

منصة الواجهات الذكية

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R-CO BOND

ALUMINUM COMPOSITE PANELS





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ALUMINUM COMPOSITE PANELS

CREATING FUTURISTIC WORLD

R-CO BOND is a Fire rated Aluminium composite panels consisting of two layers of a aluminium skin

Well established in the market, Vitrabond is recognised by Architects, Builders and Installers as the superior



R-COBOND

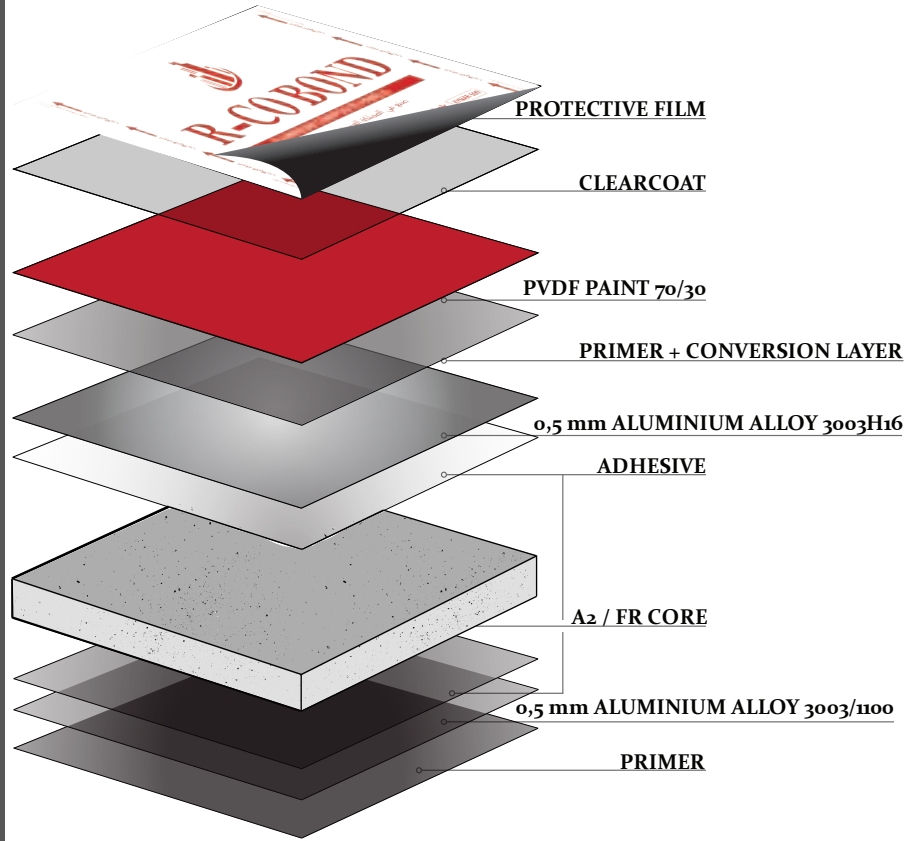
ALUMINIUM COMPOSITE PANELS

PRODUCT COMPOSITES

PRODUCT ADVANTAGES

- FIRE RATING,
- LIGHTWEIGHT,
- WEATHER RESISTANCE combined with high acoustics, Thermal and
- EXTENSIVE CHOICE
- HIGHLY MALLEABLE
- INTERNATIONAL CERTIFICATIONS,

Standards



In three-layer finishes or on request.

PANEL DIMENSIONS

STANDARD WIDTH	1220 / 1250
AVAILABLE WIDTH	1220 / 1250 / 1500 / customized
STANDARD LENGTH	3660 / 5800 / customized
AVAILABLE LENGTH	3660 / 5800 / customized

PANEL TOLERANCE

LENGTH	± 4 mm
WIDTH	± 2 mm

BOW (LENGTH AND OR WIDTH)	≥50 KG/CM (GB/T 17748-2008)
SQUARENESS	≤4mm (1250x3660x4mm)
Impoort stength	As per International Standards

APPLICATIONS

- Interior Cladding
- Building Arches,
- Columns Claddings
- Wall Canopies
- Shops Fronts
- Ceilings
- Doors
- Display panels
- Counter Cladding



