

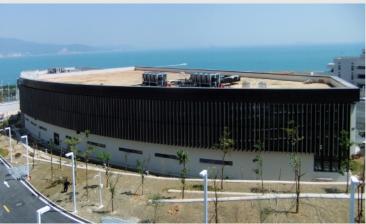




FJ-NAKANOSHIMA Building

ASLOC Finish

Location Kita-ku, Osaka, Japan Louver 60 On-site coating



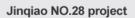


Shenzhen Water gym

ASLOC Finish

Location Shenzhen, China Louver 60 Substrate surface





Jingqiao, Shanghai, China Location Louver 100, AW 26890 ASLOC Finish On-site coating



NOZAWA CORPORATION

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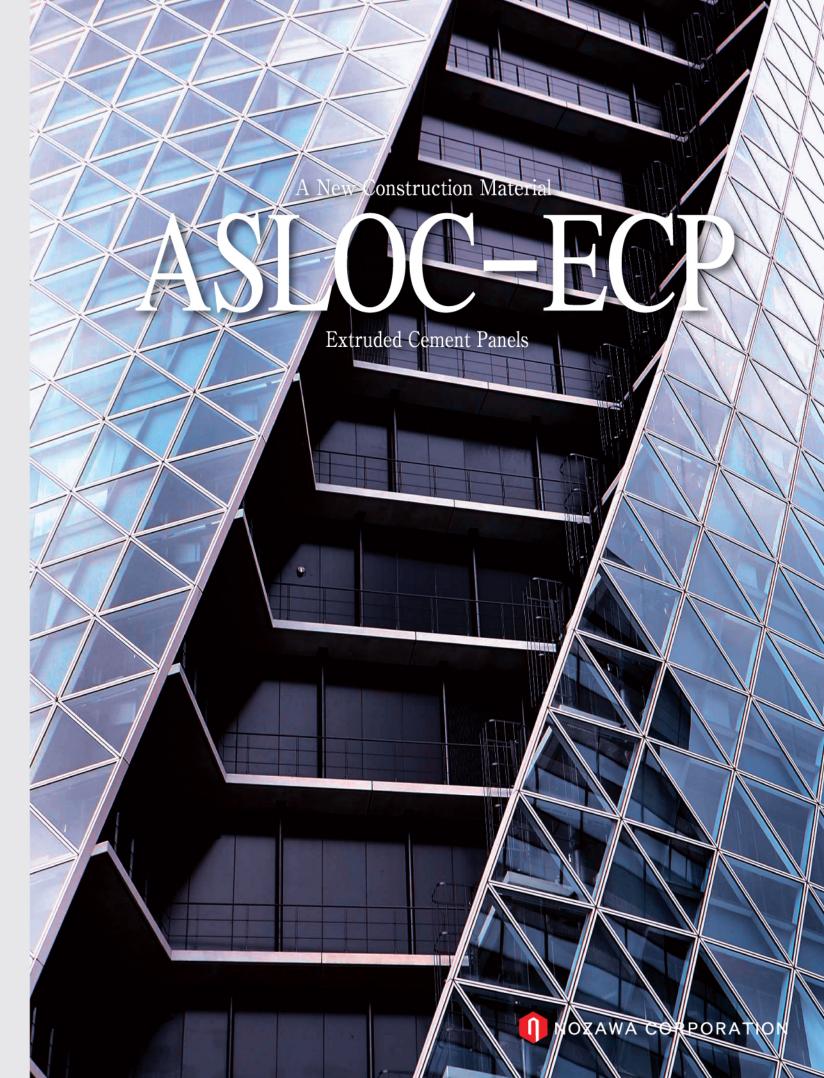
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NOZAWA ASLOC-ECP

- ASLOC-ECP is the general term for NOZAWA's extruded cement panels manufactured under our original system developed through our long experience and research as a leading manufacturer of building materials.
- The revolutionary progress in prefabricated construction technology demands building materials in the form of more complex components instead of as raw materials.
- To meet these demands, NOZAWA has developed automated systems for the manufacture and quality inspection of ASLOC-ECP panels and has engaged in the research and development of advanced uses.

 AL 28
- Since its introduction in 1970, ASLOC-ECP panels have been acclaimed for their excellent resistance against noise, freezing, fire, and earthquakes, and have been adopted for exterior walls and partitions of numerous office buildings, plants, and warehouses throughout Japan. NOZAWA is indeed the leading manufacturer of extruded cement panels in Japan.
- We offer a full range of ASLOC-ECP panels including those finished with tiles or fluoric resin coating as well as those with Lock emboss designs. We also offer ASLOC-ECP panels for external insulation systems along with other application technologies
- We are confident our ASLOC-ECP panels will provide you excellent support in your design efforts.

