTIFICATION NRO (FR f)	55 FR	NP-723,1/07/TG	NRO	12/07/2007	36	12/07/2010
3	Poland	Fire NRO	CERTIFICATION NRO (COA8)	55 FR	NP-03147,1/09/TG	NRO	05/02/2010	36	05/02/2013
3	Romania	Fire		55 FR	NOT TO DO				
3	Hungary		On hold				27/04/2006		
3	Russia	Fire Product	Fire clearance certificate	55PE	CCIIb,FR,OII019,B02019	G1	28/12/2007	36	28/12/2010
3	Russia	Fire Product	Fire clearance certificate	55 FR	CCIIb,FR,OII019,B02018	G1	28/12/2007	36	28/12/2010
3	Russia	Fire Product	Fire clearance certificate	33PE	IN PROCESS	G1		36	31/12/1902
3	Russia	Fire Product	Fire clearance certificate	55FR (COA4)	IN PROCESS	G1		36	31/12/1902
3	Russia	Fire Product	Fire clearance certificate	Reynolux	IN PROCESS	G1		36	31/12/1902
3	Ukraine	Fire		55 FR	In process		27/04/2006		
4	USA	Fire	ASTM E84	55 FR (FR f)	No. 216569	FS 1,5 10 SDI	02/06/2004	60	02/06/2009
4	USA	Fire	ASTM E84	55 FR (COA3)	No. 234350	FS 1,5 10 SDI	19/01/2007	60	19/01/2012
3	Croatia	Product	Svjedodzba br.	55 PE	S 32999		19/06/2009	12	19/06/2010

To: Wehrle, Claude[Claude.Wehrle@alcoa.com]
Cc: Marichez, Herve[Herve.Marichez@alcoa.com]
From: 01 PASCAL MONTAGNE
Sent: Mon 1/21/2013 1:00:06 PM (UTC)
Subject: PV Feu reynobond Architecture
[REYNOBOND55 Précision PVfeu.doc](#)

Claude, ci-joint courrier, on en parle

Pascal MONTAGNE.

SUNCLEAR France
280 Avenue de la Marne
59708 Marcq-en-Baroeul Cedex

Tél: [REDACTED]
Fax: [REDACTED]
Mail: pmontagne@sunclear.fr
Site: www.sunclear.fr

De : 00 ALAIN BRUYNEEL
Envoyé : lundi 21 janvier 2013 12:01
À : 01 PASCAL MONTAGNE
Objet :

Alain BRUYNEEL
Responsable de Marchés
Responsable Marketing

SUNCLEAR
L A N C E

Tel : [REDACTED]
Fax : [REDACTED]

@ : abruyneel@sunclear.fr
Web : www.sunclear.fr



www.sunclear.fr
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From: "01 PASCAL MONTAGNE" <pmontagne@sunclear.fr>

To: "Wehrle, Claude" <Claude.Wehrle@alcoa.com>

Date: 21/01/2013 14:00:06

Subject: PV Fire reynobond Architecture

Attachments: [REYNOBOND55_Précision_PVfeu.doc](#)

Claude, please find herewith a letter; let's talk about it

Pascal MONTAGNE.

SUNCLEAR France
280 Avenue de la Marne
59708 Marcq-en-Baroeul Cedex

Tél: [REDACTED]
Fax: [REDACTED]
Mail: pmontagne@sunclear.fr
Site: www.sunclear.fr

From: 00 ALAIN BRUYNEEL
Sent: lundi 21 janvier 2013 12:01
To: 01 PASCAL MONTAGNE
Subject:

Alain BRUYNEEL
Responsable de Marchés
Responsable Marketing

Tel : [REDACTED]
Fax : [REDACTED]

@ : abruyneel@sunclear.fr
Web : www.sunclear.fr

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TOUT EN 1 !

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1. Nom	
2. Date de naissance	
3. Adresse	
4. Date de nomination	
5. Date de démission	
6. Date de décès	
7. Date de fin de service	

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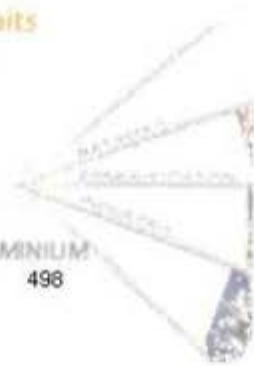
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-  PHOTON ALUMINUM
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 ÉTANCHÉITÉ - COLLES - ENTRETIEN

REYNOBOND 55 : Note sur le PV feu

Comme vous le savez, nous avons un classement M1 selon la norme NF P 92.507 pour le Reynobond PE. Cette norme ne concerne que le produit, sans tenir compte du système utilisé pour sa mise en œuvre. *Ce classement M1 est toujours valable au jour d'aujourd'hui.*

D'autre part, nous avons une nouvelle norme de classement en réaction au feu (EN 13501), qui elle tient compte du système utilisé pour la mise en œuvre du Reynobond.

Les Classements sont les suivants :

Produit	Système	Classement selon EN 13501	Equivalence NF
Reynobond PE	Cassette	E	M4
Panneaux Reynobond PE Commercialisés et stockés par SUNCLEAR	Riveté / vissé = SYSTALU ,Oméga 2C ou 4C, commercialisés et stockés par SUNCLEAR	B-s1,d0	M1
Reynobond FR	Cassette	B-s1,d0	M1
Reynobond FR	Riveté / vissé	B-s1,d0	M1

En conclusion, je vous demande d'accorder la plus grande attention aux éléments donnés dans le CCTP.

En effet, ci celui-ci mentionne un classement selon B-s1,d0 selon EN13501, nous ne pourrons pas mettre en œuvre du PE en cassettes sur une façade.

Ci celui-ci mentionne un classement M1 selon NF P 92.507, le PE en cassettes est autorisé.

Ces infos sont confirmées par le CSTB.

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France

REYNOBOND 55: Note on the fire report

As you know, we have an M1 rating under the NF P 92.507 standard for Reynobond PE. This standard only concerns the product, without taking into account the system that is used for its implementation.

This M1 rating is still valid today.

On the other hand, we have a new rating standard in reaction to fire (EN 13501), which takes into account the system that is used for the implementation of Reynobond.

The ratings are the following:

Product	System	Rating under EN 13501	NF equivalent
Reynobond PE	Cassette	E	M4
Reynobond PE panels Marketed by and in storage with SUNCLEAR	Riveted / screwed = SYSTALU, Oméga 2C or 4C, marketed by and in storage with SUNCLEAR	B-s1,d0	M1
Reynobond FR	Cassette	B-s1,d0	M1
Reynobond FR	Riveted / screwed	B-s1,d0	M1

In short, I ask you to pay the greatest attention to the elements provided in the CCTP.

Indeed, if it mentions a rating according to B-s1,d0 under EN 13501, we will not be able to use PE in cassettes on a façade.

If it mentions a M1 rating according to NF P 92.507, PE in cassettes is permitted.

This information has been confirmed by the CSTB.

Alcoa Architectural Products
1 rue du Ballon, 68500 Merxheim, France

To: Baillon, Jean-Philippe[Jean-Philippe.Baillon@alcoa.com]
Cc: Wehrle, Claude[Claude.Wehrle@alcoa.com]; Froehlich, Peter[Peter.Froehlich@alcoa.com]; Brunet, Mareva[Mareva.Brunet@alcoa.com]
From: Marichez, Herve
Sent: Thur 4/4/2013 8:21:28 PM (UTC)
Subject: Fire regulations..
[51 - CLASSEMENT FEU d'ACODI.pdf](#)

Hi JP and everybody,

After talking with Claude, we agreed that we (you, Patrice, Mareva, me) must not write anything related to fire regulations which has not been validated or issued by Alcoa technical dept.

Why that ? after showing Acodi and Sunclear documents that they send to specifiers and customers (see attached), Claude advised me not to do the same since these docs involve too much our responsibility on a "touchy" subject.

So I pass this info to all French sales dream team ☺ so to avoid potential mistakes !

Take care,
Hervé

Classement au feu par système et produit

PRODUITS DE CONSTRUCTION AUTRES QUE SOL

EUROCLASSES (NF EN 13 501-1)			EXIGENCE
A1	-	-	Incombustible
A2	s1	d0	M0
A2	s1	d1	M1
A2	s2	d0	
	s2	d1	
	s3	d1	
B	s1	d0	
	s2	d0	
	s2	d1	
	s3	d1	
C	s1	d0	M2
	s2	d1	
	s3	d1	
D	s1	d0	M3
	s2	d1	M4
	s3	d1	(non gouttant)
E			M4

Alucobond A2

Larcore

Reynobond FR / Alucobond Plus / Larson FR

Riveté : Reynobond PE / Alucobond PE / Larson PE

Cassette : Reynobond PE / Alucobond PE / Larson PE

Fire classification by system and product

BUILDING PRODUCTS OTHER THAN FLOORING

EUROCLASSES (NF EN 13 501-1)			REQUIREMENT
A1	-	-	Non-combustible
A2	s1	d0	M0
A2	s1	d1	M1
A2	s2	d0	
	s2	d1	
	s3	d1	
B	s1	d0	M1
	s2	d0	
	s2	d1	
	s3	d1	
C	s1	d0	M2
	s2	d1	
	s3	d1	
D	s1	d0	M3
	s2	d1	M4
	s3	d1	(non-dripping)
E			M4

Alucobond A2

Larcure

Reynobond FR / Alucobond Plus / Larson FR

Riveted: Reynobond PE / Alucobond PE / Larson PE

Cassette: Reynobond PE / Alucobond PE / Larson PE

To: Brunet, Mareva[Mareva.Brunet@alcoa.com]
Cc: Wehrle, Claude[Claude.Wehrle@alcoa.com]; Baillon, Jean-Philippe[Jean-Philippe.Baillon@alcoa.com]; Audureau, Patrice[Patrice.Audureau@alcoa.com]; Marichez, Herve[Herve.Marichez@alcoa.com]
From: Remy, Nicolas
Sent: Thur 6/20/2013 7:03:37 AM (UTC)
Subject: RE: demande avis technique Reynobond Architecture CASSETTE

Bonjour Maréva,

Pas de souci, je lui transmets, sachez par contre que cet Avis Technique est disponible directement sur le site du CSTB. Merci donc de faire savoir à vos clients pour les prochaines demandes de ce genre qu'ils peuvent télécharger nos AT sur le site du CSTB, rubrique « ATEC et DTA ». Cela fera gagner du temps à tout le monde ☺

<http://www.cstb.fr/evaluations/atec-et-dta/rechercher-un-avis-technique-ou-un-dta.html>

Bonne journée,

Nicolas

From: Brunet, Mareva
Sent: jeudi 20 juin 2013 08:42
To: Remy, Nicolas
Subject: TR: demande avis technique Reynobond Architecture CASSETTE

Hello

Tu peux lui faire suivre le bon doc stp ?
Merci

Mareva

De : 04 Vanessa SUCAUD [<mailto:vsucaud@sunclear.fr>]
Envoyé : mercredi 19 juin 2013 14:20
À : Brunet, Mareva
Objet : EXT: demande avis technique Reynobond Architecture CASSETTE

Bonjour Maréva,

Merci de bien vouloir me transmettre le dernier avis technique Reynobond Cassette.

