3D GLADDING





مقدمة عن المنتج

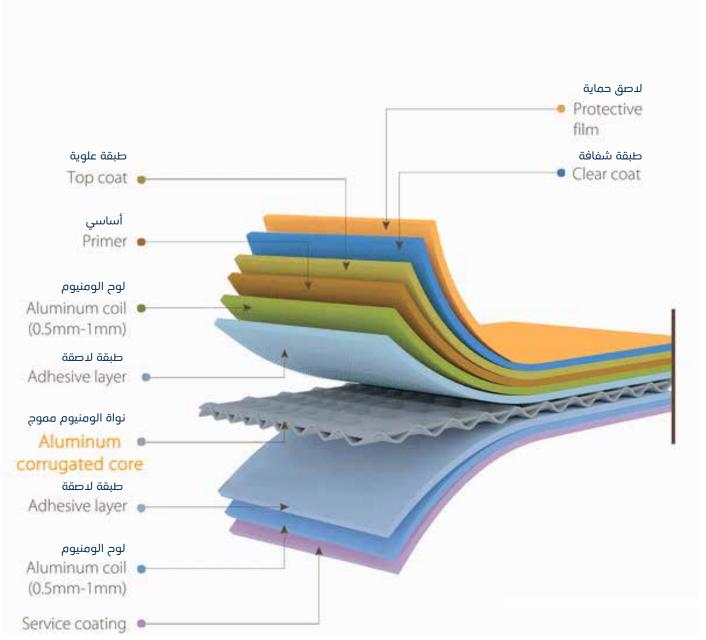
من أجل تنويع منتجات المصنع, قمنا بتشغيل خط انتاج لوح معدني (كلادينج 3D)

يمكــن ان يســتخدم في انتــاج الــواح الالمنيــوم المركبــة, تمتــاز بكونهــا مضــادة للحريــق, خفيفــة, ممشــوقة, قويــة ,كمــا خضعــت لاختبــار SGS وهيئــة المواصفــات والمقاييــس في الســعودية بــكل أمانــة نطمــح أن يكــون المنتــج المنافــس والخدمــة الجيــدة مــن« فــازة بونـــد» يتــم تصديره مــن الريــاض الــى جميــع مناطــق المملكــة, ومــن الســعودية الــى كل انحــاء العالم.

آداء معالجة عالى الجودة:

مــع هيكلــه الفريـــد, يمكــن تصنيــع فــازة بونــد الــى عـــدة اشــكال مثــل الــواح المنيــوم خليــة النحــل والــواح المنيــوم المركبــة لايمكنهــا ان تصــل الــى مثــل هـــذا الثقــب والانحــاء ومــا الــى خلــك. وهـــذا يــزود المصمميــن خيــال واســع لانهــا بحـــد ذاتهــا مــادة مثاليــة لنظــام الواجهــات.





3D Composition

Fazah 3D is not only strong but also aesthetically pleasing

Fazah 3D was designed to address the fire safety requirements of architectural projects while still giving an ultra modern look to the buildings. Available in a wide range of colors, textures and patterns, Fazah 3D adds a touch of elegance to every installed surface. 3D MCP sheets can be customized for your design and color requirements. What's more, new shade development and old shade matching facility is also available.

تمتــاز الوحنــا بالصلابــة كمــا تتمتــع ايضــاً مــن ناحيــة جمالية على حد ســـواء

صممـت الواحنـا لتتناسـب مـع متطلبـات مشــاريع الهندسـة المعماريـة اضافـة لدعطائهـا مظهــرا عصريــا للمبنـى تتوفــر هــذه الالــواح على نطــاق واســع مــن الالــوان , البنيـة والنمــط كمـا تضيــف لمســة مــن الاناقــة لــكل لــوح على حــدى يمكــن عمــل تصميــم يتلائــم مــع رغبـة العميــل مــن ناحيــة التصميــم او اللــون كمــا يمكــن توفيــر كل مـا هــو جديــد مــن درجــات مطــورة او مطابقــة للدرجــات القديمــة.

