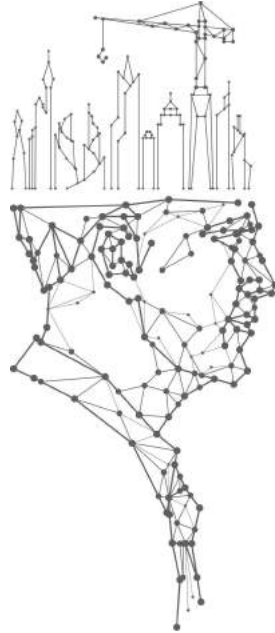


The worlds
Largest ACP
Manufacturer

Visit Alubond.com for enquires

We bring your imagination to life



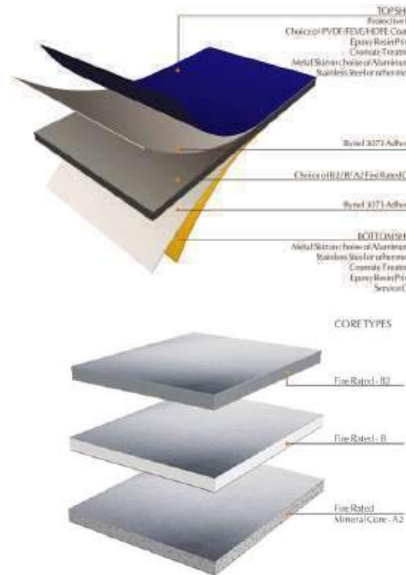
Introduction

Alubond U.S.A is an Aluminum composite Panels (ACP) panels owned by Mulk Holdings.

The company has emerged as the world's largest ACP and MCM brand with twenty five million square meters of manufacturing and processing capacity from it's various facilities in Europe, UAE, Turkey, Ghana & India.

Alubond has also expanded its products to offer a full range of Fire Rated Metal Panels including A2 Mineral Core ACP, B Mineral Core ACP, Solid Aluminum, Honeycomb, Exotic metals MCM in a choice of metal skins like Galvanized Steel, Stainless Steel, Copper, Bronze and Titanium.

The company in addition to production of metal composites also has a complete backward and forward integration manufacturing facilities producing Fire rated Mineral Core, Fire Rated adhesive films and Color Coated coils.



Global Reach

5

PRODUCTION
BASES IN
U.A.E, OMAN, INDIA,
TURKEY & SERBIA



PRODUCTION BASES



MARKETING OFFICES



DISTRIBUTORS

MARKETED &
DISTRIBUTED IN MORE
THAN

90

COUNTRIES



Facilities

PRODUCTION CAPACITY:
25,000,000 M2



6 A2 PRODUCTION
LINES



Intergrated Manufacturing

Coil Coating Lines



Technical Data Sheet



(A UAE CIVIL DEFENSE APPROVED PRODUCT*)

EBI/TDS/001 Rev1
Date :07.05.2017

Alloy Series:
1) 1100 H16 /H18 2) 3105/3003 H16 3) 5005 H16/24

S.NO	PROPERTIES	STANDARD	UNIT/REF	3mm	4mm *	6mm
PRINCIPAL PROPERTIES						
1	Skin thickness	....	mm	0.5mm		
2	Weight	....	±0.5 Kg/m ²	6.2	8.0	11.6
3	Standard Width	....	mm	1000, 1250, 1500		
PRODUCT TOLERANCES						
4	Width	....	mm	±2		
5	Length	....	mm	±3		
6	Thickness	....	mm	±0.2		± 0.3
7	Squareness	....	mm	Max 5		
8	Bow	....	%	±0.5		
MECHANICAL PROPERTIES						
9	Tensile strength	ASTM E8	MPa or N/mm ²	56	43	25
10	0.2% proof stress	ASTM E8	MPa or N/mm ²	47	41	22
11	Elongation	ASTM E8	%	4.8	3.8	2
12	Flexural elasticity, E	ASTM C 393	GPa or kN/mm ²	45	38.5	26
13	Flexural rigidity, E _x I	ASTM C 393	kNmm ² /mm	110	203	395
ACOUSTICAL PROPERTIES						
14	Sound Transmission Loss	ASTM E413	dB	26	27	
15	Sound absorption factor	ISO 354	..	0.05		

S.NO	PROPERTIES	STANDARD	UNIT/REF	3mm	4mm *	6mm
THERMAL PREOPERTIES						
16	Deflection Temperature	ASTM D 648	°C	110		
17	Thermal resistance R	ASTM C518	M ² K/W	0.031		
18	Temperature resistance		°C	-50....+80		
19	Linear Thermal Expansion	EN 1999 1-1	mm/m @100°C	2.4		
CORE FIRE PERFORMANCES						
20	Core	....	.....	Excellent performance Non Combustible Mineral filled core		
21	Reaction to fire	EN 13501-1		A2, S1, d0		
22	Surface Burning Characteristics	ASTM E84	TBW 0300154 & TBW 0300126.2	Class A/ Class 1		
23	Self Ignition Temp	ASTM D 1929		Not Less than 3438C		
24	Exterior Non Load Bearing Wall Assembly	NFPA 285	TBW 0300155& TBW 0300156 & TBW 0300137.2	.....	Passed Various Assembly Tests(Listings Reference: MH-AED-001 & MH-AED-003&MH-AED-004 Rev 0)	
25	Fire Rating	ASTM E119	TBW0200165	....	3 Hrs(Listing Reference :MH -AED-3HR-006 Rev0)	
COATING PERFORMANCES						
26	No. of Coats		.....	Standard 2 Coat / 3 Coat/ 4 Coat		
27	Type/finish		.....	Standard PVDF / FEVE / HDPE		
28	Gloss @60°C	AAMA 2605-13	%	20-40 / 20-80		
29	Adhesion (Dry Condition )		.....	No. Adhesion loss		
30	Pencil hardness		.....	min HB		

Technical Data Sheet



(A UAE CIVIL DEFENSE APPROVED PRODUCT*)

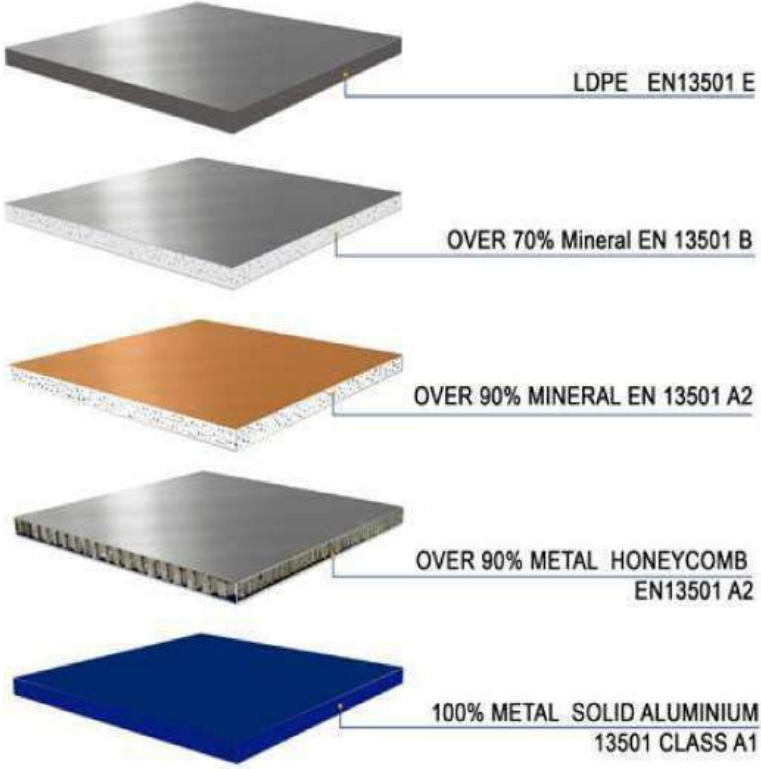
EBI/TDS/002 Rev0
Date :07.05.2017

Alloy Series:
1)1100 H16/H18 2) 3105/3003 H16 3) 5005 H16/24

S.NO	PROPERTIES	STANDARD	UNIT/REF	3mm	4mm*	6mm*
PRINCIPAL PROPERTIES						
1	Skin thickness	.....	mm	0.5mm		
2	Weight	.....	±0.5 Kg/m ²	6	7.5	10.5
3	Standard Width	.....	mm	1000, 1250, 1500		
PRODUCT TOLERANCES						
4	Width	.....	mm	±2		
5	Length	.....	mm	±3		
6	Thickness	.....	mm	±0.2		± 0.3
7	Squareness	.....	mm	Max 5		
8	Bow	.....	%	±0.5		
MECHANICAL PROPERTIES						
9	Tensile strength	ASTM E8	MPa or N/mm ²	60	45	28
10	0.2% proof stress	ASTM E8	MPa or N/mm ²	50	44	25
11	Elongation	ASTM E8	%	6	5	2
12	Flexural elasticity, E	ASTM C 393	GPa or kN/mm ²	48	38	28
13	Flexural rigidity, E _x I	ASTM C 393	kNmm ² /mm	70	135	345
ACOUSTICAL PROPERTIES						
14	Sound Transmission Loss	ASTM E413	dB	25	26	
15	Sound absorption factor	ISO 354	..	0.05		

S.NO	PROPERTIES	STANDARD	UNIT/REF	3mm	4mm*	6mm*
THERMAL PREORTIES						
16	Deflection Temperature	ASTM D 648	°C	115	116	108
17	Thermal resistance R	ASTM C518	M ² K/W	0.03		0.035
18	Temperature resistance		°C	-50...+80		
19	Linear Thermal Expansion	EN 1999 1-1	mm/m @100°C	2.4		
CORE FIRE PERFORMANCES						
20	Core	.....	.....	Excellent performance fire Retardant Mineral filled core		
21	Reaction to fire	EN 13501-1		B, S1, d0		
22	Surface Burning Characteristics	ASTM E84	TBW 0300153 & TBW 0300116.2	Class A/ Class 1		
23	Self Ignition Temp	ASTM D 1929		Not Less than 3430C		
24	Exterior Non Load Bearing Wall Assembly	NFPA 285	TBW 0300129.2 & TBW 0300138	Passed Various Assembly Tests (Listings : MH-AED-002 & MH-AED 005 Rev 0)		
25	Fire Rating	ASTM E119	01.12694.01.307	1 Hrs 42 Mins		
COATING PERFORMANCES						
26	No. of Coats	AAMA 2605-13	.....	Standard 2 Coat / 3 Coat/ 4 Coat		
27	Type/finish		.....	Standard PVDF / FEVE / HDPE		
28	Gloss @60°c		%	20-40 / 20-80		
29	Adhesion (Dry Condition)		.....	No. Adhesion loss		
30	Pencil hardness		.....	min HB		

