

# ARCIS

Ideal for use as a cavity wall system, sealed exterior façade or accent panel, ARCIS rainscreens achieve the architectural look and durability of traditional precast concrete without the extra weight or sacrifice of design performance.

Product finishes and colors match high-end architectural precast applications of sand blast, acid etch and polishing. Each concrete mix design is specially formulated for the project's specifications, with strengths in excess of 5,000 psi.

ARCIS panels are manufactured from high performance concrete mixes and stainless steel prestressing cables. Panels range from 0.75 inches (19mm) to 2 inches (51mm), depending on application, and have final installed weights of 9.4 psf to 25 psf. (46 kg/m<sup>2</sup> to 122 kg/m<sup>2</sup>). Thicker panel designs are also possible with varying size.

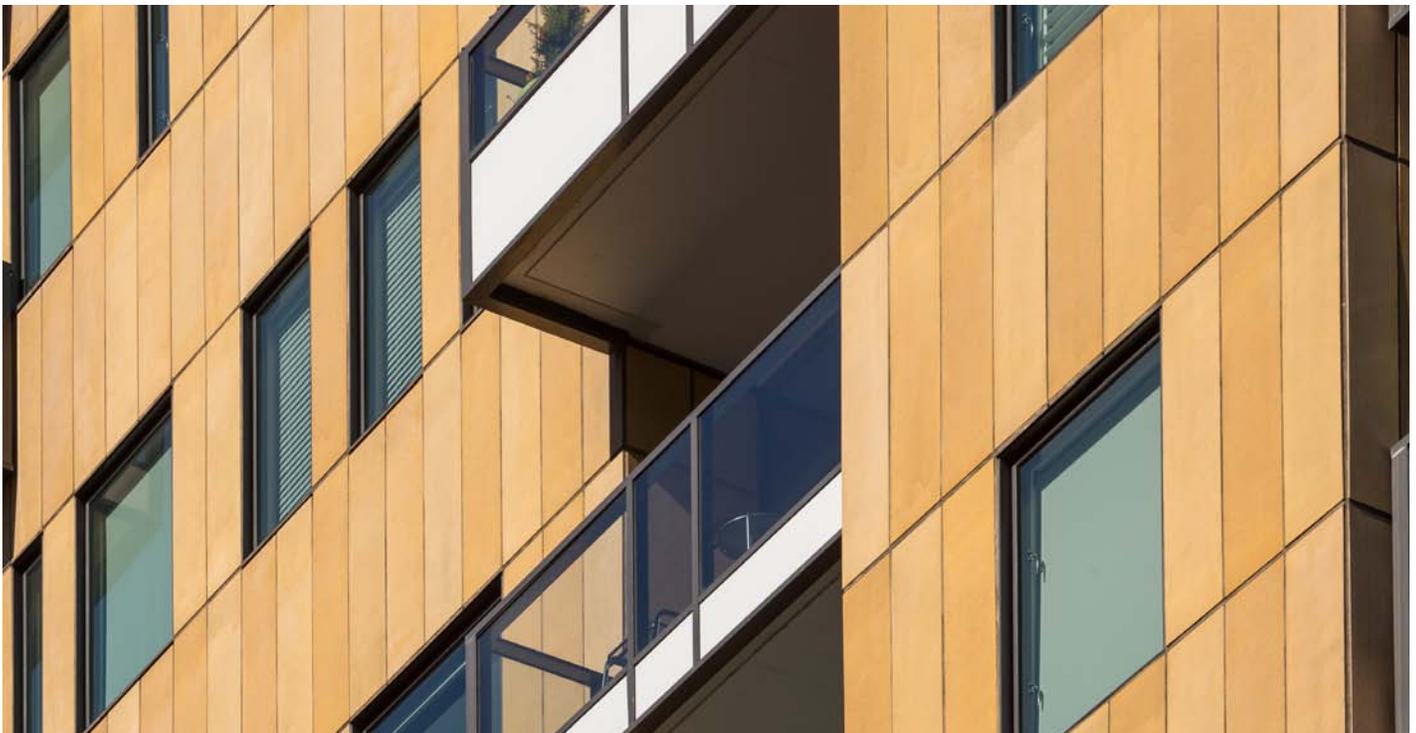
## The versatility and durability of precast concrete in a remarkably lightweight rainscreen system

### Breakthrough technology provides multiple benefits

**Lightweight:** Thinner, lower-weight panels mean a lower-cost superstructure, smaller and less expensive cranes or lifts for installation, reduced shipping expenses and more usable space.

**Versatile:** The modular configuration of ARCIS panels allows for amazing flexibility. Remove a panel to add a door. Cut in a window or access opening. Add penetrations and cut holes in the field with conventional tools. Replace a panel if needed. Few enclosure systems can offer this inherent flexibility and capability.

**Resilient:** Stainless steel prestressing eliminates the possibility of corrosion. High-performance concrete provides strengths in excess of 5,000 psi (35 MPa). Durable ARCIS panels will withstand everyday punishment and the test of time, plus offer the fire resistance benefits of non-combustible concrete.



## RAINSCREEN FACADE PANEL

### The versatility and durability of precast concrete in a rainscreen system continued

**Aesthetic versatility:** ARCIS panels are custom manufactured with exacting details following ASTM, PCI MNL 117 and more exacting specifications. Popular precast finishes such as sand-blasting, acid etching and polishing are possible. Reveals, insets and colors can be provided as well as form liners and pigmented concrete with an array of aggregates. Specify Graphic Concrete—exclusively available through AltusGroup precasters—to impart a durable, iconic pattern or image to the panel face.

### Simple to design and attach

Panel size is governed by the attachment system, the panel thickness and the installer's method of handling the panels. The panels span vertically between J clips. For most high-rise applications, wind loading controls the design. 1" (25mm) thick

panels can span between clips approximately 60" (152cm) with a 35 psf wind load. 1½" (31mm) panels can span 80" (203cm) with a 30 psf (1.4 kPa) wind load.

ARCIS panels typically attach to the structure using a J-Channel and metal clips bolted to the back of the panel. The lightweight panel allows for installation via tower crane, at nearly any radius, or light weight mobile equipment. In some instances, they can be delivered and installed through the windows. This method of attachment, along with pre-engineered pieces, allows for a fast, simple installation.

Additional girt and fastening systems are available depending on code and regional requirements.



*Top:* Stainless steel prestressing enables thin, durable lightweight panels. *Left:* Stainless steel connectors permit fast installation on building exteriors. *Right:* A number of lightweight ARCIS panels can be shipped on the same truck to reduce transportation costs. *Far right:* Rainscreen panels can be installed with a minimal crew and a small crane or lift.

# ARCIS

Visit [arcispanel.com](http://arcispanel.com) or call 888-GO-ALTUS for technical data, specifications, and a list of licensed precasters.

**altus**group®

Precast innovation powered by collaboration