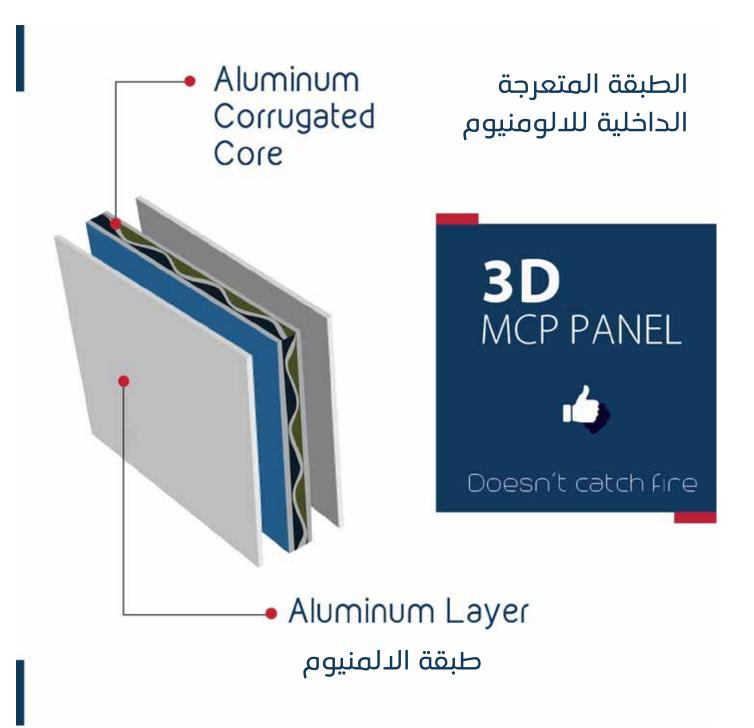
Befriending a Greener Planet

3D MCP is composed of corrugated metal core sandwiched between aluminum sheets. This helps in conserving valuable resources of the nature and makes Fazah 3D MCP an environment friendly product. The testimony to the nature friendly Fazah 3D lies in its acceptability for all green building projects. Fazah 3D is eco-friendly and fully recyclable.

منتج صديق للبيئة

- صفائـــح فــازة بونـــد مكـــون مـــن نـــواة معدنيـــة مموجــة تقـــع بيـــن صفيحتيـــن المونيـــوم وذا يســـاعـدها في صيانـــة المصــادر الطبيعيـــة القيمـــة وايضـــًا يجعـــل مـــن فـــازة بونـــد منتـــج صديـــق للبيئــة .
 - الشهادة على كون فازة بوند صديقة للبيئة تقع في قابليتها أن تكون في جُميع المشاريع .

>> 5

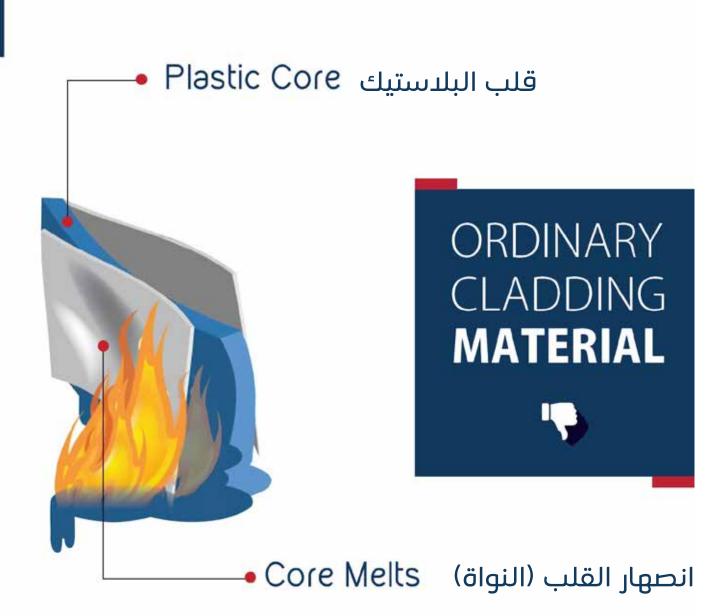


Fazah 3D MCP PANEL

ARMOUR MCP PANELS DOESN'T CATCH FIRE MCP panels are made with aluminum outer layers and corrugated aluminum internal layer which doesn't burn due to no presence of fuel.