Different Types of Cores



PERFORMANCE	LDPE EN 13501 E	OVER 70% MINERAL EN 13501 B	OVER 90% MINERAL EN 13501 A2	OVER 90% METAL HONEYCOMB EN13501 A2	100% METAL SOLID ALUMINIUM 13501 CLASS A1
Combustibility Rating	Combustible	Low Combustibility	Non Combustible	Non Combustible	Non Combustible
NFPA 285/ BS 8414 Pass	No	Yes	Yes	Yes	Yes
ASTM E 84 Core Burning Class A Rating	No	Yes	Yes	Yes	Yes
ASTM D 1929 Ignition	No	Yes	Yes	Yes	Yes
EN 13501	E	B	A2	A2	A1
Direct Flame Over 1000°C Fire Penetration	20 Seconds	18 Minutes	30+ Minutes	55 Seconds	30 Seconds



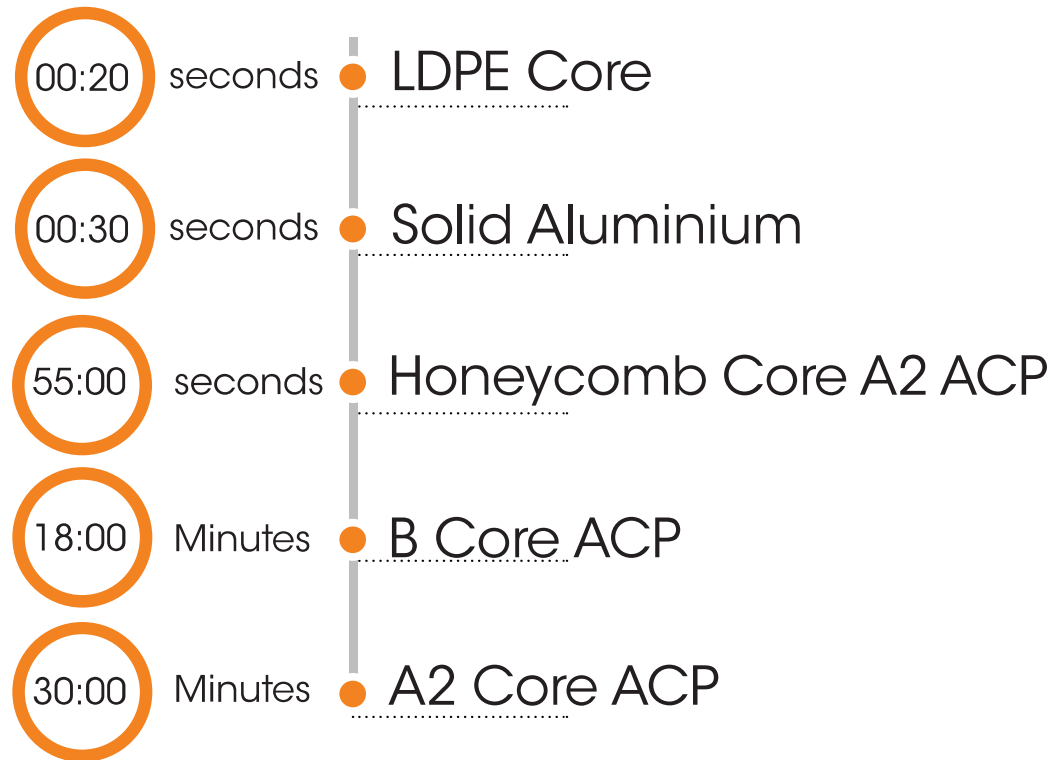
Alubond[®] Canada

Fire Performance

Aluminium Panel Fire Test

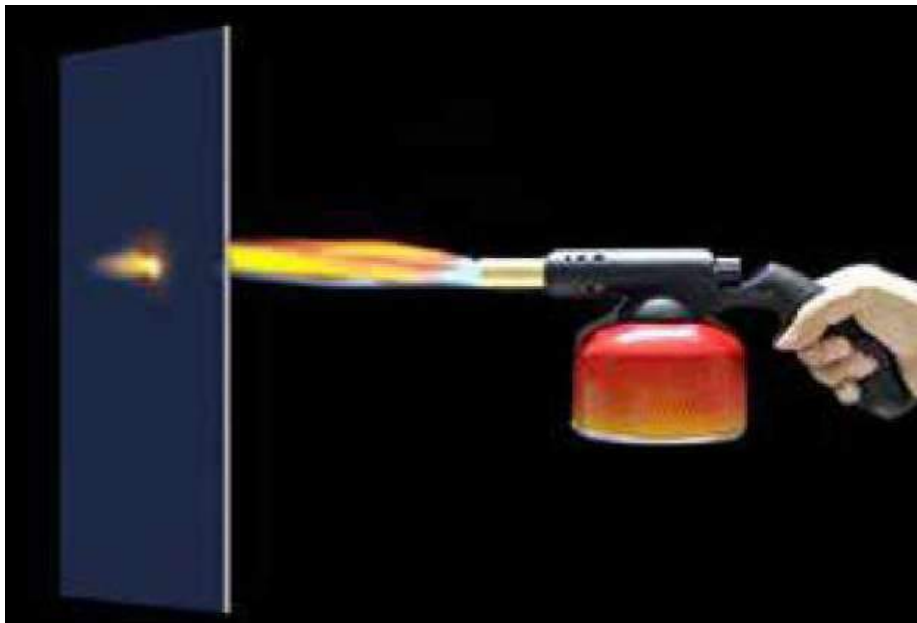
Panel burning test was conducted with direct flame at a temperature of 1500 OC on five different panels. The time the panels withstood fire was recorded as follows.

Time Withstood
by panel

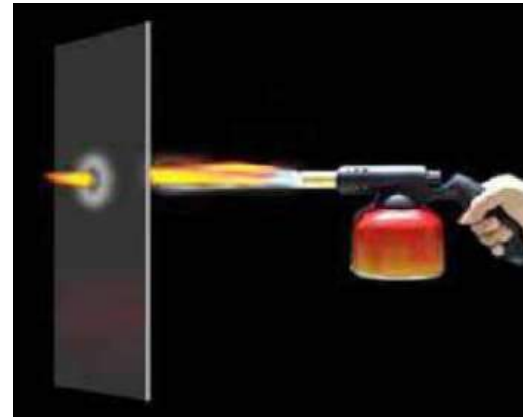


Panels

Aluminium Panel Fire Test



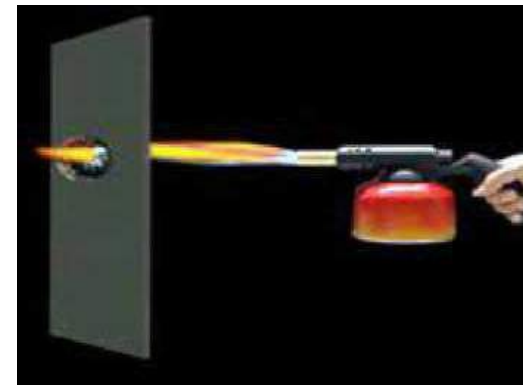
A2 MINERAL CORE - ACP PANEL - FIRE PENETRATED IN 30 MINUTES



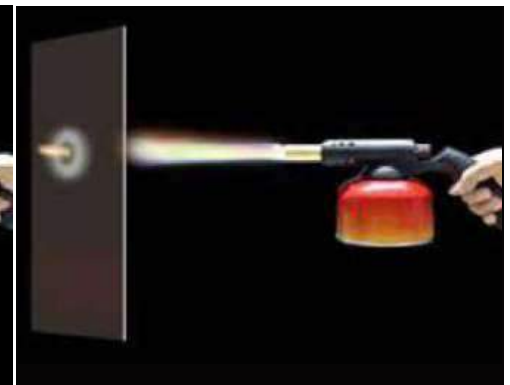
LDPE CORE - ALUMINIUM COMPOSITE
PANEL FIRE PENETRATED IN 20 SECONDS



SOLID ALUMINIUM PANEL FIRE
PENETRATED IN 30 SECONDS



HONEYCOMB PANEL - A2 - FIRE
PENETRATED IN 55 SECONDS



B CORE - ACP PANEL - FIRE PENETRATED
IN 18 MINUTES

EN 13501 - Part 1 (Non-Combustibility Test)

•A full classification serves as the standard of evaluation for the reaction to fire of construction and building materials.

•EN13501 - Part 1 test consists of EN 13823 and BS EN ISO 1716 Tests



EN 13501 - PART ONE : EN ISO 1182
(NON COMBUSTIBILITY TEST)



EN 13501 - PART TWO : EN 13823
SINGLE BURNING ITEM IN A ROOM



EN 13501 - PART THREE : SMALL
FLAME ATTACK



EN 13501 PART FOUR : EN ISO 9239
1 - WIND OPPOSED HORIZONTAL
SPREAD OF FLAME

NFPA 285:2012 STANDARD TEST WITH ANTI SUBSTRUCTURE SYSTEM

•Alubond (Alubond U.S.A A2 & Alubond U.S.A FR Euroclass B) undergoing the NFPA 285 Test in Two International Third Party Laboratories Intek USA and Thomas Bell-Wright International Consultants, U.A.E



NFPA 285 PANEL FACES PRIOR TO
FIRE TEST



EXTERIOR FACE AT 25 MINUTES OF
THE TEST



END OF THE TEST



WALL CAVITY IN WALL ASSEMBLY
AFTER FIRE TEST

FIRE TEST

For Russia Gost R Certificate

Alubond (Alubond U.S.A FR-A2 & Alubond U.S.A FR Euroclass B) has undergone the GOST R Certification in Russia



NFPA 285 PANEL FACES PRIOR TO FIRE TEST



EXTERIOR FACE AT 25 MINUTES OF THE TEST



END OF THE TEST



WALL CAVITY IN WALL ASSEMBLY AFTER FIRE TEST

ASTM E84 -15B : STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF ALUBOND U.S.A (FR-A2, FR-B)



STEINER TUNNEL FIRE MACHINE



FIRE EXPOSED INSIDE TUNNEL



CORE BEFORE THE TEST FIRE SIDE



CORE AFTER TEST (LOCATED NEAR THE FIRE END)



CORE AFTER TEST (LOCATED NEAR THE FIRE END)

CERTIFICATION ALUBOND U.S.A FR-A2



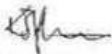
CERTIFICATE OF APPROVAL
No. ME5063

Alubond Turkey
Alubond Aluminyum Kompozit Panel San. Tic. A.S.
Idealtepe Mah. Rifki Tongsir Cad.No:93, Demirhan Plaza,K:1
34841, Maltepe-Istanbul/TURKEY
Tel: + 90 216 518 14 14

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

CERTIFIED PRODUCT	TEST STANDARD
Alubond U.S.A FR-A2	EN 13501-1


Signed and sealed for and on behalf of Warrington Certification Ltd



Sir Ken Knight
Chairman - Management Council
Page 1 of 2

Issued: 21st February 2015
Valid to: 20th February 2020



This certificate is the property of Warrington Certification Limited, Hainefield Road, Warrington, Cheshire WA1 2SS, UK. Registered company No. 0225083.

Exocva Listings : EN 13501-1 : 2007 A2,S1,d0

РОССИЙСКАЯ ФЕДЕРАЦИЯ
СЕРТИФИКАТ СООТВЕТСТВИЯ
(обязательная сертификация)

№ C-RS.ПБ58.B.00550 ТР 1372258
(номер сертификата соответствия) (учетный номер бизнеса)

ЗАЯВИТЕЛЬ Alubond Europe d.o.o. Адрес: Nemanjina No. 130, 26320 Banatski Karlovac, Serbia, (наименование и адрес заявителя) Сербия. Телефон ++ 381 13 651 041 (42, 43), факс ++ 381 13 652 852.

