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INTRODUCTION

PANELS TECHNOLOGY FACTORY (TECHNOPANEL) is a company that is engaged in the production and manufacture of ACP – Aluminum Composite Panel products or wall claddings. Throughout this type of industry, we are proud to be the first ACP manufacturing company in KSA.

Since the year 2006, we have been establishing the growing market in ACP requirement on modern architecture and design. The aim of our business is to meet the constant demand for ACP products as we expand our sales network from local to the international market.

As leaders in the industry, we strive to achieve a high level of competitiveness by expanding our operations. Our main office is located in the city of Riyadh that covers a land area of 3,800 m^2 . Then, about 60 km south of Riyadh is our operations hub that covers a land area of 8,000 m^2 .

Furthermore, we have increased our production capacity to 5 million m^2 annually, using the latest advancements in ACP technology. Therefore, we can ensure our clients our full commitment to deliver their needs with remarkable quality.

The quality driven standards of TECHNOPANEL enables us to maintain our stature through acquiring the ISO 9001:2015 Quality Management System (QMS), participated in drafting the Saudi Arabian Standard (SASO) 2752 for ACP, conformance with the American Society for Testing and Materials (ASTM), ISO Standard and specimen samples tested by the SGS International Laboratory

TECHNOPANEL's commitment to innovate and serve customers is to cater the interior and exterior wall claddings, offering a broad selection of colors, textures and elegant finishing. The products we offer also come with various sizes and dimension to accommodate the requirements of our customers. It is our pride to offer our customers a "20 year guarantee of quality coating" on the material surface.

The combination of expertise and aggressiveness of TECHNOPANEL's team can continually exceed our *customers' expectation, value for money and on-time delivery*.

تكنو بانل تنشئ أول مجمع صناعي لألواح الألمنيوم المعزولة لتكسيه الجدران وأعمال الديكور الخارجي والداخلي بمدينة الرياض . ليصبح بذلك المصنع الأول لإنتاج هذه الألواح وذلك لتلبية الطلب المتزايد من قبل المصممين المعماريين ومسئولي صناعة البناء بالمملكة

ولذلك فإننا سخرنا جهودنا وطاقاتنا لعمل آليات جديدة وتجهيزات إضافية وإستقدام طاقات بشرية على أعلى مستويات المهارة والجودة لإنتاج هذا المنتج واليوم تمتلك تكنوبانل خط الإنتاج الأول لصناعة الألواح الألمنيوم ليتوافق الإنتاج مع المواصفات العالمية الأمريكية والغربية والصينية وتمتلك تكنوبانل أجهزة متقدمة ومتخصصة لتتواءم بمتطلبات السوق السعودي والعالمي



FACTS AND FIGURE

- Foundation - PANELS TECHNOLOGY FACTORY (TECHNOPANEL) is the first Aluminum Composite Panel (ACP) processing facility in the Kingdom that was established since year 2006.
- Vision - The core of our business is to be the prime contributors of modern architectural design in the building industry by supplying the most innovative types of ACP products.
- Quality Oriented - Our company has been certified with ISO 9001 :2015 Quality Management System (QMS).
- Technical Contribution - We are a major participant in drafting the Saudi Arabian Standard (SASO 2752) for ACP – interior and exterior wall claddings.
- Quality Assurance - Conformance with the American Society for Testing and Materials and specimens that are tested by International Laboratories

- Growth - Leader in the local market and expanding our network through product exports to the neighboring countries such as Egypt, Syria, Qatar, Bahrain, Oman, Yemen, Kuwait, Jordan, Lebanon, New Guinea and Congo.
- Durability - We offer “20 Years Guarantee of Quality Coating”.
- Capability - Using the latest advancements in ACP technology, we have an annual production capacity of 5 million m^2 .
- Development – The main office and logistics center is situated in the city of Riyadh and established a large scale operations facility 60 km north of Riyadh.

لقد تم إنشاء مصنع تقنية الألواح (تكنوبانل) في ٦ / ٦ / ٢٠٠٦ وقد بدأ أول إنتاج له في شهر
أبريل لعام ٢٠٠٧

أول مصنع ألواح معزولة يحصل على علامة الجودة السعودية ساسو

الإنتاج وفقاً للمواصفات القياسية السعودية ساسو ٢٧٥٢ / ٢٠١٦

التصدير للعديد من الدول الصديقة كمصر وسوريا وقطر والكويت واليمن والأردن ولبنان
وгинيما والكونغو والسودان

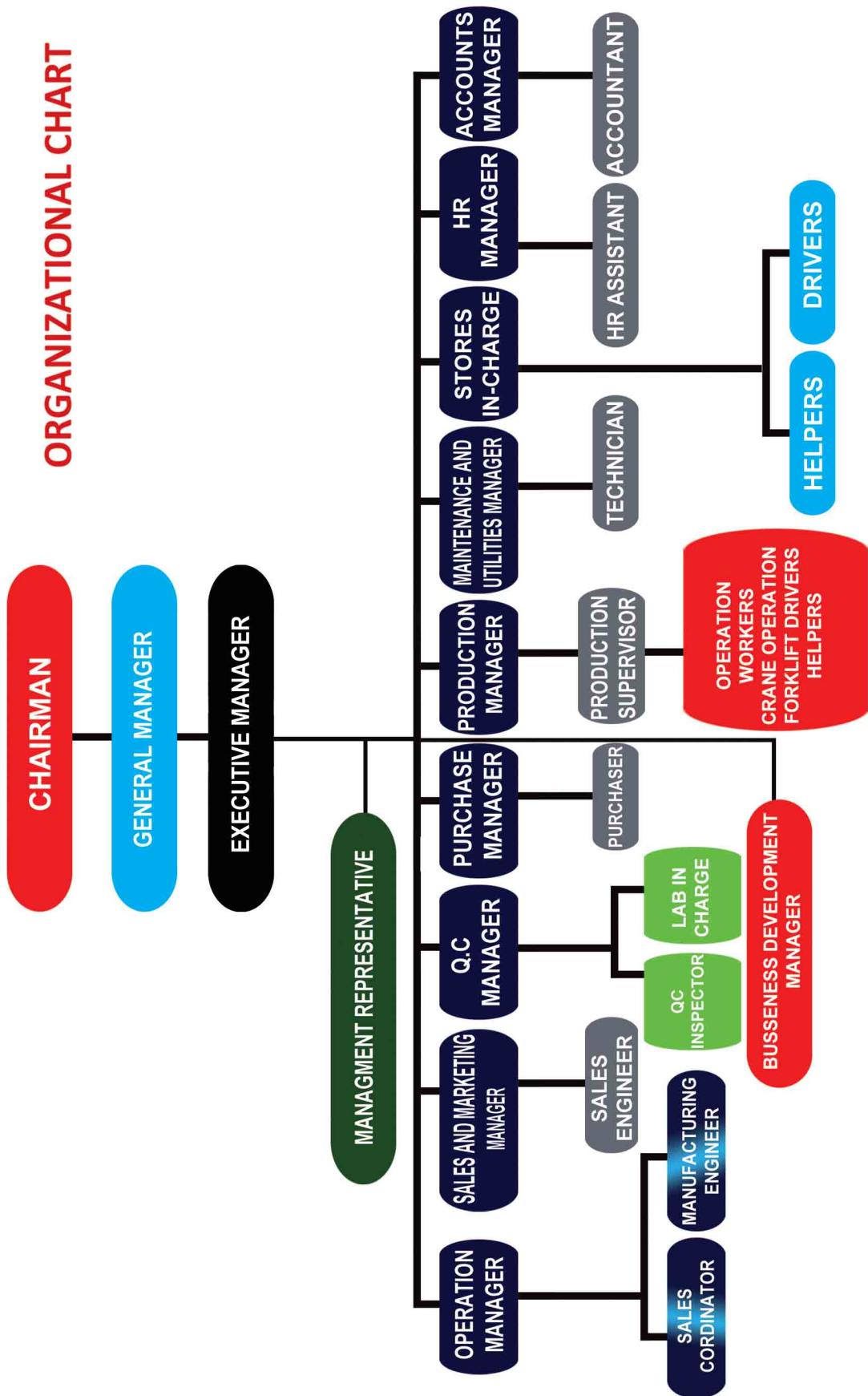
المصنع الوحيد في المملكة العربية السعودية والذي يعطي ضمان لمدة ٢٠ عاما ضد تغير
الألوان وتفسخ الصفائح

تم شراء وتركيب خط الإنتاج الثاني وفق أحدث تقنيات صناعة الألواح المعزولة بالعالم
وقد بدأ أول إنتاج له في يناير ٢٠٠٩ والخط الثالث عام ٢٠١٤ والخط الرابع عام ٢٠١٨

المصنع الوحيد بالمملكة الذي يوجد لديه مختبر للجودة

المصنع الأول الذي يقوم باستخدام فيلم الحماية من شركة (بولي فيلم - ألمانيا) بمقاومة
الأشعة البنفسجية لمدة ١٢ شهر من تاريخ التركيب

TECHNOPANEL ORGANIZATIONAL CHART



PANELS TECHNOLOGY FACTORY (TECHNOPANEL)

QUALITY POLICY

We are committed to provide world class products of
Aluminum Composite Panels

We strive to achieve this by:

Promoting an understanding of

- Our customers' needs and expectations**
A culture in exceeding customer's expectations.

Developing seamless processes by fully integrating the services

- Provided by our suppliers and partners**
Paying suppliers on time related to the contract

Continuous Improvement on our Works

- Monitoring our performance**
Through performance metrics in order to continually improve our processes and services.

Commitment

- Utilizing our ISO 9001:2008 Quality Management System**
For all company processes everywhere, everytime without exception.

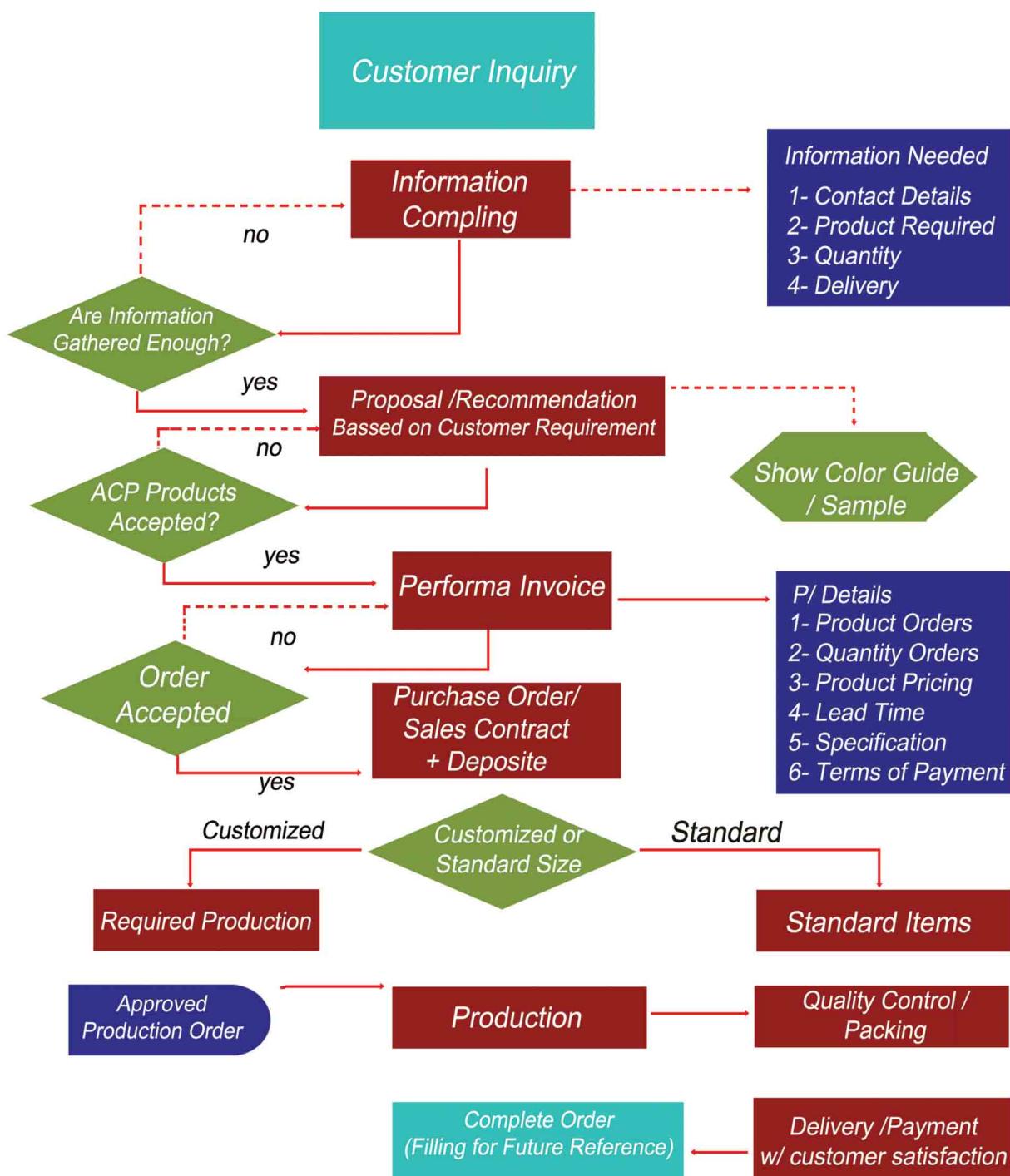
Mr. Khaled Abdulrahman Al-Rashed

Chairman



TECHNOPANEL

CUSTOMER SERVICE FLOW CHART



FR A2 PROCESS AND PRODUCTION LINE

The most recent innovations on ACP machine technology with high-speed capacity that can produce from 800 mm to 1600 mm in width and 4 mm to 8 mm in thickness which can guarantee notable quality and high product performance.



- ① A2 Core Uncoil Station
- ② FR A2 Core Joint Station
- ③ FR A2 Core Heating & Laminating Oven Station
- ④ Uncoiling Section
- ⑤ Composite Section
- ⑥ Cooling Section
- ⑦ Protective Film Station
- ⑧ Cutting Station
- ⑨ Unloading Station

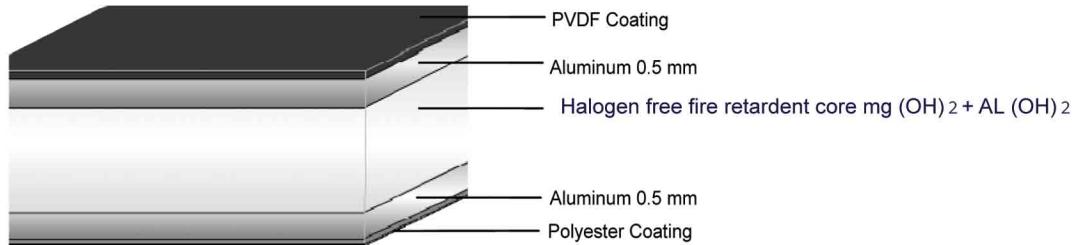
FR A2 - ACP TECHNICAL DATA SHEET

Product Description

TECHNOPANEL Aluminum Composite Panel (A.C.P)FR A2 is high performance fire retardent , consisting of two sheets of aluminum bonded to each side of a laminating halogen free compound core material made of MG (OH)₂ and Al(OH)₂ which are inorganic compound that have non fire properties , lowest smoke generation.

