Alrayyan Panels

PREQUALIFICATION DOCUMENT FOR ALUMINIUM COMPOSITE PANELS MANUFACTURED BY ALRAYYAN PANELS FOR INDUSTRY COMPANY

Brand: QNAP FR CERTIFIED ISO 9001, 14001 & ISO 45001

Contact: Mr. Hariprakash Mayurjyothiprakash

Operation Manager

Tel. : ++966 558858769

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Alrayyan Panels

ALRAYYAN PANELS FOR INDUSTRY COMPANY welcomes you to our world class facility for manufacturing Aluminum Composite Panels and Coated Aluminum Coils.

A venture that brings about ultimate products with celebrated Far-Eastern technology is now manufactured independently in the Kingdom of Saudi Arabia.

Alrayyan Panels is serving local and GCC markets with our Hi-tech products Aluminum Composite Panels, Corrugated Metal Core Aluminum Composite Panels (Non-combustible), Coated Aluminum Coils and variety of subsequent products for diverse applications with tailored perfection out of fully automated machinery.

Hi-Tech installation services for our products, with required perfection, by blending skilled manpower and latest technology, we offer Aesthetic Architectural Creations by combining our unique products, cutting-edge technology and quality service.

We are proud member of "**National Group**" under the wise leadership of vibrant business magnate with powerful and deep roots in the region, **Hon. Sheikh Naïf Bin Ali Al-Thani (Chairman)**. Our group is operating in the industry at our best with an obligation to the society and the nation. We always care to give a "**National Touch**" for every task we handle. We are committed to adapt changes in technology, vision, participation etc. in time; with an aspiration and longing to provide quality products and services to be an iconic idol.

Direction and visions of leaders with abundant experience in the local and international manufacturing industry assure effective and exceptional management of committed tasks.

Our internationally acknowledged 'Quality Management System' provides committed service with outstanding quality.

"BUILDING A BETTER FUTURE"

These days' creative designers and the government authorities are demanding more improved (ever flatter, larger, easily fabricated and maintaining stringent fire code requirement) products for the construction industries especially for the curtain wall system. As a proud member of National Group, Alrayyan Panels introduced another milestone in the manufacturing Industry in the Kingdom of Saudi Arabia.

Alrayyan Panels provides State-of-the Art Metal Composite Panels in various sizes and finishes. It is one of the best designer solutions for architectural needs. A perfect combination Aluminum sheets with PE / Mineral / Metal Core for specific applications, all products are available in standard as well as customized sizes with full respect to en ironmen al preser a ion

MAJOR APPLICATIONS

- **Wall Cladding: airport, stadium etc.**
- **False ceiling**
- **Interior partitions**
- **Building facades**
- **Embossing of complex structures**
- **Display stands**

Metal composite panels are materials consist of two layers of light gage metal: mostly aluminum or stainless steel, filled with a foam or mineral or Aluminum corrugated core material. These panels are formed through continuous co-extrusion and laminating process provides high mechanical and chemical bonding. ACP is available in various colors and finishes with high quality coatings of Lumiflon, PVDF (Kynar 500), and Polyester etc.

We offers Aluminum Composite Panels with Non fire rated and fire rated, Corrugated Metal Core Aluminum Composite Panels (Fire Proof), Stainless Steel Composite Panels and variety of subsequent products for diverse applications with ultimate perfection out of fully automated machinery, and meeting the high building material standards'

ADVANTAGES OF ALRAYYAN PANELS PRODUCTS

Metal Composite Panels are hi-tech and highly sophisticated items which are best suited to be designated as 'Building material of the era'. There are several advantages for the Composite panels which make it superior to conventional materials and methods.

1. Light weight and Compact when comparing to conventional materials; this property makes it easy and convenient to use.
2. Metal Composite Panels are eco-friendly materials which has no emissions, radiations and pollution are fully recyclable materials as well.
3. Size, structure light weightiness etc of composite panels attributes to reduce the construction period as it can be installed easily.
4. Metal Composite Panels are economical means of curtain walling when comparing to traditional and other contemporary methods such as Concrete / Bricks, Metal, Glass etc.
5. Composite panels provide a good aesthetic solution gives architecture a glamorous look in comparison to customary tactics.
6. Apart from traditional materials Metal Composite Panels are easy to maintain as it can be cleaned by water and common detergent.
7. Non corrosive metals and toughness of PVDF coating contributes high resistance to natural climatic / weather effects.
8. Property of flexibility in combination with high strength contributes Composite panels with easy to shape into complex designs; this flexibility which makes Composite materials a dream of architects.
9. Composite Panels are highly durable materials, made of highly corrosion resistant metals and strong abrasion and weather resistive coating PVDF / Polyester. PVDF coated panels have guarantee minimum 20 years of trouble free life for coating while High grade UV resistant Polyester Coating assures minimum 10 years life span.
10. Composite Panels envelops the buildings and provides better protection to it than conventional materials, from external interference of weather etc.

Alrayyan Panels

PLANT AND MACHINERIES

PLANT, MACHINERY & EQUIPMENTS

Metal Composite panels are composed of PE /FR / Metal Core materials sandwiched between two layers of light gauge metal sheets. Recently Composite materials become one of the essential architectural solutions in the construction industry.

Alrayyan Panels as the foremost plant in KSA for manufacturing Composite panels is specialized in producing both LDPE/FR and Corrugated core Composite Panels.

Our products are manufactured by fully automatic state of the art machinery ensures high quality unique products. Machinery is fully controlled by computerized operating system.

ACP Line Machine Specification					
SN	Machine Name	Purpose/Scope	Capacity	No. of Set	Remarks
1	Extruding Machine Ø 160	Material melting		1	
2	Extruding Machine Ø 90	Glue melting		1	
3	Material Mixer	Blending/Mixing		1	
4	Vacuum material suction machine	For material supply to hopper		2	For FR/PE and Glue
5	Hot Wind Hopper	Material Pre-heating		2	For FR/PE and Glue
6	T-Die	Molten material flow		1	
7	Temperature Control System	Control Temp At different section		1	
8	Uncoiled	Strip uncoiling		2	For top and bottom
9	Tension control system	Control line tension			
10	Shearing Unit	Guide the strip			
11	Tension Roll	Provide tension to strip and preheating		2 pairs	for top and bottom
12	Polishing roll unit	Maintain the thickness		1	
13	Driving Unit # 01	Drive the line to forward direction		1	
14	Sinco Oven			1	
15	Cooling roll unit	Chill the sheets		1	Used for SINCO
16	Air Cooling Oven	Cooling the sheets		1	
17	Side trimming unit	Cut extra width		2	for both side
18	Protective film covering	Film application		2	
19	Driving Unit # 01	Drive the line to forward direction		1	
20	Protective trimming unit	To cut extra width		1	
21	Side trimmer	To cut extra width		1	
22	Dust collector	Collect dusts		1	
23	Cutting Unit	To cut the sheets		1	
24	Automatic measuring system	Measure the required length		1	
25	Forward moving conveyer	Remove the sheets from line		1	
26	Side Conveyer	Remove the sheets from running conveyer		1	
27	Stacker unit			1	
28	Compressor	To supply compressed air		1	
29	Water temperature control system	Maintain constant temp of Water		1	
30	Oil temperature control system	Maintain constant temp of Oil		1	
31	Electrical control panels				

QUALITY ASSURANCE & QUALITY CONTROL

Alrayyan Panels is an ISO 9001 certified company and we, Alrayyan Panels believe that, the success of the business depends on providing high quality product and services to all valued customers. Hence, Alrayyan Panels has set up a modern quality and testing LAB with sophisticated and precise test equipment's which includes;

- Universal Test Machine
- Sound Insulation & Absorption Tester
- Thermal Conductivity Tester
- Deflection Temperature Tester
- Color Matching Machine
- Coating Thickness Gauge
- Impact Tester
- Gloss Meter

These testing Equipment's are capable to do various Tests relevant in the Industry according to the widely accepted International Standards & specifications like ASTM. Alrayyan Panels offers international level of quality, reliability, trust and service to all customers. Quality is ensured at every stage from the input material to the finished product.

Our objective is to manufacture Quality products meets or exceeds requirements of relevant Industrial Standard. Strict Quality Control and in-house facilities for Quality Assurance considerably assisted us to achieve several recognitions.

FABRICATION & INSTALLATION

Flawless installation provides outstanding appearance to the architecture. Metal Composite panels are dream products of an architect provide best solution to make unique design for the buildings with outstanding appearance. Contributing to the peculiarity of Flexibility, Metal Composite panels can be used to make complex designs.

Fabrication of Aluminum Composite Panels requires common methods such as Cutting, Grooving, Bending, Milling, Punching, Shearing, Joining, Drilling etc.

RESOURCES

The Plant covering an area of 11621 Square meters, with an average production capacity of above 1,500,000-00 square meters per annum in normal least exploited condition and is extendable. Total Production capacity of the machine is distributed into Three Types of Items such as Aluminum Composite Panel PE core, FR Core and Corrugated Metal Core composite panel.

Hi-Tech installation services for our products: with ultimate perfection; by blending skilled manpower and latest technology. Alrayyan Panels has 59 staff & engineers of well experienced and dedicated for the production and technical services.

Combining these rich resources and cutting-edge technology, we offer Aesthetic Architectural Creations with quality to our customers.

ACP PLANT

FACTORY

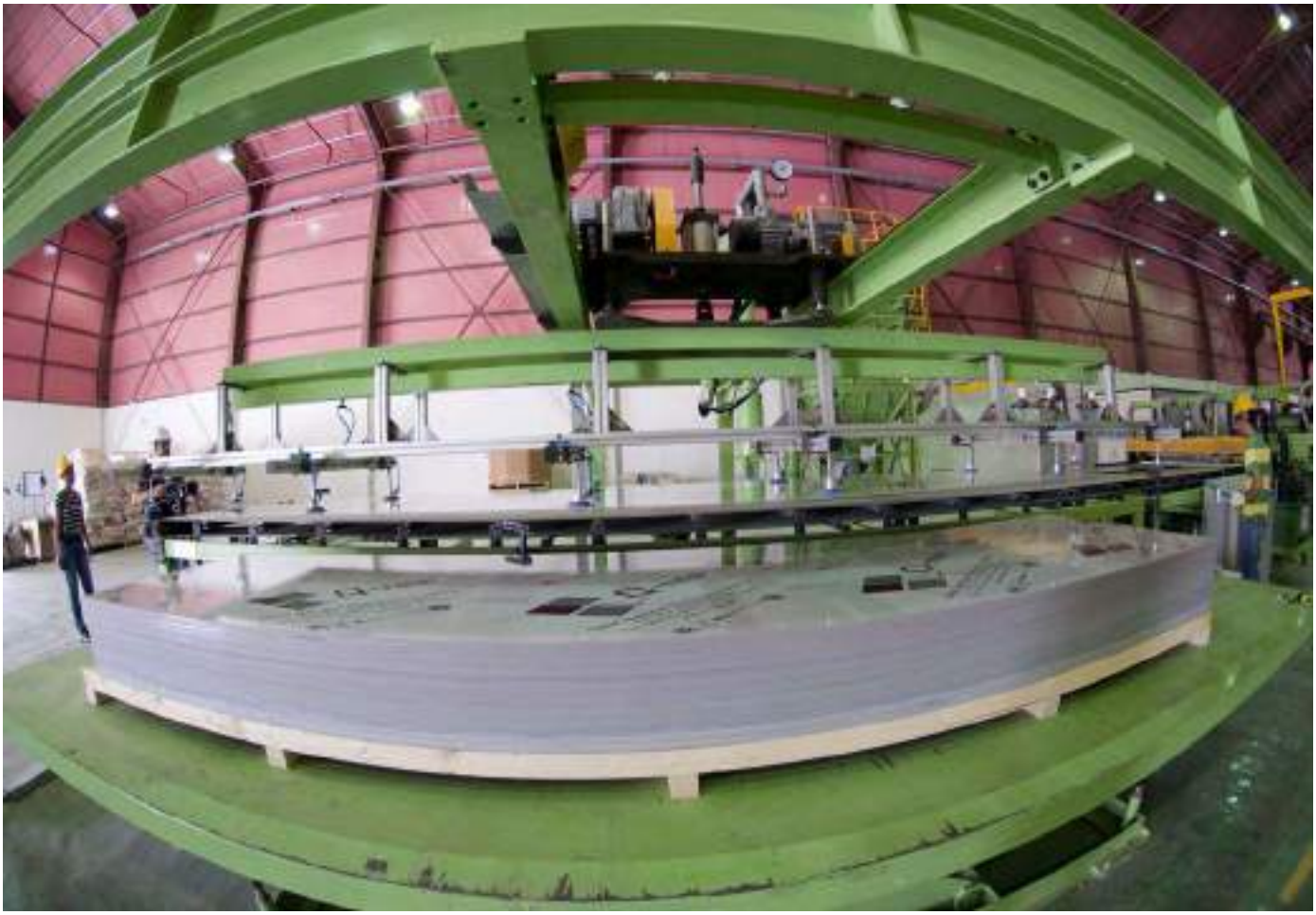
QA & QC LAB

UTM-MACHINE

IMPACT TESTER

RAW MATERIAL AREA

FINISH PRODUCT



Alrayyan Panels

PRODUCT DETAILS

ALUMINIUM COMPOSITE PANELS

Alrayyan Panels ACP is the Brand Name of Aluminum Composite Panels manufactured in **KSA (Alrayyan Panels)**, our registered office is situated at AL HAS 34,1ST INDSUTRIAL CITY, AL OYUN 31982 ,AL HUFUF ,SAUDI ARABIA CR-1010881007. We are enjoying the position of the exclusive manufacturer of Aluminum and Stainless Steel Composite Panels in KSA.

Email info@alrayyanpanels.com

A. COMPOSITION:

Two sheets of aluminum sandwiching a solid core of extruded thermoplastic /Fire rated mineral Core material formed in a continuous co-extrusion process with no glues or adhesives between dissimilar materials. The core material shall be free of voids and/or air spaces and not contain foamed insulation material.

Exterior / Face panel is Aluminum Sheet Coated with PVDF and interior / Rear side of Panel will be available Mill Finish / Polyester Service Coat / Chromate.

