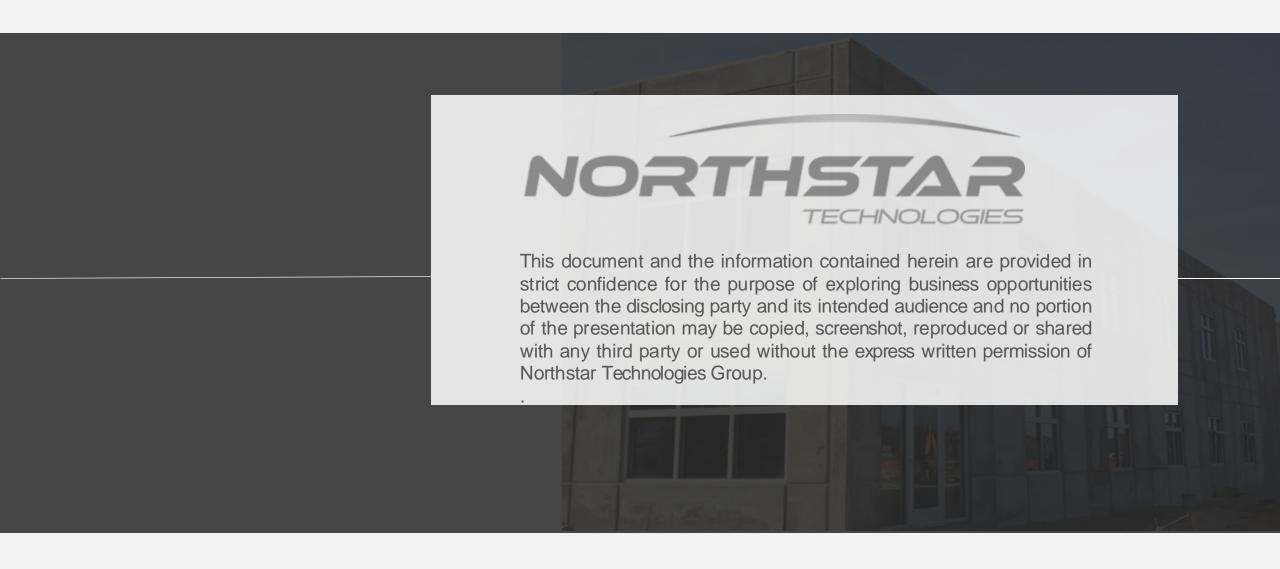


Can a building envelope be engineered to be 2" thick with a 250-mph impact rating?