Cordialement.

Vanessa SUCAUD
Commerciale sédentaire

SUNCLEAR
L F R A N C E

ZAC du Bel Air
21 avenue Joseph Paxton
77 164 Ferrières en Brie

Tél.: 
Fax: 

Email : vsucaud@sunclear.fr
Internet : <http://www.sunclear.fr>

Découvrez les nouvelles fonctionnalités de notre site www.sunclear.fr : Consultation de votre tarification et des stocks. Passation et suivi de vos commandes, téléchargement de toute la documentation technique.

From: "Remy, Nicolas"

To: "Brunet, Mareva" <Mareva.Brunet@alcoa.com>

Date: 20/06/2013 09:03:37

Subject: RE: demande avis technique Reynobond Architecture CASSETTE

Hello Maréva,

No problem, I will forward it to him, but please be aware that this Technical Opinion is available directly on the CSTB website. Please let your customers know, with regard to future requests of this kind, that they can download our ATs from the CSTB website, under the heading "ATEC and DTA". This will save time for everyone. ☺

<http://www.cstb.fr/evaluations/atec-et-dta/rechercher-un-avis-technique-ou-un-dta.html>

Have a good day,

Nicolas

From: Brunet, Mareva

Sent: jeudi 20 juin 2013 08:42

To: Remy, Nicolas

Subject: TR: demande avis technique Reynobond Architecture CASSETTE

Hello

Can you forward him the right doc, please?

Thank you

Mareva

From: 04 Vanessa SUCAUD [<mailto:vsucaud@sunclear.fr>]

Sent: Wednesday, 19 June 2013 14:20

To: Brunet, Mareva

Subject: EXT: request for technical opinion Reynobond Architecture CASSETTE

Hello Maréva,

Please send me the latest technical opinion for Reynobond Cassette.

Sincerely,

Vanessa SUCAUD

Commerciale sédentaire

ZAC du Bel Air
21 avenue Joseph Paxton
77 164 Ferrières en Brie

Tél.: 

Fax: 

Email : vsucaud@sunclear.fr

Internet : <http://www.sunclear.fr>

Découvrez les nouvelles fonctionnalités de notre site www.sunclear.fr : Consultation de votre tarification et des stocks. Passation et suivi de vos commandes, téléchargement de toute la documentation technique.



To: Grandin, Virginie[Virginie.Grandin@alcoa.com]
From: Wehrle, Claude
Sent: Mon 7/22/2013 3:21:59 PM (UTC)
Subject: RE: Docs technique

Virginie,

Le document se trouve sous :

<http://www.cstb.fr/evaluations/atec-et-dta/rechercher-un-avis-technique-ou-un-dta.html>

Il contient tout ce qui est nécessaire concernant le Reynobond.

L'avantage de spécifier le lien, est que le client a toujours les infos à jour et officielles.

Bonne soirée

Claude

De : Grandin, Virginie
Envoyé : lundi 22 juillet 2013 16:36
À : Wehrle, Claude
Objet : Docs technique

Salut,

Un client me demande l'**avis technique et le certificat feu** pour du panneaux « composite » ep : 4mm (0.5-0.5 aluminium) (RB554) en français.

Merci d'avance,

Virginie

From: ["Wehrle, Claude"](#)

To: ["Grandin, Virginie" <Virginie.Grandin@alcoa.com>](#)

Date: 22/07/2013 17:21:59

Subject: RE: Docs technique

Virginie,

The document can be found under:

<http://www.cstb.fr/evaluations/atec-et-dta/rechercher-un-avis-technique-ou-un-dta.html>

It contains everything that is needed concerning Reynobond.

The good thing about mentioning the link is that the customer always has up-to-date and official information.

Have a good evening

Claude

From: Grandin, Virginia

Sent: Monday, 22 July 2013 16:36

To: Wehrle, Claude

Subject: Technical documents

Hi,

A customer is asking me for the technical opinion and fire certificate for "composite" ep panels: 4mm (0.5-0.5 aluminum) (RB554) in French.

Thank you in advance,

Virginie

To: Leicht, Virginie[Virginie.Leicht@alcoa.com]
From: Wehrle, Claude
Sent: Fri 1/31/2014 12:29:05 PM (UTC)
Subject: highlights...

- Information aux marchés du classement “E” pour le Reynobond PE
- Reynodual : intérêt particulier pour les applications perforés
-

Claude WEHRLE | Responsable Technique- Technical Manager | P: [redacted] **- M:** [redacted] **Fax:** [redacted]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | <http://www.reynobond.eu/>



From: ["Wehrle, Claude"](#)

To: ["Leicht, Virginie" <Virginie.Leicht@alcoa.com>](#)

Date: 31/01/2014 13:29:05

Subject: highlights...

-Market information on the "E" classification for Reynobond PE

- Reynodual: special interest in perforated applications

Claude WEHRLE | Responsable Technique- Technical Manager | P: [REDACTED] - M: [REDACTED]

[REDACTED] – Fax: [REDACTED]

Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | <http://www.reynobond.eu/>

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BATIMAT.
4. - 8. November 2013, Paris
529 5A, alley M, booth 56



To: RAF Liste Commercial Externe DL[DL-RAFListeCommercialReynolux@alcoa.com]; RAF Liste Commercial interne DL[DL-RAFListeCommercialReynobond@alcoa.com]
From: Wehrle, Claude
Sent: Mon 2/3/2014 9:23:06 AM (UTC)
Subject: New fire European fire class for Reynobond PE
[RC130333_anglais_\(110032\)_\(050005A\).pdf](#)
[RC130333_\(110032\)_\(050005A\).pdf](#)

Dear colleagues,

**Please find enclosed the new fire reaction test report for Reynobond Architecture PE in accordance with EN 13 501 Norm.
The fire achieved classification is "E"**

The previous "B" class report done for Reynobond PE in riveted system can no more be used from now.
Indeed, this new report cancel all the previous reports.

I stay at your disposal if you have any further question.

Kind regards,

Claude,

*Claude WEHRLE | Responsable Technique- Technical Manager | P: [REDACTED] - M: [REDACTED] - Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | <http://www.reynobond.eu/>*



REACTION TO FIRE CLASSIFICATION REPORT

No. RA13-0333

ACCORDING TO THE EUROPEAN STANDARD

NF EN 13501-1+A1:2013

Provided the Ordinance from the Ministry of the Interior, November 21, 2002.
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, amended)
Seule la version française fait foi.
Only the French version is legally acceptable.

ETA Guide no. 034:2012 "Kits for external wall claddings"

Owner: ALCOA ARCHITECTURAL PRODUCTS S.A.S.
1 rue du Ballon
68500 MERXHEIM
FRANCE

Commercial brand(s): REYNOBOND[®] 55 PE

Brief description: Composite panel with polyethylene core covered on both sides
with aluminium sheets
(see detailed description in paragraph 2)

Date of issue: January 31st, 2014

The indicated classification does not prejudice the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 to L 115-33 and R 115-1 to R 115-3 articles of the consumption's code. If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute. The reproduction of this classification report is only authorised in its integral form. It comprises 4 pages.

The document RA13-0333 dated January 31st, 2014 cancels and replaces the document RA11-0032 dated February 09th, 2011 and the document RA05-0005A dated January 07th, 2005.

1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1+A1:2013 standard.

2. Product description

Composite panel consisting of a low density polyethylene core covered on both sides with a thermally bonded precoated aluminium sheet.

Systems: riveted or cassette.

Finish: Duragloss[®] 5000 35 µm.

Overall nominal thickness: 4 mm.

Nominal thickness of the aluminium sheets: 0.5 mm.

Overall nominal weight per unit area: 5.5 kg/m².

Colour: white.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report No.	Test method
CSTB	ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541130463	RA13-0333	EN ISO 11925-2:2002

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 15s surface exposure	REYNOBOND [®] 55 PE	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 15s edge exposure	REYNOBOND [®] 55 PE	6	Fs > 150 mm Filter paper	Not reached Not ignited

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clauses 11.3 and 11.10.2 of the NF EN 13501-1+A1:2013 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
E	-	Not applicable	.	Not applicable

Classification: E

4.3 Field of application

This classification is valid for the following product parameters:

- The systems described in paragraph 2.
- An overall nominal thickness of 4 mm.
- An overall nominal weight per unit area of 5.5 kg/m².
- A 35 µm thick Duragloss[®] 5000 finish.
- A white colour.

This classification is valid for the following end use conditions:

- Riveted or screwed system and cassette system on metal substructure.
- With a minimum air gap of 20 mm.
- Without insulating material or with any A1 or A2-s1,d0 class mineral wool insulating material.
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density ≥ 652 kg/m³.

5. Limitation

The present document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the European Construction Products Regulation (regulation UE no. 305/2011). The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the European Construction Products Regulation (regulation UE no. 305/2011). The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Champs-sur-Marne, January 31st, 2014

The Technician
Responsible for the test



Benoit FOREST

The Head of Reaction to Fire
Unit



Gildas CREACH

.....END OF THE CLASSIFICATION REPORT

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**RAPPORT DE CLASSEMENT EUROPEEN
N° RA13-0333
DE REACTION AU FEU SELON
LA NORME EUROPEENNE
NF EN 13501-1+A1:2013**

Et l'arrêté du 21 novembre 2002 modifié relatif à la réaction au feu
des produits de construction et d'aménagement
Laboratoire pilote agréé par le ministère de l'intérieur (Arrêté du 5 février 1959 modifié)

Guide d'ATE n° 034 :2012 « Kits de bardages rapportés pour murs extérieurs »

A la demande de : **ALCOA ARCHITECTURAL PRODUCTS S.A.S.**
1 rue du Ballon
68500 MERXHEIM
FRANCE

Marque(s) commerciale(s) : **REYNOBOND® 55 PE**

Description sommaire : **Panneau composite à âme polyéthylène revêtu de tôles d'aluminium sur les deux faces**
(description détaillée au paragraphe 2)

Date du rapport : **31 janvier 2014**

Ce rapport de classement atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue donc pas une certification de produits au sens des articles L 115-27 à L 115-33 et R 115-1 à R 115-3 du code de la consommation.

En cas d'émission du présent rapport par voie électronique et/ou sur support physique électronique, seul le rapport sous forme de support papier signé par le CSTB fait foi en cas de litige.

La reproduction de ce rapport de classement n'est autorisée que sous sa forme intégrale.

Il comporte 4 pages.

Le document RA13-0333 du 31 janvier 2014 annule et remplace le document RA11-0032 du 09 février 2011 et le document RA05-0005A du 07 janvier 2005.

1. Introduction

Ce rapport de classement définit le classement attribué au(x) produit(s) précité(s) conformément aux procédures données dans la norme NF EN 13501-1+A1:2013.

2. Description du produit

Panneau composite constitué d'une âme en polyéthylène basse densité revêtue sur les deux faces d'une tôle d'aluminium prélaquée thermocollée.