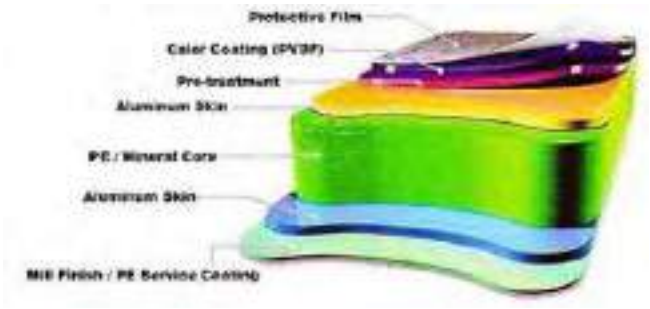
Aluminum Face Sheets:

Aluminum Thickness	:	0.50mm(0.0197")(nominal)
Alloy	:	AA3000 Series (PVDF Painted material)

TYPICAL COMPOSITION OF ALUMINUM COMPOSITE PANEL (DIAGRAMATIC REPRESENTATION)

B. THICKNESS: (ACP - FR & PE)

4MM (0.157"); 6MM(0.236")



C. PANEL WEIGHT:

PE: 4mm 5.46 Kgs/m², 6mm: 7.4 Kgs/m²

FR: 4mm 7.5 Kgs/m², 6mm: 10.85 Kgs/m²

Product	Total Panel Thickness (mm)	Component Thickness (mm)			Aluminum	Core Matleria
		Top Skin Aluminum	Core PE/FR	Bottom Skin Aluminum		
Alrayyan Panels ACP - FR	3 – 6mm	0.4/0.5 mm	3.4 - 5 mm	0.4/0.5 mm	Alloy AA 3003 - H14 3105 - H16	Mineral core
Alrayyan Panels ACP - PE	3 – 6mm	0.4/0.5 mm	3.4 - 5 mm	0.4/0.5 mm		Low Density Polyethylene Core

D. PRODUCT DIMENSION

Alrayyan Panels ACP is available in various dimensions however our standard size is 4 mm x 1250 mm x 2440 mm. Other available sizes are as follows:

Dimension	Unit	Standard	Size Available
Width	mm	1250	1000 - 2030
Length	mm	2440	≤ 6000
Thickness	mm	4	3 & 6

E. TOLERANCES

1. Dimensional / Standard Size (Rounded)

   Thickness : 6mm ± 0.3mm and 4mm ± 0.2mm
   Width : +/- 2.0 mm
   Length : +/- 3.0 mm

2. Panel Bow: Maximum 0.8% of any 1828mm (72") panel dimension.
3. Squareness : 5mm
4. Maximum deviation from panel flatness shall be 1/8" in 5'0" on panel in any direction for assembled units. (Non-accumulative - No Oil Canning)
5. Panel Dimensions: Field fabrication shall be allowed where necessary, but shall be kept to an absolute minimum. All fabrication shall be done under controlled shop conditions when possible.
6. Panel lines, breaks, and angles shall be sharp, true, and surfaces free from warp and buckle.

F. PRODUCT PERFORMANCE (PHYSICAL PROPERTIES)

1. Bond Integrity

Bond integrity tested, in accordance with ASTM D1781 (simulating resistance to panel de-lamination), there shall be neither adhesive failure of the bond a) between the core and the skin nor b) cohesive failure of the core itself below the following values:

Peel Strength: 106 N mm/mm as manufactured

G. COMPARISON WITH OTHER BUILDING MATERIALS

Physical Properties	Acp - FR	Acp - PE	AL	FE	S.Steel	Concrete	Glass	Acryl Sht	Gypsum
Specific Gravity	1.8 -1.89	1.2- 1.35	2.71	7.9	7.9	-	2.5	1.2	0.86
Thermal Expansion (1m /50°C)	1.2 mm	1.2 mm	1.2 mm	0.6mm	0.9mm	0.63mm	0.5mm	3.5mm	-
Thermal Conductivity - W/(m.K)	0.321-0.34	0.236	210	45	17	1.62	1	-	0.04

ACP- FR 4 mm is equivalent to 3.3 mm Aluminum sheet in rigidity.

H. SOUND TRANSMISSION LOSS

Alrayyan Panels ACP is having high sound insulation property per unit compared to metal sheets like Aluminum Steel, and Plywood. Our panels are tested for Sound Transmission loss according ASTM E413. Please find below graphical representation of sound transmission loss.

Alrayyan ACP	4mm PE	4 mm FR	6 mm PE	6 mm FR
STC	26 db	28 db	26 db	29 db

I. DEFLECTION TEMPERATURE

Alrayyan Panels ACP is having an approximate Deflection Temperature of 221°C. This characteristic proves the property of ACP to resist boiling water. Kindly note that; recommended heating temperature of and duration for heating the Panels.

- Heating less than 30 Mints Max Temperature 90°C
- Heating more than 30 Mints Max Temperature 70°C

J. SOUND TRANSMISSION LOSS

Alrayyan Panels ACP has best vibration damping effect that absorbs mechanical energy arises out of vibration to convert it into thermal energy.

Above chart depicts Vibration damping property in comparison with other materials like Aluminum, Stainless Steel, Carbon Steel, Led etc.

As seen in the Chart Alrayyan Panels ACP has larger vibration loss than solid metals.

K. MECHANICAL PROPERTIES

Properties of Skin

We are using Alloy 3000 series – H14.

General sheet metal work requiring greater strength than is provided by 1000 series alloys; profiled building sheet (roofing and siding); insulation panels; hollowware; food and chemical handling and storage equipment. 3003 is readily welded by the TIG and MIG processes.

MECHANICAL PROPERTY	METHOD	UNIT	VALUE
0.2% Proof stress	ASTM E8	MPa	152
Flexural Elasticity	ASTM E8	GPa	70

Mechanical properties of ACP

Alrayyan Panels ACP PE / FR is having the below mechanical properties as average:

Mechanical Property	Method	Unit	ACP - FR		ACP - PE	
			4mm	6mm	4mm	6mm
Tensile Strength	ASTM E8	MPa	55	40	53.96	34
0.2% Proof Stress	ASTM E8	MPa	47	33.63	44	30
Elongation	ASTM E8	%	11.6	8.2	14	9
Flexural Elasticity , E	ASTM C393	GPa	40	29.5	40.1	29

Flexural Rigidity, E x 1	ASTM C393	$kNmm^2/mm$	138	348	138	348
Punching Shear Strength	ASTM D732	N/mm^2	31.16	21.94	31.72	22

L. BENDING LIMIT

We can bend the ACP-FR and PE in a Press Break or 3 roll Bending machine. Normally the smallest radius which we can apply to bend the panel without wrinkles at the radial surface of panel is termed as the ben

Radius. In 3 roll machine the bending diameter depends on the roll diameter, length and type of machine for ACP/FR and PE the radius is about 300mm.

Smallest bending radius (Parallel in Press Break Machine)

Thickness	**ACP- PE**	**ACP-FR**
4mm	50mm	100mm
6mm	75mm	120mm

M. THERMAL CONDUCTIVITY

Compared to solid materials, the ACP-PE and ACP-FR panel have a lower thermal conductivity the table below shows the thermal conductivity comparison of different materials.

Material	**Thermal Conductivity(W/(mK))**
ACP/PE 4mm	0.236
ACP/FR 4mm	0.321
ACP/PE 6mm	0.34
ACP/FR 6mm	0.34
Aluminum	205
Steel	50.2
Polyurethane	0.02
Glass Wool	0.04
Brick	0.28
Concrete	0.8
Gypsum Board	0.13
Air at 0ºC	0.024

N. HEAT TRANSMISSION

Alrayyan Panels ACP-FR and PE panels reduce the Heat transfer from the outer air to the inner air. The air gap between the Panel and the wall increases the thermal insulation. The heat transmission coefficient (U- Value) ACP fixed wall system is given below.

Type of panel Cladding	100 air Gap 115mm Brick wall	75air Gap 25mm Glass wool 115mm brick wall
ACP/FR 4mm panel	1.5 W/m²K	0.94 W/m²K
ACP /FR 6mm panel	1.32 W/m²K	0.79 W/m²K
ACP/PE 4mm panel	1.63 W/m²K	1.1 W/m²K
ACP /PE 6mm panel	1.41 W/m²K	0.85 W/m²K

0. REACTION TO FIRE

Alrayyan Panels ACP – FR is a fire safe material passed mandatory requirements of relevant internationally acceptable standards and is best suitable for external and internal uses. Core of the panels
mainly composed of minerals which can resist fire, however a small amount of Polyethylene also included. Main ingredient (minerals) does not permit the proliferation of flame and restricts development of smoke. Alrayyan Panels ACP – PE on the other hand is composed of Polyethylene however, Skin Aluminum retard rapid spread of fire.

Fire Tests for general and external cladding:

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Country	Test Standard	Alrayyan Panels	Result & Classification
United Kingdom	BS476 Part 7 BS476 Part 6	**ACP-PE/FR** 4mm & 6 mm	Class-1 Class-0
Germany	DN4102 Part 1	4mm & 6 mm	Class-B1
Europe	BS EN 13501-1	4mm & 6 mm	Class B – S1, d0
USA	ASTM E 84	4mm & 6 mm	Class-A

Wall and Roof

Country	Test Standard	Alrayyan Panels	ACP/fr Result & Classification
USA	ASTM E119 Fire rating	4mm & 6mm	1 hr, 54 min

In addition to regular standard Fire Tests, we are performing heavy fire tests on the Products which are no- standard as well in order to determine the quality of the products please find below Picture of Typical Ad-

fire test which we are conducting.

Typicalinterior Room Corner Test

P. COATING FINISHES

Aluminum Coil alloy (3003 Series) coated with KYNAR® 500 based Polyvinylidene Fluoride (PVDF utilizing with minimum 70% PVDF resin) for top coat. And mill finished and chromate or Epoxy primer for bottom /rear skin. PVDF Coating system offers two or Three Layer coating depending on color selection such as Metallic colors and Normal RAL Colors. Metallic Colors are normally Three (3) coat system consisting Primer, Color and Clear Top coat. Normal RAL colors usually have Two (2) coat system composed of inhibitive Primer and Color Coat; in conformance with the following general requirements of AAMA 2605.

a. Color:

Generally we are manufacturing ACP with various options of color coating; basically we have four different types of colors such as: Solid / Enamel Colors, Metallic Colors, Natural Finishes (Stone & Timber) and Sparkling Colors.

1) Standard color as selected by the owner / architect / engineer.
2) Custom colors as per customer requirement subject to minimum quantities
3) Clear coat over pretreated natural and brushed aluminum substrates.

b. Dry Film Thickness : 25 micron (minimum) for

c. Gloss at 60° : top 25 – 80%

d. Color Retention

ASTM D-2244 : Max 5 Units (Accelerated Test 4000 Hrs)

e. Gloss retention :

f. ASTM D523-89 : minimum 70% after 4000 Hrs

g. Hardness -Pencil

ASTM D-3363 : 2H

h. Impact :

ASTM D-2784 : No Breakage / Loss of Paint

i. Adhesion :

Dry,ASTM D-3359 : No Pick-off (1 mm x 1mm Cross hatch)

Wet 37.8 ^{o} C ,24 hrs. : No

Boiling water 100 ^{o} C,20 min : Pick off

j. AbrasionResistance : No

Pick off

ASTM D-968 : Passed (Sand Falling / Sand blasting)

k. Humidity Resistance

ASTM D-2247 : 3000 Hrs (RH 100 % at 35°C)

l. Salt Spray Resistance:

ASTM B-117 : 3000 Hrs (5% NaCl solution at 35°C)

m. Chemical Resistance:

1) ASTM D-1308 : 10% Muriatic Acid for an exposure of 15 minutes. No visual change viewed by unaided eye

2) ASTM D-1308 : 20% Sulfuric Acid for an exposure of 18 hours. No visual change when viewed by unaided eye.

n. Mortar Resistance (AAMA 2605): No Change

o. Detergent Resistance

ASTM D2248-93 : No Change (Detergent, 3% solution, 38ºC, 72hrs)

p. Chalk Resistance

ASTM D 4214 : Max 8 Units (Accelerated Test 4000

q. Weather ability : Hrs.) 15 Years

r. Formability (T Bend) : 2T, No Crack

Q. PANEL STRENGTH

The Panels used for the external cladding must with stand the wind load. This wind load will cause deflection of the panels and if the deflection is small the panel will not deform. The permanent deformation of the panel is calculated by 0.2% yield stress divided by the safety factor. In the calculation we are assuming that the total strength of the panel is the strength of the Aluminum skins. If the calculated 2% proof stress is greater than the permissible, normally the panel is strengthened by giving additional stiffeners. The other factors affecting the strength of the panel are:

1. Panel thickness, width and length
2. Supporting conditions.
3. Wind load

We are using the Aluminum alloy 3003-H14 for our ACP/PE and FR **skins 2% proof stress is 152 MPa** and suitable where the wind speed is 50m/sec. The air infiltration of Alrayyan panels in standard fixing is ≤ 0.3 L/s Per sq. at 75 Pa Pressure As per ASTM – E 283 and water penetration test passed according to ASTM E 331 at a minimum differential pressure of 10 percent of inward acting, wind-load design pressure of not less than 300 Pa

R. JOINING HOLES / BOLTS & NUTS

In the installation work other important factors are the strength of the joining holes and the rivets. Normally the distance from the hole center to the panel edge should be 2 times larger than hole diameter. And to prevent the galvanic corrosion of the panels use only Aluminum or stainless steel rivets, bolts nuts etc. if we are using dissimilar metals lay a coating to prevent the galvanic corrosion.

S. STRENGTH OF SUBSTRUCTURE

The sub structure where we are installing the panels, should take care the wind load and the panels. The strength of the substructure depends on the material and section of the structure, anchoring intervals of sub structure and wind pressure. The maximum deflection on the sub structure must be smaller than the 0.5% of supporting intervals.

T. RESISTANCE TO NATURAL FORCES

a) Lightning

If a lightning strikes, the ACP/FR panel the electricity will be discharged to the earth through the substructure. Since the panel is connected to the earth through the sub structure.

U. PRODUCT WARRANTY

All Aluminum Composite Panels supplied by Alrayyan Panels will be warranted for a period from 10 years from the date of supply, as per our standard product warranty Policy. Formal Warranty documentation will be issued in the name of Client and will be endorsed by the regional agents / the company itself.

Alrayyan Panels

DATA SHEET & COC-QCDD

Alrayyan Panels

"Building a Better Future"

FR ALUMINIUM COMPOSITE PANEL TECHNICAL SPECIFICATION

FR PRODUCTION TOLERANCE

THICKNESS	±0.2 mm
WIDTH	±2mm
LENGTH	±3mm
SQUARENESS	Max,3mm

FR PRODUCTION SIZE

PANEL THICKNESS	3 mm - 6mm
STANDARD SIZE	1250 mm×3200 mm
WIDTH	1000/1250/1500
LENGTH	Up to 6000 mm

FR ALUMINUM MECHANICAL & COATING SPECIFICATION

CORE	Mineral core
ALUMINIUM ALLOY	3XXX series
PEELING STRENGTH (ASTM D903)	≥ 9N/mm
Coil Thickness& Panel weight	0.5/0.4 mm
WEIGHT PER UNIT AREA	5.5 – 10.85 Kg/m^2
TENSILE STRENGTH (ASTM E8)	≥ 55.34 Mpa
DEFLECTION TEMPERATURE (ASTM D648)	≥ 116°C
SOUND TRANSMISSION (ASTM E413)/E90	≥ 28 db/Indoor and Outdoor transmission class 23
COATING TYPE	PVDF (Polyvinyl dine fluoride)
SPECULAR GLOSS (60%) (ASTM D523)	15-80%
PENCIL HARDNESS (ASTM D3363)	≥ 2H Passed
COATING FLEXIBILITY (T) ASTM D 4145	No Cracking (≤ 2T)
IMPACT STRENGTH (ASTM D2794)	No Pickoff (50 Kg/cm)
CROSS HATCH TEST (ASTM D 3359)	No pickoff (100/100)
SOLVENT MEK TEST (ASTM D 5402)	No pickoff (100 DR)
MODULUS OF ELASTICITY (ASTM E8)	≥70 Gpa
HUMIDITY RESISTANCE (ASTM D 714)	3000 Hrs. No Crack Blisters Found
SALT SPRAY RESISTANCE (ASTM B 117)	3000 Hrs. No Crack Blisters Found

RESULT OF REACTION TO FIRE TEST

EN 13501-1:2007 / A1: 2009 Nominal Density; 7.69 Kg/m2- 10.85Kg/m2	Classification : Class B-S1,d0

Email :info@alrayyanpanels.com,sales@alrayyanpanels.com

شـركـة ألـواح الـريـان للصـنـاعـة
Alrayyan Panels for Industry company

Date : 12 September,2023

TO WHOM IT MAY CONCERN

We AL Rayyan Panels for Industry company for confirm through this letter that third party fire testing for ALUMINIUM COMPOSITE PANEL under process with Thomas Bell-Wright International Consultants (TBWIC)under reference no RefXH045/08/08/23/00 as per testing standard ASTM E 84-22. Certificate expected to be ready for submission by 20th September 2023.