Product Composition

TECHNOPANEL FRA2 -ACP is basically composed of the following materials:



1. POLYVINYLDENE DIFLUORIDE (PVDF) COATING – paint for the front aluminum sheet with high non-reactive and pure fluoropolymer coating used in applications requiring the highest purity, strength, resistance to solvents, acids, bases and heat, and low smoke generation during a fire event. PVDF is not susceptible to attack by UV light, so the resin does not break down on exposure to sunlight which gives a very high resistance to fading, chalking and long-term retention of gloss and color. with coating thickness more than (32) micron

2. ALUMINUM SHEETS - two sheets of aluminum that is bonded to each side of a halogen free fire retardant core. They have excellent tensile strength, yield strength and elongation rate and with high resistance to corrosion. ,and highest fire resistant performance , which can quality NFPA - 285 test

Type of Alloy	3003
Thickness	0.50 mm

3. Halogen Free Fire retardant core the main core of Technopanel FR A2 - ACP that have highest fire resisting charecterstics. FR A2 ACP only made up of inorganic compound MG (OH)2 and AL (OH2) both compounds are non fire and lowest smoke generation.



4. POLYESTER COATING – a fifteen (15) micron polyester-based coating for the back aluminum sheet that serves as an aid in protecting TECHNOPANEL ACP from risks of exposure to corrosion on the back surface of the panel after installation.

5. PROTECTIVE FILM - The decorative surface is being covered by an 80 micrometer thick self-adhesive protective film to protect it from scratch and any possible damages during processing, storage and installation. It is composed of two layers, the White surface with TECHNOPANEL logo on the outer side to deflect ultraviolet rays and the Black surface from the inner side to prevent ultraviolet rays from penetrating the inner surface.

Product Dimension

- 1. Thickness : 4 mm to 8.0 mm
- 2. Width : 800 to 1600 mm
- 3. Length : 5800 mm

Provision: or under customer's requirement between 2000 to 6000 mm.

Note: Technopanel's standard stock is 5800 x 1240 mm (L x W).

4. Tolerances

Size	Permissible Tolerance
Length ,mm	±3
Width, mm	±2
Thickness, mm	±0.2
Deviation of diagonal, mm	≤5
Out of straight at sides, mm/m	≤5
Warp, mm/m	≤5

Surface Visual Quality

The appearance of decorative surface shall not have any damages, irregularities and abnormalities. It shall be inspected in accordance with the appearance criteria for Aluminum Composite Panel (Outside and Inside Cladding) with maximum allowable blemishes and defects on the criteria. As per SASO tests - SASO & ISO 11997-1:2007 & SASO ISO 16474-2:2015

Product Properties

1. Panel Weight Density

ACP Thickness (mm)	Panel Weight (kg/sq.m)
4	9.01± 0.5
5	10.3 ± 0.5
6	11.9 ± 0.5



Coating Performance

Test Item	National / International Standard	Technopanel Actual and Test Value
Coating Thickness, ISO 2360/2003	$\geq 25 \mu\text{m}$	32 μm
Gloss Deviation, ISO 2813/1978	If gloss ≥ 70 , max permissible deviation ≤ 5 If gloss < 70 , max permissible deviation ≤ 10	50 - 52
Color Deviation, ASTM D2244-07	$\leq 2.0 \text{ dE}$	0.5 dE
Pencil Hardness, ISO 15184/1998	$\geq \text{HB}$	3H
Coating Flexibility, ASTM D4145-83	$\leq 2T$	1T
Adhesion Grade, ISO 2409/2007	in grid way: Grade 0 in circle way: Grade 1	in grid way: Grade 0 in circle way: Grade 1
Impact Resistance, ISO 6272-2/2002	No peel-off, no crack at 50 kg.cm	No peel-off, no crack
Abrasion Resistance, ASTM D968-05	$\geq 5 \text{ L}/\text{um}$	$\geq 5.8 \text{ L}/\text{um}$
Hot Water Resistance, ISO 2409/2007	No color change, crack & peel-off at 98~100C in 120 min	No color change, no crack & no peel-off
Stain Resistance, ASTM D1308	No Change	No Change
Acid Resistance, ASTM D1308-02		
Alkali Resistance, ASTM D1308-02		
Oil Resistance, ASTM D1308-02		
Solvent (Cleaner) Resistance, ASTM D1308-02		
Brush Resistance, ASTM D1308-02	≥ 10000 times of no change	No change
Salt Fog Resistance, ASTM B117-07	No change	No change
Aging and Weather Resistance Color Deviation Gloss Retention Grad. Other Aging Performance	≤ 3.0 $\geq \text{Grade 2}$ Grade 0	0.6 Grade 2 Grade 0

3. Mechanical Properties

Test Item	National / International Standard	Technopanel Actual and Test Value
Bending (Flexural) Strength ASTM D790-10	≥ 100 MPa	105 MPa
Bend Elastic (Flexural) Module, ASTM D790-10	$\geq 2.0 \times 10^4$ MPa	2.68×10^4 MPa
Shear Strength, ASTM D732-10	≥ 28.0 MPa	28 MPa
Tensile Strength, ASTM D638-10	≥ 40 MPa	45.5 MPa
Elongation Rate, ASTM B557-10	≤ 18 %	7.2%
180 Degree Peeling Strength, ISO 8510-2/2006	≥ 7 N/mm	9.2 N/mm

4. Thermal / Sound Properties

Test Item	National / International Standard	Technopanel Actual and Test Value
Coefficient of Thermal Expansion, ASTM D696-08	$\leq 4.0 \times 10^{-5} {}^\circ\text{C}^{-1}$	$2.368 \times 10^{-5} {}^\circ\text{C}^{-1}$
Heat Deflection Temperature, ASTM D648-07	$\geq 105 {}^\circ\text{C}$	$118.4 {}^\circ\text{C}$
Sound Transmission, ASTM E413-04	≤ 32 dB	26dB

5. Fire Performance Properties

Test Item	National / International Standard	Technopanel Actual and Test Value
BS 476 Part 6: Fire Test on Building Materials and Structures (Fire Propagation)	Class O	Class O
BS 476 Part 7: Fire Test on Building Materials and Structures (Surface Spread of Flame)	Class 1	Class 1

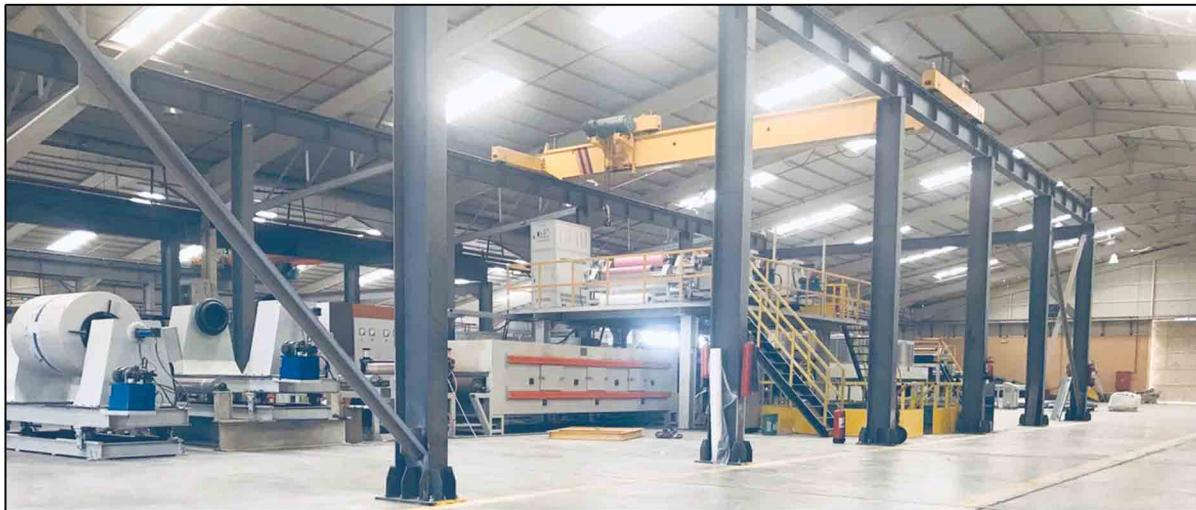


5. Fire Performance Properties

Test Item	National / International Standard	Technopanel Actual and Test Value
BS 476 Part 6: Fire Test on Building Materials and Structures (Fire Propagation)	Class O	Class O
BS 476 Part 7: Fire Test on Building Materials and Structures (Surface Spread of Flame)	Class 1	Class 1
EN 13823 Reaction to Fire Tests for Building Products. Building Products Excluding Floorings Exposed to the Thermal Attack by a Single Burning Item	For Compliance	Compliant
EN ISO 11925-2 Reaction to fire tests - Ignitability of Building Products Subjected to Direct Impingement of Flame Part 2: Single-flame Source Test	For Compliance	Compliant
ASTM E84-04 Surface Burning Characteristics of Building Materials	<ul style="list-style-type: none"> - Smoke Develop Index (20) - Flame Spread Index (5) 	Passed Passed
UL 723		Passed

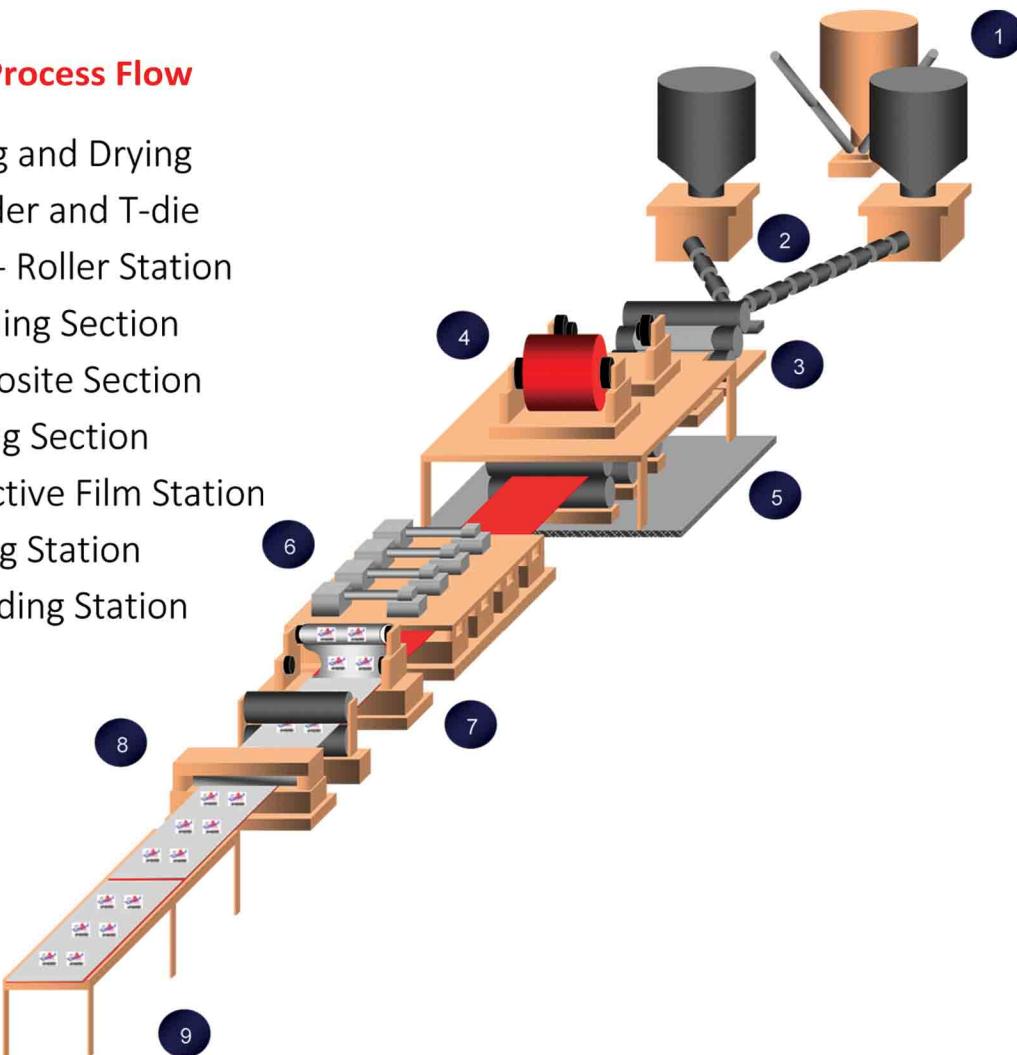
FR B1 PROCESS AND PRODUCTION LINE

The most recent innovations on ACP machine technology with high-speed capacity that can produce from 800 mm to 1600 mm in width and 4 mm to 8 mm in thickness which can guarantee notable quality and high product performance.



ACP Line Process Flow

- ① Mixing and Drying
- ② Extruder and T-die
- ③ Three- Roller Station
- ④ Uncoiling Section
- ⑤ Composite Section
- ⑥ Cooling Section
- ⑦ Protective Film Station
- ⑧ Cutting Station
- ⑨ Unloading Station



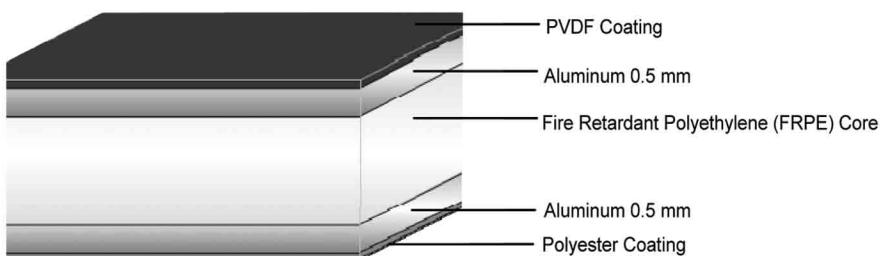
FR - B1 ACP - TECHNICAL DATA SHEET

Product Description

TECHNOPANEL Fire-Retardant Aluminum Composite Panel (FR-ACP) is a high performance product consisting of two sheets of aluminum bonded to each side of a halogen-free fire-retardant PE core. It is suitable to use for exterior and interior wall cladding applications or for buildings under renovation that are designed to reduce the risk of structural fire. It has the capability of reducing flame spread for a specified intensity and/or duration, low smoke and delays heat penetration across on it.

Product Composition

TECHNOPANEL FR-ACP is basically composed of the following materials:



1. POLYVINYLIDENE DIFLUORIDE (PVDF) COATING – paint for the front aluminum sheet with high non-reactive and pure fluoropolymer coating used in applications requiring the highest purity, strength, resistance to solvents, acids, bases and heat, and low smoke generation during a fire event. PVDF is not susceptible to attack by UV light, so the resin does not break down on exposure to sunlight which gives a very high resistance to fading, chalking and long-term retention of gloss and color. with coating thickness more than (32) micron

2. ALUMINUM SHEETS - two sheets of aluminum that is bonded to each side of a fire retardant polyethylene core. They have excellent tensile strength, yield strength and elongation rate and with high resistance to corrosion.