ИЗГОТОВИТЕЛЬ Alubond Europe d.o.o. Адрес: Nemanjina No. 130, 26320 Banatski Karlovac, Serbia, (наименование и адрес изготовителя) Сербия. Телефон ++ 381 13 651 041 (42, 43), факс ++ 381 13 652 852.

ОРГАН ПО СЕРТИФИКАЦИИ ОС "Альфа "Пожарная Безопасность" ООО "Альфа "Пожарная Безопасность" и международные органы по сертификации. "Безопасность", Россия, 301760 Тульская область, г. Донской, ул. Радицкого, д. 1А, тел./факс: +7 (495)648-78-98. ОГРН: 1107154016166. Агрегатор рег. № ТРПБ. RU.ПБ58 выдан 28.12.2010г. МЧС России.

ПОДТВЕРЖДАЕТ, ЧТО ПРОДУКЦИЯ Отстойные алюминиевые композитные панели типа ALUBOND U.S.A FR A2, торговой марки ALUBOND

(информация об объекте сертификации: U.S.A (толщиной от 3 мм до 6 мм), с толщиной алюминиевой композитной оболочки алюминиевых покрывающих слоев от 0,3 мм до 0,5 мм, с отстойным минеральным наполнителем, выпускаемые по GBT 17748-2008 и EN 13501-1. Серийный выпуск.

код ОК 005 (ОКП) 52 7500
код ЕКПЭС
код ТН ВЭД России 7606 11 100 0

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технической регламент о требованиях пожарной безопасности (Федеральный закон от 22.07.2008 N 125-ФЗ) Группы горючести - Г1(слаб горючие) по ГОСТ 30244-94; группы воспламеняемости - В1(трудновоспламеняемые) по ГОСТ 30403-96; группы дымообразующей способности по ГОСТ 12.1.044-89, п. 4.18; группы по токсичности продуктов горения - Г1(безопасные) по ГОСТ 12.1.044-89, п. 4.20 Класс пожарной опасности строительных материалов - КМ1

ПРОВЕДЕННЫЕ ИССЛЕДОВАНИЯ И ИЗМЕРЕНИЯ Протокол сертификационных испытаний № 953-С/ТР от 26.12.2012 г. ИЛ "Альфа "Пожарная Безопасность" ООО "Альфа "Пожарная Безопасность" № ТРПБ.РУ.ИИЧ1 от 28.12.2010 г.

ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ Сертификат Система Менеджмента Качества ГОСТ Р ИСО 9001-2008 № СДСГК RU.OC05.K01473 от 22.11.2012 г.

СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ с 26.12.2012 по 25.12.2015



Руководитель (заместитель руководителя) органа по сертификации
(подпись, наименование, фамилия)

Эксперт (эксперты)
(подпись, наименование, фамилия)

А.А.Гомзов

А.П.Губенко

Russian Gost R Certificate

CERTIFICATION

ALUBOND U.S.A FR-A2



THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS

In accordance with UKAS accreditation to ISO 17065
Certification is Hereby Granted

to

Eurocon Building Industries FZ/E
(a subsidiary of Mulk Holdings F.Z.C Group, Sharjah UAE)
P.O Box 42642, Hamriyah Free Zone, Sharjah, United Arab Emirates

for

"Alubond® U.S.A. FR-A2"
4.0 mm thick Aluminium Composite Material
(ASTM E84-16, ASTM D1929-16 and EN 13501-1:2007+A1:2010)

which, subject to limitations described on the following pages and continued listing on www.tbwcert.com, complies with Product Certification Scheme *SD03 Exterior Wall Assemblies, Cladding, Curtain Walls, Building Materials, Products and Assemblies*

In witness whereof, this Certificate is issued this 16th day of October 2017




Thomas F. Bell-Wright
Certification Director



Nick Purcell
Certification Manager

Certificate Number: TBW0300154.1
Initial registration: March 15, 2017 Issued: October 16, 2017 Expiration: March 14, 2020
File Name: RA011 Eurocon FR-A2 (UAE)_R1_Sml Save Date: 10/15/17 8:06 AM

This certificate and schedules are held in force by regular factory inspections by Thomas Bell-Wright International Consultants (TBWIC). Refer to www.tbwcert.com or contact TBWIC Fire Compliance Division to validate the current status of Certification. This certificate remains the property of THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS, PO BOX 26395, DUBAI, UAE.
Tel: +971 4 333 2692, Email: certification@tbw-wright.com, Web: www.tbw-wright.com E 23 Scheme Certificate Issue 5, Dec 2016
This document must not be reproduced, except in its entirety and with the express permission of Thomas Bell-Wright International Consultants



**THOMAS BELL-WRIGHT LISTINGS: ASTM E84 - Class A,
ASTM D1929 - Self ignition more than 450°C,
EN 13501-1 : 2007-A2,S1,d0**



THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS

In accordance with UKAS accreditation to ISO 17065
Certification is Hereby Granted

to


Eurocon Building Industries FZ/E
(a subsidiary of Mulk Holdings F.Z.C Group, Sharjah UAE)
P.O Box 42642, Hamriyah Freezone, Sharjah UAE

for

"Alubond U.S.A. FR-A2"
Aluminium Composite Material
Non-Load-Bearing Exterior Wall Cladding System
Test Method: NFPA 285-2012 Edition

which, subject to limitations described on the following pages and continued listing on www.tbwcert.com, complies with Product Certification Scheme *SD03 Exterior Wall Assemblies, Cladding, Curtain Walls, Building Materials, Products, and Assemblies*

In witness whereof this Certificate is issued this 15th day of March 2017




Thomas F. Bell-Wright
Certification Director


Nick Purcell
Certification Manager

Certificate Number: TBW0300155
Initial registration: March 15, 2017 Issued: March 15, 2017 Expiration: March 14, 2020
File Name: RA011 Eurocon FR-A2 (UAE) NFPA 285-MechSys Save Date: 3/15/17 2:27 PM

This certificate and schedules are held in force by regular Factory Inspections by Thomas Bell-Wright International Consultants (TBWIC). Refer to www.tbwcert.com or contact TBWIC Fire Compliance Division to validate the current status of Certification. This certificate remains the property of THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS, PO BOX 26395, DUBAI, UAE.
Tel: +971 4 333 2692, Email: certification@tbw-wright.com, Web: www.tbw-wright.com E 23 Scheme Certificate Issue 5, Dec 2016
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THOMAS BELL-WRIGHT LISTINGS: NFPA 285 Passed

CERTIFICATION ALUBOND U.S.A FR Euroclass B

Intertek

Certificate of Compliance

You have been awarded:

Intertek Warnock Hersey Mark for Building Panels
 ASTM E84 (2014) NFPA 285 (2012) ASTM D1929 (2014)

Certificate number: WHI16 – 26553701

Organization:
Eurocon Building Industries FZE (Group of Mulk Holdings International)
 P.O. Box 42642
 Hamryia Free zone - Sharjah, United Arab Emirates

Product: Eurocon - Alubond USA - FR Euroclass B Aluminium Composite Panel
 SPEC ID 35247

For details related to results and allowable configurations, see Appendix A (page 2 of 2 of this certificate)

Certification body: Intertek Testing Services NA, Inc.
 Initial registration: December 04, 2016
 Date of expiry: December 03, 2021
 Issue status: 3

Dustin Behling
 Certification Coordination Manager
 Name Signature Date 12/04/2016

Registered address:
 Intertek Testing Services NA, Inc. 545 E. Algonquin Rd., Arlington Heights, IL 60005 USA

www.intertek.com

The certificate and related information are valid in force for testing services performed only by Intertek Testing & Certification (ITC) and the mark or seal administered herein is subject to audit. This certificate remains the property of Intertek Testing & Certification and shall not be removed from its database. The Certificate is valid only if used in accordance with the terms of the agreement. For any use, extension or change requested at the site of this certificate, only the Client is authorized to amend, modify or terminate the certificate and shall remain fully responsible. This Intertek Certificate shall not be used for any other agreement. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Intertek Testing Services and Intertek are not responsible for the accuracy of secondary approvals except if the Certificate is used in accordance with the agreement. They are not the proprietor of production quality control and do not perform the level of that operation in this respect.

Page 1 of 2

Intertek LISTINGS: NFPA 285 - Passed, ASTM E84 - Class A, ASTM D1929 - Self ignition more than 450°C

Alubond Europe d.o.o.
 Hranjina 130
 25200 Brestnik Karlovac
 Croatia
 Tel: +385 13 652 852 Fax: +385 13 652 852
 email: info@alubond.com
 website: www.alubond.com

BBA APPROVAL
 INSPECTION
 TESTING
 & CERTIFICATION
 TECHNICAL APPROVALS & CERTIFICATION

Agreement Certificate
13/5004
 Product Sheet 2

ALUBOND CLADDING

ALUBOND U.S.A FR-B PVDF COATED COMPOSITE ALUMINIUM CLADDING SHEET

This Agreement Certificate Product Sheet refers to Alubond U.S.A FR-B PVDF Coated Composite Aluminium Cladding Sheet, for use as external cladding or internal lining.

(1) Materials referred to as Certificates

CERTIFICATION INCLUDES:

- factors relating to compliance with building regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal factory review

KEY FACTORS ASSESSED

Strength and stability – The product can resist the surface loadings normally encountered by claddings or linings in the UK (see section 8).

Resistance to mechanical damage – The product has satisfactory resistance to mechanical damage (see section 8).

Properties in relation to fire – The product is not classified as ‘non-combustible’, but can achieve a BS 146 classification to BS EN 13501-1 - 2007 (see section 10).

Weathering/longevity – The product has adequate resistance to the passage of moisture (see section 12).

Durability – Under normal conditions the product will perform effectively as an external cladding with an ultimate life of at least 30 years. The coating will retain a good appearance for at least 20 years in non-corrosive environments and at least 15 years in severe industrial environments (see section 14).

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément:

Date of First Issue: Simon Wice Claire Curtis-Thomas
 Designated as: Head of Approvals – Materials Chief Executive

The BBA is a UKAS accredited certification body – Number 113. The schedule of the current scope of its activities for product certification is available in full format on the UKAS 64 on the BBA website at www.bba.com.uk

THIS IS NOT A VALID AGREEMENT CERTIFICATE. THE BBA ACCEPTS NO RESPONSIBILITY NOR LIABILITY FOR ANY CONCLUSIONS DRAWN FROM, NOR ANY DECISIONS BASED ON, THIS DOCUMENT.