Systèmes : riveté ou cassette.

Finition : Duragloss® 5000 35 µm.

Epaisseur nominale totale : 4 mm.

Epaisseur nominale des tôles en aluminium : 0,5 mm.

Masse surfacique nominale totale : 5,5 kg/m².

Coloris : blanc.

3. Rapports d'essais et résultats d'essais en appui du classement

3.1 Rapports d'essais

Nom du laboratoire	Nom du demandeur	Identification de l'essai	N° du rapport d'essai	Méthode d'essai
CSTB	ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541130463	RA13-0333	EN ISO 11925-2:2002

3.2 Résultats d'essais

Méthode d'essai	Produit	Nombre d'épreuves	Paramètres	Résultats
				Paramètres conformité
EN ISO 11925-2 Attaque de surface 15s d'exposition	REYNOBOND® 55 PE	6	Fs > 150 mm Papier filtre	Non atteint Non enflammé
EN ISO 11925-2 Attaque de bord 15s d'exposition	REYNOBOND® 55 PE	6	Fs > 150 mm Papier filtre	Non atteint Non enflammé

4. Classement et domaine d'application

4.1 Référence du classement

Le classement est prononcé suivant les articles 11.3 et 11.10.2 de la norme NF EN 13501-1+A1:2013.

4.2 Classement

Comportement au feu		Production de fumées		Gouttes ou particules enflammées
E	-	Non applicable	,	Non applicable

Classement : E

4.3 Domaine d'application

Le classement est valable pour les paramètres produits suivants :

- Les systèmes décrits au paragraphe 2.
- Une épaisseur nominale totale de 4 mm.
- Une masse surfacique nominale totale de 5,5 kg/m².
- Une finition Duragloss® 5000 d'épaisseur 35 µm.
- Un coloris blanc.

Le classement est valable pour les conditions d'utilisation finale suivantes :

- Système riveté ou vissé et système cassette sur ossature métallique.
- Avec une lame d'air d'au moins 20 mm.
- Sans isolant ou avec tout isolant en laine minérale classé A1 ou A2-s1,d0.
- Sans substrat ou avec tout substrat classé A1 ou A2-s1,d0 de masse volumique ≥ 652 kg/m³.

5. Limitations

Le présent document de classement n'est pas une approbation ni une certification de type du produit.

Le classement attribué au produit dans le présent rapport est approprié pour une déclaration de performance du fabricant dans le cadre d'une attestation de conformité du système 3 et pour le marquage CE dans le cadre du Règlement européen sur les Produits de Construction (règlement UE n° 305/2011).

Le laboratoire d'essai n'a, par conséquent, joué aucun rôle dans l'échantillonnage du produit pour l'essai, bien qu'il conserve les références appropriées, fournies par le fabricant pour assurer la traçabilité des échantillons soumis à essai.

Champs-sur-Marne, le 31 janvier 2014

**Le Technicien
Responsable de l'essai**



Benoit FOREST

**Le Chef du Pôle
Réaction au Feu**



Gildas CREACH

..... FIN DU RAPPORT DE CLASSEMENT

To: Joakim Newman[Joakim.Newman@vink.se]
Cc: Wehrle, Claude[Claude.Wehrle@alcoa.com]
From: Kasyanik, Julie
Sent: Mon 2/3/2014 12:21:56 PM (UTC)
Subject: New fire certificate for RB PE
[Reynobond FR new - Bs1d0 English - RC090407.pdf](#)
[RC130333 anglais \(110032\) \(050005A\).pdf](#)

Hi Joakim,

Please find attached a new certificate for Reynobond PE according to EN 13501-1. Starting from now on, Reynobond PE is classified E both in cassette and in flat applications (just to remind you, up till now it was B-s1, d0 for screwed or riveted RB PE and E for cassettes).

Reynobond FR remains B-s1, d0, certificate dated Nov. 20th, 2009.

Best regards,

Julie Kasyanik
Area Sales Manager

Alcoa Architectural Products - 1 rue du Ballon - 68500 Merxheim - France
Tel: [REDACTED] / Mob: [REDACTED] / Fax: [REDACTED] / E-mail: julie.kasyanik@alcoa.com

REACTION TO FIRE CLASSIFICATION REPORT

No. RA09-0407

ACCORDING TO THE EUROPEAN STANDARD

NF EN 13501-1

Provided the Ordinance from the Ministry of the Interior, November 21, 2002.
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, amended)
Seule la version française fait foi.
Only the French version is legally acceptable.

Valid 5 years as from November 20th, 2009

Owner: ALCOA ARCHITECTURAL PRODUCTS S.A.S.
1 rue du Ballon
68500 MERXHEIM
FRANCE

Commercial brand(s): REYNOBOND[®] FR

Brief description: Composite panel with polyethylen e core surfaced on both
sides with aluminium sheets
(see detailed description in paragraph 2)

Date of issue: November 20th, 2009

The indicated classification does not prejudice the
and under no circumstances, this document should no
sense of the L 115-27 article of the consumption's
If this report is being issued by e-mail and/or on
prevail in the event of a dispute.
The reproduction of this classification report is o
It comprises 5 pages.

conformity of marketed materials with the samples s
t be considered as type approval or certification o
code and of the law dated June 3rd, 1994.
an electronic medium, only the hard copy of the rep
nly authorised in its integral form.

ubmitted to the tests
f the product in the
ort signed by CSTB shall

1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1 standard.

2. Product description

Composite panel consisting of two precoated aluminium sheets thermally bonded on both sides with a fire-retarded polyethylene core.

Tested systems: riveted on metal substructure and cassette on metal substructure.

Tested finishing coats: Duragloss[®] 5000 35 6m, PVDF 70/30 35 6m.

Overall nominal thickness: 4 mm.

Nominal thickness of the aluminium sheets: 0.5 mm.

Overall nominal weight per unit area: 7.56 kg/m².

Colours: various.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report Nos.	Test method
CSTB	ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541090587	RA09-0407	EN ISO 11925-2 EN 13823

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 30s surface exposure	REYNOBOND® FR Duragloss® 5000 finish (precoated sheet)	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s surface exposure	REYNOBOND® FR PVDF 70/30 finish (precoated sheet)	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	REYNOBOND® FR Duragloss® 5000 finish (polyethylene core)	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	REYNOBOND® FR PVDF 70/30 finish (polyethylene core)	6	Fs > 150 mm Filter paper	Not reached Not ignited

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	REYNOBOND® FR Riveted system Duragloss® 5000 finish 35 6m thick	3	FIGRA _{0.2MJ} (W/s)	15.0	-
			FIGRA _{0.4MJ} (W/s)	15.0	-
			LFS	-	Not reached
			THR _{600s} (MJ)	1.1	-
EN 13823	REYNOBOND® FR Cassette system PVDF 70/30 finish 35 6m thick	3	SMOGRA(m²/s²)	2.0	-
			TSP _{600s} (m²)	26.5	-
			Flaming droplets or debris	-	None
EN 13823	REYNOBOND® FR Cassette system PVDF 70/30 finish 35 6m thick	3	FIGRA _{0.2MJ} (W/s)	29.7	-
			FIGRA _{0.4MJ} (W/s)	29.7	-
			LFS	-	Not reached
			THR _{600s} (MJ)	1.3	-
EN 13823	REYNOBOND® FR Cassette system PVDF 70/30 finish 35 6m thick	3	SMOGRA(m²/s²)	4.7	-
			TSP _{600s} (m²)	31.4	-
			Flaming droplets or debris	-	None

(-) means: not applicable

3.3 Additional tests

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters: mean value	Compliance parameters
EN 13823	REYNOBOND® FR Riveted system PVDF 70/30 finish 35 6m thick	1	FIGRA _{0.2MJ} (W/s)	8.0	-
			FIGRA _{0.4MJ} (W/s)	8.0	-
			LFS	-	Not reached
EN 13823	REYNOBOND® FR Cassette system Duragloss® 5000 finish 35 6m thick	1	THR _{600s} (MJ)	0.4	-
			SMOGRA(m²/s²)	1.5	-
			TSP _{600s} (m²)	21.4	-
EN 13823	REYNOBOND® FR Cassette system Duragloss® 5000 finish 35 6m thick	1	Flaming droplets or debris	-	None
			FIGRA _{0.2MJ} (W/s)	21.6	-
			FIGRA _{0.4MJ} (W/s)	21.6	-
EN 13823	REYNOBOND® FR Cassette system Duragloss® 5000 finish 35 6m thick	1	LFS	-	Not reached
			THR _{600s} (MJ)	0.8	-
			SMOGRA(m²/s²)	7.1	-
EN 13823	REYNOBOND® FR Cassette system Duragloss® 5000 finish 35 6m thick	1	TSP _{600s} (m²)	33.3	-
			Flaming droplets or debris	-	None

(-) means: not applicable

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clauses 11.6, 11.9.2 and 11.10.1 of the NF EN 13501-1 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
B	-	s1	,	d0

Classification: **B - s1, d0**

4.3 Field of application

This classification is valid for the following product parameters :

- The system described in paragraph 2.
- An overall nominal thickness of 4 mm.
- An overall nominal weight per unit area of 7.5 kg/m².
- Duragloss[®] 5000 35 6m thick and PVDF 70/30 35 6m thick finish.
- Various colours.

This classification is valid for the following end use conditions :

- Riveted or screwed systems and cassette system on metal substructure.
- With a minimum air gap of 20 mm.
- With or without A1 or A2-s1, d0 class mineral insulation.
- With or without A1 or A2-s1, d0 class substrate with a density ≥ 820 kg/m³.

Champs-sur-Marne, November 20th, 2009

The Technician
Responsible for the test



Maxime BAUER

The Head of Reaction to Fire
laboratory



Gildas CREACH

.....END OF THE CLASSIFICATION REPORT

REACTION TO FIRE CLASSIFICATION REPORT

No. RA13-0333

ACCORDING TO THE EUROPEAN STANDARD

NF EN 13501-1+A1:2013

Provided the Ordinance from the Ministry of the Interior, November 21, 2002.
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, amended)
Seule la version française fait foi.
Only the French version is legally acceptable.

ETA Guide no. 034:2012 "Kits for external wall claddings"

Owner: ALCOA ARCHITECTURAL PRODUCTS S.A.S.
1 rue du Ballon
68500 MERXHEIM
FRANCE

Commercial brand(s): REYNOBOND[®] 55 PE

Brief description: Composite panel with polyethylene core covered on both sides
with aluminium sheets
(see detailed description in paragraph 2)

Date of issue: January 31st, 2014

The indicated classification does not prejudice the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 to L 115-33 and R 115-1 to R 115-3 articles of the consumption's code. If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute. The reproduction of this classification report is only authorised in its integral form. It comprises 4 pages.

The document RA13-0333 dated January 31st, 2014 cancels and replaces the document RA11-0032 dated February 09th, 2011 and the document RA05-0005A dated January 07th, 2005.

1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1+A1:2013 standard.

2. Product description

Composite panel consisting of a low density polyethylene core covered on both sides with a thermally bonded precoated aluminium sheet.

Systems: riveted or cassette.