Type of Alloy	3003
Thickness	0.50 mm



3. HALOGEN-FREE FIRE-RETARDANT CORE – the main core of TECHNOPANEL FR-ACP that it has the capability of reducing flame spread for a specified intensity and/or duration, low smoke and delays heat penetration across it. It acts as a thermal insulation barrier where the role is to turn polymer into a char, which separates the flame from the material.

There are two important components that can be used as a fire retardant core for polymer applications. These components decompose at high temperatures absorbing considerable amounts of heat in the process. In addition to behaving as a fire retardant, it is very effective as a smoke suppressant when applied to polymers such as polyethylene.

The two components are:

$Mg(OH)_2$ Magnesium Hydroxide or $Al(OH)_3$ Aluminum Hydroxide

In addition to the performance of the FRPE core, it is Halogen-free that limits the use of hazardous substances on the product. The drive for creating these products is associated with the green movement as well as health concerns. When fire breaks out and harmful substances contained in plastics are ignited, toxic fumes are released into the surrounding area. Therefore, compliance with these directives is important in the preservation of life and the environment.

4. POLYESTER COATING – a fifteen (15) micron polyester-based coating for the back aluminum sheet that serves as an aid in protecting TECHNOPANEL FR-ACP from risks of exposure to corrosion on the back surface of the panel after installation.

5. PROTECTIVE FILM - The decorative surface is being covered by an 80 micrometer thick self-adhesive protective film to protect it from scratch and any possible damages during processing, storage and installation. It is composed of two layers, the White surface with TECHNOPANEL logo on the outer side to deflect ultraviolet rays and the Black surface from the inner side to prevent ultraviolet rays from penetrating the inner surface.





Product Dimension

1. Thickness : 4 mm to 8.0 mm
2. Width : 800 to 1600 mm
3. Length : 5800 mm

Provision: or under customer's requirement between 2000 to 6000 mm.

Note: Technopanel's standard stock is 5800 x 1240 mm (L x W).

4. Tolerances

Size	Permissible Tolerance
Length ,mm	±3
Width, mm	±2
Thickness, mm	±0.2
Deviation of diagonal, mm	≤5
Out of straight at sides, mm/m	≤5
Warp, mm/m	≤5

Surface Visual Quality

The appearance of decorative surface shall not have any damages, irregularities and abnormalities. It shall be inspected in accordance with the appearance criteria for Aluminum Composite Panel (Outside and Inside Cladding) with maximum allowable blemishes and defects on the criteria.

Product Properties

1. Panel Weight Density

ACP Thickness (mm)	Panel Weight (kg/sq.m)
4	6.90 ± 0.5
5	8.30 ± 0.5
6	9.70 ± 0.5



2. Coating Performance

Test Item	National / International Standard	Technopanel Actual and Test Value
Coating Thickness, ISO 2360/2003	$\geq 25 \mu\text{m}$	32 μm
Gloss Deviation, ISO 2813/1978	If gloss ≥ 70 , max permissible deviation ≤ 5 If gloss < 70 , max permissible deviation ≤ 10	60 - 64
Color Deviation, ASTM D2244-07	$\leq 2.0 \text{ dE}$	0.6 dE
Pencil Hardness, ISO 15184/1998	$\geq \text{HB}$	3H
Coating Flexibility, ASTM D4145-83	$\leq 2T$	0T
Adhesion Grade, ISO 2409/2007	in grid way: Grade 0 in circle way: Grade 1	in grid way: Grade 0 in circle way: Grade 1
Impact Resistance, ISO 6272-2/2002	No peel-off, no crack at 50 kg.cm	No peel-off, no crack
Abrasion Resistance, ASTM D968-05	$\geq 5 \text{ L}/\text{um}$	$\geq 5.5 \text{ L}/\text{um}$
Hot Water Resistance, ISO 2409/2007	No color change, crack & peel-off at 98~100C in 120 min	No color change, no crack & no peel-off
Stain Resistance, ASTM D1308	No Change	No Change
Acid Resistance, ASTM D1308-02		
Alkali Resistance, ASTM D1308-02		
Oil Resistance, ASTM D1308-02		
Solvent (Cleaner) Resistance, ASTM D1308-02		
Brush Resistance, ASTM D1308-02	≥ 10000 times of no change	No change
Salt Fog Resistance, ASTM B117-07	No change	No change
Aging and Weather Resistance Color Deviation Gloss Retention Grad. Other Aging Performance	≤ 3.0 $\geq \text{Grade 2}$ Grade 0	0.6 Grade 2 Grade 0

3. Mechanical Properties

Test Item	National / International Standard	Technopanel Actual and Test Value
Bending (Flexural) Strength ASTM D790-10	>100 MPa	102 MPa
Bend Elastic (Flexural) Module, ASTM D790-10	$\geq 2.0 \times 10^4$ MPa	2.14×10^4 MPa
Shear Strength, ASTM D732-10	≥ 28.0 MPa	28.6 MPa
Tensile Strength, ASTM D638-10	40 MPa	42.3 MPa
Elongation Rate, ASTM B557-10	<18 %	4.1%
180 Degree Peeling Strength, ISO 8510-2/2006	7 N/mm	9.8 N/mm

4. Thermal / Sound Properties

Test Item	National / International Standard	Technopanel Actual and Test Value
Coefficient of Thermal Expansion, ASTM D696-08	$\leq 4.0 \times 10^{-5} {}^\circ\text{C}^{-1}$	$2.368 \times 10^{-5} {}^\circ\text{C}^{-1}$
Heat Deflection Temperature, ASTM D648-07	$\geq 105 {}^\circ\text{C}$	$118.1 {}^\circ\text{C}$
Sound Transmission, ASTM E413-04	≤ 32 dB	28dB

5. Fire Performance Properties

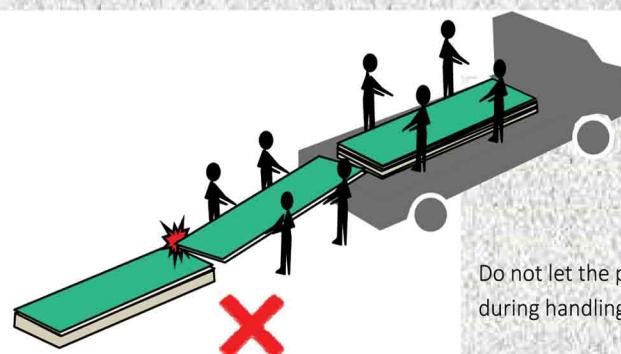
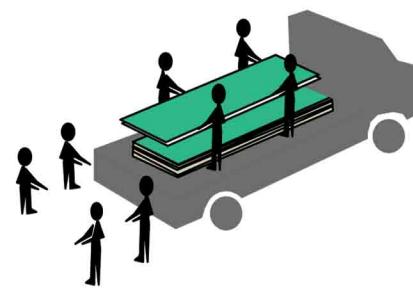
Test Item	National / International Standard	Technopanel Actual and Test Value
BS 476 Part 6: Fire Test on Building Materials and Structures (Fire Propagation)	Class O	Class O
BS 476 Part 7: Fire Test on Building Materials and Structures (Surface Spread of Flame)	Class 1	Class 1
EN 13823 Reaction to Fire Tests for Building Products. Building Products Excluding Floorings Exposed to the Thermal Attack by a Single Burning Item	For Compliance	Compliant
EN ISO 11925-2 Reaction to fire tests - Ignitability of Building Products Subjected to Direct Impingement of Flame Part 2: Single-flame Source Test	For Compliance	Compliant
ASTM E84-04 Surface Burning Characteristics of Building Materials	- Smoke Develop Index (20) - Flame Spread Index (5)	Passed Passed

HANDLING, TRANSPORTATION AND STORAGE

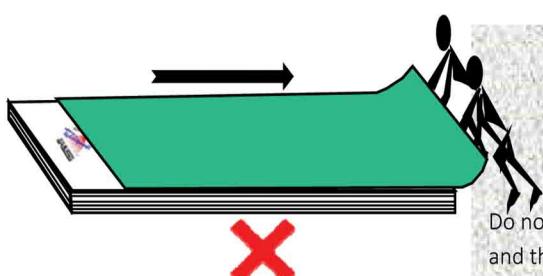
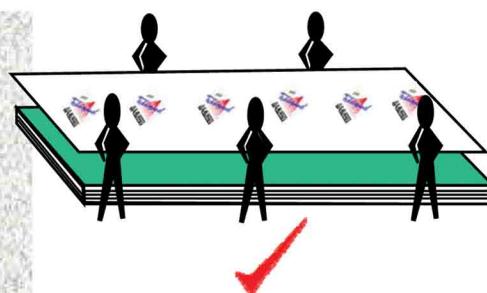
Carefully unload the panels from the delivery truck. If unloading is done manually, lift two (2) sheets of panel in this suggested method where the protective films are both facing each side thereby protecting the inner surface and exposing the back surface of the panel.

The recommended number of persons lifting the standard length (5.80 m) is at least four (4) persons in the truck and four (4) persons near the truck for transporting the panels.

Whenever a forklift or crate is used for shorter length panels, ensure that it has the capability to carry the panels and pallet safely. The panel weight is about 5.5 kg/m².



Do not let the panels hit hard objects during unloading from the truck or during handling as it may damage the side, surface and corners.

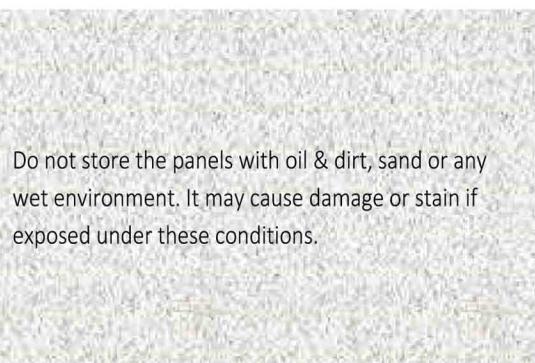
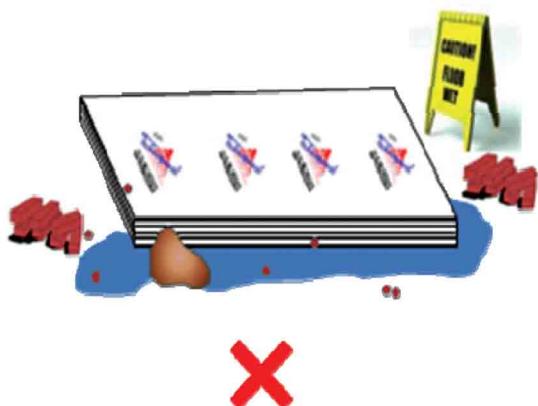
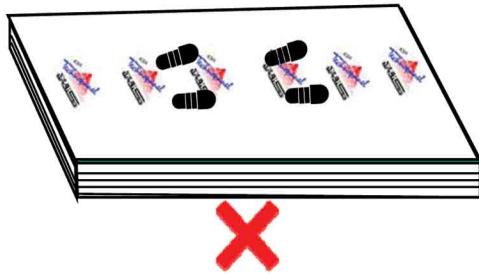
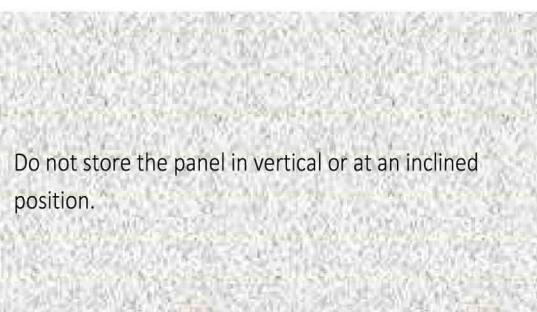
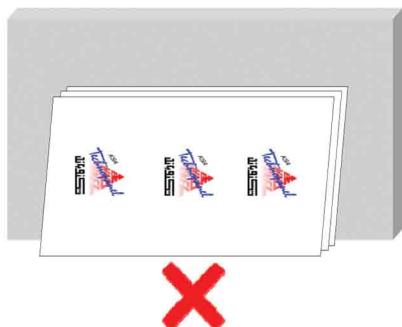
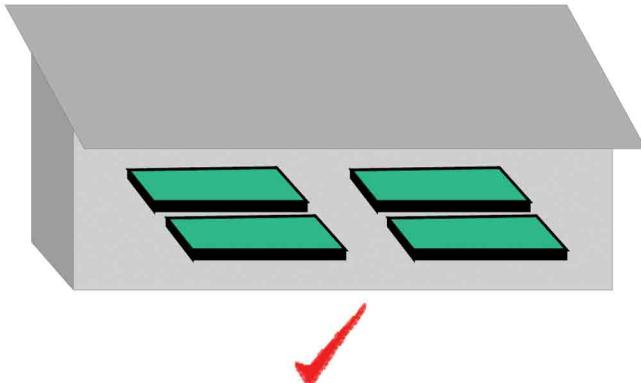


Do not pull the panel/s as it may damage or scratch any part of its surface and the other panel especially if it has any foreign material between them.

Keep the panels in a clean environment, normal room condition and at a flat horizontal position.

Arrange the topmost panel's backside surface in top position.

Storage should not be in a crowded or with high activity areas and must free from potential collision, sand, stones and materials that may cause damage or scratch.



ACP FABRICATION TECHNIQUES AND EQUIPMENT

Cutting Method

Though customized sizes can be made according to necessity, it is also common to perform cutting to go well with the needs of the project. Sawing and routing panels are relatively easy processes that can be done with ordinary commercial metal and woodworking equipment.

Typical cutting tools can be used for cutting with hard alloy blades. Saw blades and router bits are available through independent distributors who handle cutting tools. But for best cutting results, it is more suitable to use an automatic cutting machine.

Cutting Machine



CNC Grooving and Cutting Machine

This machine is able to grooving, cutting, perforating and 3Ddrawing on the ACP sheets.



CNC Grooving and
Cutting Machine





TECHNOPANEL ALUMINUM COMPOSITE PANEL

شركة مصنع تقنية الألواح



A grooving machine (specialized or portable) is used to fabricate panels. Choose the available cutters for grooving according to the design requirement that can either be circular/arc, V-shaped or straight groove cutters.

Note: In most applications, angle cutting is done after grooving to trim out the excess portion on the panel.

It is strongly recommended to settle with at least 0.3 mm thickness remaining polyethylene material during grooving.

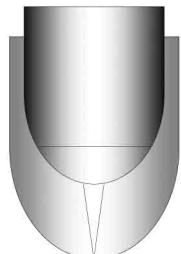
Note: For FR-ACP, it is recommended at least 0.5 mm thickness of polyethylene.

