

# ARCHITECTURAL PRECAST BUILDING ENCLOSURE & CLADDING DESIGN CONSIDERATIONS

Precast concrete offers the versatility, resiliency, and efficiency to meet your project's façade and building enclosure requirements. Use the items in this checklist to keep track of important considerations for projects that require precast building enclosure and cladding design.

## 1 AESTHETICS & PANEL DESIGN

- Color, texture, and design drivers
- Finish, form liner, and mix preferences
- Brick, tile, granite, terra cotta, or other embedded material type
- Size of panels for repeatability and optimization
- Glazing integration
- Panel or wall shape
- Panel finish on the interior (finished vs. exposed)
- Surrounding architecture and other influences
- Joints between panels and materials (visual interest and design)
- Special features (cornices, logos, etc.)

## 2 PERFORMANCE

- Panel type (solid, sandwich wall panels, and thin-shell)
- Load or non-load bearing
- Overall panel thickness
- Desired minimum R-value (sandwich and insulated wall panels)
- Insulation type
- Joint connections
- Producer preferences

### 3 PANEL ATTACHMENT

- Framing system (steel or CIP)
- Floor-to-ceiling height requirements (total precast and precast flooring systems)
- Floor load requirements
  - Load bearing
    - To columns
    - To floor slabs
    - Combined
  - Non-load bearing

### 4 LOGISTICS

- Site location
- Site access
- Site grade
- Crane type
- Crane placement

## LEARN MORE

Discover how other innovative industry professionals rely on the wide design freedom of precast concrete to support projects. [See how precast builds architectural elements.](#)

## HAVE QUESTIONS?

Take advantage of everything the PCI Mid-Atlantic Chapter has to offer its members. Get in touch with the PCI Mid-Atlantic Chapter coordinators and tap into the knowledge of fellow precasters for answers to your architectural project questions.

#### MID-ATLANTIC CHAPTER

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