BBA LISTINGS: BS EN 13501-1 : 2007, Class B, S1, d0

certifire

CERTIFICATE OF APPROVAL
No CF 5061

This is to certify that, in accordance with T500 General Requirements for Certification of Fire Protection Products The undermentioned products of:

EUROCON BUILDING INDUSTRIES (MULK HOLDINGS FZC)

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

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

CERTIFIED PRODUCT	TECHNICAL SCHEDULE
Alubond usa FR Euroclass B (4mm and 6mm products)	TS19 Class 0 / Class 1 (BS)

See annex 1 for further product information

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

Paul Duggan
 Certification Manager

Issued: 1st March 2012
 Valid to: 26th September 2017
 Page 1 of 6

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EXOVA LISTING: BS 476 Part 6-class 0, Part 7 - Class 1

CERTIFICATION ALUBOND U.S.A FR Euroclass B

إدارة السلامة الرقابية - قسم إمتداد الشركات

رقم الترخيص: K25
سنة الترخيص: 2018
عدد التراخيص: (4 - 1)

ترخيص وكيل - بإمارة دبي

تم إصدار الترخيص استناداً إلى القرار الوزاري رقم (24) لسنة 2012 ، في شأن تنظيم خدمات الدفاع المدني

اسم الشركة	بوروكون للتجارة	رقم الرخصة	660724	رقم السجل	1084359
اسم صاحب الترخيص	فاطمة اسماعيل احمد الحاج علي المرمرزي	الجنسية	الإمارات	الإمارات	
أطراف الرخصة	***	الجنسية	***	***	
رقم الهاتف	06-5262202	رقم الفاكس	06-5262203	ص.ب:	49990
عنوان الشركة	مكتب رقم 706 احمد محمد الكانم - بر دبي - مملوك رقم الطلعة 127-975				
الموقع / البريد الإلكتروني	ismail@mulkholdings.com				
تأسست بتاريخ	2014/04/03م	تاريخ الإصدار	2018/02/11م	تاريخ الانتهاء	2019/02/14م
عدد المعدات والأجهزة المعتمدة	8				
عدد المهندسين المعتمدين	0				

يعتمد/عن مدير الإدارة العامة للدفاع المدني/دبي

www.dcd.gov.ae

ان تكون دولة الإمارات العربية المتحدة من أفضل دول العالم في تحقيق الأمن والسلامة

حكومة دبي
GOVERNMENT OF DUBAI

دولة الإمارات العربية المتحدة
Dubai Municipality

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality, hereby attests that the product(s)

Alubond USA – FR Euroclass B ALUMINIUM COMPOSITE PANEL 4 mm
Alubond USA – FR Euroclass B ALUMINIUM COMPOSITE PANEL 6 mm

(Details as per the attached Scope of Certification)
manufactured by:
**EUROCON BUILDING INDUSTRIES-FZE
HAMRIYA FREE ZONE – SHARJAH – UAE**

have been assessed in accordance with DCLD Document Ref. No. RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and TAR 122, and were found in conformity with the specification:

Accordingly, DCLD hereby authorizes the above manufacturer to affix the DCL Product Conformity Mark to the above-mentioned product(s).

for / ENGR. AMIN AHMED AMIN
Director, Dubai Central Laboratory Department
Dubai Municipality

Verify:


Certificate No: TAC - 122
Valid until: 07 July 2018

Current Issue Date: 08 July 2017
Original Issue Date: 08 July 2012

The attached Scope of Certification bearing the same Certificate No. forms an integral part of this Certificate.
This Certificate is an electronic document, subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.

F-IC-2031 REV 11

Dubai Civil Defense Approval

Dubai Central Laboratory Certification of Approval

CERTIFICATION ALUBOND U.S.A FR Euroclass B



**THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS**

In accordance with UKAS accreditation to ISO 17065
Certification is Hereby Granted

to

Eurocon Building Industries FZ/E
(a subsidiary of Mulk Holdings F.Z.C Group, Sharjah U.A.E)
P.O. Box 42642
Hamriyah Free Zone, Sharjah, U.A.E. (United Arab Emirates)

for

"Alubond® USA FR-Euro Class B"
4-mm thick Aluminum Composite Material

which, subject to limitations described on the following pages and continued listing on www.tbwcert.com, complies with Product Certification Scheme SD03 Exterior Wall Assemblies, Cladding, Curtain Walls, Building Materials, Products and Assemblies

In witness whereof this Certificate is issued this 27th day of February 2017




Thomas F. Bell-Wright
Certification Director



Nick J. Purcell
Certification Manager



Certificate Number: **TBW0300153**

Initial registration: February 27, 2017 Issued: February 27, 2017 Expiration: February 26, 2020
File Name: Q115 Eurocon Building Industries FR Euroclass B Save Date: 27/02/17 8:54 AM

This certificate and schedules are held in force by regular Factory inspections by Thomas Bell-Wright International Consultants (TBWIC). Refer to www.tbwcert.com or contact TBWIC Fire Compliance Division to validate the current status of Certification. This certificate remains the property of THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS, PO BOX 26485, DUBAI, UAE.
Tel: +971 4 821 1777. Email: certification@tbw-wright.com. Web: www.tbw-wright.com. © 2016 Scheme Certificate Issue 3, Dec 2016
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**THOMAS BELL WRIGHT LISTINGS: ASTM E 84 (CLASS A),
ASTM D 1929 (Self Ignition More than 450°C),
EN 13501-1:2007 (Class B, S1, d0)**



**THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS**

In accordance with UKAS accreditation to ISO 17065
Certification is Hereby Granted

to

Eurocon Building Industries FZ/E
(a subsidiary of Mulk Holdings Group, Sharjah U.A.E)
PO Box 42642, Hamriyah Free Zone, Sharjah U.A.E.

for

"Alubond® U.S.A. FR-Euroclass B"
4mm thick Aluminum Composite Material
Non-Load-Bearing Exterior Wall Cladding System
Test Method: NFPA 285-2012 Edition
(System Designation: A221H61-4)

which, subject to limitations described on the following pages and continued listing on www.tbwcert.com, complies with Product Certification Scheme SD03 Exterior Wall Assemblies, Cladding, Curtain Walls, Building Materials, Products, and Assemblies

In witness whereof this Certificate is issued this 31st day of October 2017




Thomas F. Bell-Wright
Certification Director



Nick Purcell
Certification Manager



Certificate number: **TBW0300245**

Initial registration: October 31, 2017 Issued: October 31, 2017 Expiration: October 30, 2020
File Name: RD109 Eurocon Building Industries NFPA 285 4mm Save Date: 31/10/17 8:09 AM

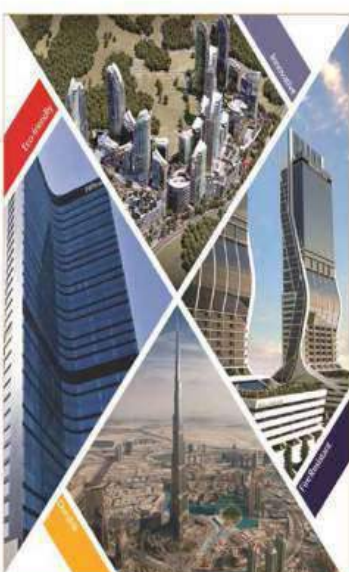
This certificate and schedules are held in force by regular Factory inspections by Thomas Bell-Wright International Consultants (TBWIC). Refer to www.tbwcert.com or contact TBWIC Fire Compliance Division to validate the current status of Certification. This certificate remains the property of THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS, PO BOX 26485, DUBAI, UAE.
Tel: +971 4 821 1777. Email: certification@tbw-wright.com. Web: www.tbw-wright.com. © 2016 Scheme Certificate Issue 3, Dec 2016
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THOMAS BELL WRIGHT LISTINGS: NFPA 285-Passed

Environmental Product Declaration

ENVIRONMENTAL PRODUCT DECLARATION
ALUBOND U.S.A.® FIRE RATED A2
 FIRE RATED ALUMINUM COMPOSITE PANELS
 ALUBOND TURKEY



Alubond
 Fire Rated Metal Composites

Worldwide presence of more than 20 years, cooperation on numerous projects all over the globe, with an annual production capacity of more than 25 million m² created in 8 countries makes Alubond U.S.A.® the World's Largest Metal Composite Brand.

Great potential of showing variety of finishes and highest fire resistant products, wide range of colors and possibilities of individualization makes Alubond U.S.A.® an architect's dream material. The willingness to support sustainability and create eco-friendly products leads us toward constant improvements and innovations. Our 100% recyclable panels meet LEED certification requirements. With special Alubond Green Series™ and our air treatment-conscious production at all units, we are committed to keep on contributing to efforts to make the World more beautiful place.

UL CERTIFIED
 ENVIRONMENTAL PRODUCT DECLARATION

World's Largest Aluminum Composite Panel brand.

UL ENVIRONMENTAL CERTIFICATE

UL CERTIFIED
 ENVIRONMENTAL PRODUCT DECLARATION

EPD Transparency Summary

Alubond U.S.A.®
Cladding System
Fire Rated A2
Fire Resistant Aluminum Composite Panel

UL Product Category Rule (PCR) for preparing an Environmental Product Declaration (EPD) for Product Group Cladding System Products, 2015.

January 12, 2016 – January 12, 2021
4760999271013

LIFECYCLE IMPACT CATEGORIES
 The measurement of impact is based on the weight amount of the product, including the material production, transportation, manufacturing, packaging, use, and disposal at end of life.

ATMOSPHERE	WATER	SMITH
<p>Global Warming Potential (CO₂ eq)</p> <p>Acid Equivalent Potential (H⁺ eq)</p> <p>Photochemical Ozone Potential (C₂H₄ eq)</p> <p>Abiotic Potential (MJ eq)</p> <p>Eutrophication Potential (kg P eq)</p> <p>Depletion of Abiotic Resources (Stranded) (kg eq)</p> <p>Depletion of Abiotic Resources (Peak) (kg eq)</p>	<p>Global Warming Potential (kg CO₂ eq)</p> <p>Acid Equivalent Potential (kg H⁺ eq)</p> <p>Photochemical Ozone Potential (kg C₂H₄ eq)</p> <p>Abiotic Potential (kg MJ eq)</p> <p>Eutrophication Potential (kg P eq)</p> <p>Depletion of Abiotic Resources (Stranded) (kg eq)</p> <p>Depletion of Abiotic Resources (Peak) (kg eq)</p>	<p>Global Warming Potential (kg CO₂ eq)</p> <p>Acid Equivalent Potential (kg H⁺ eq)</p> <p>Photochemical Ozone Potential (kg C₂H₄ eq)</p> <p>Abiotic Potential (kg MJ eq)</p> <p>Eutrophication Potential (kg P eq)</p> <p>Depletion of Abiotic Resources (Stranded) (kg eq)</p> <p>Depletion of Abiotic Resources (Peak) (kg eq)</p>

Environment

UL ENVIRONMENTAL CERTIFICATE

UL **Environment**

MATERIAL CONTENT
 Material content prepared by UL.

COMPONENT	MATERIAL	AVAILABILITY	WASTE	ORIGIN
Top Steel & Bottom Steel	Aluminum	Steel Production	36	Turkey
Core Material	Fire Resistant Mineral Core	Mineral	69	China
Top Steel Coating	PVDF	Polyester Resins	1	Turkey
Bottom Steel Coating	PE	Polyester Resins	1	Turkey

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT %

POST-CONSUMER RECYCLED CONTENT %

WATER CONSUMPTION 2.56E+03 m³

RECYCLING OR REUSE
 All Alubond U.S.A.® FR-A2 composite panel waste generated during manufacturing and at the end-of-life are resulting as recyclable or reusable materials. The aluminum chips occur during using activities are collected and directed to regional recycling services. The Recycled chips leaving the manufacturing system as rate of waste can be taken into the manufacturing system to recycle for the same product production.