ألواح MCP غير قابلة للاحتراق

صنعت الواح MCP مع طبقة الومنيوم خارجية واخرى داخلية ذات تعرجات غير قابلة للاشتعال لعد احتوائها على مواد بترولية



ORDINARY CLADDING MATERIAL

WOOD, HPL, WPC PANELS CATCH FIRE

Wood, HPL, WPC panels are made with aluminum outer layers and inner core layer with plastic, which burns easily.

MCP Extensive Applications

متعددة الاستخدمات

WALLS



الجدران

Interiors and exteriors walls of Homes, Buildings and Towers تستخدم للحوائط (الجدران) الداخلية والخارجية للمنازل ,المبانى ,الابراج

BIG PROJECTS



المشاريع الكبيرة

Armour MCP for Airports, Hotels, Exhibition Halls, Multiplexes تستخدم الواح MSP ايضاً في المطارات ,الفنادق ,القاعات ,المعارض المتعددة

3D FEATURES



SAFETY



آمن

Fire resistant | high impact | BFT guard | environment friendly مقاوم للحريق - مقاوم للصدمات - صديق للبيئة

ECONOMICAL



اقتصادي

Reduce labor cost | long durability | easy installation | low maintenance

تقليل من تكلفة العمالة - طويل الأمل - سهل التركيب - لديحتاج الى صيانة دورية

AESTHETIC



ذات منظر جمالی

Excellent flatness | scratch proof | uniform color | stain resistant | water proof

مسطحة تماماً - مضادة للخدوش - مضادة للماء - ذات لون موحد - مقاومة للأتربة

BEST IN CLASS



فرید من نوعه

Light weight & rigid | highly adaptable | washable | customizable colors | sound & thermal resistant

يتمتع بالصلابة وخفة الوزن - قابل للتكيف بشكل عام - توفير الالوان حسب الطلب - عازل للصوت والصرارة



HEAT INSULATION AND ENERGY SAVING PROPERTY

عزل حراري - وحفظ الطاقة

FIREPROOF PROPERTY



مضاد للهب

Fireproof property is classified "A2 grade"

خاصية مضادة للهب - مصنفة في الدرجة الثانية A2

TOUGH COHESIVE BOND



قاسی متماسك

180 peeling resistance 2-3 times more than aluminum honeycomb panel's.

180 مقاومة للتقشير في 2 - 3 مرات أكثر من الواح المنيوم خلية النحل

SOUND INSULATION



عزل الصوت

Sound transmission loss is 40dB It is 25-28dB more than solid aluminum sheet

فقدان الارسال الصوتي 40 ديسيبل وهو من 25 الى 28 ديسيبل اكثر من صفيحة المنيوم صلبة

CONVENIENT INSTALLATION



سهولة التركيب

Safe installation method | 40% lighter than comparable fire rated panels. | easy to transport & install.

طريقة تركيب أمنة - أخف بنسبة 40 % مقارنة بالالواح المقاومة للحريق

3D MCP PANEL SPECIFICATIONS مواصفات الواح

3D MCP	PANEL DIMENSIONS	أبعاد الالواح
القياسات المعيارية Standard Sizes	1250 mm X 5600 mm	
سماكة الصفيحة Panel Thickness	4 mm, 5 mm & 6 mm	
سماكة القشرة Skin Thickness	0.5 mm	

3D MCP		PANEL TOLERANCE	أبعاد الالواح
Width	العرض	± 0.2mm	
Length	الطول	± 0.2mm	
Thickness	السماكة	± 0.2mm	
Skin	القشرة	± 0.2mm	

Custom colors & grades can be produced on demand.

Length: Up to 6000 mm (On order)

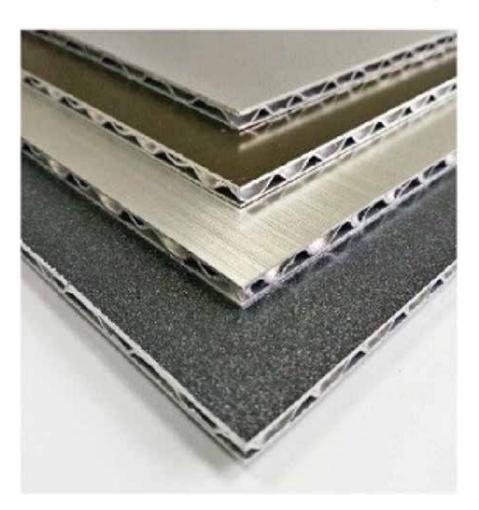
تــم تطويــر ألــواح الألمونيــوم المركبــة «كلادينـــج» ذات التعرجــات الداخليــة مــن «فــازة بونـــد» و التــي لا تكلــف مبالغًــا ضخمــة رغــم تميزهــا بمقاومتهــا للحريـــق، قـــوة هيكلهــا و خفــة وزنهــا مقارنــة بســابقتها.