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APPLICATIONS



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EXTERIOR CLADDING



CEILINGS



SHOPS FRONT



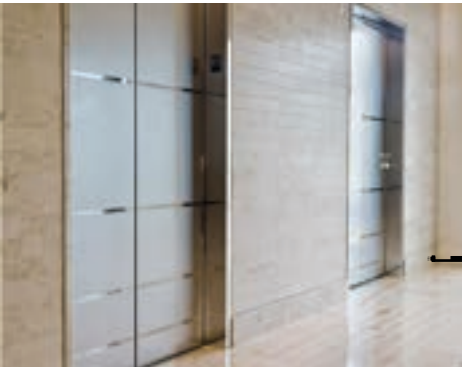
CANOPIES



INTERIOR CLADDING



COLUMN CLADDING



DOORS / LIFTS



BUS STATIONS



PETROL STATIONS



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PROJECTS



ABC Nissan, Phoenix, Arizona, U.S.A



CENTER FOR CIVIL AND HUMAN RIGHTS, U.S.A



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Singapore



Aldar Headquarters, Abu Dhabi



Silicon Arch , Dubai



ADIB Bank,



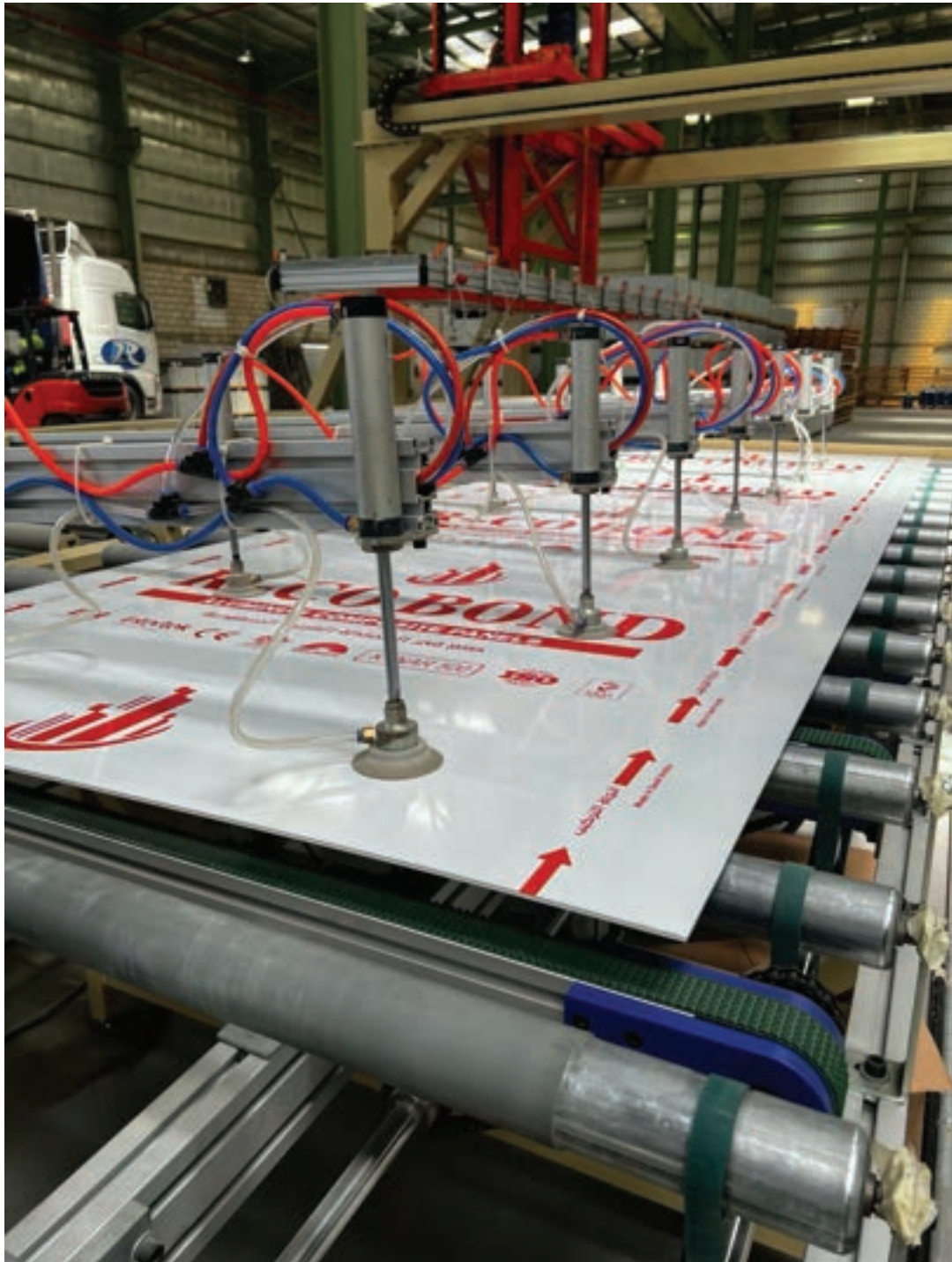
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PRODUCTION

PRODUCTION LINE

Capacity : 500,000 Sq. Mtrs





R-CO BOND PRODUCTION LINE

The ACP Production Line from FIREBOND Holdings is newly designed, which is based on our second-generation technology. Comparing with the last generation, it has advantages as follows: energy saving, easy operating, high pass rate, wide application, convenient maintenance, and etc. It's more capable for producing A2, B1, B2 grade Fire-rated panel. We also can provide Aluminum Pre-treatment Line, Aluminum Single Coating Line, and Aluminum Double Coating Line.





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ALUMINUM COMPOSITE PANELS

TECHNICAL PROPERTIES

PHYSICAL PROPERTIES

Item	Unit	Thickness			Standard
		3 mm	4 mm	6 mm	
Density	g/cm ³	1.53	1.38	1.24	
Weight	kg/m ²	4.51	5.44	7.30	
Thermal Expansion(-20--600)	10-6/°C	22	24	25	ASTM D696
Thermal Conductivity (appearance)	w/m.k		0.15-0.1	9	ASTM C518
Temperature for thermal Deformation	°C		113		ASTM D648
Acoustic Insulation (100-3200HZ)	dB	24	26	27	ASTM E413

MECHANICAL PROPERTIES

Item	Unit	Thickness			Standard
		3 mm	4 mm	6 mm	
Tensile Strength	Mpa	45.2	48.1	38.3	ASTM D638
Yield Strength	Mpa	43.2	44.2	30.5	ASTM D638
Extension Rate	%	13	14	16	ASTM D638
Transverse Modules	X104Mpa	3.1	4.1	2.7	ASTM D638
Impact Resistant (Maximum Loading)	kg	1322	1673	2122	ASTM D732

CHEMICAL PROPERTIES

TEST ITEM	TEST VALUE
Acid Resistance	No Change
Alkaline Resistance	No Change
Oil Resistance	No Change
Solvent Resistance	No Change
Salt Spray	Grade 1
Fire retardant Grade	Grade A