Sincerely

Sheikh Naif Ali Althani

Chairman

RIYADH Exit: 9 AL-EMAM Road 13515 Office No. 10 Floor No. 1
Email : info@alrayyanpanels.com CR No. 1010881007

شـركـة ألـــواح الـــريـــان للصـنـــاعـــة
Alrayyan Panels for Industry company

Date: 12 September 2023

To,

M/S: NATIONAL PANEL COMPANY FOR INDUSTRY.
RIYADH – Kingdom of Saudi Arabia.

Subject: Transfer of branding right QNAP, QBOND,QSIGN & Fire Test Certificate (THOMAS BELL WRIGHT)

Dear Sir,

We here by confirm our approval to use of the brand and fire testing certificate registered under the company of ALRAYYAN PANEL FOR INDUSTRY COMPANY under CR 1010881007 to NATIONAL PANEL COMPANY FOR INDUSTRY under the CR name 1010802056 with office no 10, floor no 1, Riyadh exit 9 AL-EMAM ROAD 13515, SAUDI ARABIA for reselling the product manufactured by ALRAYYAN PANEL under the brand name of QNAP, QBOND, QSIGN without any changes or modifications in original specification of the mentioned brand. We hereby confirm that NATIONAL PANEL COMPANY FOR INDUSTRY is part of our organization which has been entrusted to sales of product in KSA.

Product specification:

1. QNAP- CLASS B1 FR (B-s1,d0 EN 13501-1-2007/A1:2009)/ ASTM E-84
2. QBOND- NON-FR CORE
3. QSIGN- NON-FR CORE WITH PE FINISH (FOR SIGNAGE PURPOSE ONLY)

Period of usage: 2 years from the date of this letter and renewal under mutual agreement for further period.

Sincerely,

SHEIKH NAIF AL THANI

TEST REPORT
REACTION TO FIRE TEST

Test Sponsor:

Al Rayyan Panels for Industry Company.
Al Ahsa 34, 1st Industrial City,
Al Oyun 31982, Al Hofuf, Saudi Arabia
T: +966-558858769
Website: www.alrayyanpanels.com

Test Material / Assembly:

4 mm thick Fire Rated Aluminium Composite Panel (QNAP ACP-FR)

Test Standard:

ASTM E84 – 22: Standard Test Method for Surface Burning Characteristics of Building Materials

THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS

Test Date: 26-Sep-23
Issue Date: 5-Oct-23
Test Reference No: XH045-1

PO BOX 26385, DUBAI UAE T +971 (0)4 821 5777 fire@bell-wright.com www.bell-wright.com

DUBAI DOHA RIYADH

Accreditation

Testing

ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories with:

United Kingdom Accreditation Service (UKAS) - Testing Laboratory: **4439**
www.ukas.com

GCC Accreditation Center (GAC) – Testing Laboratory: **ATL-0017**
www.GCC-accreditation.org

Memberships

Members of European Group of Organization for Fire Testing, Inspection and Certification

www.egolf.org.uk

Member of Association for Specialist Fire Protection

www.asfp.org.uk

Member of Centre for Window and Cladding Technology

www.cwct.co.uk

The work which is the subject of this report falls under the accreditations of **ISO 17025 UKAS and ISO 17025 GAC.**

Table of Contents

1. INTRODUCTION

Determination of the flame spread index and the smoke developed index of 4 mm thick Fire Rated Aluminium Composite Panel (QNAP ACP-FR) as per ASTM E84 – 22; Standard Test Method for Surface Burning Characteristics of Building Materials.

2. SPONSOR

Name: Al Rayyan Panels for Industry Company.
Address: Al Ahsa 34, 1st Industrial City,
Al Oyun 31982, Al Hofuf, Saudi Arabia
T: +966-558858769
Website: www.alrayyanpanels.com

3. TESTING LABORATORY

Name: Thomas Bell-Wright International Consultants (TBWIC)
Address: Corner of 46th and 47th streets, Jebel Ali Industrial Area 1
P.O. Box 26385, Dubai, U.A.E.
T: +971 (0) 4 821 5777
www.bell-wright.com

4. DATE OF TEST

Sample received: 20-Sep-23
Test date: 26-Sep-23

The was not witnessed by the sponsor.

5. SPECIMEN DESCRIPTION

Note: The testing laboratory does not hold any responsibility for the information that has been provided by the test sponsor which could not be verified by the testing laboratory, as this could affect the validity of the test result. All information that could not be verified will be indicated by an asterisk (*) mark.

Product Tested		4 mm thick Fire Rated Aluminium Composite Panel (QNAP ACP-FR) *	
Product Name		QNAP ACP-FR 4 mm*	
Manufacturer		Al Rayyan Panels for Industry Company*	
Overall Thickness		4 mm (measured by TBWIC)	
Overall Area Weight		7.04 kg/m^2 (measured by TBWIC)	
Product Details	Top Coat (fire side)	Reference name	PVDF*
		Manufacturer	Note 1
		Thickness	0.028 mm* (stated)
		Color	Blue (observed by TBWIC)
		Density	1.78 g/cm^3* (stated)
	Top Skin	Reference name	Top Coil*
		Manufacturer	Note 1
		Thickness	0.5 mm* (stated)
		Alloy	3105-H16*
		Density	2710 kg/m^3* (stated)
	Adhesive	Reference name	Adhesive Film*
		Manufacturer	Note 1
		Thickness	50 µm* (stated)
		Density	0.920 g/cm^3* (stated)
	ACP Core	Reference name	Mineral Filled Core*
		Manufacturer	Note 1
		Thickness	3 mm* (stated)
		Density	1.5 g/cm^3* (stated)
	Adhesive	Reference name	Adhesive Film*
		Manufacturer	Note 1
		Thickness	50 µm* (stated)
		Density	0.920 g/cm^3* (stated)
	Bottom Skin	Reference name	Bottom Coil*
		Manufacturer	Note 1
		Thickness	0.5 mm* (stated)
		Alloy	3105-H16*
		Density	2710 kg/m^3* (stated)
	Bottom Coat	Reference name	Polyester (PE) Coating
		Manufacturer	Note 1
		Thickness	0.009 mm* (stated)
		Density	0.952 g/cm^3* (stated)
Dimensions per panel		2440 x 600 x 4 mm (l x w x t) (measured by TBWIC)	

Quantity of panels	3 Nos.
Total dimension	7320 x 600 x 4 mm (l x w x t) (measured by TBWIC)
Specimen placement	The three (3) panels of 4 mm thick Fire Rated Aluminium Composite Panel (QNAP ACP-FR) were butt jointed end-to-end. The test specimen was placed directly to the tunnel ledges with the top side (fire side) towards the flame source.

***Note 1**: The sponsor was unable to provide this information.*

6. SPECIMEN VERIFICATION

The choice and design and the definition of the specimen have been made by Al Rayyan Panels for Industry Company., and TBWIC testing laboratory has not been involved in the selection or design of the specimen. The results apply to the samples as received.

Note: There are contexts where information has been provided by the sponsor and verification of information has been done through either technical datasheet or other document submission, or as indicated directly by the sponsor. For this reason, materials have been tested in an as-received condition and TBWIC bears no liability for the legitimacy of the submitted information.

7. METHOD OF TEST

7.1. Placing of test specimen

The test specimen consisted of three (3) panels of 4 mm thick Fire Rated Aluminium Composite Panel (QNAP ACP-FR). The dimension per panel was 2440 x 600 x 4 mm (l x w x t) and was butt jointed end-to-end. The total dimension of the specimen was 7320 x 600 x 4 mm (l x w x t).

Several sections of cement board butt jointed end-to-end with overall dimensions of 7350 x 600mm (l x w), were placed at the back of the sample to protect the furnace lid assembly.

7.2. Test Method

The specimen was placed in the ceiling position, supported horizontally on the ledges of the Steiner Tunnel. The top side (fire side) was exposed face down to the ignition source during the 10-minute test duration.

Flame Spread and Smoke Density were measured, and the results were compared against standard calibration materials (fiber-cement board, heptane and red oak flooring).

7.3. Conditioning

After delivery on 20-Sep-23, the specimen was placed in a conditioned space where temperature and humidity were maintained between 23 ± 2.8°C and 50 ± 5% respectively, until constant weight was attained.

Note: There were deviations observed in the temperature and relative humidity in 4 separate probes of thermo-hygrometer in our conditioning room, however the average values were within the limit.

8. OBSERVATION

Test Data and Observation

Observations	Result
Ignition Time (min:sec)	1:49
Time to maximum flame front advance (min:sec)	9:08
Maximum flame spread (ft)	2.2
Time to end of tunnel reached (min:sec)	Not Reached
Maximum temp recorded at the exposed thermocouple located near the end of the tunnel (°F / °C)	524/273
Dripping (min:sec)	None
Flaming on the floor (min:sec)	None
After flame on the top (min:sec)	Extinguished
After flame on the floor (min:sec)	None
Delamination (min:sec)	1:51
Sagging (min:sec)	None
Shrinkage (min:sec)	None
Fallout (min:sec)	None

FS*Time Area (ft*min)	5.76
Smoke Area (%A*min)	13.81
Heptane Smoke Area (%A*min)	86.4

9. SUMMARY OF RESULTS

The test specimen has been evaluated in accordance with ASTM E84 – 22; Standard Test Method for Surface Burning Characteristics of Building Materials.

The test results are:

FLAME SPREAD INDEX (FSI)	**5**
SMOKE DEVELOPED INDEX (SDI)	**15**

Results are valid for the tested configuration only.

10. CLASSIFICATIONS

The following information is designed to help put these test results into context. Flame Spread Index and Smoke Developed Index results from an ASTM E84 test are often used by regulatory agencies to approve materials for various applications. For example, the International Building Code 2021, Section 803.1.2 requires that:

Interior wall and ceiling finish materials shall be classified in accordance with ASTM E84 or UL 723-11th Ed. 2021. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indices.

Class A: Flame spread index 0 - 25; smoke-developed index 0 - 450.
Class B: Flame spread index 26 - 75; smoke-developed index 0 - 450.
Class C: Flame spread index 76 - 200; smoke-developed index 0 - 450.

Note that the above example is the IBC requirement for interior wall and ceiling finishes only; the application of the tested specimen may differ.

11. LIMITATIONS

Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by the testing materials that remain in place.

This report and all records of the test to which it relates may be not be retained by TBWIC further than 5 years from the date of testing.

This test report is respectfully submitted by: Thomas Bell-Wright International Consultants

Prepared/Tested By:

Malak Megly
Fire Testing Engineer

Reviewed By:

Fredilyn Paragoso
Fire Testing Support Engineer

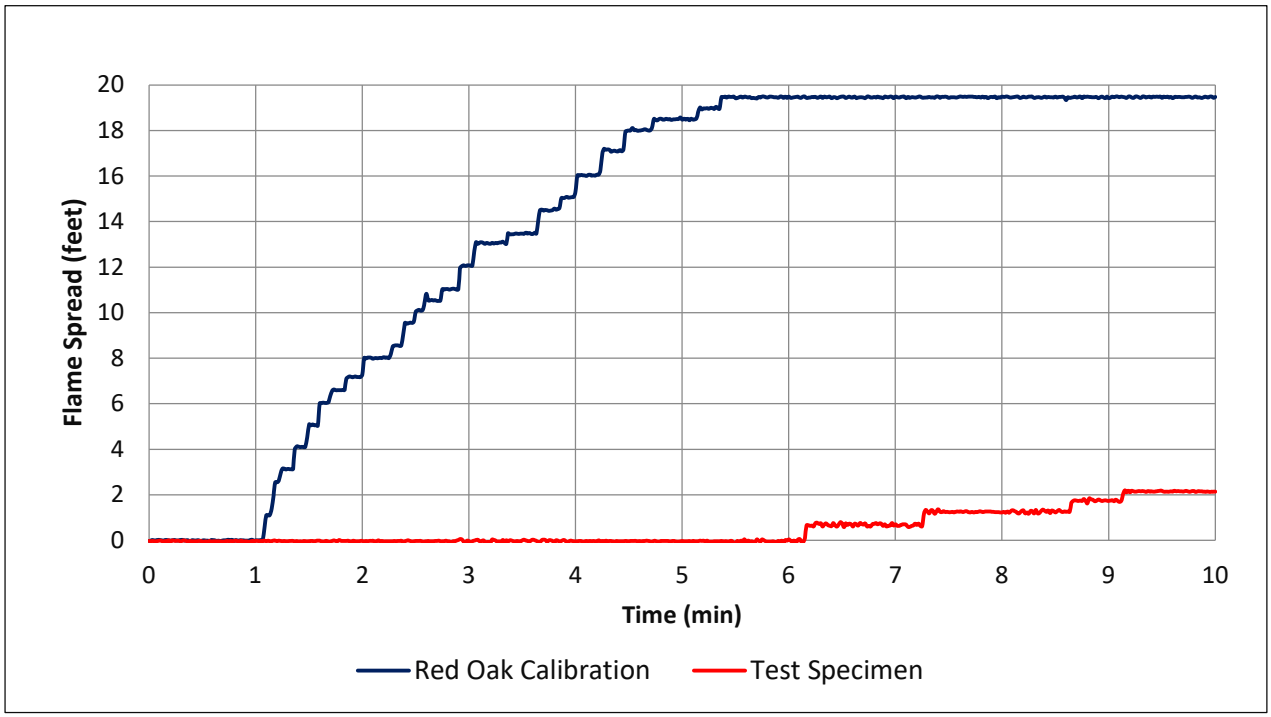
Authorized By:

Suketa Tyagi
Manager – Reaction to Fire

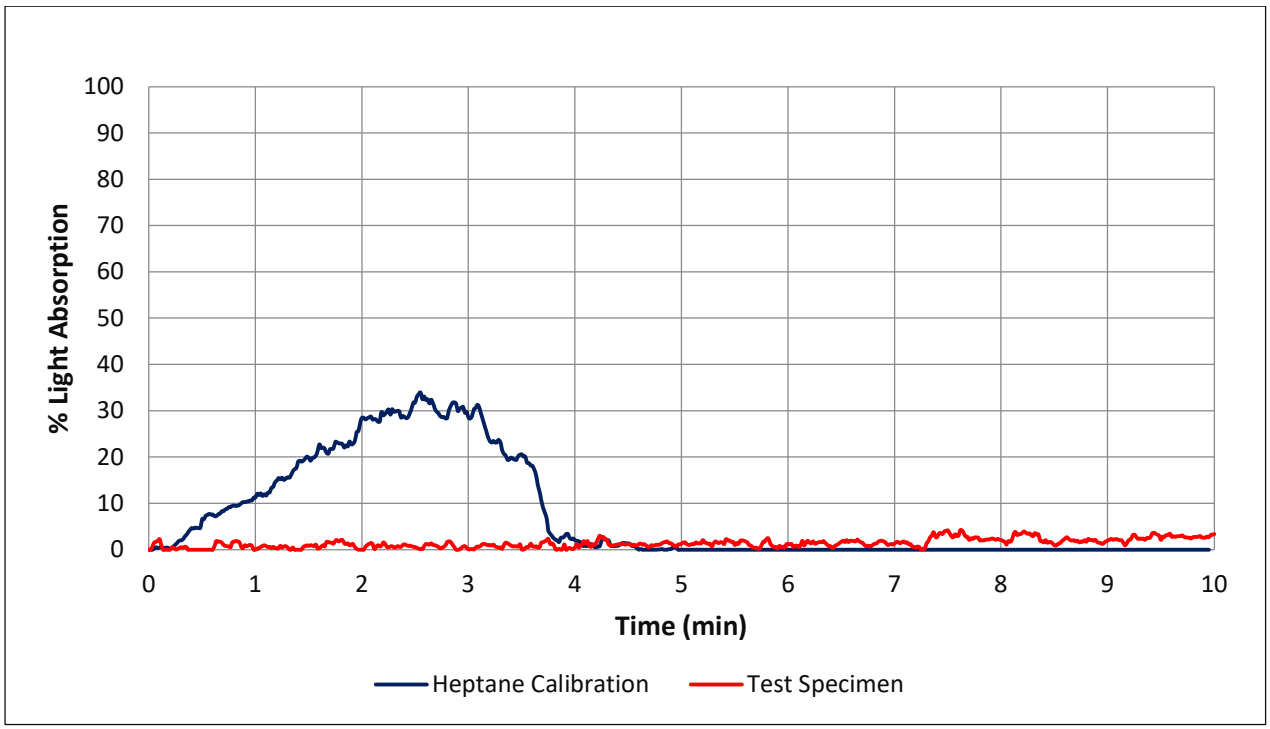
P.O.Box: 26385
DUBAI - U.A.E.

Report Revision Tracking		
Report Reference	**Date Issued**	**Notes & Amendments**
Rev. 00	05-Oct-23	This is the first issue of the report. No revisions are included.

12. APPENDIX 1 – GRAPHS



Graph 1: Flame Spread Index (FSI)



Graph 2: Smoke Developed Index (SDI)

13. APPENDIX 2 – PICTURES

Photo 1: Specimen before the test. (Non-Fire Side)

Photo 2: Specimen before the test. (Fire Side)

Photo 3: Specimen after the test. (As seen from the fire-end)

Photo 4: Specimen after the test. (As seen from the exhaust end)

----- End of Test Report -----

Alrayyan Panels

QUALITY PROGRAM

QHSE POLICY

We, at Alrayyan Panels are committed to continually improve its Processes and develop long-term business relationship with customers through total employee participation in surpassing customer's expectations and responding to customer's requirements with the highest level of services and dependability.

We shall sustain and improve on prevention of pollution and minimize the health risk as low as possible through continual improvement in all our processes and resource utilization.

The management shall ensure and assure as follows:-

- ✓ **Executing each job in a cost efficient with timely manner through optimum utilization of resources and adopting latest management practices.**
- ✓ **Establish a strong partnership bonding with interested parties and to understand and comply their needs and expectations.**
- ✓ **Effective implementation of integrated management system in line with ISO 9001, 14001 & 45001 standards and reviewing of its performance through departmental objectives.**
- ✓ **Preventing injuries, ill health and proactively monitoring the OH&S performance.**
- ✓ **Identifying and mitigating all the environmental impacts and working constantly on conservation of natural resources.**
- ✓ **Identifying and complying with all applicable legislative, statutory & regulatory and other requirements.**

This policy statement is communicated to all employees and persons working for or on behalf of the organization and will be made available to the public, stakeholders and any other interested parties on request.

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GENERAL MANAGER

Quality control procedure

At Alrayyan Panel Company, we firmly believe that the success of business depends on providing high quality products and services to all valued customers through efforts of its team members.

Quality Management is practiced from the top management to the lower most position in the product realization process.

Quality is ensured at every stage right from the input materials to the finished product. The four stages of quality assurance are as below:

- Pre-Production Quality Assurance
- In-process Control
- Post Production Quality Assurance
- Pre-dispatch Quality Assurance

Pre-Production Quality Assurance: All received materials are inspected thoroughly before issuing to production. Each raw material has ‘Quality Plan' specifying quality parameters against which the received lot is tested and inspected.

In-process Control: At each stage of production, quality is ensured by vigorous process control checks. All quality parameters are checked and recorded during each production run by our experienced quality controllers to ensure production of high quality product.

Post Production Quality Assurance: At the end of production run, final inspection is done to ensure that all quality checks are done during the process.

Traceability of the product is also ensured through ‘Batch Code' System, in which a unique Batch Code is printed on each ACP sheet which traces back to all input materials used in a production batch.

Pre-dispatch Inspection: At last, before each dispatch from our factory, pre-dispatch inspection is done to ensure that the customer will always get a high quality product.

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Alrayyan Panels

MATERIAL SAFETY DATA SHEET

Alrayyan Panels FR MATERIAL SAFETY DATA SHEET

MSDS No.: QN-QA. /07-21

Company Identification

Name of manufacturer:	Alrayyan Panels Composite Materials AL HAS
Name of division:	34,1ST INDSUTRIAL CITY,
Address:	AL OYUN 31982 ,AL HUFUF ,SAUDI ARABIA
Telephone:	+966 558858769
Date of preparation	07-21

1. Product
   Name: Alrayyan Panels ACP-FR
   (Aluminum Composite Material with fire-retardant non-combustible mineral core)

2. Hazardous Identification:
   GHS classification: Not applicable to hazardous classifications
   Wear appropriate protective equipment. Particles involved in mechanical processing may irritate mu-cosal of respiration apparatus, eyes, mouth, nose, and etc. The edges or corners of the material may cut person's body. A heated product may cause a burn injury.

3. Composition / Information on Ingredients:
   Components and CAS Nos.:

Component	CAS No.
Aluminum	7429-90-5
Ethylene-copolymer released Aluminumtri-hydroxide	Not 21645-512
Calcium carbonate	471-34-1
Coating	Not released

   *Components less than 0.1 wt% are not shown in the above.
   Identification in accordance with UN: Not defined in identifications in UN

4. First-Aid Measures

Eye contact:	When eyes are hurt with particle and/or powder during mechanical processing of the product, rinse affected eyes with clean running water. If irritation is persistent afterwards, get ophthalmic check immediately.
Skin contact:	In case of slight burns due to heated product, flush out affected part with large amount of water immediately, to cool down the affected part. In case of serious burns, get medical check immediately.
Inhalation:	When having inhaled a large quantity of powder and/or particle during mechanical processing of the product, move to fresh air, to ensure rest and keep warm, and get medical attention immediately.
Ingestion:	When having ingested a large quantity of powder and/or particles during mechanical processing of the product, get medical check immediately.

5. Fire-Fighting Measures
   Prevention of fire spread: In case of occurrence of fire near by the product, cover the products with incombustible sheet or dry sand, to prevent from fire spread to the products.

Fire extinguishing: If the product is ignited, it is effective for initial extinguishing to dash water. Firefighting shall be done from the lower portion of the products, and then to upper portion. Firefighting shall be done from windward side with wearing air-breathing apparatus.
Extinguishing media: Water, carbon dioxide, dry-chemical powder and foam fire extinguisher.

6. Accidental Release Measures
Not applicable. Generally, the product is unlikely to spill out accidentally, be- cause of solid nature.

7. Handling and Storage
Handling: Wear gloves to protect hands from scratch and cut with panel edges.
Storage: Store horizontally where the products can be piled up without deflection. Do not wet the product with rain. Keep it away from such chemicals as acid, alkali, strong oxidizer and chlorides, organic solvents, spark and fire.

Facility measures: When the particle content cannot be maintained within the permissible range, provide such a suitable facility as partial ventilation.
Personal protection:
Respiratory protection: When particle and small chips exist in certain range, wear respirator.
Eye protection: When operators are exposed to particles and small chips, wear protection glasses during the operation.
Hand protection: Wear gloves to protect hands from scratch and cut with panel edges. Skin protection: Wear working clothes and safety shoes.

8. Physical and Chemical
Properties Appearance:
Panel of 4 mm thick.
Odor: None
Boiling temperature: Approx. 2500ºC in aluminum
Melting temperature: Approx. 645ºC in aluminum
Approx. 78 to 105 ºC in Ethylene-copolymer Possibility of self-ignition: None
Specific gravity: 2.7g/cm^3 in aluminum
0.94±0.01g/cm^3 in Ethylene-copolymer
Solubility: Insoluble to water

9. Stability and reactivity
Stability: Stable under normal atmospheric conditions Susceptibility of oxidization: None
Reactivity with water: None
Self-reactivity: None
Other reactivity: None

10. Toxicological Information
There is no information available.

11. Ecological Information
There is no information available.

Alrayyan Panels

COMPANY REGISTRATION

Alrayyan Panels

CERTIFICATES

وزارة التجـارة
Ministry of Commerce

رؤيـــة VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

رمزك التجاري QR Code

من خلاله يمكنك التحقق المباشر من العلومات:

- السجل التجاري
- رخصة البلدية
- شهادة السعودة
- برنامج نطاقات
- شهادة الزكاة
- الغرفة التجارية

MCgovSA
www.mc.gov.sa

وزارة التجارة
Ministry of Commerce

شهادة تسجيل الشركة
Company Registration Certificate

الرقم الموحد : ٧٠٣٤٠٥٥٣٢٢
رقم المنشأة : ١٠١٠٨٨١٠٠٧
التاريخ : ١٤٤٤/١٠/٢٦ هـ

الاسم التجاري للشركة : شركة ألواح الريان للصناعة

نوعها : محدودة برأس مال خليجي — جنسيتها : سعودى

مدة الشركة : ٢٥ سنة — تبدأ من : ١٤٤٤/١٠/٢٦ هـ — وتنتهي في : ١٤٦٩/١٠/٢٥ هـ

مركزها الرئيسي : ٤٧٠٢، طريق خريص، ٧١٠٤

هاتف : — الرمز البريدي : ١٣٢٢١ — ص. ب :

النشاط : للاطلاع على بيانات الأنشطة الرجاء مسح الرمز التجاري

رأس المال : ٥٠,٠٠٠ ريال سعودي

المديرون :

1 نايف علي خليفه أحمد آل ثاني	2 خليفه نايف علي خليفه آل ثاني
3 سعد بن حمد بن عبدالله الغريب	4
5	6
7	8
9	10
11	12
13	14
15	16

سلطات المدير/المديرون : حسب ما نص عليه عقد الشركة

يشهد مكتب السجل التجاري بمدينة : الرياض — بأنه تم تسجيل الشركة المذكورة أعلاه بمدينة : الرياض

وتنتهي صلاحية الشهادات في : ١٤٤٦/١٠/٢٦ هـ — بموجب الإيصال رقم : ٢٣٠٥٠٣٧٩٩٦٧ — وتاريخ : ١٤٤٤/١٠/٢٥ هـ

السادة/ شركة ألواح الريان للصناعة

نهنئكم بدخول عالم الأعمال التجارية وإصدار سجلكم التجاري، ونتطلع أن يساهم هذا السجل في تحقيق تطلعاتكم، وأن يكتب الله لكم التوفيق والنجاح في عملكم التجاري وأن تكون شريكاً في تعزيز اقتصاد المملكة العربية السعودية.

يسرنا إبلاغكم بأن رقم منشآتكم الموحد هو ٧٠٣٤٠٥٥٣٢٢ وقد تم ربطه بالخدمات الحكومية التي ستحتاجها مستقبلاً. وهي على النحو التالي:

	الرقم:
رقم سجلكم التجاري للمنشأة	١٠١٠٨٨١٠٠٧
رقم منشأتكم لدى وزارة الموارد البشرية والتنمية الاجتماعية	تحت الإجراء
تم تسجيل منشآتكم مجاناً لمدة سنة في خدمة واصل التجاري	٢١٠٢٣٩٦٧٧٩٦
رقم منشأتكم لدى هيئة الزكاة والضريبة والجمارك	٣١١٦٥٥٨٥٣٣
رقم منشأتكم لدى المؤسسة العامة للتأمينات الاجتماعية	٦٤١١٩٥٤٧٢
رقم منشأتكم لدى الغرفة التجارية.	٨٢١٩١٩
رقم رخصة "بلدية" فورية (في حال اختياركم)	لا يوجد

منشآت monsha'at

يتيح تطبيق "نوافذ منشآت" العديد من الخدمات الممكنة لك في عالم الأعمال و منها الحصول على الإرشاد و الاستشارات . تطبيق "نوافذ منشآت" بوابة دخولك إلى عالم الأعمال، https://www.monshaat.gov.sa/nawafth

ويمكنك فتح حساب بنكي دون الحاجة إلى أي أختام لمنشأتك

كما جمعنا لك كافة الانظمة واللوائح بلغة بسيطة في دليل التاجر لتمارس عملك التجاري بسهولة mc.gov.sa/trader/guide

100231082515553

TIN	3116558533	الرقم المميز
Certificate No.	100231082515553	رقم الشهادة
Certificate date	12/07/2023	تاريخ الشهادة

هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority

المملكة العربية السعودية
Kingdom of Saudi Arabia

شهادة تسجيل في ضريبة القيمة المضافة

VAT Registration Certificate

تشهد هيئة الزكاة والضريبة والجمارك بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ ٢٠٢٣/٠٧/١٢ م

The Zakat, Tax and Customs Authority certifies that taxpayer below is VAT registered on 12/07/2023 AD

Taxpayer Name	شركة ألواح الريان للصناعة	اسم المكلف
VAT Registration Number	311655853300003	رقم التسجيل الضريبي
Effective Registration Date	2023/07/01	تاريخ نفاذ التسجيل
Taxpayer Address	الرياض،الرياض،طريق خريص،13221	عنوان المكلف
CR / License Contact / ID No	1010881007	رقم السجل التجاري / الرخصة / العقد / الهوية
Tax Period	ربع سنوي-Quarterly	الفترة الضريبية
First Filing due date	2023/10/31	تاريخ استحقاق أول إقرار ضريبي

ملاحظة: كمكلفين مسجلين في ضريبة القيمة المضافة, لا يجوز لكم تحصيل ضريبة القيمة المضافة من عملائكم قبل تاريخ نفاذ التسجيل في الضريبة. و في حال تبين غير ذلك ستقوم هيئة الزكاة والضريبة و الجمارك بتنفيذ الغرامات المستحقة

Note: As a VAT registered taxpayer, you are not allowed to collect VAT from your customers prior to the effective date of the tax registration. If otherwise approved, The ZAKAT,Tax and Customs Authority will impose the applicable penalties

ضريبة القيمة المضافة VAT

qnap trading
كيوناب للتجارة

"Building a Better Future"

Date : 01 ,March 2022

To,

M/S: NATIONAL PANELS COMPANY FOR INDUSTRY.
RIYADH – Kingdom of Saudi Arabia.

