



**JCOM**

Aluminium Honeycomb Panel

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## Aluminium Honeycomb Panel

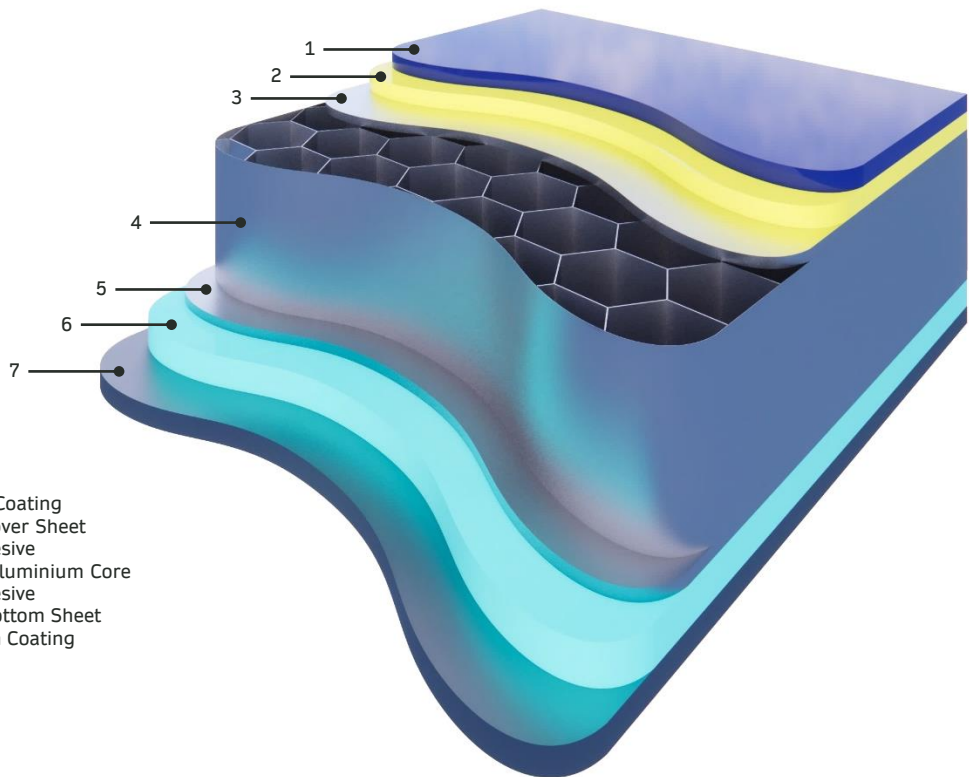
JCOM is a sandwich aluminium composite panel which consists of two aluminium sheets and an aluminium honeycomb core. JCOM is extremely rigid and lightweight at the same time and have a wide variety of applications.

The components of JCOM comprises of seven layers which are all made of non-combustible materials. JCOM is highly weather and pollution resistant, incredibly durable and extremely light in weight.

JCOM is perfect not only for external applications, including wall cladding and roofing, but also ideal for interior design applications, such as ceilings and interior wall cladding. JCOM is an ideal product for all kinds of construction, from residential to industrial projects.

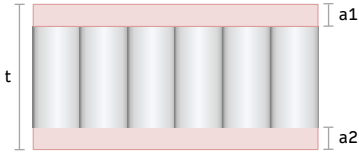
### KEY FEATURES

- Lightweight in nature, allowing ease of installation
- Similar installation as traditional aluminium composite panel, but does not contain combustible polyethylene elements
- Comes in various thickness of choice for different kinds of application
- Highly durable, weather resistant and non-corrosive



1. PVDF Colour Coating
2. Aluminium Cover Sheet
3. <0.1mm Adhesive
4. Honeycomb Aluminium Core
5. <0.1mm Adhesive
6. Aluminium Bottom Sheet
7. Anti-corrosion Coating

## Composition & Size



### STRUCTURE:

- t: Total Thickness
- a1: Thickness of Cover Sheet with PVDF coating
- a2: Thickness of Bottom Sheet with PE coating