Features

ASLOC-ECP extruded cement panels provide diverse features required for exterior walls and partitions.

Excellent strength

The excellent strength and rigidity of ASLOC-ECP panels provide a greater support span. This contributes to cost savings since less sub-structural steel is required.

Lightweight

With a hollow cross-section, ASLOC-ECP panels are thin and light which facilitates their application. This feature also enables reduction in the use of foundational and structural materials for high-rise buildings.

Large dimensions

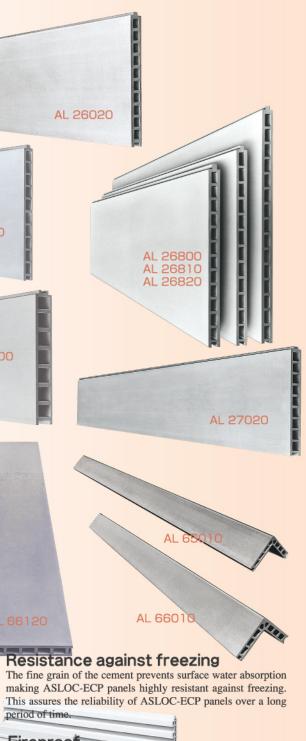
We can produce ASLOC-ECP panels of up to 5 meters long. The standard width of our panels is 600 mm, but the maximum width available is 1200 mm. This allows you to create dynamic wall presentations with fewer joints.

Sound insulation

The hollow cross-section of ASLOC-ECP panels provides stable sound insulation for all sound ranges.

Diverse finishes

We offer diverse finishes. You can acquire a sharp image by applying a plain coating on a monotonous surface, or you can make your choice from a variety of design panels including those with ribs, embosses, or tile application.



Fireproof

AL-COLORE

ASLOC-ECP panels meet all fireproof requirements for external walls and partitions stipulated by the Japanese Building Standard Law.

Earthquake resistance

Standard installment with Z-clips ensures sufficient resistance against displacement of buildings. Their security has been well proved on the occasion of the Great Hanshin Awaji Earthquake.

Great variety and achievements

We offer a great variety of products, and are confident that we have a product that suits the designer's intentions. ASLOC-ECP panels have been adopted in many significant structures throughout Japan.









Physical Features & Performance

	Item		Product thickness	Features & Performance
Weight	Specific gravity of material (when dry)			Approx. 1.9
	Unit weight		50 mm	50 kg/m²
			60 mm	70 kg/m²
Strength	Bending strength			At least 17.6 N/mm²
	Impact strength (Test with 30 kgf sandbag dropped from 2 m above)			No penetration nor cracks were detected after tests
Water	Young's modulus			Approx. 2.5 x 10 ⁴ N/mm2
	Water content			8% or less
	Water absorption			16% or less
	Rate of change due to water absorption			0.07% or less
Heat	Average heat trans	fer coefficient	50 mm	0.42 W/mK
			60 mm	0.47 W/mK
	Average heat transmission coefficient		50 mm	3.69 W/m ³ K
		External wall	60 mm	3.57 W/m ³ K
		Dortitions	50 mm	2.98 W/m²K
		Partitions	60 mm	2.90 W/m³K
Freezing	Freezing and thawing resistance (300 cycle test)			No significant cracks, expansion, nor peeling detected, and mass change was 5 % or less after tests
Corthouseko	Standard longitudinal installation (1/60 displacement tests)			No problems after tests
Earthquake resistance	Standard lateral installation (1/60 displacement tests)			No problems after tests
Sound	(1,700 0.00)	125 Hz		31 dB
insulation		250 Hz		32 dB
		500 Hz		32 dB
		1000 Hz		36 dB
		2000 Hz		44 dB
		4000 Hz		51 dB
	125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz			33 dB
			60 mm	33 dB
				33 dB
				39 dB
				48 dB
		4000 Hz		53 dB



Allowance

	At shipment
Length	0, -2 mm
Width	0, −2 mm
Total thickness	±1.5 mm

Something new everyday!— 2

Major Products

Flat Panels

Flat ASLOC-ECP panels have flat and smooth surfaces.

With the standard thickness at 60 mm, we also offer types that are 50 mm, 75 mm, and 100 mm thick. The standard width of our flat panels is 600 mm, and we also offer types with widths of 450 mm and 500 mm for adjusting purposes.

The maximum length for all types is 5 meters. However, you should determine the maximum length you require by calculating the allowable support span from the design load of your building.

Features

- •Flat ASLOC-ECP panels provide excellent resistance against fire, earthquakes, and noise despite their thinness and lightness.
- •You can obtain a distinct texture by using the substrate surface of our flat panels, or you can acquire a sharp-looking wall surface by adding a plain coating.