Subject: Transfer of branding right -QNAP, QBOND,QSIGN.

Dear Sir,

We here by confirm our approval to use of the brand registered under the company of QNAP TRADING STATE OF QATAR to NATIONAL PANELS COMPANY FOR INDUSTRY under the CR number 1010802056 with office no 10, floor no 1, Riyadh exit 9 AL-EMAM ROAD 13515, SAUDI ARABIA for manufacturing the ALUMINIUM COMPOSITE PANEL under the brand name of QNAP, QBOND, QSIGN without any changes or modifications in original specification of the mentioned brand.

Product specification:

1. QNAP- CLASS B1 FR (B-s1,d0 EN 13501-1-2007/A1:2009)
2. QBOND- NON-FR CORE
3. QSIGN- NON-FR CORE WITH PE FINISH (FOR SIGNAGE PURPOSE ONLY)

Period of usage: 2 years from the date of this letter and renewable under mutual agreement for further period.

Sincerely,

SHEIKH NAIF BIN ALI KHALIFA AL-THANI

كيوناب للتجارة
Q-NAP TRADING
P.O.Box: 37809

www.q-nap.com

QATAR

t. (+974) 4411 4892
f. (+974) 4411 4891
e. sales@q-nap.com
p. o.box:37809, Doha, Qatar

Qatar National Aluminium Panel Co.

Date : 01 ,March 2022

To,

M/S: THOMAS BELL-WRIGHT.
Dubai ,UAE.

Subject : Conformation of Manufacturing specification for CLASS B1 FR in KSA FACTORY UNDER OEM.

Dear Sir,

We here confirm that all specification of Manufacturing ALUMINIUM COMPOSITE PANEL under the brand name of QNAP in NATIONAL PANELS COMPANY FOR INDUSTRY -SAUDI ARABIA (OEM) will be same specification as manufactured in QATAR NATIONAL ALUMINIUM PANEL for class B1 fr.

PRODUCT: Q NAP.

MODEL: ACP-FR

PRODUCT DETAILS: Classification B-S1, d0

Area Density: 7.69kg/m2-10.85kg/m3

Standard: EN13501-1:2007/A1:2009

Manufacturing: KINGDOM OF SAUDI ARABIA.

Please issue the certificate of conformity as same as issue to QATAR NATIONAL ALUMINIUM PANEL.

Sincerely,

Sheikh Naif Bin Ali Khalifa Althani.
Chairman

QATAR NATIONAL ALUMINIUM PANEL CO.
C.R.NO : 37928
DOHA - QATAR

QATAR
t. (+974) 4411 4430
t. (+974) 4411 4892
f. (+974) 4411 4891
e. sales@q-nap.com
p. o.box:37809, Doha, Qatar

"Building a Better Future"

www.q-nap.com

Alrayyan Panels

DRAFT WARRANTY

Alrayyan Panels

Warranty and Quality Guarantee

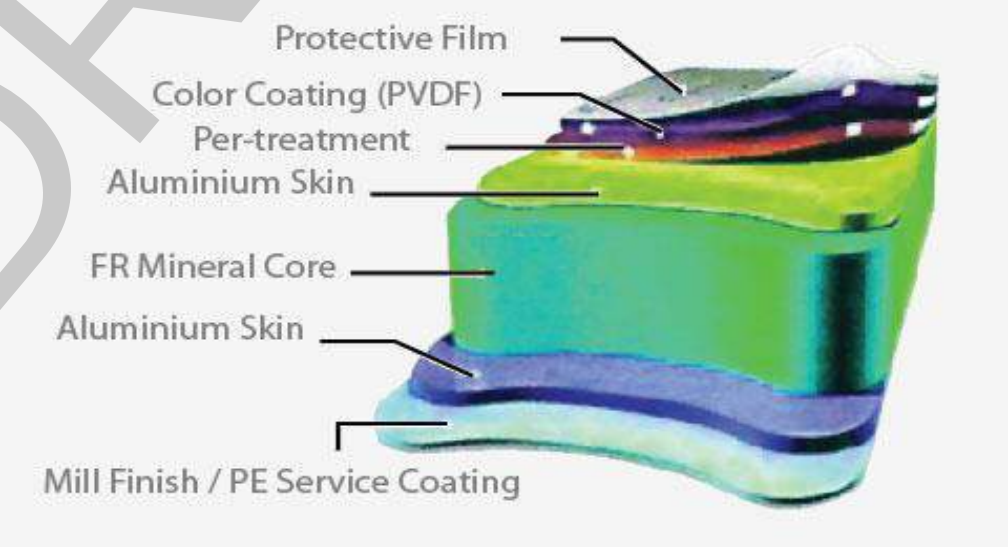
Al Rayyan Panels.

xx/xx/20xx

Introduction

Alrayyan Panel Aluminium Composite Panels are manufactured in state-of-the-art production facilities under a quality system which meets the requirement of ISO 9001:2015, ensuring long term reliability and service life.

In-house quality control and test facilities provide rigorous quality management procedures which are based on ISO, ASTM or BS standards. These test procedures ensure that all products deliver to clients conforms to the necessary specification standards.



(continued)

Alrayyan Panels

To: The Client	
From:	Al Rayyan Panels
Warranty No.:	
INV. No.:	
Item No.:	
D.O	
Delivery Date:	
Project Name:	
Total Quantity:	
Project Location:	
Remarks:	-

I: General Performance

This warranty is issued by Al Rayyan Panels to **Client** guarantees that the aluminum composite panels delivered by it have been manufactured in accordance

with appropriate current, ASTM E84 or BSEN standards in respect of Alloy, temper, shape, geometric properties, physical properties, and strength will resist, for a period of **10 (ten) years** from the date of deliver, the effects of normal atmosphere conditions, including "normal marine" and "normal industrial", i.e.. the sheets will not delaminate, separate or loose adhesion. This warranty is limited only to ACP with top and bottom AL skin of same thickness. All composite panels supplied by Al Rayyan Panels are within the following quality standards:

Thickness tolerance on the skin:	+/- 0.02mm
Thickness tolerance on the panel:	+/- 0.2mm
Length tolerance:	+/-4mm
Width tolerance:	+/-2mm
Bow:	Max. 0.5% of length and/or width
Squareness:	Max. 5mm (5%)
Surface finish:	Free from all surface defect which are visually recognized by inspecting from a distance of 3M with naked eye.

(continued)

Alrayyan Panels

II: Painting Durability

Al Rayyan Panels further warrants to the CLIENT on the ACP surface coated with PVDF on sheets are meeting the fowling exterior durability for a period of **15 (Fifteen years)** from the date of delivery:

- The finish will not peel, chalk, flake, crack or chip to an extent that is apparent on ordinary outdoor visual observation (except for slight crazing or cracking as may occur on normal roll-forming or brake bending and which is acceptable as internally recognized standards or when cracking or crazing is the result of metal fracture).
- The finishing will not chalk in excess of a numerical rating 8 (eight), as measured by the procedure of ASTM D4214-89.
- The finishing will not fade or change color in excess of 5 (five) E units (Hunter Color Difference) as measured by the procedure of ASTM D-2244, and based on the color measurement made on clean surfaces free of all dirt, chalk, oxidized film, oil, grease or other foreign contaminants.

Note:

- Where panels have been ordered in different lots, care to be taken to install these panels in different area and avoid installing adjacent to the previous lot as it is a common phenomenon that there may have a slight color difference between the lots.
- Protective film should be removed from the coated surface within 45 days after completion of installation.
- All ACP sheets with metallic coating shall be installed in one direction as indicated on protective film to avoid shade difference.

Installation reminder:

(continued)

Alrayyan Panels

This warranty will come into effect from the date of delivery, against Acceptance of DO writing.

III: Warranty Limitations/ Exclusions

This warranty is only valid for normal environmental and weathering conditions. This warranty excludes damages caused by exposure to corrosive or aggressive atmosphere. Warranty for areas that are heavily polluted industrial areas, close to coast, or have any other special climate conditions will be determined on an individual basis.

The warranty not valid for sheets exposed to salt spray and the surface of ACP must be maintained by washing with fresh tap water at least annually and documentation of this maintenance must be provided upon request.

This warranty does not include normal pigmentation fading due to exposure to ultraviolet rays or coating failures caused by scratches, scrapes or any other unnatural damages including improperly formed, fabricated or embossed material.

This warranty dose not include damages caused by acts of God, radiation, falling objects, explosions, earthquakes, fires, riots, civil commotions, acts of war, harmful gases or fumes, chemical or foreign substances in the air, or other external forces or unpredictable accidents beyond the control of Al Rayyan Panels.

This warranty shall be solely applicable to CLIENT. This warranty is non-transferrable and non-assignable. The CLIENT or its agents or representatives shall not claim, represent or imply, nor permit its customer, distributors, applicators, contractors or any other person to claim, represent or imply, that this warranty extends or is available to parties other than the CILENT. The CLIENT shall cause any third party to cease and desist any such misrepresentation. This condition shall constitute a material term of this warranty and its violation by the CLIENT shall excuse Al Rayyan Panels from its obligations hereunder.

This warranty will not extend to or cover:

- Damages to the ACP sheets or the Paint occasioned, directly or indirectly, by moisture or other contaminations detrimental to the sheets or the Paint because of improper storage, handling, processing or forming of the sheets prior to installation.
- Water damage to the sheets or the Paint due, directly or indirectly, to condensation caused by improper storage, handling, processing, forming or packaging of the sheets prior to installation.
- Damages to the sheets or Paint caused, directly or indirectly, by handling, shipping, processing, forming and/or installation.

(continued)

Alrayyan Panels

IV: Claim Under Warranty

Al Rayyan Panels agrees to replace, at its sole cost and discretion, any Al Rayyan Panels composite sheets of such defects as shall have been proven by CLIENT to the satisfaction of Al Rayyan Panels not to be in compliance with the aforesaid warranty.

1. Claims under this warranty must be submitted in writing within 30 days of discovering the problem with any sheets.

2. Full compliance by CLIENT with instructions given by Al Rayyan Panels whether in written or oral form, and normal practice of the design, construction and real property industries and of the industry to which CLIENT belong with respect to handling, delivering, storing, processing, treating, installing and maintaining such sheets.

3. Al Rayyan Panels requires the opportunity for site inspection and investigation. The CLIENT is required to provide sufficient information as requested by Al Rayyan Panels.

4. Al Rayyan Panels shall also reserve the right to solely evaluate and determine its obligation under the terms and conditions of this limited warranty.

5. Al Rayyan Panels shall provide feasible repair and/or replacement solution within 7 (Seven) working days upon site inspection and investigation conclusion.

6. If site inspection indicates that Al Rayyan Panels is at fault for the flow in sheets, the CLIENT shall receive replacement at no additional cost.

7. Al Rayyan Panels will not at any event be liable for any special damages or loss for other property or equipment, loss of profit or sales, or any other claims relative to standard business interruption.

8. Al Rayyan Panels will not at any event be liable for the cost of labor expended by others on any defective sheets, unless otherwise specifically authorized in writing by Al Rayyan Panels prior to the performance of any such work.

9. Al Rayyan Panels reserves the right to terminate this warranty at any time upon 30 days advance written notice, except with respect to any sheets which has already been delivered to CLIENT.
   No terms or conditions other than those stated herein, and no agreement or understanding, oral or written, in any way purporting to modify this warranty shall be binding upon a party unless made in writing, expressly refers to this Warranty and is signed by that party's authorized representative. This warranty supersedes and cancels any prior representations, warranties and agreements relating to the subject matters of this warranty.

(continued)

All notices given under or pursuant to this warranty shall be in writing in English and sent by Registered Certified Mail, postage prepaid and return receipt requested to:

QA/QC Engineer

Al Rayyan Panels

All terms and clauses under this warranty are to be construed and interpreted in accordance with Saudi Law, and the parties shall submit to the exclusive jurisdiction of the Courts in KSA.

For and on behalf

of: Al Rayyan Panels

THE END

Alrayyan Panels

PROJECT LIST

QATAR RAIL-DOHA METRO STATIONS (FR)

AL-WAKRAH STADIUM PROJECT (FR)

KHALIFA INTERNATIONAL STADIUM DOHA – QATAR (FR)

BARWA COMMERCIAL AVENUE (B.C.A)

AL SADD BARWA COMPLEX

OFFICE BUILDINGS - KUWAIT

AL REFFA TOWER

QATAR HANDBALL ARENA

LUSAIL TOWER

CHILDREN'S MALL

BUSINESS PARK

WOQOD PETROL STATIONS (Alrayyan Panels FR) & SINCO

WOQOD TOWER

AL DAREEN TOWER

MARWA TOWER

PREVIOUS APPROVALS
&
ACCERDITATIONS

Qatar Deserves The Best

EGEC

ALMUNTASSER CONTRACTING & TRADING

SUBMITTAL FOR APPROVAL OF SUBCONTRATOR / SUPPLIER

Project Name:	Design and Build for Construction of Document Store and Modification of Warehouse & Workshop at Asset Affairs Salwa Office.	Ref. No.:	C023 1-AMCT-CON-ARCH-0017
Contract Ref.:	PWA/ITC/31/2019/ID-BA 2019 C023 I	Rev. No.:	0
Client:	Public Works Authority	Date:	01-06-20
Supervision Consultant:	EGEC Qatar for Engineering Consultation	Copies:	2 Hard Copies + 1 Soft Copy
Designer:	United Consultants	From:	AMCT
Contractor:	Al Muntasser Contracting and Trading	To:	EGEC

To: SUPERVISION CONSULTANT

We request your approval on the following Subcontractor:

SUBCONTRATOR NAME: Qatar National Aluminum

Company Line of Work : Aluminum & Glazing Works (Cladding, Doors & Windows)

Specification : Approved Vendor List

Enclosures :

Standards: Project Spec/QCS 2014

BOQ Ref. No. :

Document No.:

Address : Doha-Qatar

Country of Origin : Qatar

FOR THE CONTRACTOR:

Name: QA/QC Engineer Signature: Date: 1/6/2020

Name: Project Manager Signature: Date:

CLIENT'S COMMENTS:

- REFER TO ATTACHED COMMENT SHEET

03.06.2020

Submittal Status:

- ☐ A- Approved As Submitted*
- ☒ B- Approved as Noted*
- ☐ C- Revise /Resubmit
- ☐ D-Disapproved-Resubmit
- ☐ E-Receipt acknowledged

The company representative returns hereby this submittal for approval of subcontractor by the engineer. Approval by the engineer shall not relieve the contractor of its obligation and liabilities under the contract or constitute authorization of any change to contract documents and therefore, shall not imply any recognition whatsoever additional time or cost to the contract.