Finish: Duragloss[®] 5000 35 µm.

Overall nominal thickness: 4 mm.

Nominal thickness of the aluminium sheets: 0.5 mm.

Overall nominal weight per unit area: 5.5 kg/m².

Colour: white.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report No.	Test method
CSTB	ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541130463	RA13-0333	EN ISO 11925-2:2002

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 15s surface exposure	REYNOBOND [®] 55 PE	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 15s edge exposure	REYNOBOND [®] 55 PE	6	Fs > 150 mm Filter paper	Not reached Not ignited

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clauses 11.3 and 11.10.2 of the NF EN 13501-1+A1:2013 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
E	-	Not applicable	-	Not applicable

Classification: E

4.3 Field of application

This classification is valid for the following product parameters:

- The systems described in paragraph 2.
- An overall nominal thickness of 4 mm.
- An overall nominal weight per unit area of 5.5 kg/m².
- A 35 µm thick Duragloss[®] 5000 finish.
- A white colour.

This classification is valid for the following end use conditions:

- Riveted or screwed system and cassette system on metal substructure.
- With a minimum air gap of 20 mm.
- Without insulating material or with any A1 or A2-s1,d0 class mineral wool insulating material.
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density ≥ 652 kg/m³.

5. Limitation

The present document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the European Construction Products Regulation (regulation UE no. 305/2011). The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the European Construction Products Regulation (regulation UE no. 305/2011). The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Champs-sur-Marne, January 31st, 2014

The Technician
Responsible for the test



Benoit FOREST

The Head of Reaction to Fire
Unit



Gildas CREACH

.....END OF THE CLASSIFICATION REPORT

To: Daniel Siew [REDACTED]
Cc: Wahler, Serge[Serge.Wahler@alcoa.com]
From: Wehrle, Claude
Sent: Fri 3/7/2014 8:02:30 AM (UTC)
Subject: RE: Reynobond core material classification
[Reynobond PE - EN13501 class E - RC130333 anglais.pdf](#)
[RA12-0348 Reynobond FR all systems.pdf](#)

Hi Daniel,

I'm not sure I came back to you concerning your question for fire class in accordance with the Europe Norm EN 13501.

Our Reynobond PE is EN 13501 class "E"

Our Reynobond FR is EN 13501 class "B-s1,d0"

Those test are done on the full panels (Aluminum skin + core), and also with the installation system.

I send you enclosed the full classification reports.

Regards,

Claude

De : Daniel Siew (Gmail) [REDACTED]
Envoyé : mercredi 8 janvier 2014 03:43
À : Wehrle, Claude
Objet : EXT: Reynobond core material classification

Dear Claude,

Bonjour!

I visited you in Oct 2011 and how are you getting on?

I was going through Reynobond brochure and noticed the following:

For plastic core construction, the material class is EN13501-1, B s2 d0.

For mineral construction (FR), the material class is EN 13501-1, B s1 d0.

My question is :

For the above classification, was the material tested just with the Core material alone or was it tested as an Aluminium Composite Panel?

Looking forward to have your reply soon.

Thank you very much.

Regards,
Daniel Siew

REACTION TO FIRE CLASSIFICATION REPORT

No. RA13-0333

ACCORDING TO THE EUROPEAN STANDARD

NF EN 13501-1+A1:2013

Provided the Ordinance from the Ministry of the Interior, November 21, 2002.
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, amended)
Seule la version française fait foi.
Only the French version is legally acceptable.

ETA Guide no. 034:2012 "Kits for external wall claddings"

Owner: ALCOA ARCHITECTURAL PRODUCTS S.A.S.
1 rue du Ballon
68500 MERXHEIM
FRANCE

Commercial brand(s): REYNOBOND® 55 PE

Brief description: Composite panel with polyethylene core covered on both sides
with aluminium sheets
(see detailed description in paragraph 2)

Date of issue: January 31st, 2014

The indicated classification does not prejudice the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 to L 115-33 and R 115-1 to R 115-3 articles of the consumption's code. If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute. The reproduction of this classification report is only authorised in its integral form. It comprises 4 pages.

The document RA13-0333 dated January 31st, 2014 cancels and replaces the document RA11-0032 dated February 09th, 2011 and the document RA05-0005A dated January 07th, 2005.

1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1+A1:2013 standard.

2. Product description

Composite panel consisting of a low density polyethylene core covered on both sides with a thermally bonded precoated aluminium sheet.

Systems: riveted or cassette.

Finish: Duragloss[®] 5000 35 µm.

Overall nominal thickness: 4 mm.

Nominal thickness of the aluminium sheets: 0.5 mm.

Overall nominal weight per unit area: 5.5 kg/m².

Colour: white.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report No.	Test method
CSTB	ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541130463	RA13-0333	EN ISO 11925-2:2002

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 15s surface exposure	REYNOBOND [®] 55 PE	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 15s edge exposure	REYNOBOND [®] 55 PE	6	Fs > 150 mm Filter paper	Not reached Not ignited

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clauses 11.3 and 11.10.2 of the NF EN 13501-1+A1:2013 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
E	-	Not applicable	-	Not applicable

Classification: E

4.3 Field of application

This classification is valid for the following product parameters:

- The systems described in paragraph 2.
- An overall nominal thickness of 4 mm.
- An overall nominal weight per unit area of 5.5 kg/m².
- A 35 µm thick Duragloss[®] 5000 finish.
- A white colour.

This classification is valid for the following end use conditions:

- Riveted or screwed system and cassette system on metal substructure.
- With a minimum air gap of 20 mm.
- Without insulating material or with any A1 or A2-s1,d0 class mineral wool insulating material.
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density ≥ 652 kg/m³.

5. Limitation

The present document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the European Construction Products Regulation (regulation UE no. 305/2011). The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the European Construction Products Regulation (regulation UE no. 305/2011). The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Champs-sur-Marne, January 31st, 2014

The Technician
Responsible for the test



Benoit FOREST

The Head of Reaction to Fire
Unit



Gildas CREACH

.....END OF THE CLASSIFICATION REPORT

REACTION TO FIRE CLASSIFICATION REPORT **No. RA12-0348** **ACCORDING TO THE EUROPEAN STANDARD** **NF EN 13501-1**

Provided the Ordinance from the Ministry of the interior, November 21, 2002.
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, amended)
Seule la version française fait foi.
Only the French version is legally acceptable.

Product standard
ETA guide no. 034: "Kits for external wall claddings"

Owner: **ALCOA ARCHITECTURAL PRODUCTS S.A.S.**
1 rue du Ballon
68500 MERXHEIM
FRANCE

Commercial brand(s): **REYNOBOND® FR**

Brief description: **Composite panel with polyethylene core surfaced on both sides with aluminium sheets**
(see detailed description in paragraph 2)

Date of issue: **September 27th, 2012**

The indicated classification does not prejudge the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 to L 115-32 and R115-1 to R115-3 article of the consumption's code and of the law n. 2008-776 article 113 dated August 4th, 2008.

If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute.

The reproduction of this classification report is only authorised in its integral form.

It comprises 4 pages.

The document RA12-0348 dated September 27th, 2012 cancels and replaces the document RA12-0043 dated February 16th, 2012 for modification of the core formulation.

1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1 standard.

2. Product description

Composite panel consisting of two precoated aluminium sheets thermally bonded on both sides with a fire-retarded polyethylene core.

Tested systems: riveted on metal substructure and cassette on metal substructure.

Finishes: Duragloss® 5000 35 µm or PVDF 70/30 35 µm.

Nominal thickness of the aluminium facings: 0.5 mm.

Overall nominal weight per unit area: 7.56 kg/m².

Overall nominal thickness: 4 mm.

Colours: various.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report Nos.	Test method
CSTB	ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541120503	RA12-0348	EN ISO 11925-2 EN 13823

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 30s surface exposure	REYNOBOND® FR Duragloss® 5000 35 µm finish (precoated sheet)	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	REYNOBOND® FR Duragloss® 5000 35 µm finish (polyethylene core)	6	Fs > 150 mm Filter paper	Not reached Not ignited

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	REYNOBOND® FR Riveted system Duragloss® 5000 35 µm finish	3	FIGRA _{0.2MJ} (W/s) FIGRA _{0.4MJ} (W/s) LFS THR _{600s} (MJ)	5.7 5.7 - 0.6	- - Not reached -
			SMOGRA(m²/s²) TSP _{600s} (m²)	0.4 16.9	- -
			Flaming droplets or debris	-	None
EN 13823	REYNOBOND® FR Cassette system Duragloss® 5000 35 µm finish	3	FIGRA _{0.2MJ} (W/s) FIGRA _{0.4MJ} (W/s) LFS THR _{600s} (MJ)	16.8 16.8 - 0.8	- - Not reached -
			SMOGRA(m²/s²) TSP _{600s} (m²)	0.5 21.7	- -
			Flaming droplets or debris	-	None

(-) means: not applicable

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clauses 11.6, 11.9.2 and 11.10.1 of the NF EN 13501-1 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
B	-	s1	,	d0

Classification: B - s1, d0

4.3 Field of application

This classification is valid for the following product parameters:

- The system described in paragraph 2.
- An overall nominal thickness of 4 mm.
- An overall nominal weight per unit area of 7.56 kg/m².
- 35 µm thick Duragloss® 5000 and 35 µm thick PVDF 70/30 finishes.
- Various colours.

This classification is valid for the following end use conditions:

- Riveted or screwed system and cassette system on metal substructure.
- With a minimum air gap of 20 mm.
- With or without A1 or A2-s1,d0 class mineral wool insulating material.
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density ≥ 615 kg/m³.

Champs-sur-Marne, September 27th, 2012

The Technician
Responsible for the test

P.O. Maxime BAUER

Maxime BAUER

The Head of Reaction to Fire
laboratory

Gildas CREACH

.....END OF THE CLASSIFICATION REPORT

To: Wehrle, Claude[Claude.Wehrle@alcoa.com]
From: Daniel Siew (Gmail)
Sent: Fri 3/7/2014 8:20:58 AM (UTC)
Subject: EXT: RE: Reynobond core material classification

Thank you Claude.

How is the IB tower project getting on?

Regards,
Daniel Siew

From: Wehrle, Claude [mailto:Claude.Wehrle@alcoa.com]
Sent: Friday, March 07, 2014 4:02 PM
To: Daniel Siew
Cc: Wahler, Serge
Subject: RE: Reynobond core material classification

Hi Daniel,

I'm not sure I came back to you concerning your question for fire class in accordance with the Europe Norm EN 13501.

Our Reynobond PE is EN 13501 class "E"
Our Reynobond FR is EN 13501 class "B-s1,d0"

Those test are done on the full panels (Aluminum skin + core), and also with the installation system.

I send you enclosed the full classification reports.

Regards,

Claude

De : Daniel Siew (Gmail) [mailto:Daniel.Siew@gmail.com]
Envoyé : mercredi 8 janvier 2014 03:43
À : Wehrle, Claude
Objet : EXT: Reynobond core material classification

Dear Claude,

Bonjour!

I visited you in Oct 2011 and how are you getting on?