Types of Grooving / Router Blade:

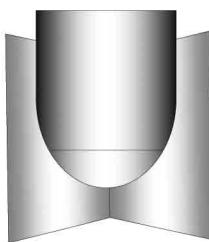
V-shaped Grove



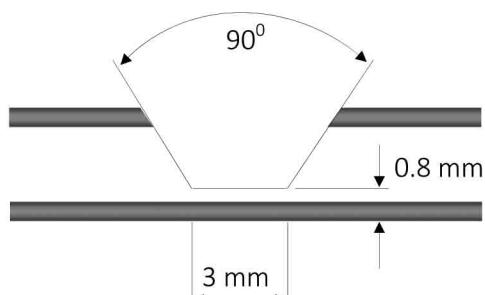
Circular Grove



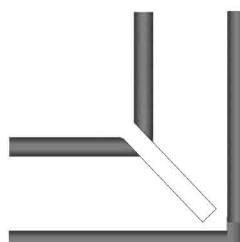
Straight Grove



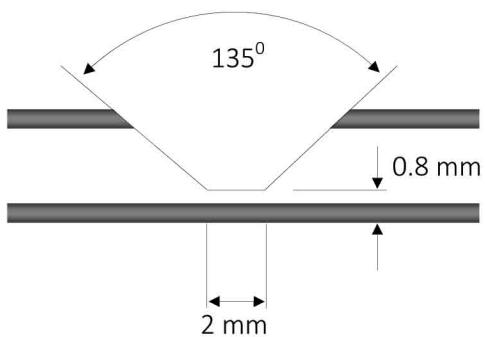
Grooving and Folding Techniques:



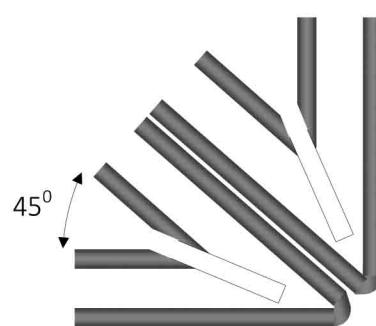
V-shaped 90° Grove



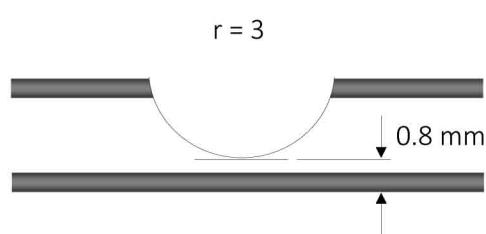
V-shaped 90° Grove if folded up to 90°



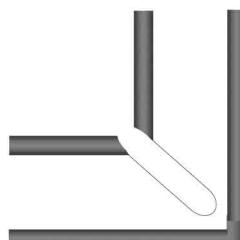
V-shaped 135° Grove



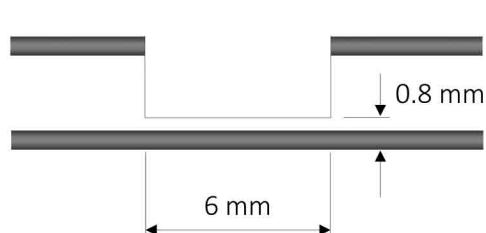
V-shaped 135° Grove if folded up to 45°



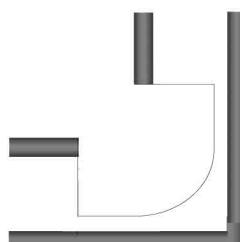
Circular Grove



Circular Grove if folded up to 90°



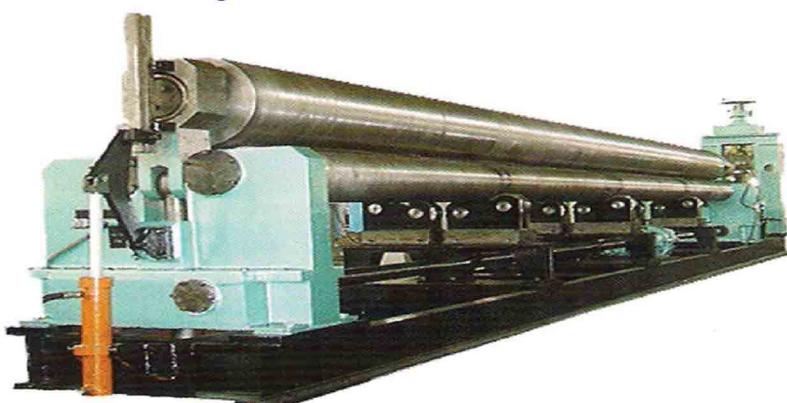
Straight Grove



Straight Grove if folded up to 90°

Bending and Forming

Forming the material into the desired shape is the most significant portion of the design. It is therefore critical to form the contours correctly so as to comply with the requirements of the design. Bending with Plate Folder and a Three-roller Bender are the most common tools in forming.



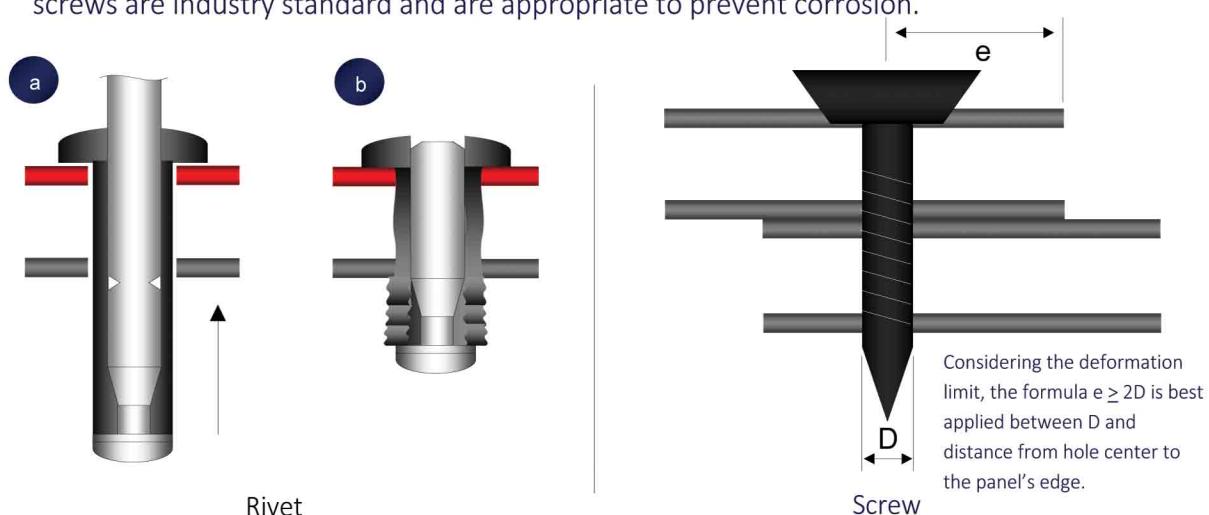
Three- Roller Bending Machine

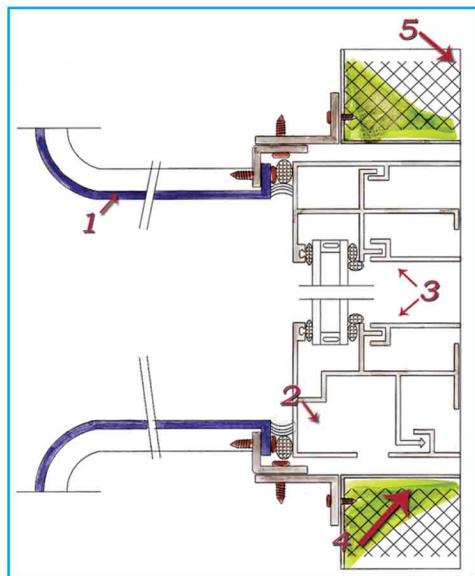
Fastening

Fastening makes the structure more rigid enabling the edges to be fixed firmly. A variety of different fasteners is used to fabricate and install panels. Structural adequacy and selection of these fasteners is the responsibility of qualified engineers and in most instances where architectural panels are used, certified calculations will be required by the building official.

Rivets are often utilized to attach Aluminum clip angles and other structural or ornamental elements to panels. Please take note that some building code jurisdictions do not endorse the use of pop rivets for structural connections.

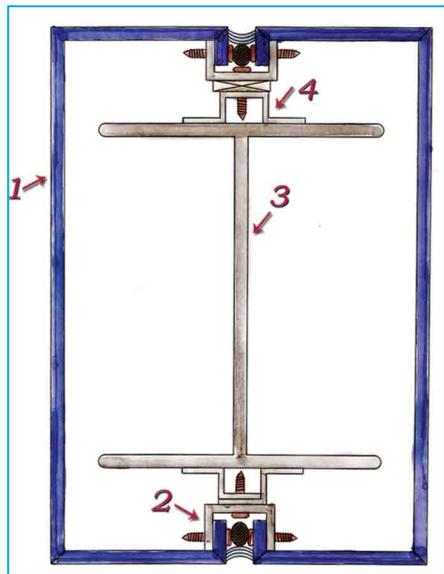
Screws are also used to perform many of the same applications as rivets. Stainless steel screws are industry standard and are appropriate to prevent corrosion.





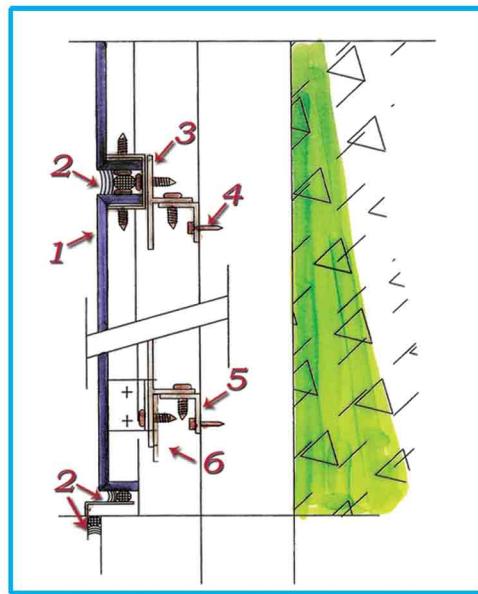
①

- 1- Technopanel Sheet
- 2- Gap Filler (Backing Rod + Silicon)
- 3- Securing Frame For Aluminum Window
- 4 - Framework
- 5- Insulating Materials



④

- 1- Technopanel Sheet
- 2- Steel Framework
- 3- Aluminum Angle
- 4- Steel Framework

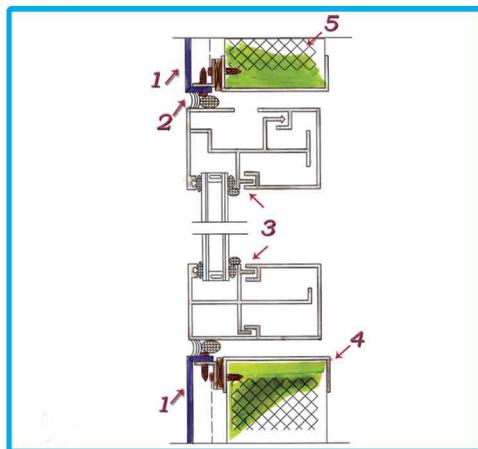
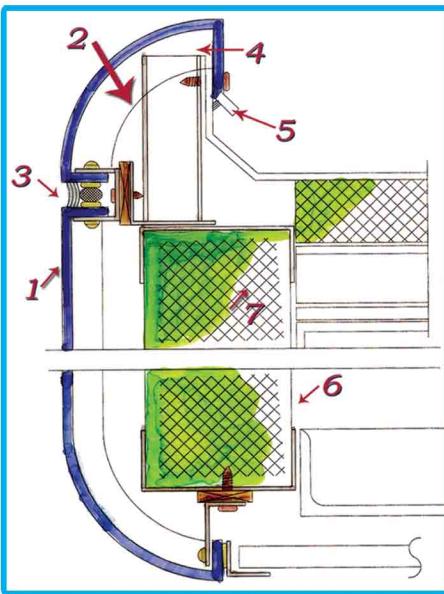


②

- 1- Technopanel Sheet
- 2- Gap Filler (Backing Rod + Silicon)
- 3- T-Shaped Aluminum
- 4 - Self Taping Scrw
- 5- Iron Angle
- 6- Aluminum Fitting

⑤

- 1- Technopanel Sheet
- 2- Camber Line
- 3- Gap Filler (Backing Rod + Silicon).
- 4- Self Taping Screw
- 5- Water Board
- 6- Framework
- 7- Instlulating Material

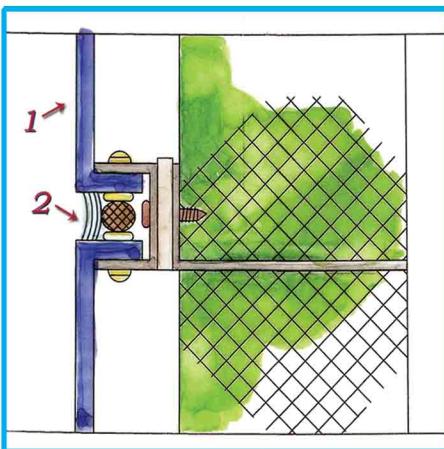


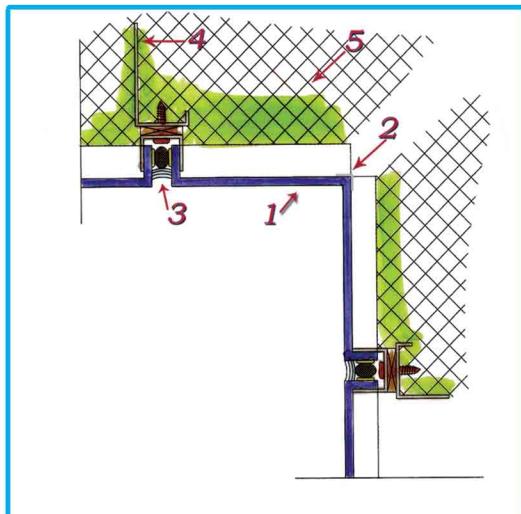
③

- 1- Technopanel Sheet
- 2- Gap Filler (Backing Rod + Silicon).
- 3- Securing Frame For Aluminum Window
- 4- Framework
- 5- Instlulating Material

⑥

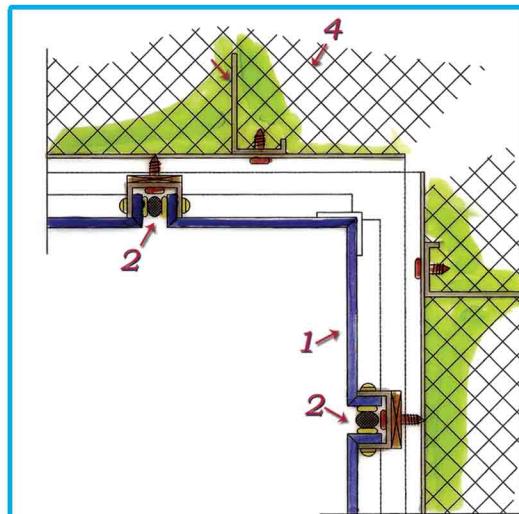
- 1- Technopanel Sheet
- 2- Gap Filler (Backing Rod + Silicon).