تتشــكل ألــواح «فــازة بونـــد» المطــورة مــن مزيــج خالــص مــن المــواد المعدنيــة بــلـــ أيــة إضافــات لمكونــات بلاســـتيكية، كمــا تعتبــر صديقــةً للبيئــة ١٠٠٪ و مضــادة للحريـــق، إضافــةً إلــى ســهولة التركيـــب كمــا هـــو الحـــال مــع منتــج «فــازة بونـــد».

مُنحـــت ألـــواح الألمونيـــوم المركبـــة «فـــازة بونـــد» علامـــة الجـــودة الســـعودية لمطابقتهــــا المواصفـــات الســـعودية.

مايميــز هـــذا المنتــج هــو جــودة الســطح والتــي يمكنهــا محــاكاة الأســطح الحجريــة، الخشــبية و غيرهــا.





Specification

Total Thickness	Top Alu Skin	Bottom Alu Skin	Width	Standard Length
4mm	0.5-1.0mm	0.4-1.0mm	1250	5600 or customized
5mm	U,5+1,0mm	U.4-1.0mm	1250 mm	3000 of custofffized

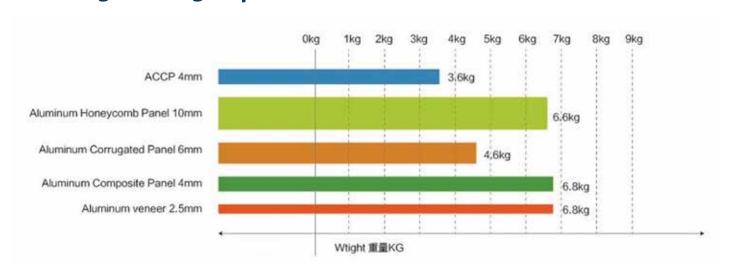
Minimum Order:800 n²/Width/Color for the standard width

[&]quot;"Customized width will be discussed separately.

الهيكل العلوي/ البنية العلوية

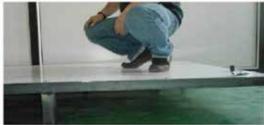
يتفــرد منتــج فــازة بونــد المطــور بقــوة هيكلــه والتــي تضاعــف في قوتهــا ألــواح الألمونيــوم ذات التعرجــات الداخليــة و ألــواح الألمونيــوم المركبــة.

Light weight per unit area



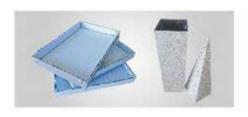
Super Structure







High quality processing performance







Flatness Compairson

Wall







Ceilling





Droop test







SGS TEST



No.: XMIN180300584CCM

Date: May.02, 2018

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CUSTOMER NAME:

FAZAH INDUSTRIAL COMPANY

ADDRESS:

SECOND INDUSTRIAL AREA, RIYADH SAUDI ARABIA

Sample Name

3D-ALUMINIUM CORE COMPOSITE PANEL FR A2

Manufacturer

FAZAH INDUSTRIAL COMPANY (SAUDI ARABIA)

Material and Mark

FAZAH BOND FR A2 ACP

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No.

: SDHL1804006333FB

Date of Receipt

: Mar.30, 2018

Testing Start Date Testing End Date : Apr.08, 2018 : Apr.18, 2018

Test result(s)

: For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments				
1	ASTM E84-17	Class A	/				
2	ISO 1182:2010	/	/				
For f	For further details, please refer to the following page(s)						

****** To be continued*******

Signed for

SGS-CSTC Standards Technical Services Co., Ltd Xiamen Branch

Testing Center

Civi Huang

Authorized signatory



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Test 1

Test Conducted:

This test was conducted in accordance with ASTM E84-17 Standard Test Method for Surface Burning Characteristics of Building Materials

Introduction:

The method, designated as ASTM E84-17, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

Test Procedure:

The tunnel is preheated to 150 °F, as measured by the floor-embedded thermocouple located 23.25 feet downstream of the burner ports, and allowed to cool to 105 °F, as measured by the floor-embedded thermocouple located 13 feet from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 24 feet long, 12 inches above the floor. The lid is then lowered into place.