I was going through Reynobond brochure and noticed the following:

For plastic core construction, the material class is EN13501-1, B s2 d0.
For mineral construction (FR), the material class is EN 13501-1, B s1 d0.

My question is :

For the above classification, was the material tested just with the Core material alone or was it tested as an Aluminium Composite Panel?

560

Looking forward to have your reply soon.

Thank you very much.

**Regards,
Daniel Siew**

EMEA Legal Entity Information: http://www.alcoa.com/global/en/general/legal_europe.asp

To: Remy, Nicolas[Nicolas.Remy@alcoa.com]; Brunet, Mareva[Mareva.Brunet@alcoa.com]
From: Wehrle, Claude
Sent: Fri 3/14/2014 1:48:23 PM (UTC)
Subject: RE: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

En effet il y a une incompatibilité dans la demande
Soit le client souhaite du B-s1,d0 et on propose du FR, soit il veut du M1 et on propose du PE

Âme FR, OK pour B-s1,d0

Claude

De : Remy, Nicolas
Envoyé : vendredi 14 mars 2014 14:45
À : Brunet, Mareva
Cc : Wehrle, Claude
Objet : RE: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Houlà,

Je pense qu'il vaut mieux demander confirmation à Claude...

Pour une âme PE :

- Certification Française : M1
- Certification Européenne : E (et non Bs1 d0)

Donc on est ok avec la norme française, mais pas bon pour l'européenne...

Âme FR ? Claude, un avis ?

Bon après midi,

Nicolas

*Nicolas REMY | Structural Engineer | P: [REDACTED] - Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | www.alcoaarchitecturalproducts.eu/*



[Discover Reynodual!](#)

From: Brunet, Mareva
Sent: vendredi 14 mars 2014 14:41
To: Remy, Nicolas
Subject: TR: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Nico

Tu peux me traduire le truc en jaune ?
Je peux bien offrir du RB55 PE ?

Mareva

De : 05 DELPHINE DANIOUX [<mailto:ddanioux@sunclear.fr>]

Envoyé : vendredi 14 mars 2014 14:31
À : Brunet, Mareva; 05 JEROME DURAND
Cc : 05 DELPHINE DANIOUX
Objet : EXT: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Bonjour mareva

Liv en 1 fois
Largeur de production 1250 mm
Debut 2015 projet
PV feu Classe B, s1 d0 et suivant NF P 92-501 Classe M1
Les 2 classements apparaissent sur le descriptif

Variante de projet : ref HEMERA

Jérôme DURAND
SUNCLEAR NANTES

De : Brunet, Mareva [<mailto:Mareva.Brunet@alcoa.com>]
Envoyé : jeudi 13 mars 2014 14:59
À : 05 DELPHINE DANIOUX
Cc : Audureau, Patrice
Objet : RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Hello Delphine,

Quel est donc ce nouveau projet ?
Livrable en une seule fois ?
Pour quand ?
...

Cordialement,

Mareva

De : 05 DELPHINE DANIOUX [<mailto:ddanioux@sunclear.fr>]
Envoyé : jeudi 13 mars 2014 14:43
À : Brunet, Mareva
Cc : 05 DELPHINE DANIOUX
Objet : EXT: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Bonjour MAREVA

Merci de bien vouloir m'adresser une offre pour
2050 m²
Coloris anodique argent
Largeur standard et xxl

Merci

DELPHINE DANIOUX
COMMERCIALE INTERNE
SUNCLEAR NANTES
www.sunclear.fr



TEL :

FAX :

EMEA Legal Entity Information: http://www.alcoa.com/global/en/general/legal_europe.asp

From: "Wehrle, Claude"

To: "Remy, Nicolas" <Nicolas.Remy@alcoa.com>
"Brunet, Mareva" <Mareva.Brunet@alcoa.com>

Date: 14/03/2014 14:48:23

Subject: RE: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Indeed, there is some inconsistency in the request

Either the customer wants B-s1,d0 and we propose FR, or he wants M1 and we propose PE

Core FR, OK for B-s1,d0

Claude

From: Remy, Nicolas

Sent: Friday, 14 March 2014 14:45

To: Brunet, Mareva

Cc: Wehrle, Claude

Subject: RE: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Whoa,

I think it's better to ask Claude for confirmation...

For a PE core:

- French certification: M1
- European certification: E (not Bs1 d0)

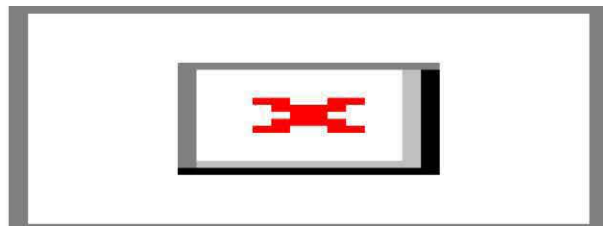
So we're fine when it comes to the French standard, but not good when it comes to the European one...

Core FR? Claude, any thoughts?

Good afternoon,

Nicolas

*Nicolas REMY | Structural Engineer | P: [REDACTED] – Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | www.alcoaarchitecturalproducts.eu/*



[Discover Reynodual!](#)

From: Brunet, Mareva

Sent: vendredi 14 mars 2014 14:41

To: Remy, Nicolas

Subject: TR: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Nico

Can you translate the yellow thing for me?
Can I offer RB55 PE?

Mareva

From: 05 DELPHINE DANIOUX [<mailto:ddanioux@sunclear.fr>]
Sent: Friday, 14 March 2014 14:31
To: Brunet, Mareva; 05 JEROME DURAND
Cc: 05 DELPHINE DANIOUX
Subject: EXT: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Hello mareva

Delivered in one go
Production width 1250 mm
Beginning of 2015 project
PV fire Class B, s1 d0 and according to NF P 92-501 Class M1
The 2 classifications appear on the description

Project variant: ref HEMERA

Jérôme DURAND
SUNCLEAR NANTES

From: Brunet, Mareva [<mailto:Mareva.Brunet@alcoa.com>]
Sent: Thursday, 13 March 2014 14:59
To: 05 DELPHINE DANIOUX
Cc: Audureau, Patrice
Subject: RE: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Hello Delphine,

What is this new project?
Deliverable in one go?
For when?
...

Sincerely,

Mareva

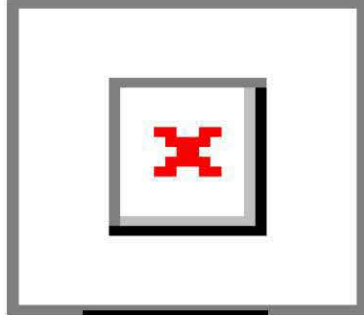
From: 05 DELPHINE DANIOUX [<mailto:ddanioux@sunclear.fr>]
Sent: Thursday, 13 March 2014 14:43
To: Brunet, Mareva
Cc: 05 DELPHINE DANIOUX
Subject : EXT: DEMANDE DE PRIX / REYNOBOND ARCHITECTURE

Hello MAREVA

Please send me an offer for
2050 m²
Anodic silver colour
Standard width and xxl

Merci

DELPHINE DANIOUX
COMMERCIALE INTERNE
SUNCLEAR NANTES
www.sunclear.fr



TEL :

FAX :

EMEA Legal Entity Information: http://www.alcoa.com/global/en/general/legal_europe.asp



Reynodual[®]
Building

CLASS A2

The first coil-coated
double sheet
aluminium panel!

Learn more about
REYNODUAL 3 mm!

565

Excellence in innovation

The advertisement features a background image of a modern building facade with a grid of panels. A circular fire safety logo with a flame and a diagonal line is positioned over one of the panels. A red banner with white text is placed in the lower right area of the image.



To: Hoffmann, Sophie[Sophie.Hoffmann@alcoa.com]; Wehrle, Claude[Claude.Wehrle@alcoa.com]
From: Remy, Nicolas
Sent: Wed 4/23/2014 10:12:11 AM (UTC)
Subject: RE: Norme BS 476/6 client Ajax
[BS 476 Part 6&7 - RB55PE - 1997.pdf](#)
[PDFJ322844-CM121031BS 476 Class 0 Summary.pdf 1.pdf](#)

Salut Sophie,

Oui, nous connaissons !

La norme « BS 476 – part 6 » est une norme anglaise qui définit la méthode de contrôle de la propagation des flammes sur un produit. Elle est toujours liée à la norme « BS 476 – part 7 ». Les classements ou résultats obtenus selon ces deux normes permettent d'en déduire un classement selon norme « BS 476 – part 6 et part 7 »

Selon la « BS 476 – **part 6 et part 7** », nous sommes classés « **Class 0** », ci-joint, les certificats pour PE et FR.

Bonne journée,

Nicolas

*Nicolas REMY | Structural Engineer | P: [REDACTED] – Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | www.alcoaarchitecturalproducts.eu/*



[Discover Reynodual!](#)

From: Hoffmann, Sophie
Sent: mercredi 23 avril 2014 10:42
To: Remy, Nicolas; Wehrle, Claude
Subject: Norme BS 476/6 client Ajax

Bonjour,

Est-ce que vous connaissez cette norme pour l'archi ?
Merci

Sophie

From: ["Remy, Nicolas"](#)

To: ["Hoffmann, Sophie" <Sophie.Hoffmann@alcoa.com>](#)
["Wehrle, Claude" <Claude.Wehrle@alcoa.com>](#)

Date: 23/04/2014 12:12:11

Subject: RE: Norme BS 476/6 client Ajax

Attachments

: [BS 476 Part 6&7 - RB55PE - 1997.pdf](#)

[PDFJ322844-CM121031BS 476 Class 0 Summary pdf 1.pdf](#)

Hi, Sophie,

Yes, we know about it!

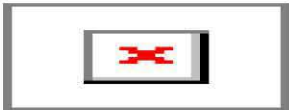
"BS 476 - part 6" is an English standard that defines the method of controlling the spread of flames on a product. It is always linked to the "BS 476 - part 7" standard. The classifications or results obtained according to these two standards allow to deduce a classification according to standard "BS 476 - part 6 and part 7".

According to "BS 476 - **part 6 and part 7**", we are classified as "**Class 0**"; attached are the certificates for PE and FR.

Have a good day,

Nicolas

Nicolas REMY | Structural Engineer | P: [REDACTED] – Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | www.alcoaarchitecturalproducts.eu/



[Discover Reynodual!](#)

From: Hoffmann, Sophie
Sent: mercredi 23 avril 2014 10:42
To: Remy, Nicolas; Wehrle, Claude
Subject: Norme BS 476/6 client Ajax

Hello,

Do you know this standard for archi?
Thank you.