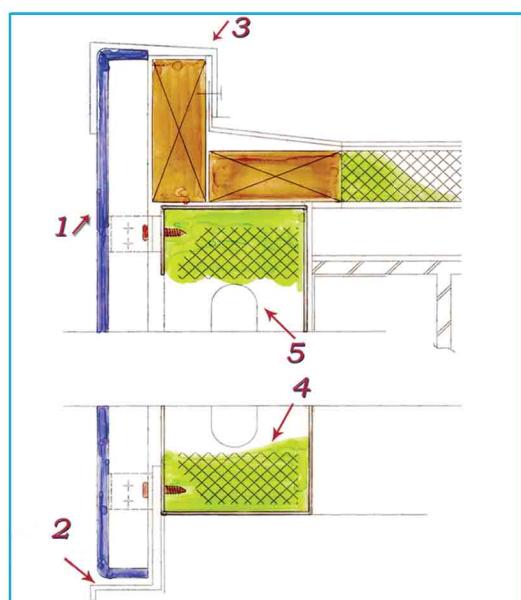
7

- 1- Technopanel Sheet
- 2- Aluminum Fitting
- 3- Gap Filler (Backing Rod + Silicon)
- 4- Framework
- 5- Insulating Materials



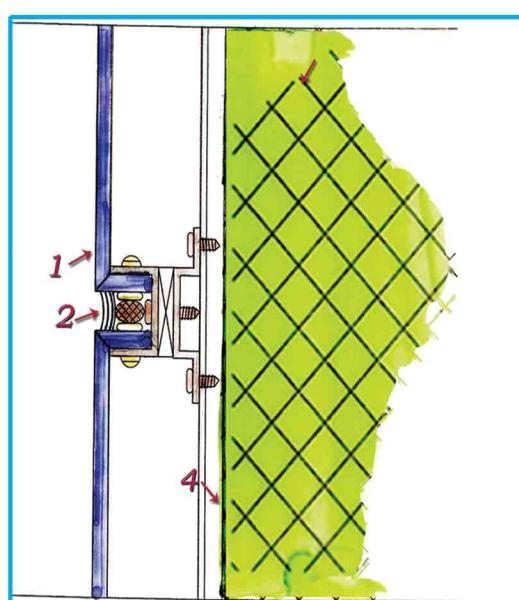
8

- 1- Technopanel Sheet
- 2- Gap Filler (Backing Rod + Silicon)
- 3- Framework
- 4- Insulating Material



9

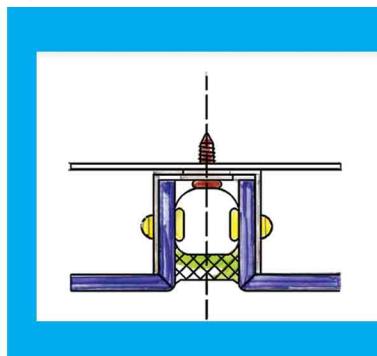
- 1- Technopanel Sheet
- 2- Gap Filler
- 3- Breakwater
- 4- Insulating Materials
- 5- Supporting frame



10

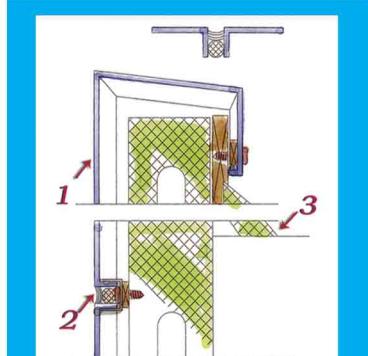
- 1- Technopanel Sheet
- 2- Gap Filler (Backing Rod + Silicon)
- 3- Insulating Material
- 4- Framework

11



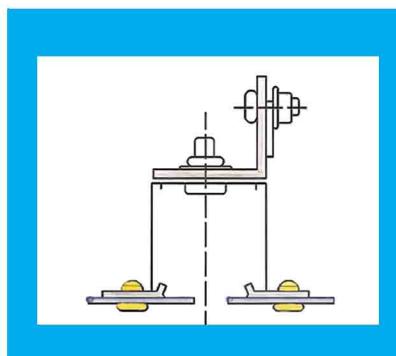
Screw Fastening

12

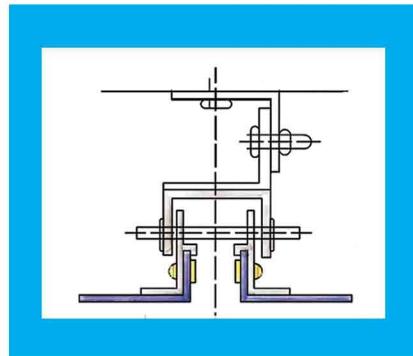


Cement Post Construction Method

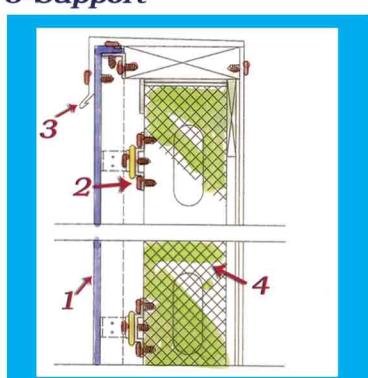
- 1-Technopanel Sheet
- 2-Gap Filler (Backing Rod + Silicon)
- 3-Support



Fastener Fastening

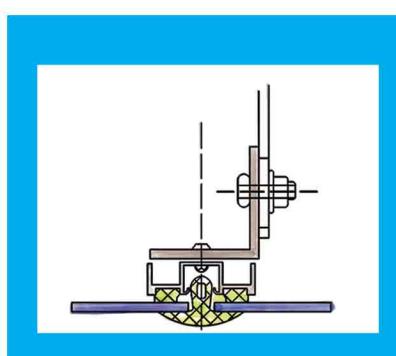


Fitting Part Suspending Fastening

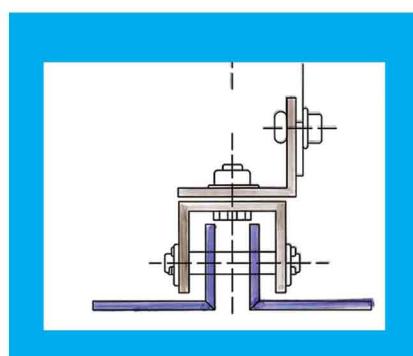


Supporting Frame Constructing Method

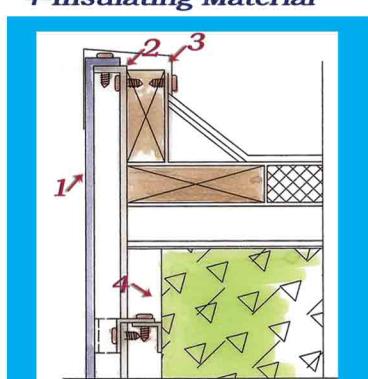
- 1-Technopanel Sheet
- 2-Framework
- 3-Breakwater
- 4-Insulating Material



Layerage Fastening



Suspending fastening



Common Constructing Method

- 1-Technopanel Sheet
- 2-Iron Angle
- 3-Breakwater
- 4-Adjustable Framework

شركة مصنع تقنية الألواح

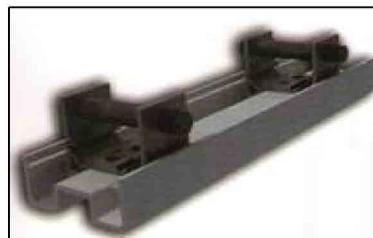
TECHNOPANEL ALUMINUM COMPOSITE PANEL



ACCESSORIES FOR INSTALLATION



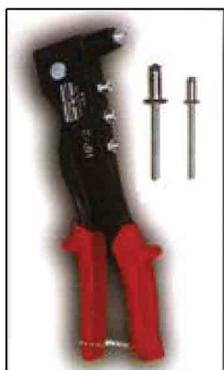
GI Steel Angle



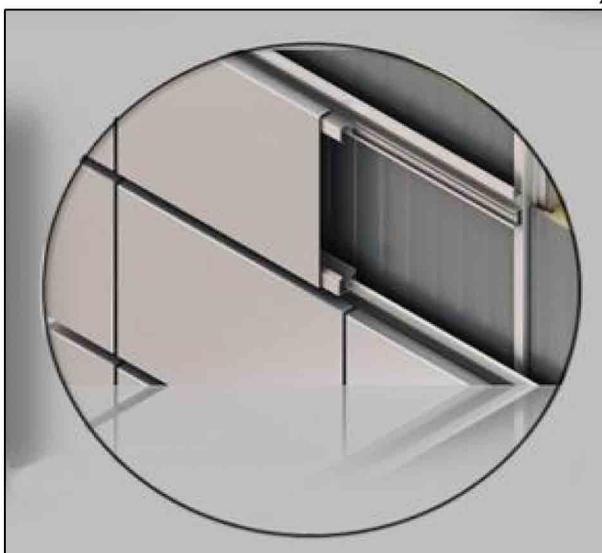
Aluminum Runner



Aluminum / Steel Tubes



Riveter and Rivets



Screw



Screw Driver



Sealant



Hand Drill



FINISHING AND MAINTENANCE

Protective Film Removal

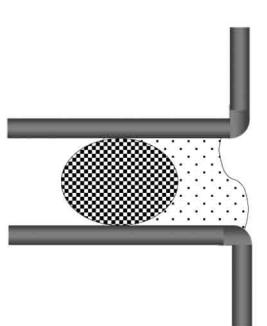
It is usual to remove the protective film after installation though 12 months warranty is provided as supplemental panel protection since the duration of certain projects may differ from one another.

Peeling-off the protective film is suggested to be done on each corner or substrate of the installed panel for a more convenient removal of the film.

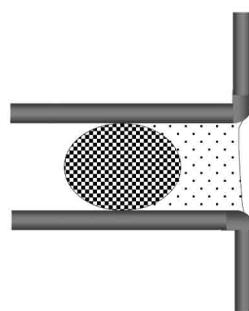
Do not prolong the protective film removal beyond the warranty limit since it may cause adhesive retention and film degradation under varying environmental conditions.

Sealant Finishing

During application of sealants in between panel partitions, it is recommended to follow as illustrated below:



This condition can cause the dirt to accumulate in between the hollow slots.



This condition is ideal to prevent dirt from accumulating in between slots.

Cleaning and maintenance of ACP

It is important to keep the panel in best condition to maintain the color and glossiness throughout its lifespan.

- Plain water is required to clean the surface of the panels.
- Do not use strong agents such as acids, solvents and strong alkali. This can damage the panel surface.
- Use a clean soft cloth for cleaning the surface. Prevent using cloth or material with abrasion that can cause scratches or damage on the coating.

شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL

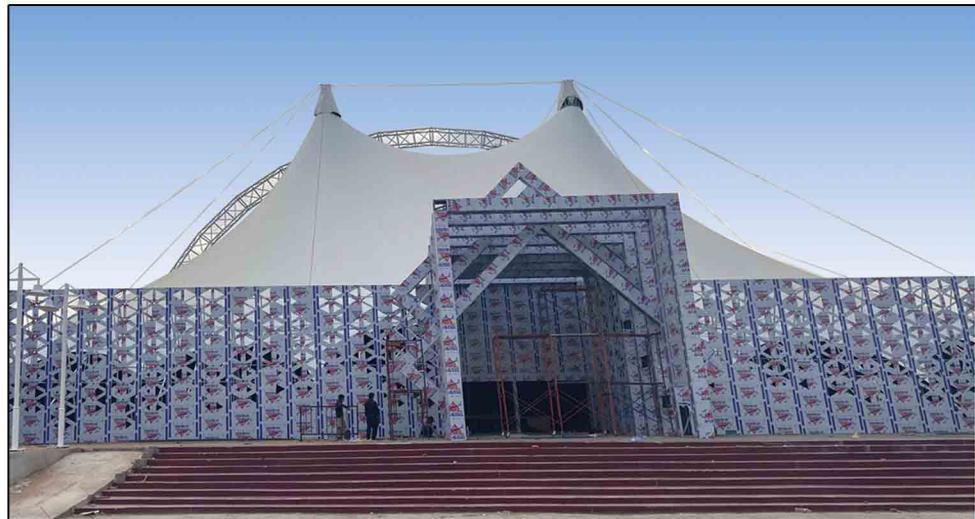


Train Project

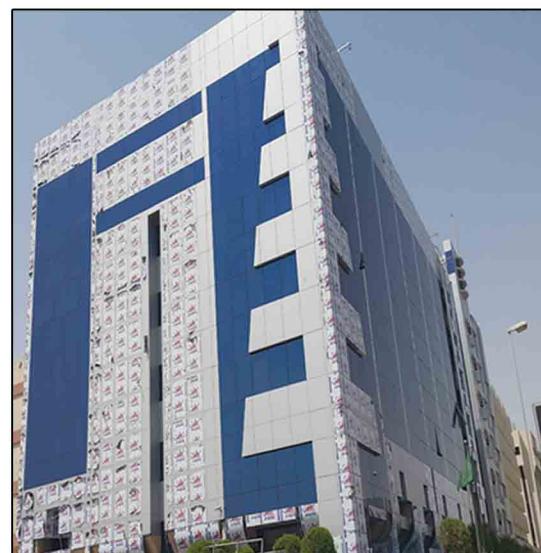


شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Granada Mall Theater
Exit 9 - Riyadh



Children Hospital - Al Taief

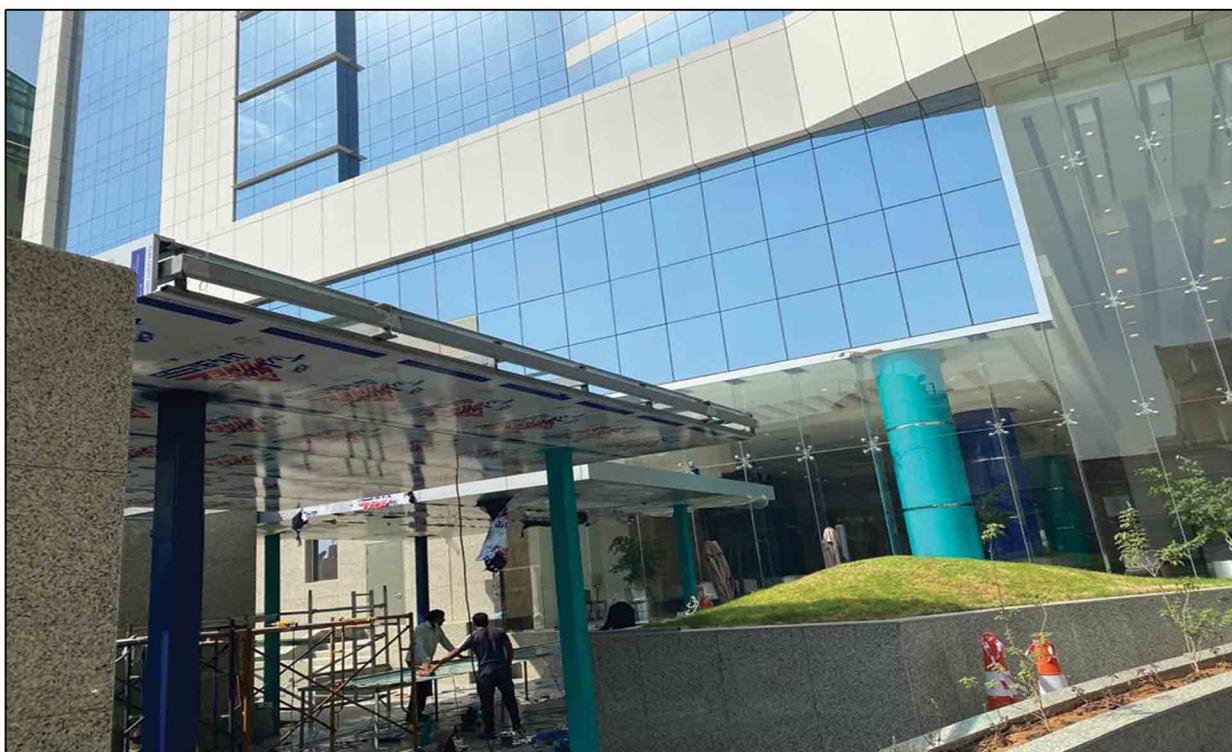


شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Owayed Al Brikan Project - Dhahret Laban