FOR SUPERVISION CONSULTANT

Name: Signature: Date:

Receiving by Contractor

Name: Signature: Date:

Received by 04/06/2020

RECEIVED 01-06-2020

TRUST

879-Q-T19-PRIME SQUARE BUILDING (6B+G+M+10)

MATERIAL APPROVAL SUBMITTAL

ISO Doc No:TEC-PRJ-F04; Rev: 00;Date:05/11/2018

To :	TRUST ENGINEERING CONSULTANCY	Date:	7 MAR 2020
Attention to:	Eng. Ahmed Fouda/Eng. Mohamed Eid/Ali Naguib	Ref. No:	TRUST-879-MS-AR-2019-087
Designation:	Civil Engineer	Rev. No:	0

SILICONE SEALANT AND BACK UP ROD

MATERIAL DESCRIPTION : SILICONE SEALANT AND BACK UP ROD

NAME | TYPE OF MATERIAL: SILICONE WEATHERPROOFING SEALANT AND BACK UP ROD

AREA | LOCATION IN THE WORKS: ACP CLADDING JOINT

MANUFACTURER'S NAME AND ADRESS:

Name: DOW CORNING AMD ARNON

Address: Phone:

Contact Person: Fax

SUPPLIER'S NAME AND ADDRESS:

Name: QNAP

Address: Phone:

Contact Person: Fax:

Delivery:

Country of Origin: ARNON - KSA AND DOW CORNING - CHINA

Availability: Locally ☐ Overseas ☐

Estimated time for delivery on site:

DOCUMENTS ENCLOSED:

Sample	☐	Spec. Ref.:	☐
Technical Documents	☐		
Tests	☐	Dwg. Ref.:	☐
Certificates	☐		
Others (Previous Approval)	☐		

The above submitted material has been checked for conformance with drawings and specifications for this project any deviations from plans and specifications have been noted on the material or listed in the remarks above.

Prepared & Submitted by: PRIME CONTRACTING Representative: SHAKIRUL JALAL Signature: Date: 7 MAR 2020	Received by: TRUST ENGINEERING CONSULTANCY Signature: Date:

REVIEWED
14 MAR 2020
BY:

CONSULTANT'S NOTE/S AND COMMENTS:

- No objection for using material.
- Contractor must follow manufacture specs.

Legend: APP ☐ (Approved) AAN ☑ (Approved as Noted) R&R ☐ (Revise & Resubmit) RE ☐ (Rejected) More Info. Required ☐

Reviewed by: TRUST ENGINEERING CONSULTANCY Name: Date: 15/03 KOUSHIK MUKHERJEE Signature:	Returned to: PRIME CONTRACTING AND TRADING Name: Date: Signature:

Accepted by: PRIME LANDS REAL ESTATE DEVELOPER

Name: Signature: Date:

PRIME CONTRACTING AND TRADING S.R.C
PRIME SQUARE PROJECT
DOCUMENT TRANSMITTAL

Product Information

Silicone Sealants

DOW CORNING

Dow Corning® 791 Silicone Weatherproofing Sealant

FEATURES

- Ideal for expansion, connection, perimeter and other movement joints
- Neutral cure – suitable for use on coated glass, galvanized steel, copper, masonry and other porous and non-porous substrates
- Low modulus sealant according to ISO standards; medium modulus according to Dow Corning standards
- Extension/compression movement capability of up to ±50 percent of the original joint width

BENEFITS

- Excellent weatherability, virtually unaffected by sunlight, rain, snow, ozone or temperature extremes
- Excellent unprimed adhesion to a wide variety of construction materials and building components, including *Kynar*™[1] and anodized coated aluminum; for further clarification, refer to the application method in this data sheet
- Ease of application – ready to use as supplied
- Excellent rheology, low string upon gunning
- Meets global standards (America, Asia and Europe)
- Compatible with all Dow Corning structural sealants

COMPOSITION

- One-part, neutral-cure sealant

[1]*Kynar* is a trademark of Arkema Chemicals, Inc.

Neutral, one-part silicone sealant

APPLICATIONS

Dow Corning® 791 Silicone Weatherproofing Sealant is a specified, premium performance weathersealing product specifically designed for general glazing and weathersealing in curtainwall and building facades

TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning Sales Application Engineer or Dow Corning Customer Service before writing specifications on this product.

Method	Test	Unit	Result
Uncured – As Tested at 50% RH and 23°C (73°F)			
ASTM[1] D 2202	Flow (sag or slump)	mm (inches)	0
ASTM C 603	Extrusion Rate	g/minute	210
CTM[2] 9883	Working Time	minutes	15
ASTM C 679	Tack-free Time	minutes	35
	Curing Time	days	7-14
CTM 9778	Specific Gravity		1.52
	Application Temperature Range	°C (°F)	-25 to 50 (-13 to 122)
	VOC Content[3]	g/L	46
As Cured – After 7 days at 50% RH and 23°C (73°F)			
ASTM D 2240	Durometer Hardness, Shore A	points	30
ISO[4] 7389	Elastic Recovery	percent	91
ISO 9047	Movement Capability	percent	±50
ISO 11600	Sealant Class		Low Modulus 25LM F and G
As Cured – After 28 days at 50% RH and 23°C (73°F) – 12 x 12 x 50 mm T-A. joint (ISO 8339) [0.5 x 0.5 x 2 inch T.A. joint (ASTM C 1135)]			
	Tensile/Modulus at 25% Elongation	MPa (psi)	0.3 (40)
	Tensile at 50% Elongation	MPa (psi)	0.35 (60)
	Modulus at 100% Elongation	MPa (psi)	0.4 (70)
	Ultimate Tensile Strength	MPa (psi)	0.75 (120)
	Ultimate Elongation at Break	percent	460
ASTM C 711	Service Temperature Range	°C (°F)	-50 to 150 (-58 to 302)

[1]ASTM – American Society for Testing and Materials.
[2]CTM – Corporate Test Method; copies of CTMs are available on request.
[3]Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds. For a VOC data sheet for a specific sealant color, please send your request to product.inquiry@dowcorning.com.
[4]ISO – International Standardization Organization.

DESCRIPTION

Dow Corning 791 Silicone Weatherproofing Sealant is a one-part, neutral-cure, architectural grade sealant. It easily extrudes in any weather and quickly cures at room temperature by reaction with moisture in the air to form a durable, flexible silicone rubber seal.

APPROVALS/ SPECIFICATIONS

Meets the requirements of:

- ASTM C- 920 Type S, Grade NS, Class 50, Use NT, M, G, A
- ISO 11600 F&G-25LM
- GB/T 14683b G and F (China)
- BS 5889
- D 18540 Class NF
- SNJF Vitrage et Façade Category 1

SEALANT · WATERPROOFING & RESTORATION INSTITUTE

Issued to: Dow Corning Corp.

Product: 791 Silicone Weatherproofing Sealant

C719: Pass ✓ Ext: +50% Comp: -50%

Substrate: Mortar, Aluminum, Glass
[Dow Primer P used on mortar substrates]

C661: Rating 40

Validation Date: 9/03/04 – 9/03/09

No. 904-791909 *Copyright © 2004*

SEALANT VALIDATION
www.swrionline.org

Colors

This product is available in 6 colors: black, gray, bronze, limestone, precast white and white.

HOW TO USE

Please consult the *Dow Corning Americas Technical Manual*, Form No. 62-1112, for detailed information on state-of-the-art application methods and joint design. Please contact your local Dow Corning Sales Application Engineer for specific advice.

Preparation

Clean all joints removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

Application Method

Install backing material or joint filler, setting blocks, spacer shims and tapes. Areas adjacent to joints may be masked to ensure neat sealant lines. Primer is generally not required on non-porous surfaces. On porous surfaces, Dow Corning recommends that a test sample be carried out prior to application. To confirm optimum adhesion on either a porous or non-porous surface, adhesion testing should always be carried out prior to the commencement of any project. Please contact your local Dow Corning Sales Application Engineer for specific advice.

Apply *Dow Corning* 791 Silicone Weatherproofing Sealant in a continuous operation using a positive pressure. Tool the sealant with light pressure to spread the sealant against backing material and the joint surfaces before a skin forms. The applied sealant should be tooled within 15 minutes or before a cured skin forms. Remove masking tape as soon as the bead is tooled.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 30°C (86°F) in the original unopened containers, *Dow Corning* 791 Silicone Weatherproofing Sealant has a usable life of 12 months from the date of manufacture. Refer to product packaging for "Use By" date.

PACKAGING

Dow Corning 791 Silicone Weatherproofing Sealant is available in 300- and 310-mL (10.1- and 10.5-fl oz) disposable cartridges and in 500- and 600-mL (16.9- and 20.3-fl oz) foil sausages depending on location of purchase. Please check with your local Dow Corning Sales Application Engineer for local packaging range availability.

LIMITATIONS

This product is not approved for use as a structural sealant.

This product should not be applied:

- To building materials that bleed oils, plasticizers or solvents, green or partially vulcanized rubber gaskets or tapes
- In totally confined spaces
- For continuous immersion in water or in below-grade applications
- When surface temperatures exceed 50°C (122°F)
- To frost-laden or wet surfaces

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our web site, www.dowcorning.com, or consult your local Dow Corning Sales Application Engineer.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

A 20-year Weatherseal Limited Warranty is available. Some testing may be required. Consult your Dow Corning Sales Application Engineer for details.

Printed in USA.
Form No. 62-1345F-01

AGP7200

CFC Free ARNON BACK-UP ROD™

DESCRIPTIONS:

DIMENSION	STANDARD PACKAGE / BAG
6	800 m/Bag (8 pcs x 100 m)
8	800 m/Bag (8 pcs x 100 m)
10	800 m/Bag (8 pcs x 100 m)
12	800 m/Bag (8 pcs x 100 m)
15	360 m/Bag (6 pcs x 60 m)
20	200 m/Bag (4 pcs x 50 m)
25	100 m/Bag (4 pcs x 25 m)
30	100 m/Bag (4 pcs x 25 m)
40	100 m/Bag (4 pcs x 25 m)
50	100 m/Bag (4 pcs x 25 m)
60	100 m/Bag (4 pcs x 25 m)

APPLICATIONS:

- Used as a filler decoration purposes.
- Used as an expansion joint and filler for precast, steel and concrete projects.

PROPERTIES	UNIT	VALUE	TEST METHOD
DENSITY	g/cm³	0.04	ASTM D-792
CELL SIZE	mm	0.82	ASTM D-3576
WATER ABSORPTION	mg/cm²	0.08	ASTM D-570
MOISTURE PERMEABILITY	g/cm².24hr	0.5	ASTM D-570
ELONGATION AT BREAK	%	60	ASTM D-638
THERMAL CONDUCTIVITY	W/m².°C	0.0406	ASTM D-5930
PERMANENT COMPRESSION SET (100 KG, /CM²)	%	1 - 2	ARNON METHOD

* The recommendation in this bulletin is made without guarantee since the condition of use are beyond our control

ARNON PLASTIC INDUSTRIES CO., LTD. شركة أرنون للصناعات البلاستيكية
P.O. Box 60290 Dammam 31545, Kingdom of Saudi Arabia
Tel: +966 03 812 2097 Fax: +966 03 812 2098
info@arnon.com.sa www.arnon.com.sa

4 LDPE

CFC Free

ارنـــون
ARNON

ARNON PE FOAM BACKUP ROD®

ANON PE FOAM BACKUP ROD® IS MADE UP FROM EXTRUDED LDPE (GRADE HP 2022 J) AND FOAMED WITH BUTANE GAS.
MATERIAL IS CFC FREE AND % 100 RECEYCLABLE.

ARNON PE FOAM BACKUP ROD® IS ROUND IN SHAPE, LIGHT IN WEIGHT COMPRESSIBLE, CLOSE CELLED, IMPERMEABLE WITH A FAIRLY TOUGH NON POROUS SKIN.

ARNON PE FOAM BACKUP ROD® IS COMPATIBLE WITH ALL SILICON BASED SEALANTS.

ARNON PE FOAM BACKUP ROD® CAN WELL FUNCTION IN TEMPERATURE RANGING BETWEEN -40˚C TO +80 ˚C.

ARNON PE FOAM BACKUP ROD® IS RESISTANT TO FUNGI, MOULDS AND BACTERIA AND CHEMICALS.

PROPERTIES	TEST	RESULT
Density	ASTM D- 792	0.04g/cm³
Cell Size	ASTM D- 3576	0.82mm
Thermal Conductivity	ASTM D- 5930	0.0406 w/moc
Elongation	ASTM D- 638	60%
Moisture Permeability	ASTM D- 570	0.5mg/m² 24hrs.
Permenant compression set	Inhouse Test	10%(100kgf/cm²)
Water absoption	ASTM D-570	0.08 mg/cm²

THANKS AND REGARDS

AHMAD KATERGI
SALES MANAGER
MOB: +966 504 830 560
katergi@arnon.com.sa

SPECIALIZED ALUMINUM & STEEL CO.

ارنـــون
ARNON

ARNON BACKUP ROD

Arnon backup rods provide the following benefits to aide in the correct application of sealant joints.

1.) To control and provide the desired sealant depth.
2.) Create a formed joint cavity that allows for the desired hourglass sealant shape.
3.) Provide a firm backup which helps attain full wetting of the substrates when the sealant is tooled.
4.) Act as a bond breaker to eliminate adhesion on the backside of a joint (three-sided adhesion).

Backer rod should be 25-50% greater than the width of the joint, thereby providing continuous pressure against the joint walls, and expanding and contracting with the joint movement without pushing the sealant out of the joint during the compression cycle or falling away during the extension cycle.

Application:

1. Joint or opening should be clean and dry and free of all contaminates, loose materials, dry, and free of water or frost.

2. To install, compress backer-rod into the joint before sealants are applied. Install backer-rod using a blunt tool or a plain faced roller.

3. Force the rod to the depth recommended by sealant manufacturer, (typically about 1/2 of joint width measured at the crown of the backer rod). A template or roller gauge may be used to control the depth at which the rod is placed.

4. Don't stretch, puncture or tear backer-rod during installation but gently force into the joint so that the backer-rod fits tight against the sides of the joint. Use a backer-rod roller or smooth tool to set backer rod to proper depth.