Sophie

Reynobond® Reynolux®



Adler Arena Skating Center | Sochi



And the winners are ...
Reynobond®
Reynolux® and
EcoClean™
Sochi,
Russia, 2014




**SUMMARY OF WARRES NO'S. 70707 and 70708
INCLUDING OPINION OF COMPLIANCE WITH THE
REQUIREMENTS FOR A CLASS 0 SURFACE
AS DEFINED IN PARAGRAPH A12(b)
OF APPROVED DOCUMENT B, 'FIRE SAFETY',
TO THE BUILDING REGULATIONS 1991**

SPONSORED BY

**REYNOLDS ALUMINIUM FRANCE SA
1 RUE DU BALLON
F-68500 MERXHEIM
FRANCE**



Holmesfield Road, Warrington, UK WA1 2DS • Tel: [REDACTED] • Fax: [REDACTED]

**SUMMARY OF WARRES NO'S. 70707 AND 70708
INCLUDING OPINION OF COMPLIANCE WITH THE
REQUIREMENTS FOR CLASS 0 SURFACE
AS DEFINED IN PARAGRAPH A12(b)
OF APPROVED DOCUMENT B, 'FIRE SAFETY',
TO THE BUILDING REGULATIONS 1991**

SPONSORED BY
REYNOLDS ALUMINIUM FRANCE SA
1 RUE DU BALLON
F-68500 MERXHEIM
FRANCE

1. **TERMS OF REFERENCE**

To assess the results of tests to BS 476:Part 6:1989 and BS 476:Part 7:1997, obtained on specimens of a product and to provide an opinion of compliance with the requirements for a Class O surface, as defined in Approved Document B to the Building Regulations 1991.

2. **INTRODUCTION**

Specimens of a product have been tested in accordance with the test methods specified in 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'. The results of the tests are fully reported in the test reports WARRES No's. 70707 and 70708.

This summary test report has been prepared at the request of the sponsor and relates the results of the tests to the requirements for a Class 0 surface of a material or composite product, as defined in paragraph A12(b) of Approved Document B, 'Fire Safety', to the Building Regulations 1991.

This summary should be read in conjunction with, and not accepted as a substitute for, the test reports WARRES No's. 70707 and 70708. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

3. **DESCRIPTION OF TEST SPECIMENS**

The description of the specimens given below has been prepared from information provided by the sponsor of the tests. All values quoted are nominal, unless tolerances are given.

The product was 'Reynobond RB 160 Pe', a composite panel having an overall thickness of 4 mm and comprising a core of 3 mm thick low density polyethylene (920 Kg/m³) with coated aluminium sheets bonded, utilising an adhesive system, to both faces.

In the case of the face exposed to the heating conditions of the test (front face), the coated aluminium sheet comprised 0.5 mm thick chromate pre-treated aluminium sheet coated on the exposed face with one coat of a PVF 2 (70% 'Kynar 500') coating (colour reference 'Silver Anodic 906'), coil coated to a dry film thickness of 25 microns.

In the case of the other face (reverse face) the coated aluminium sheet comprised 0.5 mm thick, chromate pre-treated aluminium sheet coated on the exposed face with one coat of an epoxy washcoat, coil coated to a dry film thickness of 5 microns.

The specimens were tested with an airgap positioned behind the product as described in WARRES No. 70707 and WARRES No. 70708.

Further details of the composition of the product have been provided and are held on our confidential file relative to this investigation.

The specimens were supplied by the sponsor. Warrington Fire Research Centre was not involved in any selection or sampling procedure.

4. **FACE SUBJECTED TO TESTS**

The specimens were mounted in the test positions such that the PVF 2 (colour reference 'Silver Anodic 906') face was exposed to the heating conditions of the tests.

5. **RESULTS OF TESTS**

The following results were obtained for the specimens which were tested.

BS 476: PART 6: 1989

Fire propagation index, I	=	0.3
subindex, i_1	=	0.0
subindex, i_2	=	0.0
subindex, i_3	=	0.3

BS 476: PART 7: 1997

Class 1 surface spread of flame

The test results relate only to the behaviour of the test specimens of the product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential hazard of the product in use.

6. **OPINION**

We consider the results of the tests detailed above demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A12(b) of Approved Document B, 'Fire Safety', to the Building Regulations 1991.

7. **VALIDITY OF OPINION**

This opinion is based on the requirements of the Building Regulations at the date of this report. If the Building Regulations are revised or amended in any way subsequent to that date, care must be taken to ensure that this opinion is not invalidated by those revisions or amendments.

The opinion has been formulated on the assumption that the specimens are representative of the product in practice. Warrington Fire Research Centre was not involved in any sampling or selection procedures which would confirm this or in any audit testing which would provide confidence in the consistency of the product in the tests.

RESPONSIBLE OFFICER



J COAKLEY
Technical Officer
Reaction to Fire Testing

DATE OF ISSUE: May 9, 1997

(W9711bj)

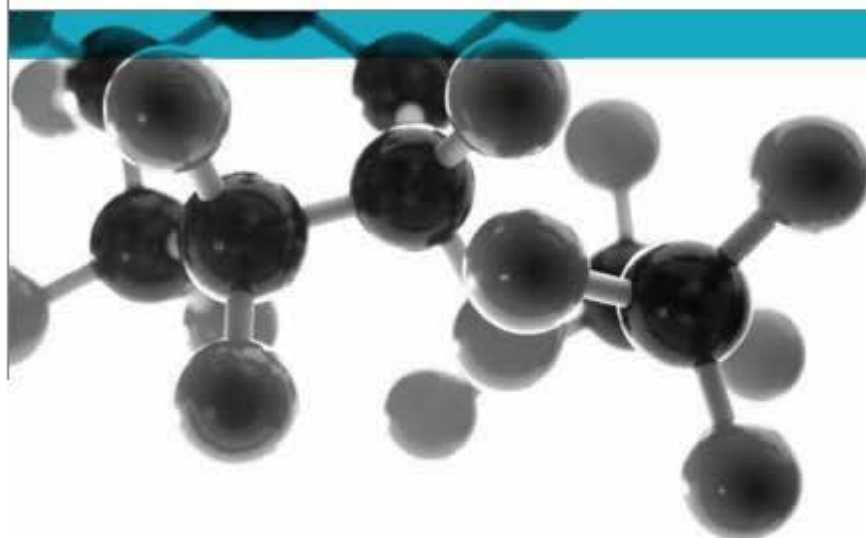
APPROVED



P E LYTHGOE
Manager
Reaction to Fire Testing
for and on behalf of
WARRINGTON FIRE RESEARCH CENTRE

Warrington
FIRE
research
CONSULTANCY • TESTING

Class 0 Summary Report



Including Opinion Of Compliance With The Requirements For A Class 0 Surface As Defined In Paragraph A13(b) Of Approved Document B (Volumes 1 & 2), (2006 Edition) 'Fire Safety' To The Building Regulations 2000

Date: 5th November 2012

Issue No.: 1

Page 1

A Report To: Alcoa Architectural Products

Document Reference: 322844 & 322845

**Testing
Advising
Assuring**

Executive Summary

Objective

To assess the results of tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7:1997, obtained on specimens of the following product and to provide an opinion of compliance with the requirements for a Class 0 surface, as defined in Approved Document B to the Building Regulations 2000.

Generic Description	Product reference	Thickness	Weight per unit area or density
Composite panel consisting of two coil-coated aluminium sheets that are bonded to a flame retardant grade polyethylene core	"Reynobond® FR"	4mm	7.5kg/m ²
Individual components used to manufacture composite:			
Final coating product (test face)	"DG 5000"	20µm	Unwilling to provide
First coating product	"Primer"	15µm	Unwilling to provide
Aluminium	"3005 H46"	0.5mm	2.7kg/dm ³
Adhesive	"Tie-Layer"	Unwilling to provide	Unwilling to provide
Core	"FR V1"	3mm	1.57g/cm ³
Coating product (reverse face)	"Wash Coat"	6µm	Unwilling to provide
Please see page 5 of this test report for the full description of the product tested			

Test Sponsor

Alcoa Architectural Products, 1 Rue Du Ballon, F-68500, Merxheim



Opinion:

We consider the results of the tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7: 1997, demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

Date of Test

15th, 16th & 17th October 2012

Signatories

 Responsible Officer D. J. Owen * Senior Technical Officer	 Authorised T. Mort * Senior Technical Officer
--	---

* For and on behalf of **Exova Warringtonfire**

Report Issued: 5th November 2012

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Document No.: Alcoa Architectural
Products
Author:
Client: 322844 & 322845

Page No.: 2 of 9
Issue Date: 5th November 2012
Issue No.: 1

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TEST DETAILS	4
DESCRIPTION OF TEST SPECIMENS	5
CLASSIFICATION.....	8
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Test Details

Terms Reference **Of** To assess the results of tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7:1997, obtained on specimens of a product and to provide an opinion of compliance with the requirements for a Class 0 surface, as defined in Approved Document B to the Building Regulations 2000.

Introduction Specimens of a product have been tested in accordance with the test methods specified in BS 476: Part 6: 1989+A1: 2009 'Method of test for fire propagation for products' and BS 476: Part 7: 1997 'Method of test to determine the classification of the surface spread of flame of products'. The results of the tests are fully reported in the **Exova Warringtonfire** test reports No's 322844 and 322845

This summary test report has been prepared at the request of the sponsor and relates the results of the tests to the requirements for a Class 0 surface of a material or composite product, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

This summary should be read in conjunction with, and not accepted as a substitute for, the **Exova Warringtonfire** test reports No's 322844 and 322845. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

The specimens were tested with an airgap positioned behind the product as described in test report No. 322844 and test report No. 322845

Face subjected to tests The specimens were mounted in the test positions such that the white face was exposed to the heating conditions of the tests.

Results of test The following results were obtained for the specimens, which were tested.

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

BS 476: Part 7: 1997	Class 1 surface spread of flame
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The test results relate only to the behaviour of the test specimens of the product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential hazard of the product in use.