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Al-Sadhan Mall - Riyadh



Al Basateen Compound Project



Dawadmy Project

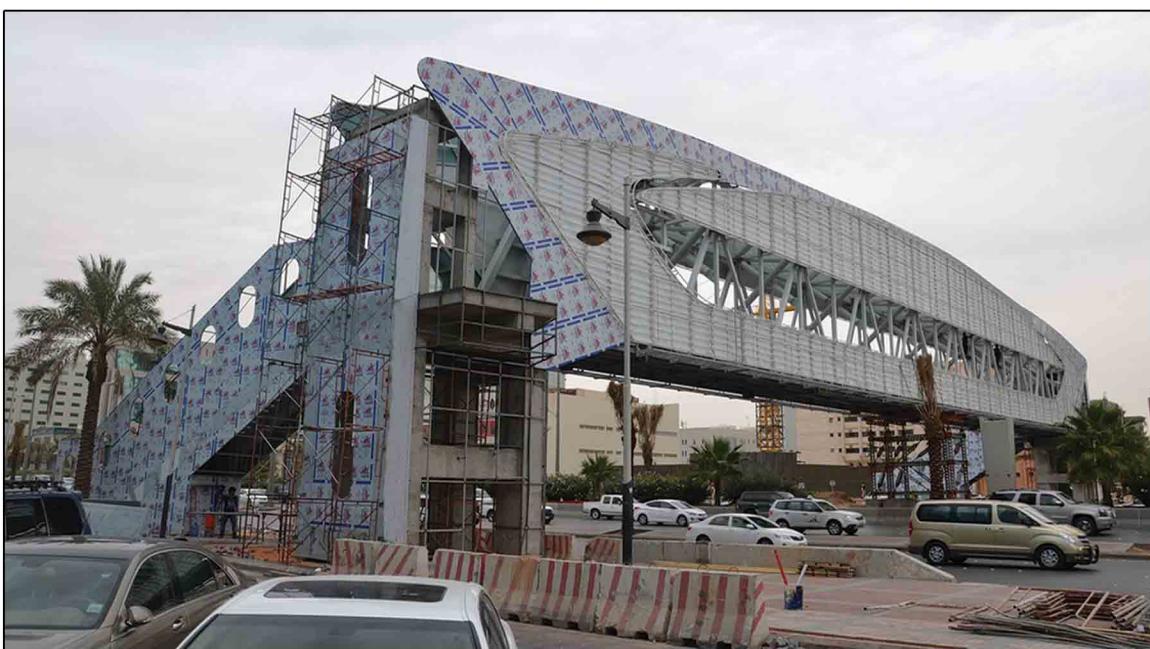


شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



King Fahd Road - Riyadh



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL

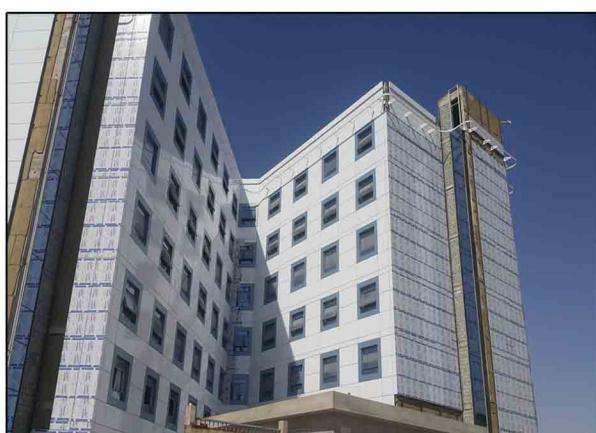


Administration Building - Riyadh



شركة مصنع تقنية الألواح

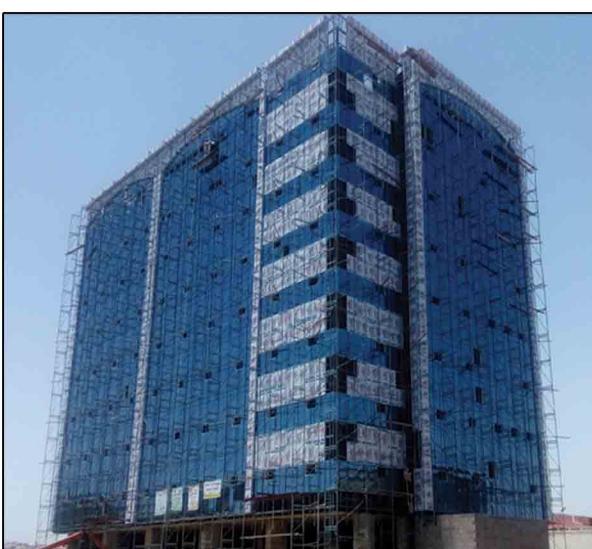
TECHNOPANEL ALUMINUM COMPOSITE PANEL



Al Amaken Hotel - Riyadh

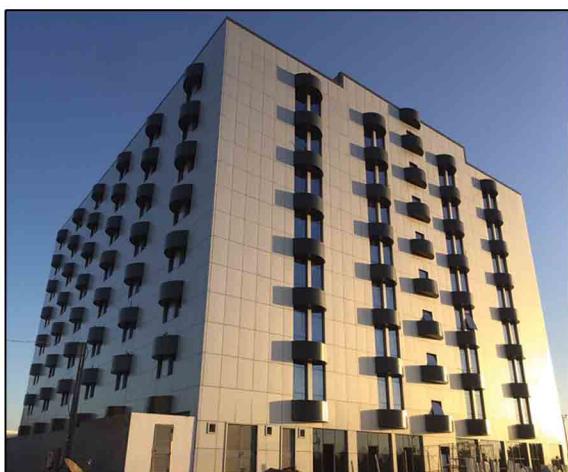


Al Safinah Restaurant - Alwashm

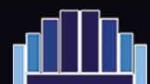


شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Al Olaya Al Akaria - North Ring Road



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Riyadh Bank Project

Al Rabeea Towers



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Al Arabia Factory - Bqiq



Extra - Eastern Ring Road - Riyadh

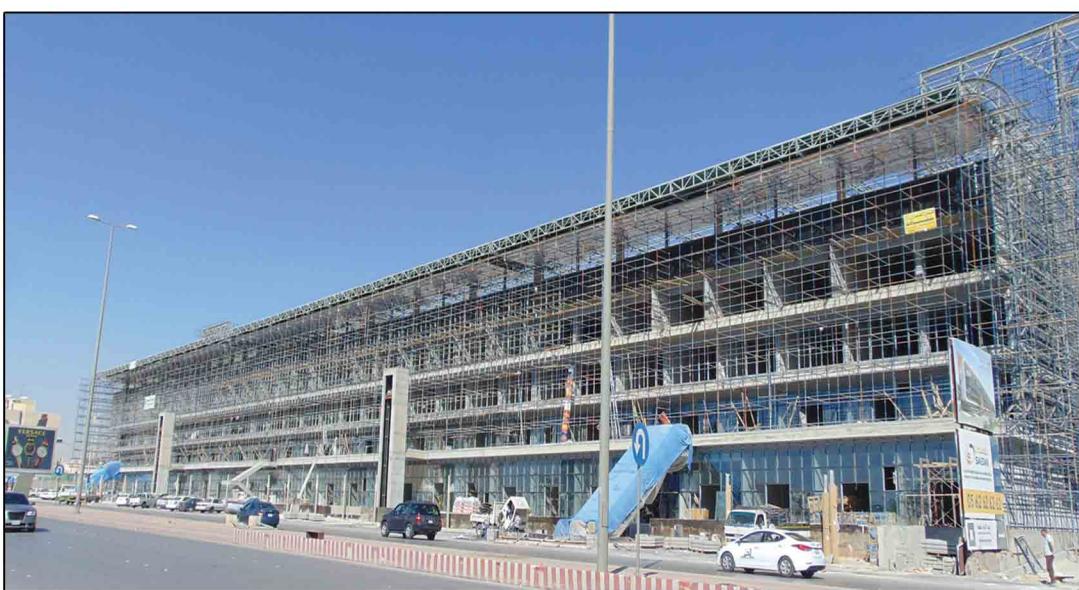


شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Saudi Wildlife Authority



Raden Center -Olaya Road - Riyadh



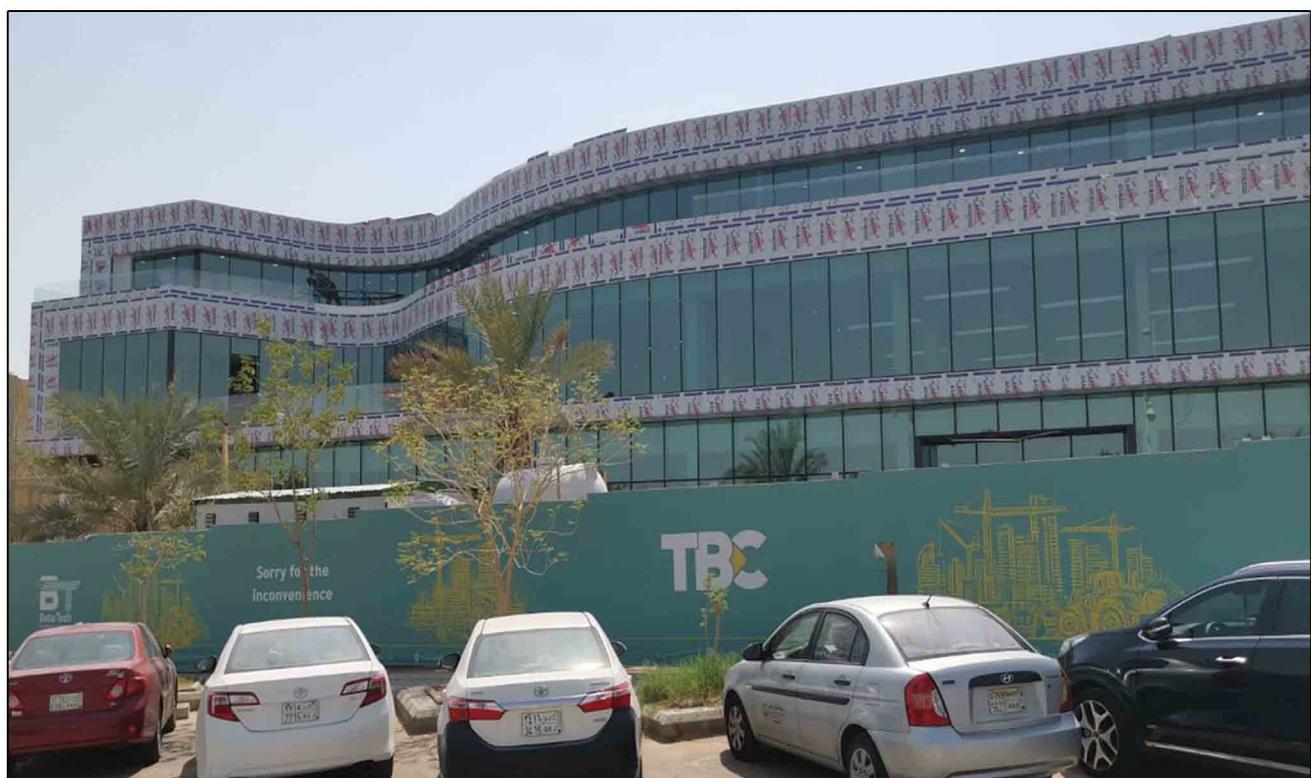
شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Yamamah Palace Hotel

Al Sarhan Hotel Apartments



ATR Project



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Hadab Hotel Project

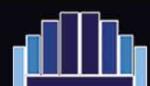


Saudi Red Crescent - Makah



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL

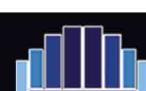


تصاريخ منشأة صناعية		استثمار وطني		المنشأة الصناعية	
نوع القرار	تعديل	رمز المنشأة	رقم القرار	تاريخ التصريح	تاريخ القرار
١٤٤٤-٠١-٢٦	١٤٤١-٠١-٢٧	٢٧١٥٣٦	١٤٤١-٠١-٢٧	١٠٠٠٦٩٣	١٤٤١-٠١-٢٧
(N25.160016 ,E46.31900599999945)		موقع المنشأة الصناعية منطقة الرياض المدينة المملهم		هاتف فاكس	شركة مصنع تقنية الألواح شركة مصنع تقنية الألواح فتح الفلاتن الثمينة وغير الحديدية القاعدية / ٢٤٠٦ المنطقة المنطقة المدينة
				١٠١٢١٩٨٠ ١٠١٢١٩٨٠	١٠١٢١٩٨٠ ١٠١٢١٩٨٠
<p>أ Büـعـمـاـة وـاـدـدـ فـرـدـاـ</p> <p>ثـمـانـيـة وـخـمـسـونـ مـلـيـونـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ</p> <p>وـخـمـسـةـ إـنـانـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ وـمـائـيـنـ</p> <p>وـخـمـسـونـ رـيـالـ وـخـمـسـونـ هـلـةـ</p> <p>أـورـاقـ ،ـصـفـافـ ..ـالـخـ)</p>					
الوحدة متر مربع		الطاقة الانتاجية ٦.....	النشاط الصناعي ٢٤٠٦- مصنوعات معدنية عاديـة غـيرـ حـديـدـ يـشـلـ (ـاسـلاـكـ ،ـمـواـسـيـرـ ،ـأـلـبـيـبـ ،ـمـاسـحـقـ ،ـأـورـاقـ ،ـصـفـافـ ..ـالـخـ)	رمز المنتج V1.19100	عدد العمالة ٠٨٢٨٠٥٨٢٠
<p>تمـكـنـهـاـ</p> <p>تمـكـنـهـاـ</p>					