ENERGY

RENEWABLE ENERGY	16.41 %	1.41E+03 MJ
NON-RENEWABLE ENERGY	83.59 %	7.34E+03 MJ

STANDARDS
 ISO 9001:2008
 ISO 14001:2004
 ISO 45001:2018
 ISO 9001

CERTIFICATIONS
 BRCGS

MANUFACTURER CONTACT INFO

NAME	Alubond TURKEY (Aluminum Composite Panel)
PHONE	+90 262 748 1420
EMAIL	info@alubond.com.tr
WEBSITE	www.alubond.com.tr

Environment

UL ENVIRONMENTAL CERTIFICATE



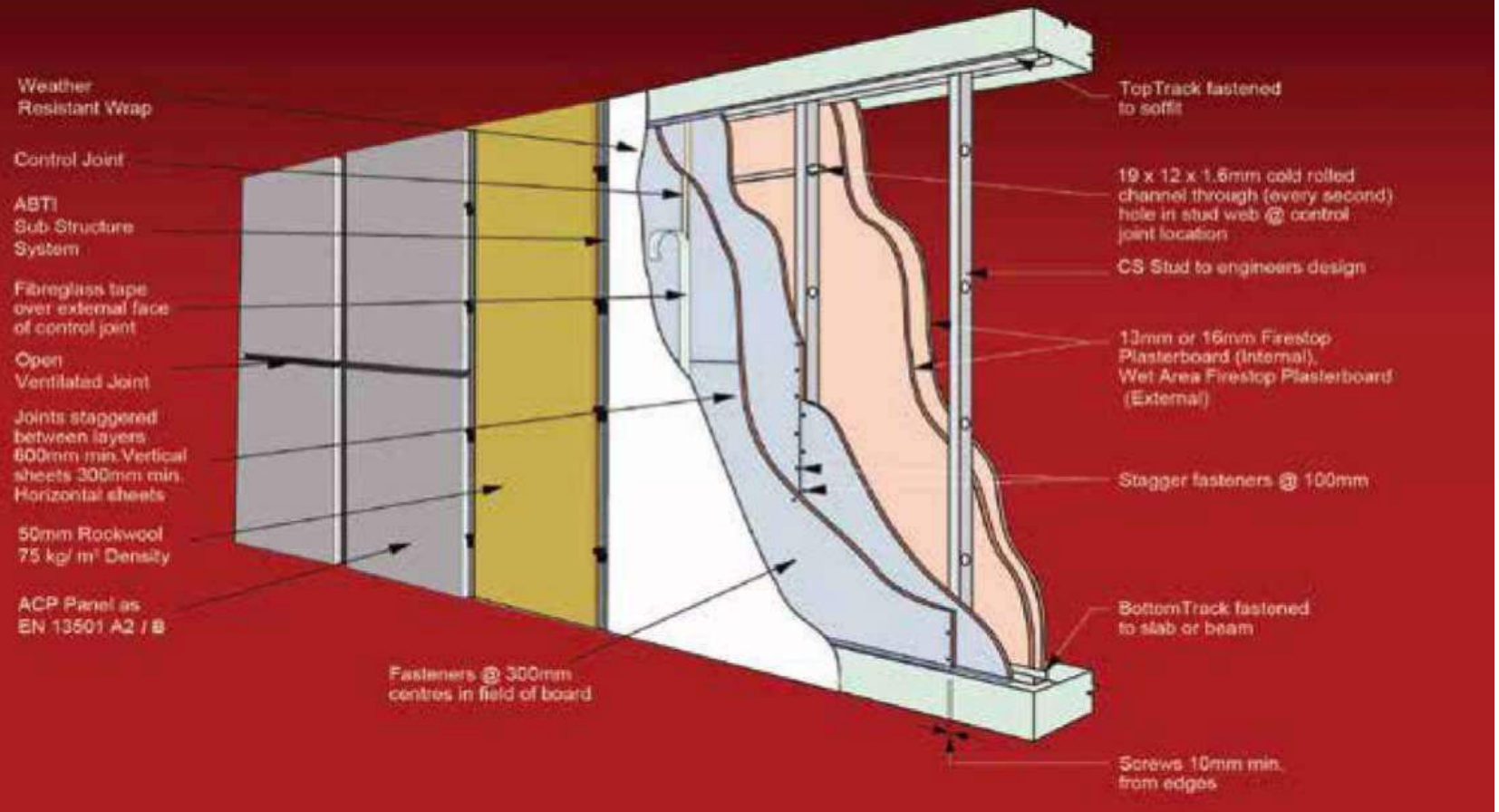
Our Approved Substructure Systems

ALUBOND USA CIVIL DEFENCE APPROVED SYSTEMS

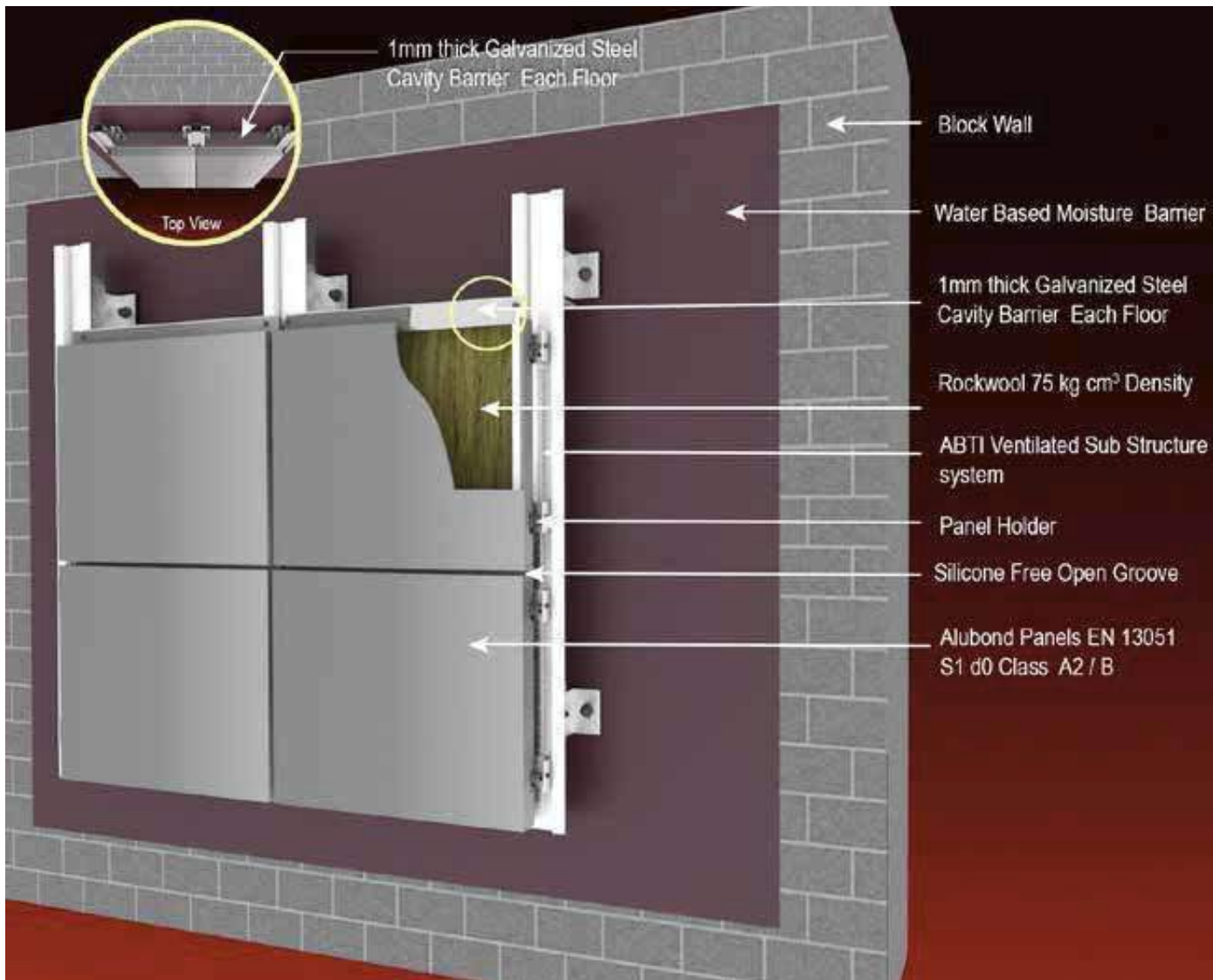
S.NO	ALUBOND USA PRODUCTS REF	CERTIFIED SYSTEM REF DETAILS	CHANGES OF ACCESSERIES INVOLVED IN SYSTEMS
1	4mm Thick Alubond USA FR-A2 (Mechanical closed Joint)-TK	TBW0300137.2	Sealant-Dowcorning 700, GI "U"Channel, insulation 50mm thick and 75 kg/m ³ Density Fujerah Rock wool
2	4mm Thick Alubond USA FR-A2(Mechanical closed Joint)	TBW0300155	Sealant-INCA2460, mineral wool filler, Insulation 50mm thick and 50 kg/m ³ Density Fujerah Rock wool
3	4mm Thick Alubond USA FR-A2 (Open Joint)	TBW0300156	Special Aluminium Profiles with Insulation 50mm thick and 50 kg/m ³ Density Fujairah Rock wool
4	4mm Thick Alubond USA FR-A2 (Mechanical closed Joint)	TBW0300165 (3hRS Fire rated Assembly)	Sealant-INCA2460, mineral wool filler, Insulation 50mm thick and 50 kg/m ³ Density Fujairah Rock wool
5	4mm Thick Alubond USA FR-A2 (Mechanical closed Joint)	TBW0300232	Sealant-Tremco, Al "U" Channel, Insulation 50mm thick and 24 kg/m ³ Density Knauf glass wool with Tube shape Runner

S.NO	ALUBOND USA PRODUCTS REF	CERTIFIED SYSTEM REF DETAILS	CHANGES OF ACCESSERIES INVOLVED IN SYSTEMS
6	6mm Thick Alubond USA FR-A2 (Mechanical closed Joint)	TBW0300212	Sealant-Ever build 825 weather, Al "U" Channel, Insulation 50mm thick and 36 kg/m ³ Density Knauf glass wool
7	4mm Thick Alubond USA FR-Euroclass B (Mechanical closed Joint)	TBW0300245	Sealant-ever build 825 weather, Al "U" Channel, Insulation 50mm thick and 36 kg/m ³ Density Knauf glass wool
8	4mm Thick Alubond USA FR-Euroclass B (Open Joint)	TBW0300129.2	Special Aluminum Profiles with Insulation 50mm thick and 50 kg/m ³ Density Fujairah Rock wool
9	6mm Thick Alubond USA FR-Euroclass B (Mechanical closed Joint)	TBW0300138	Sealant-Dow coming 700, GI "Channel, insulation 50mm thick and 75 kg/m ³ Density Fujairah Rock wool