Standard Composition & Size			
<b>THICKNESS</b>			
Total Thickness (t)	10mm	20mm	25mm
Aluminium Cover Sheet (a1)	0.7-1.0mm	0.7-1.0mm	0.7-1.0mm
Aluminium Bottom Sheet (a2)	0.5-0.7mm	0.5-0.7mm	0.5-0.7mm
Panel Weight (kg/m <sup>2</sup> )	5.8	6.5	6.8
<b>DIMENSION</b>			
Standard Width	1220mm or 1500mm		
Maximum Length	Maximum length allowed for transportation		
<b>TOLERANCE</b>			
Panel Thickness	± 0.2mm		
Skin Thickness	± 0.0mm		
Width / Length	± 2mm		

Custom composition and sizes are available on request, please reach out to the JRP team.

## Technical Data

Specifications		
<b>DESCRIPTION</b>		
Aluminium Alloy	A3004 (Different Grades Available)	
Aluminium Tensile Strength (MPa)	≥ 185	
Modus of Elasticity (MPa)	70,000	
0.2% Proof Stress (MPa)	≥ 130	
Elongation (%)	≥ 3	
Linear Thermal Expansion	2.4mm/m at 100°C Temperature Difference	
<b>FIRE PERFORMANCE</b>		
Fire Propagation Test (BS 476 Part 6)	Class 'O' Rating	
Surface Spread of Flame (BS 476 Part 7)	Class 'O' Rating	
<b>HONEYCOMB CORE FEATURES</b>		
Cell Size	1/4"	3/8"
Aluminium Alloy	Series 3000	
Foil Thickness (µm)	50 – 70	
Core Density (kg/m <sup>3</sup> )	56 – 80	40 – 54
Compression Strength (MPa)	3.50 – 4.30	1.95 – 2.60
Crush (MPa)	0.90 – 1.65	0.50 – 0.85
<b>ADHESIVE FILM PERFORMANCE</b>		
	<b>ASTM Test Method</b>	<b>Specification</b>
Density (g/cm <sup>3</sup> )	ASTM D-792	0.92
Melt Flow Rate (g/10min)	ASTM D-1238, 190°C/2.16kg	19.5
Elongation as Break (%)	ASTM D-638	450
Tensile Strength (MPa)	ASTM D-638	15.7
Melting Point (°C)	ASTM D-2117	125
Vicat Softening Point (°C)	ASTM D-1525	74

# Together, Creates Future



## ABOUT JRP

JRP, comprising JRP & Associates Pte Ltd and JRP Supplies Pte Ltd (together “JRP”), is a leading regional specialist in metal roofing and aluminium composite panels. Since its establishment in 1999, JRP’s business has grown from strength to strength with projects spanning across Singapore and Asia.

JRP’s visionary statement “Together, Creates Future” refers to its goal to be a partner of progress. JRP earns the trust of its clients through a continuous effort to offer quality products and services, to become the region’s most respected and trusted roofing and cladding specialist in building safe and progressive communities.

JRP’s mission is to deliver quality output that far exceeds the expectations of its clients. This is satisfied through the high level of commitment that JRP gives to its clients – fostering trust among all parties affiliated with JRP, and upholding the integrity ascribed to the JRP’s image.

### Quality Solutions

JRP has a Quality Assurance System of policies and procedures to guide its workflow in a systemic manner. The main objectives of the Quality Assurance System are to ensure compliance with International Standard ISO 9001, ensure compliance with statutory and safety requirements and maintain a level of quality which maximizes customers’ satisfaction.

### Occupational Health & Safety Management

JRP & Associates Pte Ltd was awarded the BizSafe Star status by Singapore Workplace & Health Advisory Committee for delivering excellence in Workplace Safety & Health Management System. This is the result of the Company’s consistent efforts to display effective and excellent workplace safety and health practices, whether it is on or off-site.

BSI has also accredited the Company with OHSAS 18001 Occupational Health & Safety System Certificate, recognizing its efforts in effectively managing occupational health and safety.

### Doing Our Part for the Environment

JRP is committed to conducting its business in accordance with its own environmental policies and all applicable laws and regulations.

JRP strives to conserve natural resources through careful planning, efficient use of resources and minimizing waste through reduction and recycling. JRP commits to handle and dispose waste through safe and environmentally responsible methods and conduct regular environmental assessments to make necessary improvements.



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