SAMPLE FOR SILICON SEALANT – M/S QNAP(ACP CLODING JOINT)

- DOW CORNING (DOWSIL) -791 WHEATHER SEALANT BLACK COLOR

PROJECT- PRIMELANDS SQUARE BUILDINGS
CLIENT- PRIMELANDS REAL STATE
CONSULTANT- TRUST ENGINEERING
MAIN CONTACTOR- PRIMELANDS TRADING & CONTRACTING
SUB-CONTRACTOR- QATAR ALUMINIUM PANEL (QNAP)

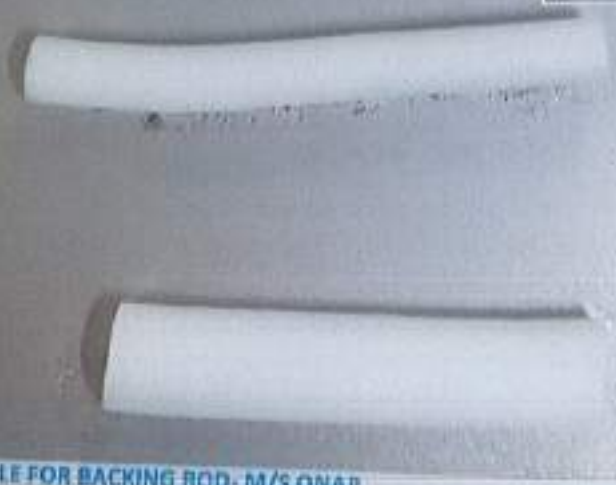
TRUST

879-Q-T19-PRIME SQUARE BUILDING (GB+G+31F)

MATERIAL SAMPLE

Description	SILICONE SEALANT AND BACK UP ROD
Submittal No	[illegible] 879 MS AR 2019 083 REV. 0
Date Submitted	14 Mar 19
Supplier Name	QNAP

Submittal status
Approved Approved as noted Revise & Resubmit Rejected
Signature



SAMPLE FOR BACKING ROD- M/S QNAP

- 10MM THICK WHITE COLOUR
- 20MM THICK WHITE COLOUR

PROJECT- PRIMELANDS SQUARE BUILDINGS
CLIENT- PRIMELANDS REAL STATE
CONSULTANT- TRUST ENGINEERING
MAIN CONTACTOR- PRIMELANDS TRADING & CONTRACTING
SUB-CONTRACTOR- QATAR ALUMINIUM PANEL (QNAP)

TRUST

879-Q-T19-PRIME SQUARE BUILDING (6B+G+M+10)

MATERIAL APPROVAL SUBMITTAL

ISO Doc No:TEC-PRJ-F04; Rev: 00;Date:05/11/2018

To :	TRUST ENGINEERING CONSULTANCY	Date:	13 JUN 2020
Attention to:	Eng. Ahmed Fouda/Eng. Mohamed Eid/Ali Naguib	Ref. No:	TRUST-879-MS-AR-2020-092
Designation:	Civil Engineer	Rev. No:	0

ACP Cladding rework

MATERIAL DESCRIPTION :	ACP + TREMCO-SPECREM-2 SEALANT
NAME | TYPE OF MATERIAL:	SILICON SEALANT+ ACP
AREA | LOCATION IN THE WORKS:	ACP CLADDING

MANUFACTURER'S NAME AND ADRESS:

Name: TREMCO & QNAP

Address: Phone:

Contact Person: Fax

SUPPLIER'S NAME AND ADDRESS:

Name: QNAP

Address: Phone:

Contact Person: Fax:

Delivery:

Country of Origin: SOUTH KOREA

Availability: Locally ☑ Overseas ☐

Estimated time for delivery on site:

DOCUMENTS ENCLOSED:

Sample	☑	Spec. Ref.:	☐
Technical Documents	☑		
Tests	☐	Dwg. Ref.:	☐
Certificates	☐		
Others (Previous Approval)	☐		

The above submitted material has been checked for conformance with drawings and specifications for this project any deviations from plans and specifications have been noted on the material or listed in the remarks above.

Prepared & Submitted by: PRIME CONTRACTING

Representative:

SHAKRUL JALAL

Signature: Date: 13 JUN 2020

RECEIVED

Received: TRUST ENGINEERING CONSULTANCY

14 JUN 2020

Signature: Date:

CONSULTANT'S NOTE/S AND COMMENTS:

- no objection , subject to client approval.
-max hole size to be 2cm & cover to be 5cm max.
-provide sample as per site with location on drawings.
-final approval after mock-up on site.
- dont install any work on site before client approval on concept and mockup approval.

Legends: APP ☐ (Approved) AAN ☑ (Approved as Noted) R&R ☐ (Revise & Resubmit) RE ☐ (Rejected) More Info. Required ☐

Reviewed by: TRUST ENGINEERING CONSULTANCY

Name: Ali Naguib

Date: 17/06/2020

Signature:

Ahmed Zabady
2020.06.17
10:42:44 +03'00'

Returned to: PRIME CONTRACTING AND TRADING

Name:

Date:

Signature:

Accepted by: PRIME LANDS REAL ESTATE DEVELOPER

Name: Signature: Date:

PRIME CONTRACTING AND TRADING S.P.C

PRIME SQUARE PROJECT

DOCUMENT TRANSMITTAL

HBK Contracting Company 中国铁建

26 SEP 2019

RECEIVED

TIME Qatar
Lusail Stadium Project

15 SEP 2019

RECEIVED

HBK Contracting Company 中国铁建

Sample with TQ

TECHNICAL DOCUMENT SUBMITTAL FORM

Document No:	SC-C01-CAG-HBC-MAS-AR-00649 **Rev**	**1**	**Date:** 14 Sep 2019
Title:	Material Submittal for Metal Curved Ceiling (CLG-705) and Shape Column with Metal Cladding (LIN-304) - Alternative		
Project/Work Package:	Main Works for Lusail Stadium & Precinct		

Type of Submittal

LOUIS BERGER Doha - Qatar LUSAIL STADIUM 15 SEP 2019 03:00 PM RECEIVED

- ☐ Sub-Contractor / Prequalification
- ☒ Materials & Product Data
- ☐ Company Profile
- ☐ Shop Drawings
- ☐ Design Calculation
- ☐ Mock Up Report
- ☐ Method Statement
- ☐ Inspection &Test Plan (ITP)
- ☐ O & M Manual
- ☐ Testing and Commissioning Report
- ☐ Others (pls. specify below)

SUBMITTAL DESCRIPTION:

CIVIL	STRUCTURAL	ARCHITECTURAL	ELECTRICAL	MECHANICAL	OTHER
☐	☐	☒	☐	☐	☐

Specification Ref.:	Section 095436 & 064223	**Location / Use:**	
Drawing Ref.:	Please refer to Section 3	Lusail Stadium	
Description of Material	Metal Curved Ceiling (CLG-705) and Shape Column with Metal Cladding (LIN-304)	**Manufacturer (Name & Address)**	**QNAP**

For Service Provider *(Brief description of the service provided)*:

Material Submittal for Metal Curved Ceiling (CLG-705) and Shape Column with Metal Cladding (LIN-304) – Alternative - (Physical Sample included – 1 No.)

Note: Please use additional sheets, if necessary

Name:	Position:	Signature:	Date:
Liu Dawei	**Project Manager**		15-9-19

Construction Supervision Review: Date Received

- ☐ Level 1 – Revise and Resubmit
- ☐ Level 2 – No Objection with Comments
- ☑ Level 3 – No Objection
- ☐ Level 4 – Accepted for information only
- ☐ Level 5 – Rejected

Name:	Position:	Signature:	Date:
Marco Frioni	**Lead Engineer / Director**		19 SEP 2019

Project Management/Construction Management Recommendation: Date Received

Note: Please use additional sheets, if necessary

Engineers Authorization Required : **YES** ☑ **NO** ☐

Name:	Position:	Signature:	Date:
Omar Nasser	**Project Manager**		25/9/19

Engineer Final Feedback (WHEREVER APPLICABLE) Date Received

Note: Please use additional sheets, if necessary

Agree : **YES** ☐ **NO** ☐

Name:	Position:	Signature:	Date:

مطار حمد الدولي
Hamad International Airport
QATAR قطر

Hamad International Airport
P.O. Box 24659
Doha, Qatar
T +974 4010 6666
F +974 4010 4010
E-mail Address: info@dohahamadairport.com

مطار حمد الدولي
صندوق البريد ٢٤٦٥٩
الدوحة قطر
هـ +٩٧٤ ٤٠١٠ ٦٦٦٦
ف +٩٧٤ ٤٠١٠ ٤٠١٠
البريد الإلكتروني

05 AUG 2019

Date: 4th August 2019
Ref.: HIA/FM/PTC/2019/0008-0889

Ms. Irene Vidal Fernandez
Chief Executive Officer
Facilities Management and Maintenance Company LLC
Doha, State of Qatar

Dear Ms. Irene,

Contract: **NDIA-FM- 0008 Facility Management Services for Passenger Terminal Complex, Public Mosque and Associated Facilities at HIA**

Subject: **HIA Aluminium Composite Panel Existing Sample**

With reference to the above mentioned subject and further to your letter ref. FMM-CEO-FM008-039-19 dated the 28th of July 2019, kindly be informed that the proposed finishing coat (TRINAR high- performance fluoropolymer coating) is in compliance with NDIA material specification. Therefore, HIA FM has no objection for the proposed material.

The above is for your information and further action.

Best regards,

Michael McMillan
Vice President Facilities Management

Encl.: 1. FMM letter ref. FMM-CEO-FM008-039-19 dated the 28th of July 2019

Mr. Michael McMillan,
Vice President
Hamad International Airport
PO box 24659,
Doha,
Qatar

Our Ref: FMM-CEO-FM008-039-19

Date: 28 July 2019

Contract: NDIA-FM-0008 Facility Management Services for Passenger Terminal Complex, Public Mosque and Associated Facilities at HIA

Subject: HIA Aluminium Composite Panel Existing Sample

Dear Mr. McMillan,

With reference to the above mentioned subject and further to your letter Ref. HIA/FM/PTC/2019/0008-0805. FMM would highlight that the material proposed is produced at QNAP "Qatar National Aluminum Panel" factory, which is currently the only local source of ACP spare parts.

We have consulted the concern mentioned in your letter with QNAP who provided for clarification coil coating system product data (attached as Appendix 2) and as well a comparative compliance statement to NDIA specifications section 07413 and 09801 (Appendix 1) for your review and consideration.

In addition, please note that the proposed product coating is supplied with a 20 years warranty and extensively used in Qatar by entities such Q Rail (at HIA Project), Ashghal or Wooqod.

Please do not hesitate to revert should further information or clarification be required on the above.

Yours Sincerely,

Irene Vidal Fernandez
Chief Executive Officer

CC.: Mr. Brian Pell, Sr. Maintenance Manager, FMM
Mr. Lluis Arnan, Maintenance Manager, FMM
Mr. Pablo Elizalde, Operations Director, FMM

Appendix 1 NDIA Specification compliance statement issued by QNAP
Appendix 2 High Performance PVDF coil coating system, product data

جامعة قطر
QATAR UNIVERSITY

HCC HASSANESCO

MATERIAL SUBMITTAL

Project:	Construction of New Student Affairs Building	Ref. No.: HCC/NSA/MAT/ARC-005 REV 02	
Contract No.:	ع/139/2017	Eng. Ref.	MAT/ARC-052
Client:	Qatar University	Date:	25-Feb-19

FROM: Hassanesco Trading & Contracting WLL — TO: Khatib & Alami

Planned Submission Date: 12/5/19 — Planning Eng: 29/2/19

We request your approval on the following Materials

MATERIAL DESCRIPTION: **Aluminium Cladding**

DESCIPLINE: ☐ Structural ■ Architectural ☐ Mechanical ☐ Electrical ☐ Others

Area of Application	: Aluminum cladding where specified in the drawing	WBS ID	
Drawing Ref.	: A2-04A, A2-03A,A4-01,A4-02,A4-03,A4-04 & A4-05	BOQ Ref. No.: Section 17 page 17/01 - 17/02	
Specification	: QCS 2014 Section 17 Part 02	Standards	QCS 2014 SECTION 17
Enclosures	: 1 original + 2 xerox copies + Sample	Document No.	

Attach all relevant technical literature marked to identify relevant description, current test certificates, samples as appropriate

MANUFACTURER/SUPPLIER		DELIVERY	
Manufacturer Name	: Qatar National Aluminium Panel Co. (QNAP)	1.Country of Origin	: Qatar
Address	: Pink Area, Small & Medium Industries Zone, New Industrial Area Doha, Qatar, P.O Box 37809	2.Availability	: As per required
Local Agent / Supplier	: Qatar Belgium Aluminium Company	3.Delivery Program	: As per required
		4.Ex works Total Duration :	
Addressed	: Building, No. 173, Zone 81, Street No. 8 ,Pink Zone, New Industrial Area, P.B NO.22135, Doha, Qatar	5. Estimated date of Arrival to Site	
We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawing and specifications except as otherwise stated; and also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in full conformity with timely delivery		6.Estimated Date of Installation on Site :	

FOR : THE CONTRACTOR

Prepared By	Checked By	Reviewed By	Reviewed By	Approved By
Procurement Manager	Engineering Manager	QA/QC Manager	GSAS Coordinator	Acting Project Manager
Engr. Mohamed Fekry	Name: Engr. Ehab Essam	Name: Engr. Sayed Hassan	Name: JAN HAKIM	Name: Engr. Mohammed Fadaly
Sign: P.P 27/2/19	Sign: 27/2/19	Sign: 27/2/2019	Sign: P.P 25/2/2019	Sign: 27/2/2019

RECEIVED BY CONSULTANT:

Name: _____ Signature: _____ Date: _____

CONSULTANT COMMENTS:

REFER TO OUR COMMENTS ON THE ATTACHED COMMENTS SHEET

ACTION CODE

☐ A-Approved ☑ B-Approved as Noted ☐ C- Revise / Resubmit ☐ D-Not Approved ☐ E- Further Information Required

CONSULTANT : P.P

Project Manager : Natheef Abu Haweeleh

Signature: _____ Date: 11/3/2019

RECEIVED BY CONTRACTOR:

Name: _____ Signature: _____ Date: _____

Approval shall not relieve contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

RECEIVED 11 MAR 2019 HASSANESCO M2S

RECEIVED 07 MAR 2019 BY: 7:00 KHATIB&ALAMI-NSP

جامعة قطر
QATAR UNIVERSITY

COMMENTS SHEET

Date	**09-March-2019**	**Ref. No.**	**CS-1233**
Project Name	New Student Affairs Building- Qatar University		
Document Ref. No.	HCC/NSA/MAT/ARC-065 Rev.02	Received Date	02-March-2019
Contractor	Hassanesco Trading and Contracting W.L.L.		
Subject	Material Submittal for Aluminum Cladding		

☒ Material Submittal	☐ Shop Drawing	☐ Method Statement	☐ PQ	☐ MIR	☐ Document Transmittal

K&A Comments:

I. **Technical Submittal:**
1. All work shall be in full compliance with the project documents.
2. Fixation accessories samples shall be provided separately.
3. Relevant shop drawings & fixation details are to be submitted upon material and calculation approval.
4. Full compliance with Project Specification and Contract Document.
5. Mockup shall be prepared for final confirmation at site for approval.
6. The maximum horizontal support distance shall be 1000mm as per provided calculations.
7. All other supports each 100mm & 200mm shall be provided as per calculations.
8. Panel thickness shall be min. 4.0mm.