120 MINUTES RATED FIRE WALL WITH A2/B ALUBOND STONE PANEL CLADDING



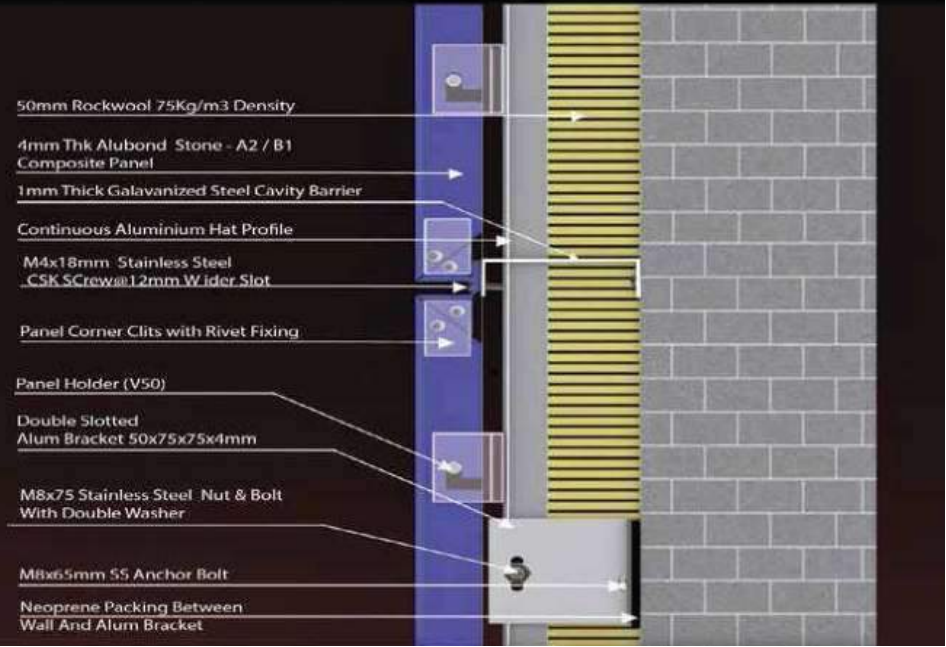
Alubond
U.S.A FR-A2
ACP Cladding



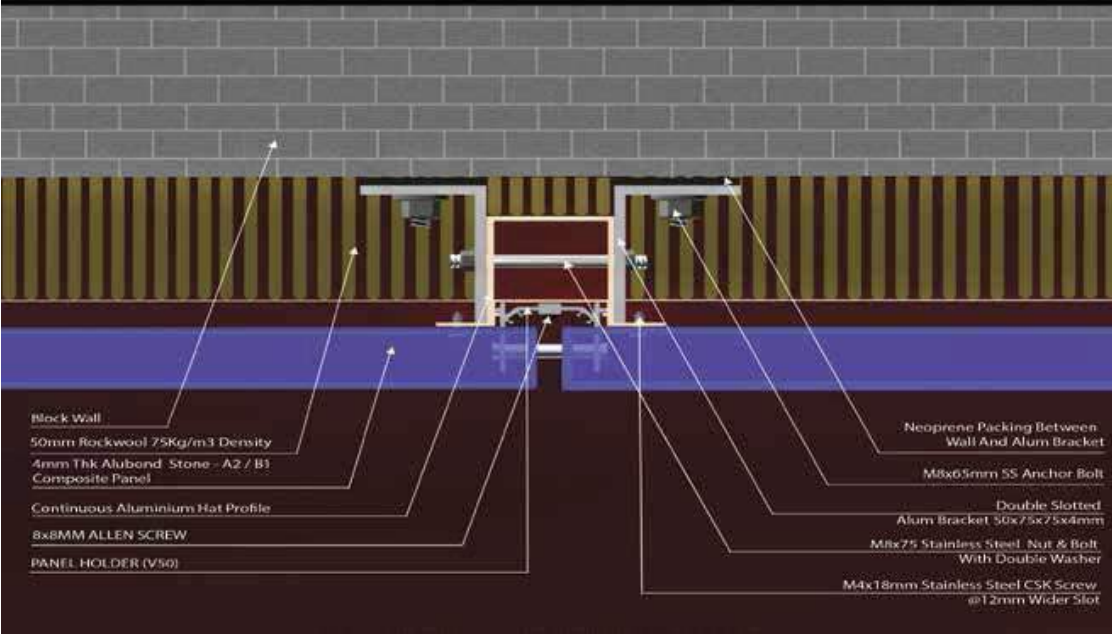
**Silicon Free
Open
Groove
NFPA 285
compliant ventilated
Substructure system
certified by third
party**

Silicon Free Ventilated Open Groove Substructure

ABTI - OPEN GROOVE VENTILATED SYSTEM WITH CAVITY BARRIER EACH FLOOR
TYPICAL PANEL VERTICAL FIXING DETAILS RAIN SCREEN CLADDING