Design Panels

We also offer ASLOC-ECP panels with rib and emboss designs on the surface.

Emboss Panels

Lock Emboss Panels

In our Lock Emboss panels, we have succeeded in processing random designs to our ASLOC-ECP extruded cement panels.

Our Basic Series have been well received since their introduction in 1994.

Projects

Shenzhen Guesthouse

Location **ASLOC** Finish

Shenzhen, China AW 26890, AL 47110 Substrate surface



LOCK EMBOSS Surface Impressions

REF-FLAP 5



REF-FLAP 10



REF-FLAP COMBI







Rib Panels

AL48010

This panel is perfect for dynamic presentations on broad walls.

AL46040

The ribs on this panel give a gentler impression. It can present a soft flow of lines on extensive commercial structures.

AL47040

This panel provides ribs of a size between the above two types. We offer many other types that present impression you desire.

AL48010 AL47040 AL46040

Coated Panels

Finished with high performance paints at our exclusive plant equipped with the latest automatic coating systems, our coated ASLOC-ECP panels are of superb quality.

COLORFLON

Panels finished with low pollutant fluoric resin paint

Our COLORFLON Panels are coated and baked with low pollutant fluoric resin solid color paint. They have remarkably longer durability and sustainability, and more resistance against atmosphere corrosion than regular coating.

They also provide outstanding resistance against water and alkaline, and especially against freezing and thawing.

COLORLEAD

Panels finished with acrylic urethane resin paint

COLORLEAD Panels are coated and baked with acrylic urethane resin paint. Acrylic urethane paint offers more gloss, abrasion resistance, and atmosphere corrosion resistance than plain acrylic resin paints. They offer sufficient corrosion resistance for general purposes.

COLORFLON METALLIC

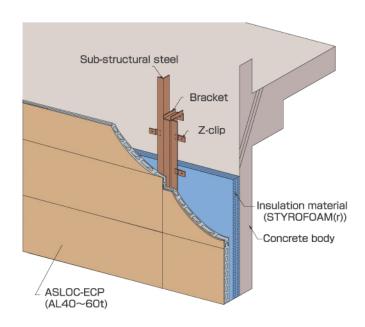
Panels finished with low pollutant fluoric resin paint

We also offer COLORFLON METALLIC Panels coated and baked with low pollutant fluoric resin metallic paint. The robots in our fully automated coating line apply paint evenly onto the panels according to precise programs producing gorgeous metallic panels with a fair finish required for extensive walls.



3 —Something new everyday! Something new everyday! - 4

The ASLOC-ECP External Insulation System



[Example] Method: Post application method using Z-clips

The ASLOC-ECP External Insulation System is a covering method that provides external insulation for concrete reinforced buildings. A thermal layer with excellent durability is formed surrounding the external wallusing ASLOC-ECP and insulation material (Styrofoam®).

Deterioration of the concrete body is also prevented since this layer protects it from fluctuations in the temperature.

Features

The external insulation system features the adoption of insulation material surrounding the entire concrete body so that the large heat capacity of the building serves to optimize the thermal atmosphere

- It prevents heat stress from sunlight onto the concrete.
- A pleasant room temperature is maintained since the outside temperature changes are not directly reflected into the building.
- It alleviates local cooling inside a building.
- Dew formation can be prevented since the lowest temperature inside the building is higher than buildings with internal insulation systems.

Insulation Material Used

Insulation material: STYROFOAM EK® (extruded polystyrene) STYROFOAM is a registered trademark of the Dow Chemical Company.

Item	Thickness	Size	Density
Standard	At least 25 mm	910 mm x 1820 mm	0.035 g/cm ³

Projects



MIRI Sgure

Location	Saitama, Japan
ASLOC	AL 47040, AL 4715
	AL 26022V3
Finish	On-site coating



Project







KRP-9

ASLOC

Location Kyoto, Japan AL 48010, AL 47040, AL 47110, AL 47150, AL 26022V3, AL 26020

On-site coating

Finish

Project

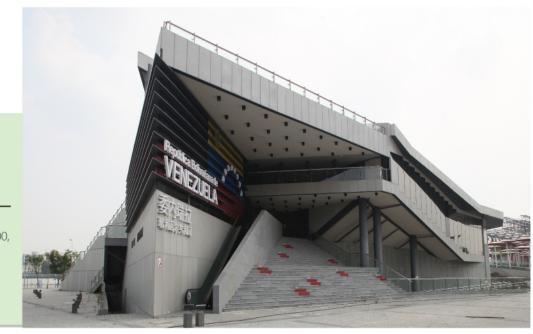
Shanghai Expo VENEZUELA Pavilion

ASLOC

Location Shanghai, China AW 25890, AL 25000,

Finish

AL 27070EO Substrate surface



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