II. **Sample Submittal:**
1. Selected sample color is light grey OBM-102.

☐ A Approved	☒ B Approved as Noted	☐ C Revise/Resubmit	☐ D Not Approved	☐ E Further Info. Required

Checked by:		Approved by:
K&A Engineer		K&A Project Manager
Radonja Obucina	**Amin El Dahshan**	**Mohammed Salman**
Signature:		Signature:
Date: 09/03/2019		Date: 10/3/2019

EXTERNAL TRANSMITTAL NOTE
ENGINEERING DEPARTMENT - ONSHORE (PIPELINE PROJECTS)

Project No	: **4091**	Transmittal No :	
Contract No	: **GC18104500**	**PNP/GC18104500/EXT/TN/7930**	
Contract Title	: **EPIC FOR CNG STATIONS IN RLIC & MIC**		

Forwarded to	**Review Codes**
Company : Black Cat Engineering and Construction WLL **F.a.o.: Mr. Paolo Borchetta**	10 Approved (Re-submission Not Required)

Item No.	QP Document No.	Rev.	Your ref.	Description	Code	Due date
1	4091-1-MAR-0088	3	GC18104500/PNP/TN/7788	MATERIAL APPROVAL REQUEST (MAR) FOR ALUMINUM COMPOSITE PANEL CLADDING	10	

Remarks:

Condition:

Document Controller	Nominated Deputy	QP Representative	Date
Tel: 401 36761 Cristian Dale Pingol, PSD3002C	**Tel:** 44055852 Anuj Kumar Narayanan, PNP21	Ahmad Mohamed Al-Awlaqi, PNP	02-02-2020

1. THIS TRANSMITTAL IS SYSTEM GENERATED AND SIGNED-OFF ELECTRONICALLY AND WET-INK SIGNATURE IS NOT REQUIRED.
2. REFER TO ATTACHED COMMENT SHEET AND MARKUP ATTACHMENTS, IF ANY AND PLEASE CONFIRM THE RECEIPT OF THIS TRANSMITTAL IN THE SYTEM (ASSAI).

Receiver's Signature Over Printed Name	Designation	Date

Qatar Deserves The Best

ECG ENGINEERING CONSULTANTS GROUP S.A.

Al Jaber Trading & Contracting Co. W.L.L.

DOCUMENT SUBMITTAL

TRANSMITTAL NO.: JTC-SHCP9-TR00244 **DATE:** 15 MAY 2018

PROJECT NAME: Construction of Health Center at Al Shamal–Package 9 **PROJECT NO.:** Ba 14/15 C 085 G

CONSULTANT: ECG (Engineering Consultants Group S.A)

CONTRACTOR: Al Jaber Trading & Contracting Co. W.L.L.

SUBMITTAL TYPE

☐ Technical Submittals ☐ Method Statement ☐ Reports ■ Prequalification of subcontractor

☐ PQP / ITP ☐ Schedule ☐ Supplier Approval ☐ Test Reports

☐ O&M Manual ☐ Certificates ☐ Others

TRANSMITTED FOR

■ Approval ☐ Review & Comments ☐ Information/Records ☐ As Requested

METHOD OF TRANSMISSION

■ Hand ☐ Email ☐ Mail ☐ Upload via FTP

SI	DESCRIPTION	Document Ref. No.	Rev. No.	Format		No. of Copies	Remarks
				Hard	Soft		
1	Prequalification Document of M/s Qatar National Aluminium Panel Co. as Manufacturer for Al Shaheen Factory for Aluminium Cladding	JTC-SHCP9-PRS-0058-AR	00	■	■	2	

CONTRACTOR		CONSULTANT	
Sr. QA/QC Engineer	Project Manager	Received By	Date & Time

Consultant Comments:

- The site visit is conducted to the factory on 19/05/2018 and the photos is attached.
- Accepted subject to provide third party mill certificates for the Aluminium sheet from china for approval in compliance with the project's specs.

Action Code: ☐ A= Approved ☑ B= Approved as Noted ☐ C= Revise & Resubmit D= Rejected

ECG ENGINEERING CONSULTANTS GROUP S.A. AL SHAMAL HEALTH CENTER
B: APPROVED AS NOTED
Work May Proceed Subject to Incorporation of Changes Indicated

Discipline Engineer: **Date:** 20/05/2018

CONSULTANT		CONTRACTOR	
Project Manager	20/5/2018 Date	Received By	Date

Al Jaber Trading & Contracting Co. W.L.L. Shamal Health Center - Package 09 ... MAY 2018

RECEIVED TIME: 9:45 SIGN:

20/May/2018

Form No. 1999-FRM-C001, Rev. 0, 10/2017

Qatar Rail

Material Approval Request Review Sheet (Engineer)

Company Management System

PROJECT	[illegible]			PROJECT NO.	[illegible]
DOCUMENT NUMBER	[illegible]	REV.		DATE	[illegible]
ORIGINATOR	[illegible]			TRANSMITTAL NO. / DATE	[illegible]
DOCUMENT NO.	[illegible]	REV	[illegible]	[illegible]	ARC
DOCUMENT TITLE	Material Approval Request [illegible]			DOCUMENT TYPE	MAR
MATERIAL MANUFACTURER	[illegible]			PROPOSED MATERIAL SUPPLIER	[illegible]
LOCATION OF MANUFACTURER	Qatar			COUNTRY OF ORIGIN	[illegible] YES [illegible] NO
[illegible] APPROVAL	Required YES	[illegible]	YES	MATERIAL SAMPLE PROVIDED	Yes
[illegible] APPROVAL	[illegible] NO	[illegible]			

Comment Code [illegible] | Reply Code [illegible]

[illegible] | Incorporated [illegible] | Reply Closed

No.	Initial	Page/Section	Comment Code	Reviewer's Comments (PMC/CAO, CTG)	Reply Code	QRS Contractor/Other Party Reply	Reply Closed by Reviewer
1	[illegible]	General	2	[illegible]			

[illegible]

Status Code [illegible]

Document Review Status Code	C

PMC Reviewer		Engineer's Assistant		Engineer			
Reviewer's Name	Position	RECOMMENDED		ACCEPTED			
Reviewer 1 Name		Name	[illegible]	Name	Mohamed [illegible]	Name	Name
[illegible]	[illegible] Manager	Position	Project Director	Position	Sr. Director	Position	Position
Reviewer 2 Name							
		Signature	[signature]	Signature	[signature]	Signature	Signature:
Reviewer 3 Name	Position						
[illegible]	Engineering Manager	Date	[illegible]	Date	[illegible]	Date	Date:

[illegible]

RnR

QATAR INTEGRATED RAIL PROJECT

Doha Metro: HIA Terminal 1 Metro Station

Material Approval Request

M013-RnR-ARC-MAR-00130 Rev 1

PREPARATION BY CONTRACTOR:

Action	Name	Signature	Role	Company	Date
Originator	Mohammed Aljaz		Material Engineer	RnR JV	14 NOV 2017
Engineering	Emanuele Scalvini		Design Manager	RnR JV	14 NOV 2017
Reviewer	Rashid Mohammed Khan		QA/QC Manager	RnR JV	14 NOV 2017
Approval	Friedrich Wieser		Contractor's Representative	RnR JV	14 NOV 2017

APPROVAL:

Action	Name	Signature	Role	Date
Recommendation for Approval	Dermot O'Meara		Engineer's Assistant	21/12/17
Approval	Mohamed Ahmed Tumbely		Senior Director Architecture	21 DEC 2017
Approval	Daniel Leckel		Engineer	21 DEC 2017

Hamad International Airport Terminal 1 Metro Station

RnR

Employer : Qatar Railways Company
Engineer : JACOBS
Consultant : Cremonesi-Meinhardt Designer JV
Contractor : RnR

APPROVAL OF MATERIALS

Doc. Ref. No.: M013-RnR-ARC-MAR-00130 Rev 1 Submission: ■ 1st ☐ 2nd ☐ 3rd ☐ 4th

Previous Package Approval Ref.:

DETAILS: SUBMITTED AS: Per SPECS. ■ ALTERNATIVE ☐

(If Alternative state reason on attachment)

Location: HIA Terminal 1 Metro Station — Spec. Ref.: SECTION 08 4413

Material: Internal Aluminum Composite Panel (M32) — Data Sheet: "See Attached Sheets"

Manufacturer: Qatar National Aluminium Panel Co. — Country of Origin: Qatar

Agent: Redco International — Catalogues: Attached

Local Manufacturer: Available — DVE Certificate: M013-RnR-ARC-CER-00164

Sample: Provided

Contractor's Review:

Engineering Department	14 NOV 2017 Date	Procurement Department	14 NOV 2017 Date
Construction Department	14 NOV 2017 Date	QA/QC Department	14 NOV 2017 Date
Sustainability Department	14 NOV 2017 Date		

Contractor's Representative:

FRIEDRICH WIESER — **Sign** — 14 NOV 2017 **Date**

Received by:	Signed:	Date & Time:
Name:		

Form Reference No.:	Revision No.:	Revision Date
M013-RnR-QMS-FRM-00002	1	11 July 2016

4361

اللجنة العليا للمشاريع والإرث
Supreme Committee for Delivery & Legacy

KEO

Document Transmittal Form

Transmittal no.: SC-C08-CAG-TRN-KEO-MPS-17-03512	Date: 16 August 2017
Project: Al Wakrah Stadium & Precinct Main Works and Master Plan	
To:	CC: ☒ with attachment ☐ without attachment
Name: Mr. Bjorn Walgraeve	Company name: Midmac-PORR-Six Construct JV
Designation: Project Director	Address: P.O. Box 1758 Doha, Qatar

Documents transmitted

☐ Contract	☐ Invoice
☐ Report	☐ Plan
☐ Specification	☒ Other – CDF for MAS

Transmitted for

☐ Approval	☐ Review and comments
☐ Information only	☐ As requested
☐ For records only	☒ For action

Sl.	Description	Document ref. no.	Rev. no.	Format Hard	Format Soft	No. of copies	Status (Code)
1	CDF for Material Submittal – Aluminium Composite Panels (ACP)	SC-C08-CAG-MPS-MAS-FE-00275	1	X	X	1	3

Remarks

Sender's Name: Mehrdad Mirzakashani Company : KEO	Job title: Project Director	Signature:	Date: 16 August 2017

Acknowledgement of receipt (kindly acknowledge receipt and return this sheet to the sender)

Recipient's Name:	Job title:	Signature:	Date:

RECEIVED
19 AUG 2017
MPS JV
549-QWS

ENTERED

TECHNICAL DOCUMENT SUBMITTAL FORM

Document No:	SC-C08-CAG-MPS-MAS-FE-00275	**Rev** 1	**Date:** 07-AUG-2017
Title:	Aluminium Composite Panels (ACP)		
Project/Work Package:	Al Wakrah Stadium and Precinct		

Type of Submittal

☐ Sub-Contractor / Prequalification	☐ Design Calculation	☐ O & M Manual
☒ Materials & Product Data	☐ Mock Up Report	☐ Testing and Commissioning Report
☐ Company Profile	☐ Method Statement	☐ Others (pls. specify below)
	☐ Inspection &Test Plan (ITP)	

SUBMITTAL DESCRIPTION:

☐ CIVIL	☐ STRUCTURAL	☒ ARCHITECTURAL	☐ ELECTRICAL	☐ MECHANICAL	☐ OTHER

Specification Ref.:	Section 07 41 13	**Location / Use:**	
Drawing Ref.:	C08-MPS-D-STA-B-FE-RF-AZ-1400, 9400,3425, 5440, 5407, 5405, 1430, 5429, 1465, 1460,1455, 2440, 5520	External envelope and temporary buildings	
BOQ Ref:	N/A		
Activity ID:	-		

For Service Provider *(Brief description of the service provided)*:

Supply of aluminium composite panels for external envelope and temporary buildings

Note: Please use additional sheets, if necessary

Name: Bjorn Walgraeve	Position PD	Signature:	Date: 09 AUG 2017

Construction Supervision Review: Date Received:

Note: Please use additional sheets, if necessary

☐ Level 1 - Revise and Resubmit ☐ Level 2 – No Objection with Comments ☒ Level 3 – No Objection ☐ Level 4 = Review Not Required

Name: Colin Byrd	Position: CSC	Signature:	Date: 15/08/17

Construction Management Recommendation: Date Received:

Note: Please use additional sheets, if necessary

☐ Level 1 - Revise and Resubmit ☐ Level 2 – No Objection with Comments ☒ Level 3 – No Objection ☐ Level 4 = Review Not Required

Name: T. TOLAND	Position: PM	Signature:	Date: 16/8/17

Engineer Final Feedback (WHEREVER APPLICABLE) Date Received:

Note: Please use additional sheets, if necessary

☐ Level 1 - Revise and Resubmit ☐ Level 2 – No Objection with Comments ☐ Level 3 – No Objection ☐ Level 4 = Review Not Required

Name:	Position SC	Signature:	Date:

Qatar Rail

Subcontract Approval Request Review Sheet (Engineer)

Company Management System

PROJECT:	Red Line North Elevated and At-Grade			PROJECT NO.:	M032 (RTC/081/2013)
DRS NUMBER:	M032-COM-ERS-00125	REV.:	1	DATE:	12-Jun-17
ORIGINATOR:	RLR			TRANSMITTAL NO. / DATE:	M032-RLR-WTRAN-011001 / 01-June-2017 (WF-015745)
DOCUMENT NO.:	M032-RLR-CON-PRE-00120	REV.:	1	DISCIPLINE:	Contract Administration
DOCUMENT TITLE:	Approval of Qatar National Aluminum Panel Co. for the Supply Aluminum Composite Panel			DOCUMENT TYPE:	Supplier / Sub Contractor Approval Request

	Comment Code Legend (for individual comments):	Reply Code Legend	
	1 = Action required for this issue 3 = to be addressed at DD2 2 = advisory comment	i=incorporated, ie= evaluated and not incorporated for reason stated	Open/Closed

No.	Initial	Page/Section	Comment Code	Reviewers Comments (PMC/CPD, CTO)	Reply Code	D&B Contractor/Other Party Reply	Reply Status by Reviewer
				No Comment			

	Status Code Legend:				
Document Review Status Code:	A	A. *Approved* E. *Fail/Not approved*			

		PMC/CPD Comment/Reply Status				Engineer/Delegated Party		D&B Contractor	
Reviewer's Name	Position	COMMENTS/STATUS RECOMMENDED BY PMC				NO OBJECTION BY (Where necessary)		REPLY APPROVED BY:	
Estor Pilarca	Contract Administrator	Name:	Michael Cutts	Name:		Name:	Pedro da Silva Jergensen	Name:	Friedrich Josef Wieser
12-06-17		Position:	PMC Commercial Manager	Position:	PMC Delivery Director	Position:	Engineer's Assistant	Position:	Contractor's Representative
Aleksandar Markovic	Eng. Mngr. (PMC)	Signature:		Signature:		Signature:		Signature:	
12/06/2017									
Grzegorz Szalinski	Const. Mngr. (PMC)								
Michael Groenall	HSSE Mngr. (PMC)								
14/6/17									
Oscar Roncal	QA Mngr. (PMC)								
14/6/17		Date:	13/6/17	Date:		Date:		Date:	