

Span Notes



No. 16

Wall panel openings are easily achieved with *Spancrete*®

With the growing need for versatility and efficiency on the construction site, *Spancrete*® wall panels allow the client to make modifications as required to suit architectural needs.

Openings such as windows and doorways are easily achieved with wall mounted cutting equipment, which eliminates overcuts and subsequent patching.

The following items should be considered during the design for wall panel openings:

- Pre-planning openings in conjunction with the wall panel layout will minimize saw cutting and structural frame expenses.
- Pre-planning allows production to provide a solid, smooth surface around the perimeters of windows and doors by filling the cores in the wall panels.
- Field cutting allows for maximum structural integrity of panels for stripping, shipping, and erection.
- Smaller openings such as windows and doors which are less than half the width of panels can be located virtually anywhere and can be saw cut on site.
- Standard 8'-wide openings are often achieved by the use of rigid connections of panel sections above observed opening areas.
- Larger openings such as overhead doors can be achieved by providing a structural steel frame of a simple precast column and beam system at the perimeter, which can support the wall panels above.
- All steel frame components and joint connections are typically supplied and installed by the *Spancrete* wall panel producer.
- Perimeters of cuts are filled or patched in order to achieve a smooth consistent surface.
- Design details are available from your local *Spancrete* wall panel producer.



Wall Mount Saw Cutting or Core Drilling

- Common for openings up to 4' 0" wide.
- Ideal for windows, doors, and mechanical openings.
- Locations can be finalized and adjusted after erection of the *Spancrete*® wall panels.
- The *Spancrete* wall panels are designed to accommodate the openings.



Steel Bent Plate and Tube Steel Door Frames

- Used for larger openings.
- Provides a steel surface on all three sides of the opening.
- All steel frame components are typically supplied and installed by the *Spancrete* wall panel producer.
- Design details are available from your local *Spancrete* wall panel producer.



Precast Column and Beam Frames

- Ability for components to be fire rated.
- Provides a concrete surface on all three sides of the opening.
- All concrete frame components are typically supplied and installed by the *Spancrete* wall panel producer.
- Design details are available from your local *Spancrete* wall panel producer.



Individual Wall Panel Joint Connectors

- Used to hang one wall panel (up to 8 feet wide) to create an opening below.
- A minimum of four connections should be used at each hung panel.
- Square panel edges can be provided on the two vertical sides of the opening.
- Connection can be designed to allow lateral movement.
- All connection hardware is supplied and installed by the *Spancrete* wall panel producer.
- Design details are available from your local *Spancrete* wall panel producer.