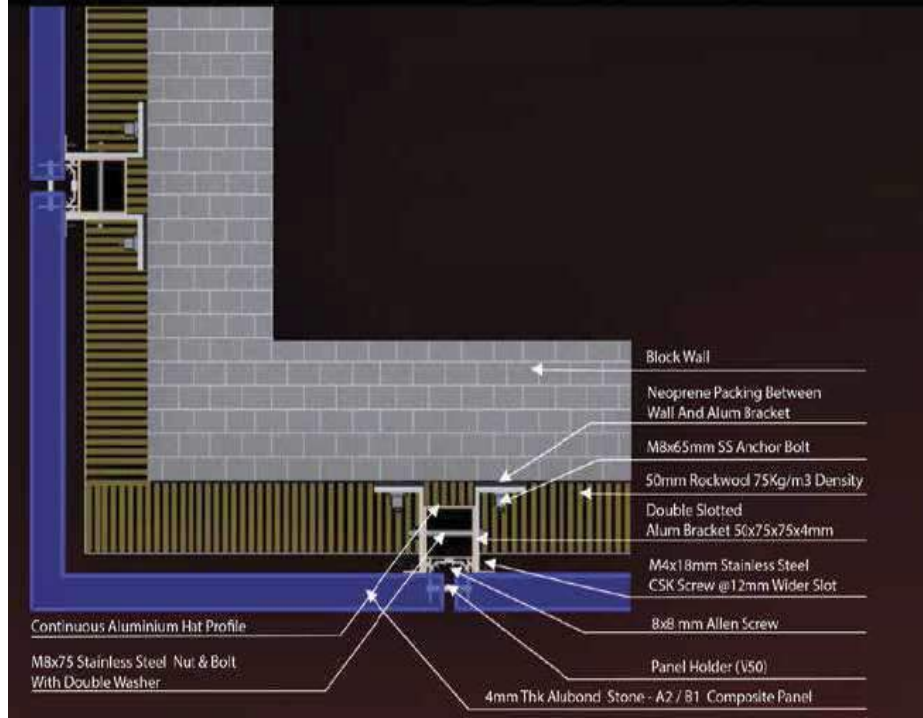


ABTI - OPEN GROOVE VENTILATED SYSTEM
TYPICAL HORIZONTAL FIXING DETAILS RAIN SCREEN CLADDING

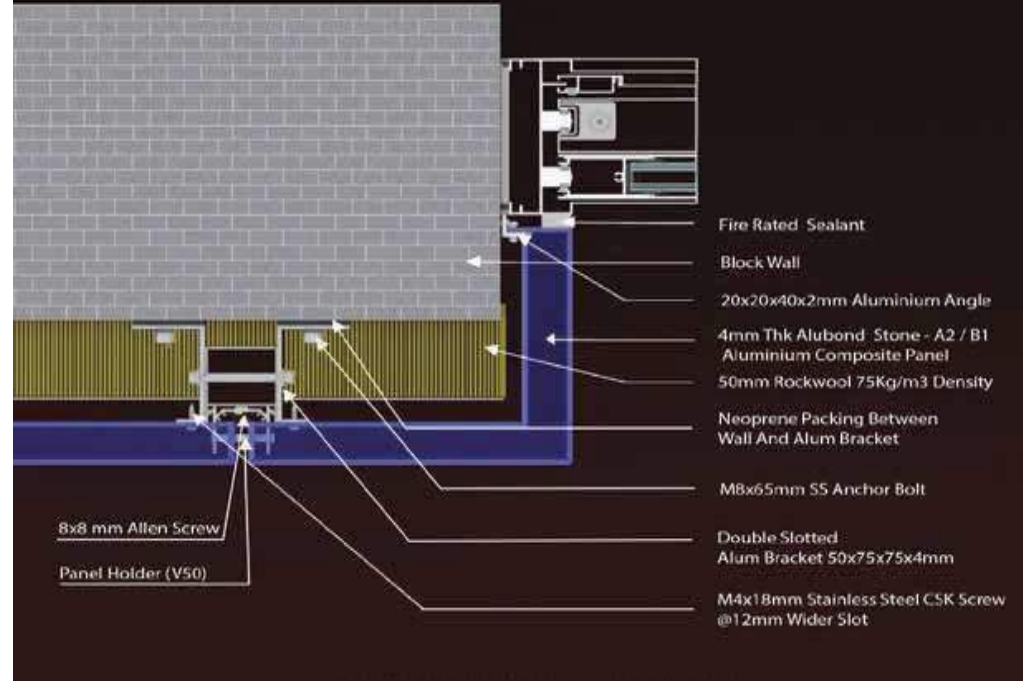


Silicon Free Ventilated Open Groove Substructure

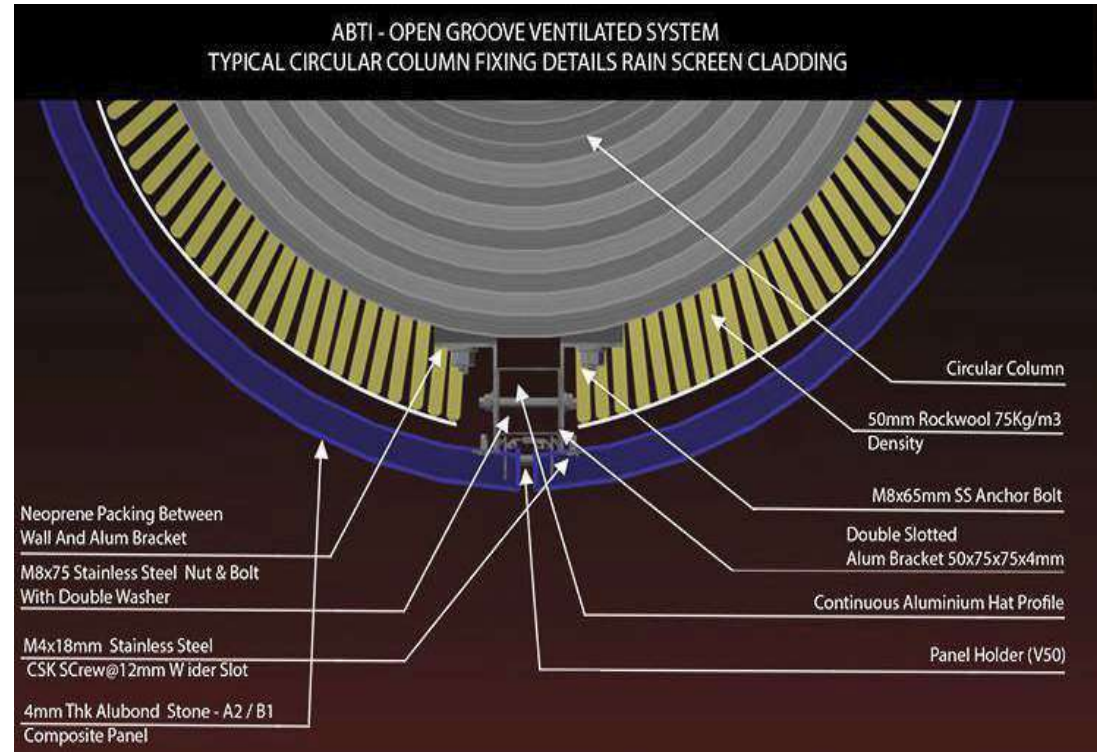
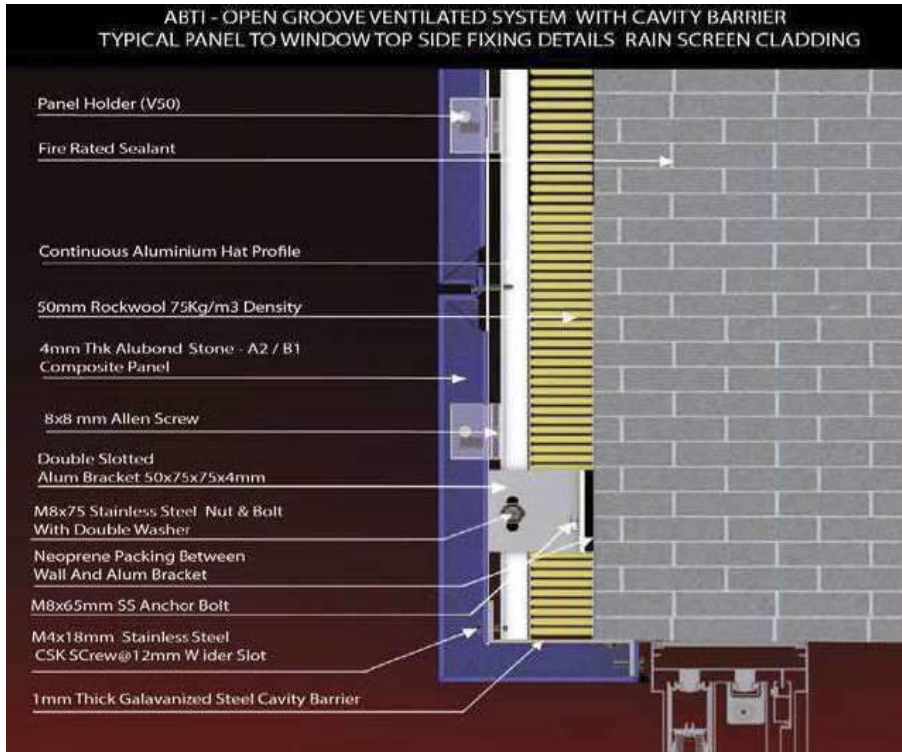
ABTI - OPEN GROOVE VENTILATED SYSTEM
TYPICAL CORNER PANEL FIXING DETAILS RAIN SCREEN CLADDING



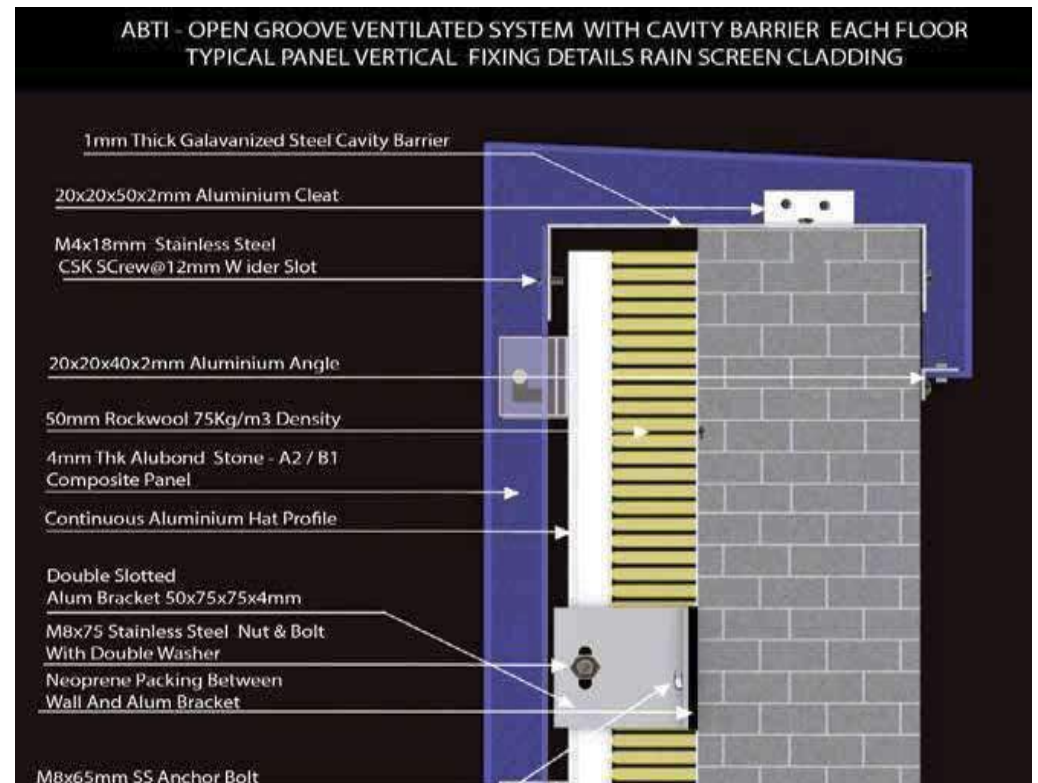
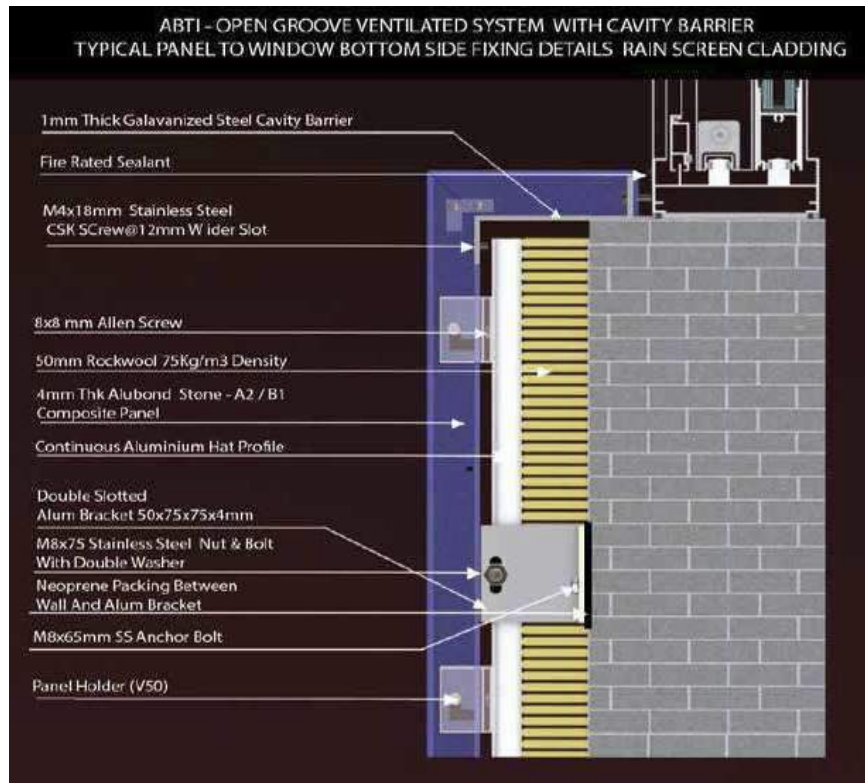
ABTI - OPEN GROOVE VENTILATED SYSTEM
TYPICAL PANEL TO WINDOW PROFILE FIXING DETAILS RAIN SCREEN CLADDING



Silicon Free Ventilated Open Groove Substructure



Silicon Free Ventilated Open Groove Substructure





Alubond[®] Canada

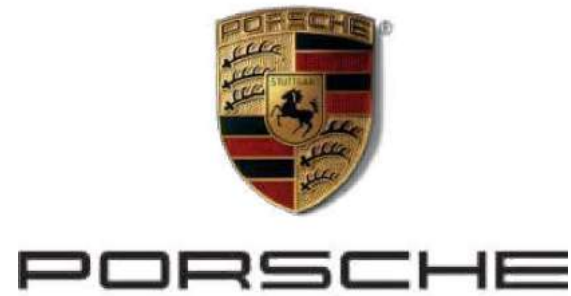
Our Projects

Automotive Showrooms



JAGUAR LAND ROVER
GLOBAL APPROVAL FOR
18000 SHOWROOMS

Automotive Showrooms



AIRPORTS



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AIRPORTS AUTHORITY OF INDIA



Dubai Airports
Connecting the World

مطار أبوظبي
ABU DHABI AIRPORT



مطار الشارقة الدولي
Sharjah International Airport



INDIAN RAILWAYS

INDIAN RAILWAYS APPROVAL
FOR COACH MAKING



PETROL STATIONS



IndianOil

IOCL
APPROVAL
FOR
15,000 PETROL
STATIONS

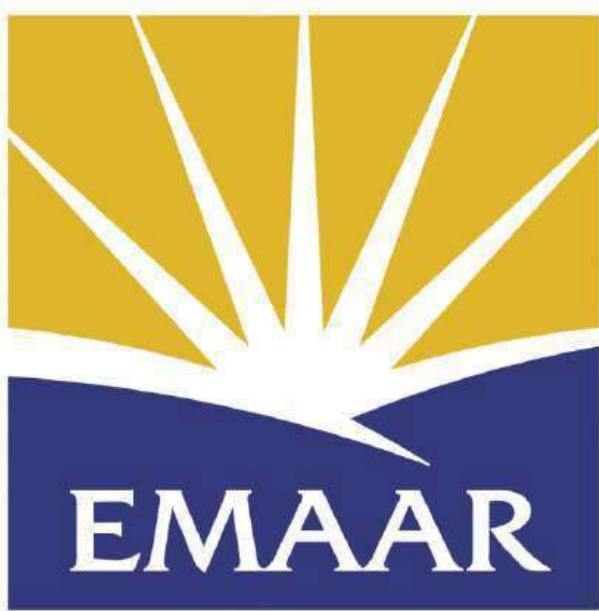


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DAMAC

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MAJOR PROJECTS HIGH RISE BUILDING PROJECTS

- **ZENIT ARENA, ST. PETERSBURG** FIFA World Cup 2018 Football Stadium in Russia
- **BURJ KHALIFA** Dubai, U.A.E
- **ADDRESS HOTEL** Dubai, U.A.E
- **NAMASTE TOWER**, India
- **RED STRIPE BUILDING** Serbia
- **BEA CENTER** Italy
- **FOLKART TOWERS** Istanbul
- **AFRICAN DEVELOPMENT BANK** Ivory Coast
- **YAS MARINA** Abu Dhabi