Absolutely

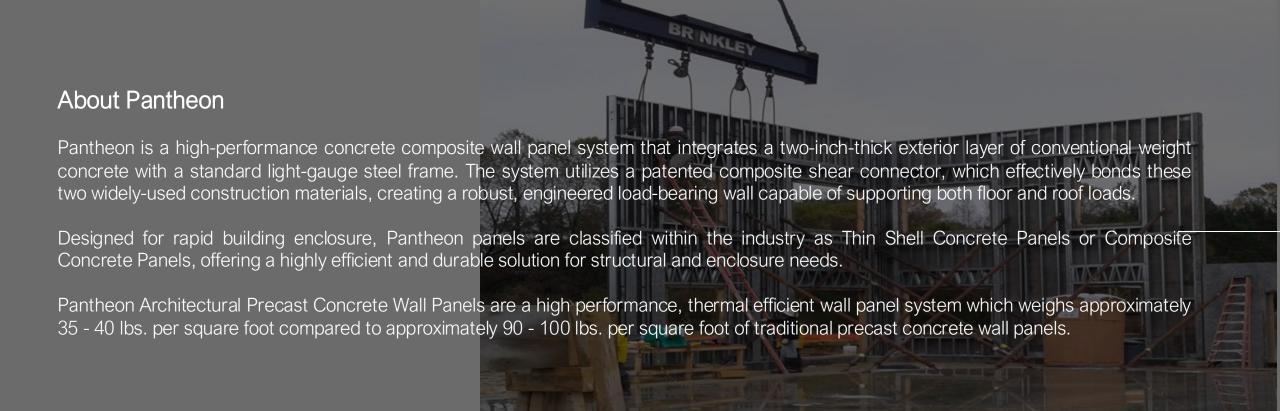






About







CSI Master Format Numbers and Titles

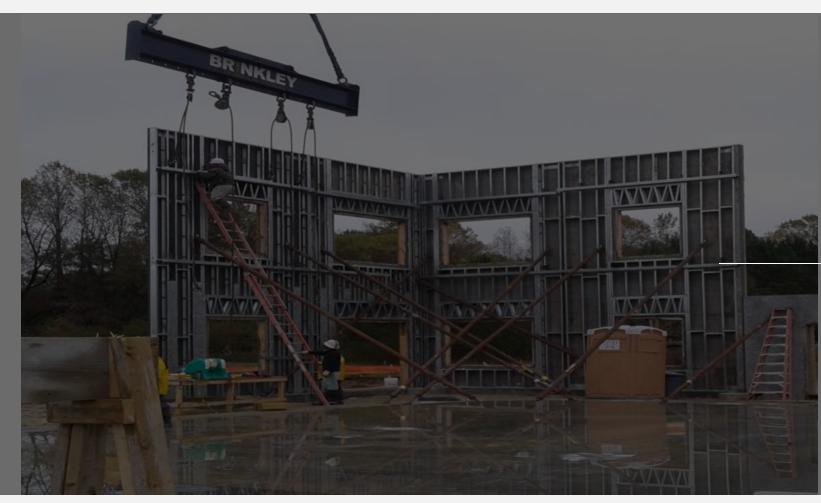
Precast Architectural Concrete 03 45 00

Precast Concrete Parking Bumpers 03 48 33

Site-Cast Concrete 03 47 00

Wall Panels 07 42 00

Composite Wall Panels 07 42 43





When to use Pantheon

Pantheon walls can be engineered either as cladding panels or as load-bearing shear walls, making them suitable for a wide range of applications, including office buildings, schools, malls, hospitals, and other commercial structures. When used as cladding, Pantheon panels provide an ideal solution for enclosing pre-engineered structures, as well as mid-rise or high-rise buildings with concrete frame or structural steel superstructures.

STATE OF THE STATE

The Pantheon system features a durable concrete exterior surface coupled with integrated steel studs on the interior, enabling rapid enclosure of any building type. This configuration not only enhances construction speed but also provides built-in cavities for utilities, insulation, and drywall, offering both functional and architectural advantages. The versatility of Pantheon panels ensures they can meet diverse structural and design requirements, delivering performance, efficiency, and ease of installation across various building types.



Why use Pantheon

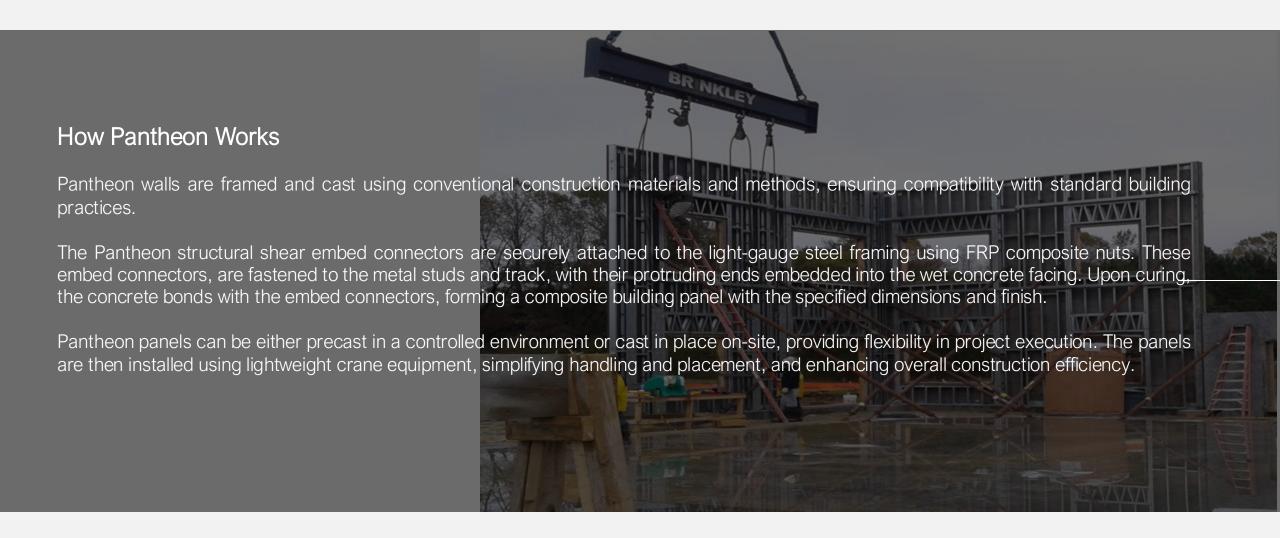
Pantheon panels are significantly lighter than conventional precast concrete, offering substantial benefits in the design and construction of mid-rise and high-rise projects. When utilizing steel or concrete as the structural frame, Pantheon panels can reduce the dead load of the exterior skin, resulting in potential savings on the superstructure, footing, and foundation costs.