Document No.: Alcoa Architectural
Products
Author:
Client: 322844 & 322845

Page No.: 4 of 9
Issue Date: 5th November 2012
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Description of Test Specimens

The description of the specimens given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

General description		Composite panel consisting of two coil-coated aluminium sheets that are bonded to a flame retardant grade polyethylene core
Product reference of composite		"Reynobond® FR"
Colour reference of composite		"Duragloss 5000"
Thickness of composite		4mm (stated by sponsor) 4.12mm (determined by Exova Warringtonfire)
Weight per unit area of composite		7.5kg/m ² (stated by sponsor) 7.6 kg/m ² (determined by Exova Warringtonfire)
Product configuration		<ul style="list-style-type: none"> • Final coating product (test face) • First coating product • Aluminium • Adhesive • Core • Adhesive • Aluminium • Coating product (reverse face)
Final coating product (test face)	Product reference	"DG 5000"
	Generic type	Polyester
	Name of manufacturer	Beckers Industrie
	Colour reference	"B47 XXXX XXX"
	Number of coats	One
	Specific gravity	See Note 1 below
	Application thickness per coat	20µm
	Application method	Coil coating
	Curing process	Oven cured
	Flame retardant details	See Note 2 below
First coating product	Product reference	"Primer"
	Generic type	Polyester
	Name of manufacturer	Beckers Industrie
	Colour reference	"B70 XXXX XXX"
	Number of coats	One
	Specific gravity	See Note 1 below
	Application thickness per coat	15µm
	Application method	Coil coating
	Curing process	Oven cured
	Flame retardant details	See Note 2 below

- Continued on next page

Aluminium	Product reference	"3005 H46"
	Generic type	Aluminium
	Name of manufacturer	ALCOA
	Thickness	0.5mm
	Density	2.7kg/dm ³
	Preparation details (pre-treatment)	Degreased and chromate
	Flame retardant details	The aluminium is inherently flame retardant
Adhesive	Product reference	"Tie-Layer"
	Generic type	High density polyethylene film
	Name of manufacturer	Bishoff & Klein
	Application rate / thickness	See Note 1 below
	Application method	Continuous process
	Flame retardant details	See Note 2 below
Core	Product reference	"FR V1"
	Generic type	Flame retardant grade polyethylene
	Detailed description / composition details	See Note 1 below
	Name of manufacturer	See Note 3 below
	Thickness	3mm
	Density	1.57g/cm ³
	Trade name of flame retardant	FR V1
	Generic type of flame retardant	See Note 1 below
	Amount of flame retardant	100%
Adhesive	Product reference	"Tie-layer"
	Generic type	High density polyethylene film
	Name of manufacturer	Bishoff & Klein
	Application rate / thickness	See Note 1 below
	Application method	Continuous process
	Flame retardant details	See Note 2 below
Aluminium	Product reference	"3005 H46"
	Generic type	Aluminium
	Name of manufacturer	ALCOA
	Thickness	0.5mm
	Density	2.7kg/dm ³
	Preparation details (pre-treatment)	Degreased and chromate
	Flame retardant details	The aluminium is inherently flame retardant

- Continued on next page

Coating product (Reverse face)	Product reference	"Wash Coat"
	Generic type	Polyurethane
	Name of manufacturer	Beckers Industrie
	Colour reference	B50 7445 25V
	Number of coats	One
	Specific gravity	See Note 1 below
	Application thickness per coat	6µm
	Application method	Coil coating
	Curing process	Oven cured
	Flame retardant details	See Note 2 below
Brief description of manufacturing process		Continuous process consisting of the extrusion of a flame retardant grade core between two aluminium sheets

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

Note 2 - The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

Note 3 – 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.

Classification

Opinion

We consider the results of the tests detailed above demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

Validity of opinion

This opinion is based on the requirements of the Building Regulations at the date of this report. If the Building Regulations are revised or amended in any way subsequent to that date, care must be taken to ensure that this opinion is not invalidated by those revisions or amendments.

The opinion has been formulated on the assumption that the specimens are representative of the product in practice. **Exova Warringtonfire** was not involved in any sampling or selection procedures which would confirm this or in any audit testing which would provide confidence in the consistency of the product in the tests.

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Document No.: Alcoa Architectural
Products
Author:
Client: 322844 & 322845

Page No.: 8 of 9
Issue Date: 5th November 2012
Issue No.: 1

Revision History

Issue No :	Re-issue Date:
Revised By:	Approved By:
Reason for Revision:	

Issue No :	Re-issue Date:
Revised By:	Approved By:
Reason for Revision:	

Document No.: Alcoa Architectural
Products
Author:
Client: 322844 & 322845

Page No.: 9 of 9
Issue Date: 5th November 2012
Issue No.: 1

To: Vonthron, Philippe[Philippe.Vonthron@alcoa.com]
Cc: Wehrle, Claude[Claude.Wehrle@alcoa.com]; Remy, Nicolas[Nicolas.Remy@alcoa.com]
From: French, Deborah
Sent: Thur 8/7/2014 9:42:41 PM (UTC)
Subject: RE: Fwd: 1104 - 03 Spruce - Window jamb insulation sketches

Hi Philippe & Nicolas

Thanks for your comments and help with this issue, I have passed on all your all comments and suggestions, it is now over to them to make it work

Thanks again

Enjoy the summer

Debbs

Deborah French

UK Sales Manager : Reynobond Architecture & Corporate ID- Alcoa Architectural Products SAS

Mobile: [REDACTED] - E-mail: deborah.french@alcoa.com Address: [REDACTED]

website: www.reynobond-design-collection.eu [Reynobond innovations](http://www.reynobond-innovations.eu) - <http://excellence-in-innovation.eu/aluminium-facades-bau-2013/>



From: Vonthron, Philippe
Sent: Thursday, August 07, 2014 2:54 PM
To: French, Deborah
Cc: Wehrle, Claude; Remy, Nicolas
Subject: RE: Fwd: 1104 - 03 Spruce - Window jamb insulation sketches

Hi Debbs,

1. We do need to have this 20mm behind the Reynobond® panel & the insulation to ensure the air flow for an ventilated façade... even if it is a small part.

If your customer don't want to do that, it is to his responsibility.

Maybe your customer can cut the large insulation near the fixing bracket & the profile and add a smallest & less deep insulation part in the small part.

2. Concerning the fire barrier, they can be put directly behind the window cladding. To avoid the fire propagation to the upper level, it is necessary to remove the ventilation holes in the head of the window pod.

The ventilation will be ensured through the cutting rail on the side (like describe on the #3).

Claude was telling me that in the regulations, the fire behavior and the concept of ventilation are not granted... a compromise must be found.

3. We think that to cut the rail in order to let air flow freely is a good idea

But while the air flow goes from the bottom to the top from the building, the rail should be cut at the top & the bottom. So the allaying will be ventilated..

Best regards.

Philippe VONTHRON | Technicien Projet - Project Technician | P: [REDACTED] - Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Badin, 68500 Merxheim, France | www.alcoaarchitecturalproducts.eu/



De : French, Deborah

Envoyé : mercredi 6 août 2014 15:14

À : Remy, Nicolas

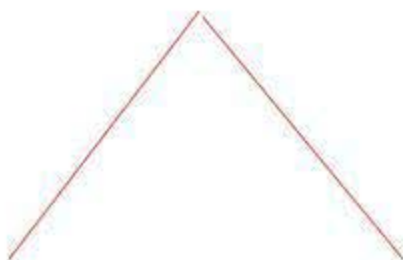
Cc : Wehrle, Claude; Vonthron, Philippe

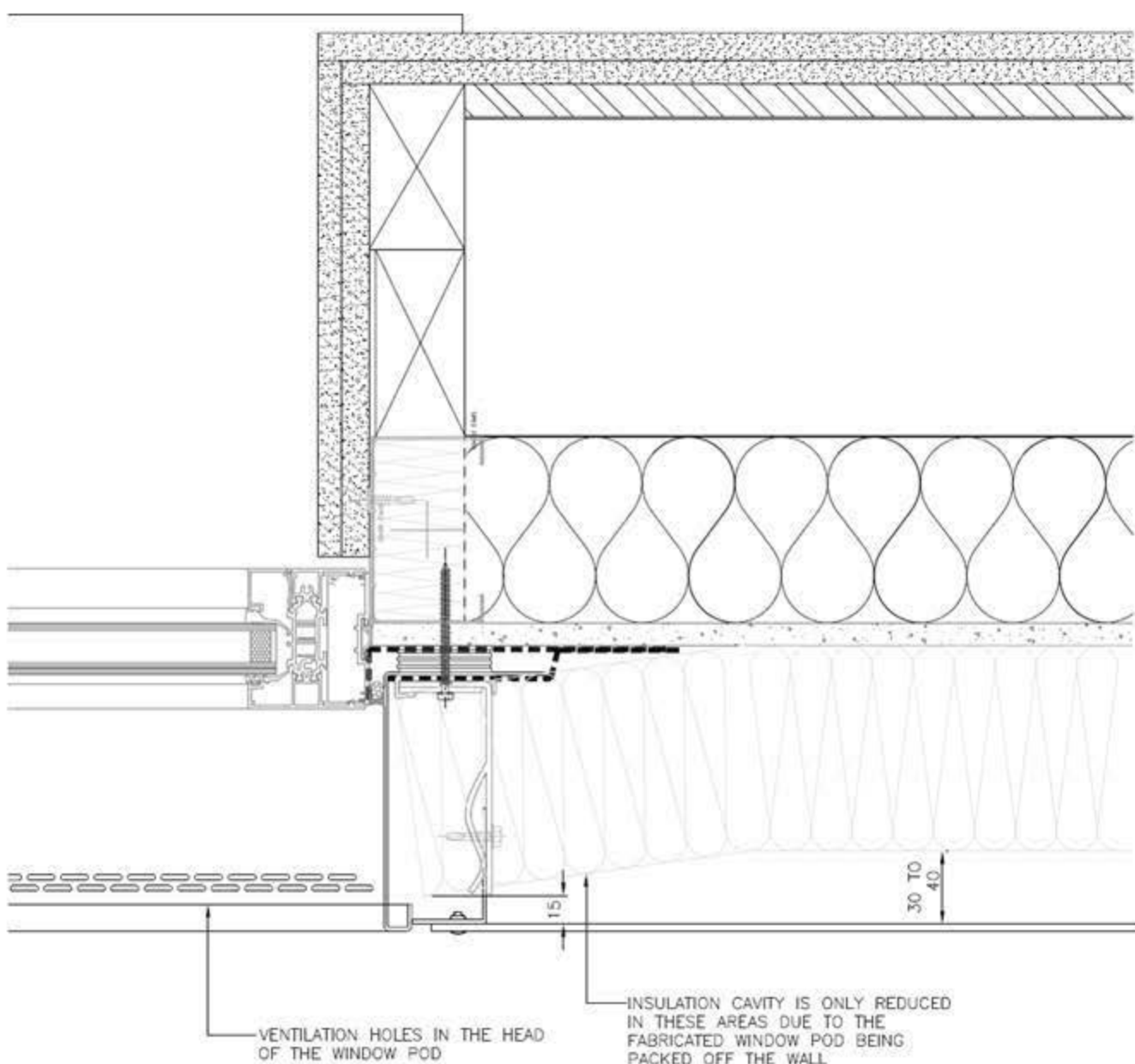
Objet : RE: Fwd: 1104 - 03 Spruce - Window jamb insulation sketches

Hi Nicolas and Philippe

Thanks for sending over this details, I have discussed with the customer and they have asked and raised the following points could you please let me know what your thoughts are.

1. They understand why we have to have a min of 20mm cavity but the reduction in the gap is only in a small part of the localized area.
2. If a fire barrier had to be inserted adjacent to the reveal flashing how would we overcome the fact that there are situations where there is no gap behind the panel and the fire barrier, does this mean that none of the Reynobond is then covered by our warranty.
3. If the rail was cut back so it was in line with the top of the RB panel rather than no gap under the vents so there is an air flow at this point would this help.





Sorry to throw this back but it is important that I get the information back to the customer

Thanks for your quick reply

Debbs

Deborah French

UK Sales Manager : Reynobond Architecture & Corporate ID- Alcoa Architectural Products SAS

Mobile: [REDACTED] - E-mail: deborah.french@alcoa.com Address: [REDACTED]

website: www.reynobond-design-collection.eu [Reynobond innovations](http://www.reynobond-innovations.eu) - <http://excellence-in-innovation.eu/aluminium-facades-bau-2013/>



From: Remy, Nicolas

Sent: Wednesday, August 06, 2014 9:12 AM

To: French, Deborah

Cc: Wehrle, Claude; Vonthron, Philippe

Subject: RE: Fwd: 1104 - 03 Spruce - Window jamb insulation sketches

Hi Debbs,

We've taken a look with Philippe on your customer's drawings... As you said, there are a few isolated areas where the gap is reduced... For all windows, as it seems... Unfortunately, even if this matter just concerns a few panels, it can be put in place like this with our standard warranties.