MAKHTOUM AIRPORT, DUBAI

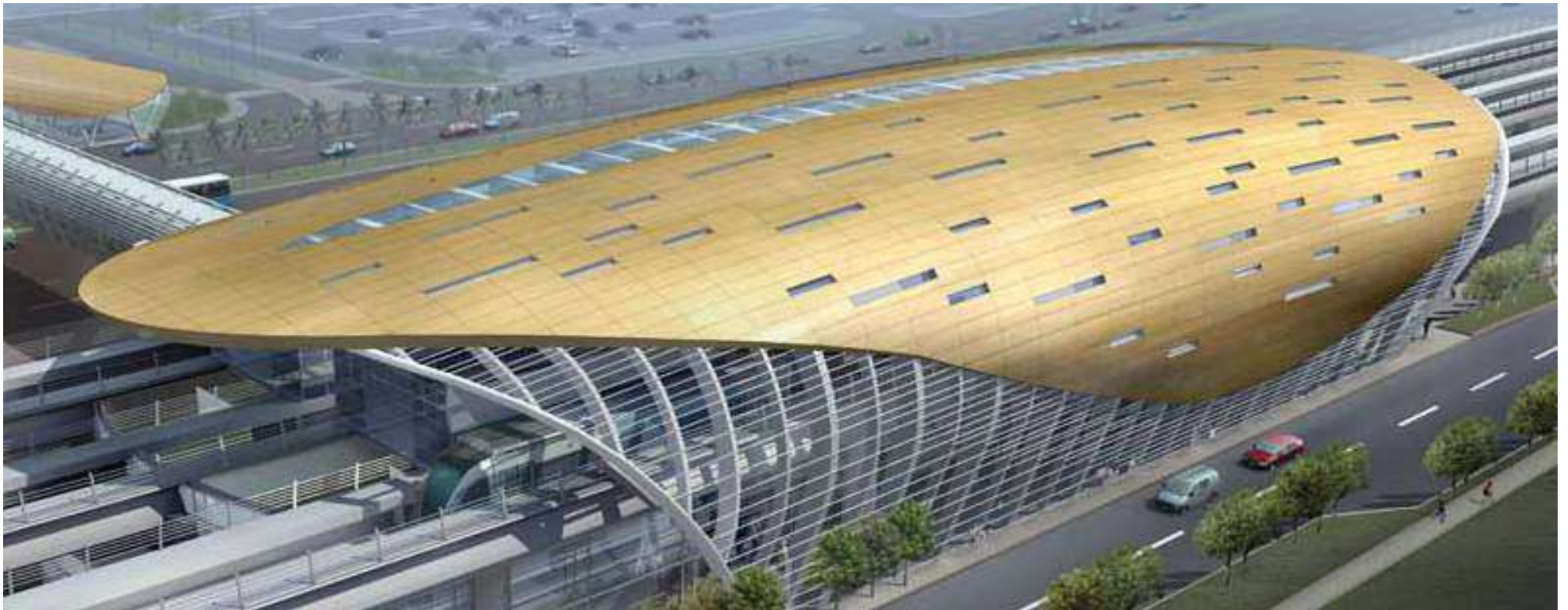


MUMBAI INTERNATIONAL AIRPORT, INDIA





DUBAI METRO



ZENIT ARENA FIFA WORLD CUP STADIUM



NAMASTE TOWER, INDIA



RED STRIPE BUILDING, SERBIA



GOZTEPE HILTON/FOLKART TOWERS, TURKEY



AFRICAN DEVELOPMENT BANK, IVORY COAST



YAS MARINA, ABU DHABI



PROJECT REFERENCES ALUBOND U.S.A FR-A2

MEDICLINIC PARKVIEW HOSPITAL - DUBAI, UAE

Architect: Stantec International

Elite-10 - DUBAI, UAE

Consultant: Barjeel Engineering Consultant

RESIDENTIAL BUILDING, AL BARSHA - DUBAI, UAE

Contractor: Modern Building Contracting Co. LLC

WORLD TRADE CENTRE L.L.C. - DUBAI, UAE

Consultant: WSP Middle East Ltd & Hopkins Architects Dubai Ltd.
Contractor: Al Futtaim Carillion LLC

MANARA TOWER - DUBAI, UAE

ALOFT CITY CENTRE, DEIRA - DUBAI, UAE

Client: Majid Al Futtaim

TIARA UNITED TOWERS, BUSINESS BAY - DUBAI, UAE

Client: Zabeel Investments

NIGHT MARKET & BOARDWALK, DEIRA - DUBAI, UAE

Client: Nakheel Pjsc | Consultant: AE7

RESIDENTIAL BUILDING, NAD AL HAMAR - DUBAI, UAE

Contractor: Naresco Contracting LLC

BAHWAN TOWER DOWNTOWN - DUBAI, UAE

Contractor: Arif & Bintoak Engineering Consultants

ISUZU TRAINING CENTER FACILITY JAFZA - DUBAI, UAE

Consultant: Awaj Engineering Consultants

RESIDENTIAL BUILDING, AL RAWADA - AJMAN, UAE

Consultant: Nakheel Engineering Consultant
Contractor: Int. Contracting

AJMAN HADEEF TOWER - AJMAN, UAE

RAWDHAT RESIDENTIAL BUILDING - ABU DHABI, UAE

Client: Emirates Land Group | Engineering: Sinergo
Consultant: Jla International

PROJECT REFERENCES ALUBOND U.S.A FR-A2

AL WAFRA, AL REEM ISLAND - ABU DHABI, UAE

Consultant: KEO International

Contractor: SEIDCO General Contracting

FOLKART TOWERS - IZMIR, TURKEY

Architect: Ahmet Yagcioglu

ARISTA LIFE - ISTANBUL, TURKEY

Architect: Murat Kader

GOZTEPE HILTON HOTEL - ISTANBUL, TURKEY

Architect: Gokhan Tunc

BUSINESS EDUCATION ACCELERATION CENTER

EDUCATIONAL Building - OLOMOUC, CZECH REPUBLIC

Architect: Ing. Arch. Ladislav Opletal

CONTINENTAL AUTOMOTIVE – ROMANIA

Architect: Adrian Corduneanu

DUMANKAYA MIKS - ISTANBUL, TURKEY

Architect: Tago Architects

PROJECT REFERENCES ALUBOND U.S.A EUROCLASS B

RIBBON, MOTOR CITY - DUBAI, UAE Consultant: Engineering Consulting Group	GREEN PLANET - DUBAI, UAE Consultant: Rambool Middle East
ROVE HOTEL - DUBAI, UAE Consultant: Arch Group	THE ATRIA TOWER BUSINESS BAY - DUBAI, UAE Client: Deyaar Development PJSC | Consultant: AK Design Contractor: Al Rostamani Pegel
MARSA ALSEEF (PHASE 4) - DUBAI, UAE Client: Meraas Development Consultant: WS Atkins & Partners Overseas Contractor: Dutco Balfour Beatty Architect: ATK Engineering Consultants	W HOTEL, PALM JUMEIRAH - DUBAI, UAE Client: Nakheel
PROPOSED COMMERCIAL & RESIDENTIAL BUILDING, AL BARSHA FIRST - DUBAI, UAE Client: Abdul Wahid Hassan Al Rostamani (AW Rostamani) Consultant: Eng. Adnan Saffarini contractor: Al Arif Contracting	SIT TOWER, DUBAI SILICON OASIS - DUBAI, UAE Contractor: Beijing Emirates Intl. Construction Company. Consultant: Eng. Adnan Saffarini
DOME TOWER-JUMEIRAH LAKES TOWERS JLT DUBAI, UAE Contractor: Construction and Re-Construction Engineering Company. Consultant: Qhc Architects & Engineers	NEW DEIRA FISH MARKET-MIXED USE - DUBAI, UAE Contractor: Bhatia General Contracting Company LLC Consultant: Hyder Consulting Middle East Limited.

PROJECT REFERENCES ALUBOND U.S.A EUROCLASS B

BLUE WATERS - DUBAI, UAE Client: MEERAS | Contractor: AFC/HLG	TAMWEEL TOWER - DUBAI, UAE Consultant: Alec
GERMAN SPORTS TOWER 1 - DUBAI, UAE Consultant: Barajeel Engineering Consultants	RAYAN COMPLEX, AL ABBAR, AFTER SAHARA CENTER SHARJAH, UAE
POST OFFICE TOWERS - ABU DHABI, UAE Consultant: Arch Group Engineers	AL SARAYA RESIDENTIAL TOWER - ABU DHABI, UAE
AL MAFRAQ HOSPITAL - ABU DHABI, UAE Contractor: Al Habtoor Leightoor Leighton Group	PREMIER INN HOTEL - ABU DHABI AIRPORT, UAE Consultant: Dewan Architects & Engineers
ALOFT HOTEL - ABU DHABI, UAE Consultant: Arup	BAYNUNAH TOWER - ABU DHABI, UAE Contractor: Pivot Ben Cont W.I.I Consultant: Arkan, Subcontractor: Arabian Ind Co
CENTRO HOTEL - ABU DHABI, UAE Contractor: Polensky & Zoellner Consultant: Ga - Architects & Engineering | Subcontractor: Arabian Ind. Co	SHEIKHA FATIMA COMMERCIAL BUILDING - ABU DHABI, UAE Contractor: CGC | Consultant: Heberger Subcontractor: Arabian Ind. Co

PROJECT REFERENCES ALUBOND U.S.A EUROCLASS B

SHOPPING MALL AT WORKERS VILLAGE, MUSSAFAH M24

ABU DHABI, UAE

Contractor: International Construction Contracting Co. Llc

Consultant: Acg-Architectural Consulting Group

Subcontractor: Arabian Ind Co

AL SARAYA RESIDENTIAL TOWER - ABU DHABI, UAE

Contractor: Arabian Construction Company

Consultant: Architect & Planning Group

Subcontractor: Arabian Ind Co./Reem Emirates

ARZANAH HOSPITAL - ABU DHABI, UAE

Client: Mubadala

Contractor: Habtoor Leighton

Subcontractor: Folcra Beach

CITY OF LIGHTS, REEM ISLAND - ABU DHABI, UAE

Client: Shaikh Tahnoun, Royal Group

FERRARI WORLD YAS MARINA - ABU DHABI, UAE

Contractor: Sixco

MEENA TOWER - ABU DHABI, UAE

Consultant: Dewan Architects & Engineers

AMITY SCHOOL - ABU DHABI, UAE

Consultant: Dewan Architects & Engineers

LUSAIL SPORTS CLUB - QATAR

Consultant: KEO International Consultant



Alubond[®] Canada