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 15 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 min·ft, FSI = 0.515·A; if greater, FSI = 4900/(195-A). Smoke developed is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, arbitrarily established as 0 and 100, respectively.

Sample Description:

Thickness	:	Approximately 4mm
Exposed face	:	Sample face

****** To be continued******



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Sample Preparation:

Prior to testing, the specimen was conditioned to constant weight at a temperature of 73 \pm 5 °F (23 \pm 3°C) and a relative humidity of 50 ± 5%.

The test specimen consisted of a total of 3 sections of material. The sections were butted together during testing to form the requisite specimen length. The specimen was self-supporting on the ledges of the test chamber.

Test Results:

Test data and observations:

Maximum flame spread (ft):

Time To Maximum Spread:

57 seconds.

Fallout:

None

Test Duration:

10 minutes.

FS*Time area (ft*min):

9.5

Smoke area (%A*min):

smoke

4.5

Red oak area

90.8

(%A*min):

Summary of results:

Flame-spread Index (FSI)	Smoke-developed Index (SDI)	
5	5	

****** To be continued*******



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Rating:

The National Fire Protection Association Life Safety Code 101, "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with NFPA 255, (ASTM E84) "Method of Test of Surface Burning Characteristics of Building Materials".

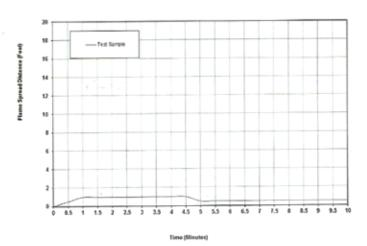
The classifications are as follows:

	Flame-Spread Index (FSI)	Smoke-developed Index(SDI)	
Class A	0 - 25	0 - 450	
Class B	26 - 75	0 - 450	
Class C	76 - 200	0 - 450	

Conclusion:

Refer to the National Fire Protection Association Life Safety Code 101, "Interior Wall and Ceiling Finish Classification", the submitted sample meets the requirement of Class A.

Appendix 1-Graphs:





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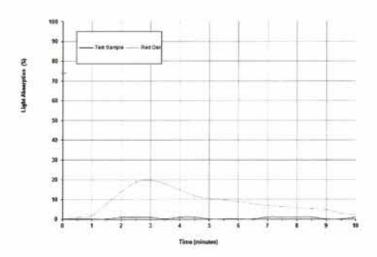




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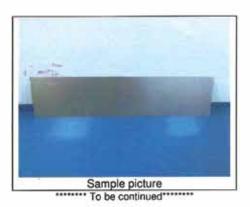
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Graph2. Smoke Developed Index

Appendix 2-Pictures:





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Test 2

Test Conducted:
This test is conducted accordance with ISO 1182:2010 Reaction to fire tests for products-Noncombustibility.

Conditioning of specimen:
Preconditioning: Temperature: (60±5) °C; Duration: 24h

Test Results:

Specimen	ΔT _f (°C)	ΔT _c (°C)	ΔTs (°C)	Mass loss (%)	Flame continuance (s)
1	102.9	77.3	88.3	53	187
2	76.0	78.1	75.4	60	201
3	85.8	80.3	76.3	58	197
4	78.9	88.4	82.4	62	200
5	95.9	90.3	81.4	55	180
Average	87.9	82.9	82.8	57	193

Remark: ΔT_1 -Temperature rise of the maximum furnace thermocouples above the final furnace temperature;

- ΔT_c -Temperature rise of the maximum specimen centre thermocouples above the final specimen centre temperature;
- ΔTs-Temperature rise of the maximum specimen surface thermocouple above the final specimen surface temperature;

Mass Loss (%) =[initial mass (g) - mass after testing (g)]/ initial mass (g) x 100%;

Flame continuance (s): the total duration of sustained flaming. Note: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.

To be continued*******



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Sample Pictures:



SGS authenticate the photos on original report only End of report







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