وزير الصناعة والتروبة المعدنية
بندر بن إبراهيم الخريف

[Signature]

الرقم: ٧٠٠١٤٩٦٨٧١	ال التاريخ: ١٤٢٧/٠٤/٢٩	وزارة التجارة	VISION 2030
شهادة تسجيل الشركة <p>الاسم التجاري للشركة: شركة مصنع تقنية الألواح نوعها: ذات مسئولية محدودة مدة الشركة: ٢٠ سنة مركزها الرئيسي: الرياض صناعيـة نـمـةـ المـادـانـ عنـ: الرـمـزـ البرـيدـيـ: ١١٢٢٣ـ هـانـفـ: ٤٥٩٨٩٩ـ</p> <p>النشاط: مـصـنـوـعـاتـ مـعـدـنـيـةـ عـادـيـةـ غـيرـ حـديـدـ يـشـلـ (ـاسـلاـكـ ،ـمـواـسـيـرـ ،ـأـلـبـيـبـ ،ـمـاسـحـقـ ،ـأـورـاقـ ،ـصـفـافـ ..ـالـخـ)</p>			
رأس المال: ٧٠٠٠٠٠٠٠ ريال سعودي	المديرون:		
١ سعد عبدالرحمن عبدالعزيز بن رشيد	٣		
٥	٧		
٩	١١		
<p>سلطات المدير/المديرون: حـبـ مـاـ نـصـ عـلـيـهـ حـقـ الشـرـكـةـ</p> <p>يشهد مكتب السجل التجاري بمدينة: الرياض بأنـهـ تـمـ تـسـجـلـ فـرعـ الشـرـكـةـ المـذـكـوـرـ أـمـلـهـ بـمـدـىـنـةـ الـروـاـضـ بمـوـجـبـ الإـبـصـالـ رـقـمـ ٣٨٣٩٣٣٢٦ـ وـتـارـيخـ ١٤٤٢/٠٤/٠٦ـ وـتـنـتـهـيـ صـلـاحـيـةـ الشـهـادـةـ فـيـ ١٤٤٣/٠٤/٢٠ـ</p>			
٢ عبد الرحمن عبد الرحمن	٤		
٦	٨		
١٠	١٢		
<p>مدير السجل التجاري للشركات: التـوـقـعـ: عبد الرحمن عبد الرحمن</p> <p>To verify the information of this certificate visit http://v.mci.gov.sa</p>			



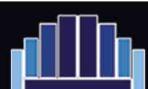
شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



 VISION ٢٠٣٠ المعايير الجديدة للمباني والمنشآت KINGDOM OF SAUDI ARABIA Saudi Standards, Metrology and Quality Org.	<p>السادة / شرورة معضم تقنية الألواح السلام عليكم ورحمة الله وبركاته، وبعد ..</p> <p>المختبر</p> <p>أشارة إلى خطابكم رقم ٥٥٥٣ وتاريخ ١٣/٠١/١٤٤١ بخصوص الاستفسار عن صحة شهادة المطابقة المسالمة من جهة انتزتك رقم الشهادة ١٣٥٠٦-٠٢٦-١٩٠٣٧٤٩٠ (٠٣٧٤٩١-١٩٠٢٦-١١٣٥٠٦) وتأريخ ٢٠١٩/٠٩/١٢، نود الإفاده أن جمه انتزتك هي احدى الجهات الموقولة لدى الهيئة السعودية للمواصفات والمقيمين والموجودة وأن الشهادة المسالمة أعلاه صحيحة وصادره من خلال منصة سمارت الالكترونية. ونواف بن حسن الشهري وتبليغ أطيب تحياتي ...</p> <p>مدير إدارة تفويض هات توقيع المطابقة</p> <p>نواف بن حسن الشهري</p> <p>وتقبلاً أطيب تحياتي ...</p> <p>وكيل</p> <p>www.sso.gov.sa</p>
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 Certificate of conformity for regulated products شهادة توافق المنتجات المقيدة DUBAI BRANCH	<p>Office number (_____) are bearing full responsibility or the product described below is conforms to the Conformity assessment procedure defined the relevant technical regulations and standards which mentioned during this certificate.</p> <p>02615</p> <table border="1"> <tr> <td>Certificate Number</td> <td>11305-026-19-037491</td> <td>Issue Date</td> <td>11/09/2019</td> <td>Expire Date</td> <td>11/09/2020</td> </tr> <tr> <td>Certificate Type</td> <td>Certificate of conformity for regulated products</td> <td>Commercial Registration No.</td> <td>1010219580</td> <td></td> <td></td> </tr> <tr> <td colspan="6">Establishment Address</td> </tr> <tr> <td>Model type</td> <td>قماش العزل الحراري والمعابر (Eco)</td> <td>Product and Manufacturer Data</td> <td>Trade Mark</td> <td colspan="2">Technopanel</td> </tr> <tr> <td>Product Name</td> <td>Technopanel</td> <td>Product Description</td> <td>aluminum fire retardant composite panels</td> <td></td> <td></td> </tr> <tr> <td>Country of origin</td> <td>Saudi Arabia</td> <td>IC Code</td> <td>76109090004</td> <td></td> <td></td> </tr> <tr> <td>Establishment Address</td> <td colspan="5">Technical Regulation for Building Materials - Part II: Insulating and Cladding Materials for Buildings</td> </tr> <tr> <td>Manufacturer name</td> <td colspan="5">Technopanel</td> </tr> <tr> <td>Manufacturer Address</td> <td colspan="5"></td> </tr> <tr> <td>Report number</td> <td colspan="5"></td> </tr> <tr> <td>Report Date</td> <td colspan="5">12/09/2019 09:04</td> </tr> <tr> <td>Review Period</td> <td colspan="5">Product Approval</td> </tr> <tr> <td>Review Address</td> <td colspan="5"></td> </tr> <tr> <td>CB Organization Office Responsible manager signature</td> <td colspan="5"></td> </tr> <tr> <td colspan="6"> </td> </tr> <tr> <td>Certificate Number</td> <td>11305-026-19-037491</td> <td>IC Code</td> <td>76109090004</td> <td colspan="2"></td> </tr> <tr> <td>Product Name</td> <td>Technopanel</td> <td>Model No.</td> <td>(Eco)</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Barcodes and serial numbers supplement</td> </tr> <tr> <td colspan="6">Barcode : 760691900</td> </tr> </table>		Certificate Number	11305-026-19-037491	Issue Date	11/09/2019	Expire Date	11/09/2020	Certificate Type	Certificate of conformity for regulated products	Commercial Registration No.	1010219580			Establishment Address						Model type	قماش العزل الحراري والمعابر (Eco)	Product and Manufacturer Data	Trade Mark	Technopanel		Product Name	Technopanel	Product Description	aluminum fire retardant composite panels			Country of origin	Saudi Arabia	IC Code	76109090004			Establishment Address	Technical Regulation for Building Materials - Part II: Insulating and Cladding Materials for Buildings					Manufacturer name	Technopanel					Manufacturer Address						Report number						Report Date	12/09/2019 09:04					Review Period	Product Approval					Review Address						CB Organization Office Responsible manager signature												Certificate Number	11305-026-19-037491	IC Code	76109090004			Product Name	Technopanel	Model No.	(Eco)			Barcodes and serial numbers supplement						Barcode : 760691900					
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شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



المملكة العربية السعودية
وزارة التجارة والصناعة
الإرشاد الصناعي

بيان الخدمة

الرقم : ٢٣٠٧٣
التاريخ : ١٤ ذي القعده ١٤٣٩
الموقت :
الإرشاد الصناعي

سعادة مدير عام إدارة المشاريع
المؤسسة العامة للتقاعد

المحترم

السلام عليكم ورحمة الله وبركاته
أود الإطلاع أن مصنع تقنية الألواح مرضي له بموجب القرار الوزاري رقم (٤٦١) (١٤٣٩) وتاريخ ٢٣/١١/٢٠٢٢ هـ .
وذلك لإنتاج الواح المنفيوم معزولة ولديه الإمكانيات لتأمين احتياجكم من إنتاجه.
لذا نأمل الإيمان الجية المختصة لديك بتأمين احتياجكم من منتجات الصناعة الوطنية
عمل بقرار مجلس الوزراء المؤقر بهذا الشخصوص .
شكراً دعمكم وتشجيعكم للصناعة الوطنية.

مع أطيب تحياتي وتقديرى :
مدير إدارة تشجيع الصناعة بالنيابة

بسام بن عبد العزيز الهاشمي
٢٠٢٢/١٢/١



المملكة العربية السعودية
وزارة التعليم العالي
الإرشاد الصناعي

بيان الخدمة

الرقم : ٢٣٠٧٥
التاريخ : ١٤ ذي القعده ١٤٣٩
الموقت :
الإرشاد الصناعي

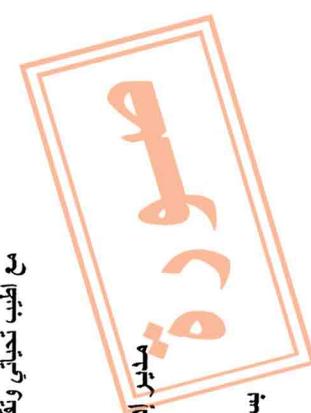
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وزارة التعليم العالي

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بسام بن عبد العزيز الهاشمي
٢٠٢٢/١٢/١



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



Kingdom of Saudi Arabia	Ministry of Health
المملكة العربية السعودية	وزارة الصحة
الرقم: ٣٩٥٢٣٩ التاريخ: ١٦-٠٩-٢٠١٤ العنوان: ١٢١٤٣٥٦١١٤٣٢٠	العنوان: الميدان للتجزئة الهرم الرقم: ٣٩٥٢٣٩ التاريخ: ١٦-٠٩-٢٠١٤ العنوان: ١٢١٤٣٥٦١١٤٣٢٠
الموضوع: بشأن طلب تأهيل شركة مصنع تقنية الألواح (تكنوبانل) المجتهدون	العنوان: / / ٤١٤
ال التاريخ: / /	ص.ب: ٣٠٣٦٠
السلام عليكم ورحمة الله وبركاته ... وبعد ..	
<p>إشارةً إلى خطابكم رقم (٤٠١٠١١٤٣٤٤٢٠٩٠٢٤٠٢٤٠٢٠١١٠٠) وتاريخ ٢٢/٠٦/٢٠١٤هـ</p> <p>بخصوص طلبكم الموافقة على اعتماد وتأهيل منتجات مصنعكم من</p> <p>ألواح الألومينيوم المعزولة والتي تستخدم في تكسية الواجهات (الكلادنج)</p> <p>لناكونها ضمن الموردين في مشاريع الملاحة،</p> <p>نفيدكم بأنه بعد أن تم دراسة الملف الخاص بشركتكم - بكم</p> <p>تقديم منتجاتكم لقاوبي مشاريع الوزارة حال كانت مطابقة لمعايير</p> <p>المشروع بالوزارة.</p> <p>مع أطيب تحياتي وتقديرني</p> <p>.....</p>	

العنوان:	العنوان:	العنوان:	العنوان:
ادارة وتشريف:	ادارة وتشريف:	ادارة وتشريف:	ادارة وتشريف:
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العنوان:	العنوان:	العنوان:	العنوان:
لادا - دارالامان - دارالامان - دارالامان	لادا - دارالامان - دارالامان - دارالامان	لادا - دارالامان - دارالامان - دارالامان	لادا - دارالامان - دارالامان - دارالامان
<p>DOCUMENT SUBMITTAL</p> <p>To : Eng. Ibrahim Al Fuhaid Arriyadi Development Authority P.O. Box : 94561 - Riyadh - 11614</p> <p>From: HORIZON CONTRACTING P.O. Box - 40267 Riyadh - 11499</p> <p>Submittal No.: 304</p> <p>Transmittal for: MATERIAL TEST</p> <p>Location: A S M E</p>			
<p>RE SUBMITTAL <input checked="" type="checkbox"/> NEW SUBMITTAL <input type="checkbox"/> WARRANTY CERTIFICATE <input type="checkbox"/> DRAWINGS <input type="checkbox"/> ATTACHMENT: <input type="checkbox"/></p> <p>DATE: 04-Jun-14</p> <p>CALCULATION <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> OTHER <input type="checkbox"/></p>			
<p>DESCRIPTION</p> <p>CONTRACT REF</p> <p>ACTION CODE</p>			
<p>B C D</p> <p>PROJECT MANAGER Eng. KHALID SABEH AYOUN SIGNATURE</p>			
<p>WE CERTIFY THAT THE ABOVE SUBMITTED ITEMS HAVE BEEN REVIEWED IN DETAIL AND ARE CORRECT AND IN STRICT CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS</p>			
<p>SM COMMENTS:</p> <p>* A compiled sample for mentioned above canopy should be provided before installation in site.</p> <p>* Should obey all specification of project requirements in all details.</p> <p>* Should follow approved color for mentioned above item.</p> <p>* Use 5mm thick for aluminum canopy panel.</p>			
<p>E = APPROVED F = DISAPPROVED See Attachment <input checked="" type="checkbox"/></p> <p>PROJECT DIRECTOR Eng. MOAYAD AL MAJED Signature</p> <p>Project Director Signature</p>			
<p>REF. IN: ٢٤ JUN ٢٠١٤ REF. OUT: ٢٤ JUN ٢٠١٤ No. ١٤٠٦٢٤٧٠٠ B.T. ٩-٥-٢٠١٤</p>			



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



 الى حفظها رقم الطلب : ٢٠٢١٩٣٧٣٤٣٣ تاريخ : ٢٠٢١-١٠-١٨ شفرات : ٦٤٢٠٠٠٤٣٩٣٠٢١٤ قرارات : ١٢٣٥١٥١٢٠٠٢٣٩٣٠٢٠٠٤١ برقم : ٢٠٢١٢٠٢٠٠٤١٠٤٢ بيون : 	وزارة التربية والتعليم وزارة التربية والتعليم وكالة المراقبة الميدانية إدارة المعاشرة وضبط الجودة إدارة اعتماد المؤهلات  وزارة التربية والتعليم Ministry of Education
الموضوع : موافقة استخدام منتجات شركة تقنية الألواح (تكنوبانل) 	السلام عليكم ورحمة الله وبركاته ص ب ١٤٢٤١ - الرياض ١٤٣٤٣ السلام عليكم ورحمة الله وبركاته رقم طلبكم رقم ٢٠٢١/٤٢٤١ به بخصوص طلب استخدام منتجاتكم في مجال الالواح الواجهات (كالدإنج) لمشاريع الوزارة . نفيدكم بأنه يمكنكم تقديم عيناتكم من خلال المقاولين المتنفذين لنشاط الوزارة ضمن عشر سنوات وفق صيغة الضمان المقترن بالوزارة وتعتبر مسؤليتكم تضامنية مع المقاول المتنفذ وسيتم إيقاف استخدام منتجاتكم تلقائياً حال وجود عيوب صناعية أو ملاحظات على المنتجات المذكورة أعلاه وسوف يتم إعادة شقها التجسسات بعد عدم من تاريده . والسلام عليكم ورحمة الله وبركاته

 الى حفظها رقم الطلب : ٢٠٢١٩٣٧٣٤٣٣ تاريخ : ٢٠٢١-١٠-١٨ برقم : ٢٠٢١٢٠٢٠٠٤١٠٤٢ فاكس : ٠٢٤٠٢٩٦٦١١٤٦ 	الى حفظها رقم الطلب : ٢٠٢١٩٣٧٣٤٣٣ تاريخ : ٢٠٢١-١٠-١٨ برقم : ٢٠٢١٢٠٢٠٠٤١٠٤٢ فاكس : ٠٢٤٠٢٩٦٦١١٤٦ السلام عليكم ورحمة الله وبركاته السلام عليكم ورحمة الله وبركاته وبعد ، إثراء لخطابكم رقم ٢٠٢١٩٣٧٣٤٣٣ به بخصوص استخدام منتجاتكم الواح الألومنيوم المعزولة (الكلادينج) والتي زرارة التي تمت لمصنعكم بمدينة الرياض وذلك بتاريخ ١٢/١١/٢٠٢١م الدلایع على منتجات المصانع وطرق ضبط الجودة ومعرفة المواد الأولية ومرادفات التصنيع المختلفة حتى المنتج النهائي . نفيدكم بأنه للأملأ من اعتماد منتجاتكم عن طريق المقاولين المتنفذين لمشروع الوزارة لكمفهم المستفيدين بتقديم المواد الخام وطبقاً للمواصفات الفنية لمشاريع الوزارة والمواصفات الفنية للسلع السعودية مع الاستقرار بمراقبة وضبط الجودة بمتطلباتكم . مدير عام الإدارة العامة للشئون الهندسية م. ثغان بن عيسى المنعلان ٢٠٢١/١٠/٢٠
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الرسالة تأتيكم من شركة مصنع الألواح تقنية الألواح

السيد/ة/ الشركة مصنع الألواح تقنية الألواح

الموضوع: تأهيل شركتك تكنوپانل لدى الهيئة.