This rule is one ground rule for ventilated facades.

- The whole thermal insulation of your whole building can be effected

- A ventilated air gap of 20-30 mm between our panels and insulation is necessary to enable the removal of the condensation on the surface of both materials

And just so you know, we even had to specify on our French technical approval "The thickness of the air flow must be at least equal to 20 mm. Be sure that this thickness is respected along joints and any reinforcements."

Your customer must find a way to keep the gap at minimum 20mm... Insulation is a soft material that can be compressed; maybe he could us this specific characteristic...

Have a nice day, and don't hesitate to come back to us if you have further question,

Nicolas

*Nicolas REMY | Structural Engineer | P: [REDACTED] – Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | www.alcoaarchitecturalproducts.eu/*



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From: French, Deborah

Sent: mardi 5 août 2014 10:01

To: Remy, Nicolas

Subject: FW: Fwd: 1104 - 03 Spruce - Window jamb insulation sketches

Hi Nicolas

Could you have a look at the attached couple of dwg's please, customer has had to reduce the gap to 15mm in a few isolated areas although there is additional ventilation in the way of went pods above the windows, these have been perforated according to our rules.

Dwg attached also shows in yellow the areas this gap has been installed at.

I need to confirm if this is OK given that there is extra ventilation in the pods as well

Thanks

Debbs

Deborah French

UK Sales Manager | Reynobond Architecture & Corporate ID- Alcoa Architectural Products SAS

Mobile: [REDACTED] E-mail: deborah.french@alcoa.com Address: [REDACTED]

website: www.reynobond-design-collection.eu [Reynobond innovations](http://www.reynobondinnovations.eu) - <http://excellence-in-innovation.eu/aluminium-facades-bau-2013/>



From: John Simmons [<mailto:john.simmons@simcoefs.com>]

Sent: Monday, August 04, 2014 3:36 PM

To: French, Deborah

Subject: EXT: Fwd: 1104 - 03 Spruce - Window jamb insulation sketches

584



Debs,

As discussed please find attached detail where we have reduced cavity at the side of a window in isolated areas and the vents in the the top of the pod will accommodate extra air flow in

Can you please confirm that this will not effect the Reynobond warranty in anyway.

Regards,

John Simmons.
[REDACTED]

www.simcoefs.com | john.simmons@simcoefs.com

Simco External Framing Solutions Limited
Leamore Lane
Bloxwich
Walsall
WS2 7DQ,
United Kingdom

Tel: [REDACTED]
Fax: [REDACTED]

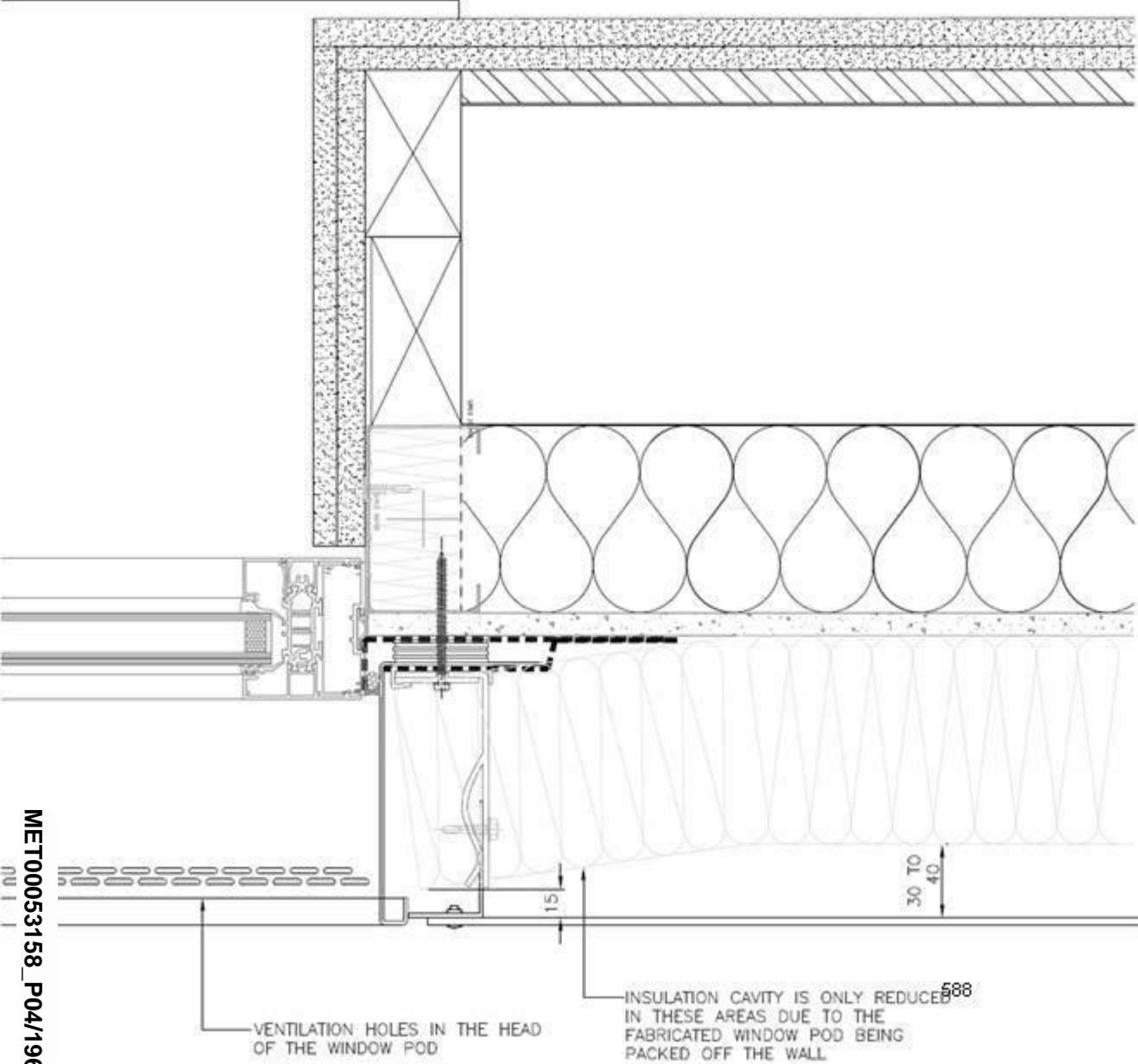
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From: "Ben Bishop" <ben@simcoefs.com>
Subject: 1104 - 03 Spruce - Window jamb insulation sketches
Date: 4 August 2014 15:29:40 BST
To: <john.simmons@simcoefs.com>







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Adler Arena Skating Center | Sochi



And the winners are ...
Reynobond®
Reynolux® and
EcoClean™
Sochi,
Russia, 2014




To: Derrendinger, Gwenaelle[Gwenaelle.Derrendinger@alcoa.com]
Cc: Wehrle, Claude[Claude.Wehrle@alcoa.com]
From: Remy, Nicolas
Sent: Tue 12/2/2014 8:51:56 AM (UTC)
Subject: RE: FW: 6396 Sunderland College, Holmeside Campus - External Cladding Spread of Flame

<T:\Groupe de travail\ToolBox Reynobond\ToolBox General\Certification\X-UK\Certificats feu>

Nicolas REMY | Structural Engineer | P: [REDACTED] — Fax: [REDACTED]
Alcoa Architectural Products, 1 rue du Ballon, 68500 Merxheim, France | www.alcoaarchitecturalproducts.eu/



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From: Wehrle, Claude
Sent: mardi 2 décembre 2014 09:48
To: Derrendinger, Gwenaelle; Remy, Nicolas
Subject: RE: FW: 6396 Sunderland College, Holmeside Campus - External Cladding Spread of Flame

Salut Gwen,

Il s'agit de la classification au feu selon la norme BS476

Le rapport de classement se trouve dans la toolbox

Claude

De : Derrendinger, Gwenaelle
Envoyé : mardi 2 décembre 2014 09:38
À : Remy, Nicolas; Wehrle, Claude
Objet : TR: FW: 6396 Sunderland College, Holmeside Campus - External Cladding Spread of Flame

Coucou,

Notre prescripteur TM sur le marché UK me demande si notre produit Reynobond appartient à la classe 0 et si on a une fiche technique pour cela. Pouvez-vous me dire si cela est le cas et ce qu'est la classe 0?

D'avance merci.

Cdt,

Gwen

De : Danny McQuaid [<mailto:danny.mcquaid@taylor.maxwell.co.uk>]
Envoyé : lundi 1 décembre 2014 23:07
À : French, Deborah; Derrendinger, Gwenaelle
Cc : Grahame (grahame@geniusfacades.com)
Objet : EXT: FW: 6396 Sunderland College, Holmeside Campus - External Cladding Spread of Flame

Hi Debs/Gwen,

Can you please get back to me on this email from Thursday please?

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Getting chased now that's all.

Kind regards

Danny McQuaid



M/ [REDACTED]
F/ [REDACTED]

E/ dannymcquaid@taylor.maxwell.co.uk

W/ www.taylormaxwell.co.uk

From: Danny McQuaid

Sent: 27 November 2014 08:38

To: French, Deborah

Cc: Derrendinger, Gwenaelle (Gwenaelle.Derrendinger@alcoa.com)

Subject: FW: 6396 Sunderland College, Holmeside Campus - External Cladding Spread of Flame

Please can you confirm below that Reynobond is Class 0 and can you back it up with a data sheet?

Kind regards

Danny McQuaid



M/ [REDACTED]
F/ [REDACTED]

E/ dannymcquaid@taylor.maxwell.co.uk

W/ www.taylormaxwell.co.uk

From: Stephen Canning [<mailto:stephen.canning@ibigroup.com>]

Sent: 27 November 2014 08:36

To: Danny McQuaid

Cc: Barry Robinson

Subject: 6396 Sunderland College, Holmeside Campus - External Cladding Spread of Flame

Hi Danny,

Further to our very interesting meeting yesterday, please find below the related section from the fire engineers report concerning spread of flame;

'3.3 External Walls and Roof

The external surfaces of walls should resist the spread of fire. The external walls of the building should be constructed to achieve Class 0 or to meet class B-s3, d2 or better, for a height up to 10m above ground level and up to 10m above a roof or any part of the building to which the public have access.'

Please can you confirm that the specified Reynobond system complies with this?

Best Regards,

Stephen Canning

Senior Architectural Technician

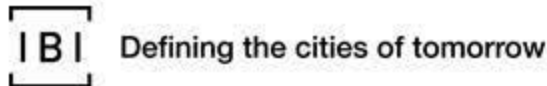
email stephen.canning@ibigroup.com web www.ibigroup.com

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