الموقر

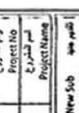
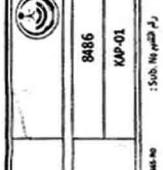
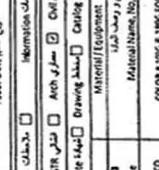
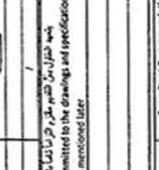
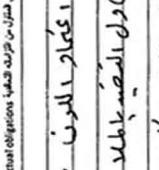
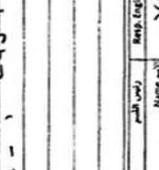
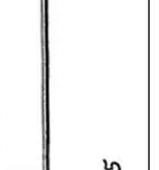
السلام عليكم ورحمة الله وبركاته

إشارة إلى كتابكم الوارد الهيئة برقم (٤٠٧٠) وتاريخ ٢٩/١٠/٢٠١٤ ، به، بشأن تطلبكم اعتماد منتجاتكم من الألواح المعروفة باسم الموردين المعتمدين لدى الهيئة.

عليه، وبناءً على دراسة ملف منتجاتكم تحيطكم بأنه لا مانع من اعتماده وتقديمه لمقاولى مشاريع الهيئة حال مطابقها للمواصفات وشروط المشروع المقدم عليه.

ولكم تحياتنا،

مدير إدارة
الشراوف وتنفيذ المباني الحديدة
٨٦٦
هاني بن سعيد رجيان

 Saudi Panel Manufacturer Association		 National Organization for Standardization	
 Saudi Committee for Technical Standardization and Accreditation			
 General Organization for Technical Regulation and Metrology			
 Saudi Standards, Metrology and Quality Organization			
 General Organization for Technical Regulation and Metrology			
 National Organization for Standardization			
 Saudi Panel Manufacturer Association			
 National Organization for Standardization			
 General Organization for Technical Regulation and Metrology			

 Saudi Panel Manufacturer Association			
Project Manager	Contractor Project Manager	Project Title	Comments
Project Name	Material Description	Sub Type	Type
Project No.	Material No.	Model No.	Supplier
Date	Quantity	Length	Color
Approval: I declare that the submittal is fully committed to the drawings and specifications of the contract, except as mentioned later Sample			
Approval: I declare that the submittal is fully committed to the drawings and specifications of the contract, except as mentioned later Signature SAUDI INSPECTOR LTD KAP-8486 14/10/2014			

 Saudi Panel Manufacturer Association			
Project Manager	Project Manager	Dept Manager	Proj. Engineer
Name	Name	Name	Name
Note:	Note:	Note:	Note:
Signature	Signature	Signature	Signature
Date	Date	Date	Date
Approval: Incorporate Comments & Revise Signature SAUDI INSPECTOR LTD 14 Oct 2014			

شركة مصنع تقنية الألواح
PANELS TECHNOLOGY FACTORY CO.

شهادة ضمان

منتج مقاوم للحرارة

This Certificate is presented to

تشهد إدارة شركة مصنع تقنية الألواح (تكنوبانل) بأننا نضمن المواد المصنعة بمصنعتنا طبقاً للمواصفات القياسية السعودية رقم 2752/2008 ضد تغيير الألوان وضد تفتك الصفائح وجميع عيوب الصناعة لمدة عشرون عاماً من تاريخ الانتاج وذلك إستناداً إلى رقم الفاتورة والرقم المسلسل للألواح.

PANEL TECHNOLOGY FACTORY are manufacturing of good quality Aluminum Composite Panel and we guarantee you that our product are pass in any kind of laboratory tests for Aluminum Composite Panel from peeling strength to color coating we give you this certificate 20 years guaranty

We are under licence of HUAERTAI (Dongguan Walltes Decorative Material Co.L.t.d) Taiwan Investment since 1974 ISO 9001 : 2000 HUAERTAI is our Certificate holder for KINAR500, HYLAR 5000. QMS

SGS



Total Pages :	39
Prepared by:	Liteo Padua
Issued # :	2
Page Rev :	1
Date Issued:	July 26, 2014

Aluminum Composite Panel
(*Technopanel*)
Quality & Procedures Manual
ISO 9001 : 2008



ALUMINUM COMPOSITE PANEL (TECHNOPANEL) Quality Policy

Is committed to providing worldwide integrated Production and Assembly of many types of

aluminum composite panels.

STRIVE TO ACHIEVE THIS BY:

- ✓ Promoting an understanding of Our customers' needs and expectations.
Together with a culture of exceeding customer expectations.
- ✓ Developing seamless processes by fully integrating the services Provided by our suppliers and partners.
Paying suppliers on time related to the contract
- ✓ Continues Improvement of our Works Monitoring our performance
Through performance metrics in order to continually Improve our processes and services.

- ✓ Continues commitment Utilizing our ISO 9001:2008 quality management system
For all company processes everywhere, every time, without exception.

Mr. Khaled Abdulrahman Al-Rashed

Date: July 26, 2014

Approved by Board of Directors: Mr. Khaled Abdulrahman Al-Rashed



شركة مصنع تقنية الألواح

TECHNOPANEL ALUMINUM COMPOSITE PANEL



KYNAR 500®

KYNAR 500® POLYVINYLIDENE FLUORIDE RESIN LICENSEE CERTIFICATE

BECKER INDUSTRIAL CHINA PAINT LIMITED

Has successfully met all requirements set forth by
Elf Atochem North America, Inc.
and has been licensed to
supply coating formulations containing
KYNAR 500® Resin.

Richard B. Cuddeback
Manager International Sales & Marketing
Technical Polymers

elf atochem

Beckers Becker Industrial - China Paint Limited

Kynar is a registered trademark of Elf Atochem North America, Inc. and coating formulations based on Kynar 500 resin can only be supplied by Elf Atochem Licensees.



Certificate of Assessment

Aluminum Composite Panel (TechnoPanel)

P. O. Box 10342 Riyadh 11433 Kingdom of Saudi Arabia

EQACC hereby grants to the above company
whose Quality Management System is in conformance with

ISO 9001:2015

Scope
Production of Aluminum Composite Panel

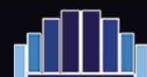
Registration No. QA130077
First issued on 28 December, 2016
This certificate is valid until 26 December, 2018

The Chief Executive



This certificate is issued under the brand EQA (European Quality Assurance) on behalf of KONICC (Korea International Certification Center).
Further clarifications regarding the scope of this certificate and its applicability of ISO 9001:2008 requirements may be obtained by consulting KONICC
#803, 9F, Byeoksan Digital Valley 7-Cheon, #170-13, Gwang-dong, Seoul, Korea, 152-742 / URL: www.eqacert.com

CERTIFICATE





This is a certificate of compliance to certify that the bearer has successfully completed the requirements of the above scheme which include the testing of products, the initial assessment, and are subject to continuing annual assessments of their compliance and testing of samples of products taken from production (as applicable to the scheme) and has been registered within the scheme for the products detailed.

Certificate of Compliance

You have been awarded:

Intertek ETL US Mark for Building Panels, Building Materials With Surface Burning Characteristics

Standards: ASTM E84 (2016)

Certificate number: WHI17-30486701

Organization: Tqneyat Al Alwah (Panels Technology Factory) -
Technopanel
P.O. Box 10342, Bldg 214 – 217
Al Madaen Industrial Zone, New Kharj Road
Riyadh 11433
Kingdom of Saudi Arabia

Product: Tqneyat Al Alwah (Panels Technology Factory) -
Technopanel - FR B1 Aluminum Composite Panel
Spec ID: 41787
Listing Information: See following page(s)

Certification body: Intertek Testing Services NA, Inc.
Initial registration: July 04, 2017
Date of expiry: December 31, 2021
Issue status: 9

Authorized By: Jean-Philippe Kayl, Director of Certification

Intertek Testing Services NA, Inc.
545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA
Phone: 847-439-5667 Fax: 847-439-7320

www.intertek.com

The certificate and associated mark or logo may only be used by the holder in accordance with Intertek Testing Services NA, Inc. Any other use without prior written consent or user should contact Intertek to validate its status. This certificate grants the privilege of Intertek Testing Services NA, Inc. Any other use without prior written consent. This certificate is issued in accordance with Intertek's Client Agreement and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek does not normally issue numbered certificates. This certificate is Intertek's assumption of liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage sustained by the use of this certificate. Only the Client is granted the right to permit copying or distribution of this certificate and shall do so only in the ordinary course of business relating thereto, provided that such copying or distribution does not permit the use of the certificate as a basis for the sale or advertisement of the tested material, product or service that has been approved in writing by the relevant industry associations and follow up services, and that it is not being used for the purpose of deceiving the public. If the Client fails to do so, Intertek reserves the right to cancel the Client's certification agreement.

LISTING INFORMATION

Technopanel Fire-Retardant B1 Aluminum composite panel (FR-ACP) is a product consisting of two sheets of aluminum bonded to each side of a halogen-free fire-retardant polyethylene core. Panels are available in 4mm, 5mm, or 6mm thickness.

FLAME SPREAD RATINGS

Panel tested*

Test Standard	Flame Spread Index	Smoke Development Index
ASTM E84	5	20

Core tested**

Test Standard	Flame Spread Index	Smoke Development Index
ASTM E84	30	145

*Results based on 6.0mm thick panel. Flame spread rating only valid with exterior skin facing towards the flame.

**Results based on testing with one side of aluminum skin removed and core material facing towards the flame.



CERTIFICATE OF COMPLIANCE

Certificate Number: R40168
 Report Reference: R40168-2020-10-23
 Date: 2020-November-02

Issued to: TECHNOPANEL
 MADAIN INDUSTRIAL 212 TO 217, NEW KHARJ ROAD,
 P.O BOX 10342, RIYADH 11433
 Riyadh, KSA SA

This is to certify that
 representative samples of

SHEATHING MATERIALS

"Technopanel – FR A2 Aluminium Composite Panel" 6mm
 thick. 6mm thick product to give coverage for 4mm and
 5mm thickness.

Have been investigated by UL in accordance with the
 Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL723, Standard for Surface Burning Characteristics for
 Building Materials

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



**TEST REPORT
REACTION TO FIRE TEST**

TEST SPONSOR:

Panels Technology Factory
Exit 18, New Khari Road, Al Madain Industrial Zone
Riyadh 11433, Kingdom of Saudi Arabia P.O. Box 10342
T: +966 11 244 7755, F: +966 11 242 9040
Website: www.technopanel.com.sa

TESTED MATERIAL/ASSEMBLY:

6mm thick Technopanel FR Aluminium Composite Panel (ACP)

TEST STANDARD:

ASTM E84-16: Standard Test Method for Surface Burning Characteristics of Building Materials



Test Date: 24-May-17
Issue Date: 4-Jun-17
Test Reference No. RD132-1

www.bell-wright.com



Test Date: 12-Feb-17
Issue Date: 1-Mar-17
Test Reference No.: QK051-1 (Rev.01)

www.bell-wright.com



Test Date: 12-Feb-17
Issue Date: 1-Mar-17
Test Reference No.: QK051-1 (Rev.01)

www.bell-wright.com

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**TEST REPORT
REACTION TO FIRE TEST**



Test Date: 24-May-17
Issue Date: 4-Jun-17
Test Reference No. RD132-1

www.bell-wright.com



Test Date: 12-Feb-17
Issue Date: 1-Mar-17
Test Reference No.: QK051-1 (Rev.01)

www.bell-wright.com

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PPG Paint Co., Ltd.
Products Warranty

From : PPG Technical Department

Contact Number : 021-37584583

No : 1

FAX :

Period : 2017/8/19

To :
Dear Valued customer:

Many thanks for your great supports to PPG like always!

PPG's DURANAR® is a product which based on 70% Kynar® 500 or Hytar 500 PVDF resin, with outstanding weather resistance and high performance, it could meet or exceed AAMA 2605 standard if applied by the PPG approved applicator.

5TMW16750-2 are PPG PVDF coil -coat products. PPG could provide 15-20 years performance warranty when line products pass the testing of AAMA-2605.



TEST REPORT

No. : GZCCM130600402-01
Date : Nov. 23, 2013
Page: 1 of 17

PANELS TECHNOLOGY FACTORY
RIYADH-NEW KHARJ ROAD, MADAIN INDUSTRIAL 212-217

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name	: ALUMINUM COMPOSITE PANEL
Spec.	: 4mm THICKNESS
SGS Ref. No.	: GZMR130609265, AJD201304272, KV-13-06532X
Test Performed	: Selected test(s) as requested by applicant
Date of Receipt	: Jun. 14, 2013
Test Period	: Jun. 19, 2013 to Sep. 18, 2013
Test result(s)	: Please refer to the following page(s) *****To be continued*****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd
Guangzhou Branch


Chandler Wu
Technical Engineer

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Member of the SGS Group (SGS SA)



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电话: +86-20-87565555 | +86-20-82070000 | www.sgsgroup.cn
电邮: sqdt@sgs.com.cn