While conventional precast panels typically weigh 90 to 100 lbs. per square foot, Pantheon panels weigh only 35 to 40 lbs. per square foot. Despite their lighter weight, Pantheon panels maintain the same architectural aesthetics as traditional precast and eliminate the need for additional furring to accommodate interior finishes, as the steel study are integral to the Pantheon panel system.

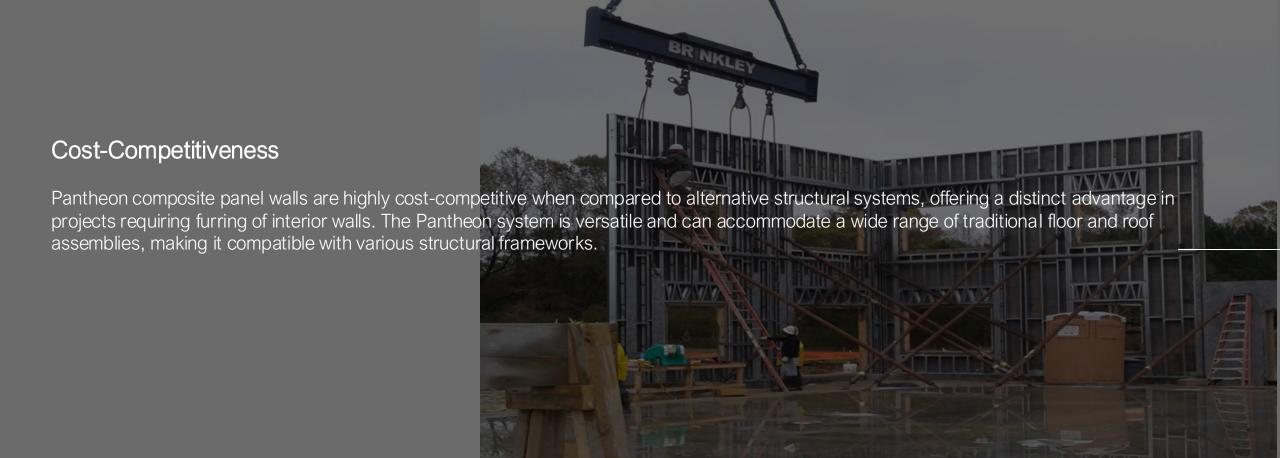
The reduced weight of Pantheon panels also allows for the fabrication of larger panels, covering more area per unit, which translates into fewer panels to manufacture, ship, and erect. This efficiency not only reduces material and labor costs but also enhances overall project timelines.

As a result, Pantheon panels offer significant cost savings for design-build teams, architects, developers, and ultimately, building owners, through streamlined production and installation processes.











Pantheon Thinshell Embed Advantage

Our Pantheon patented embed connector is made from high-strength glass-fiber-reinforced-polymer composites. Pantheon embed connectors are optimized for bonding with concrete while providing high shear strength.

Pantheon vs. Competitors

Pantheon is the only 100% zero thermal transfer thinshell wall panel system in the industry.

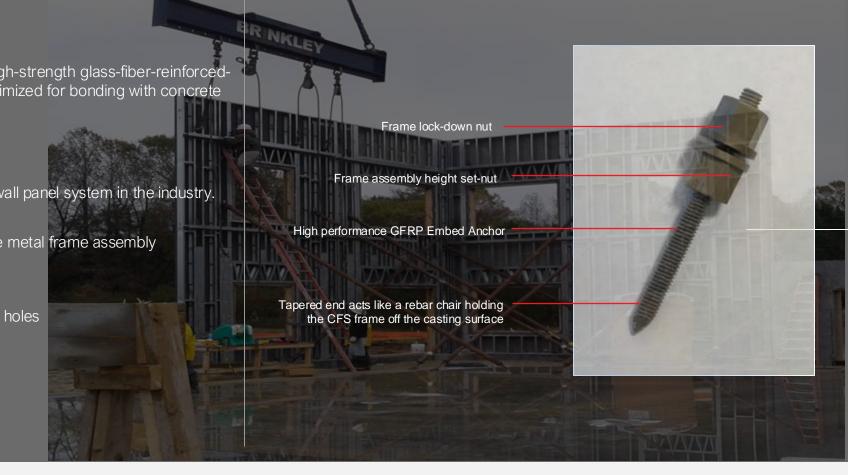
Reduces labor costs by eliminating the need to support the metal frame assembly

Precision frame heights for consistent thermal gaps

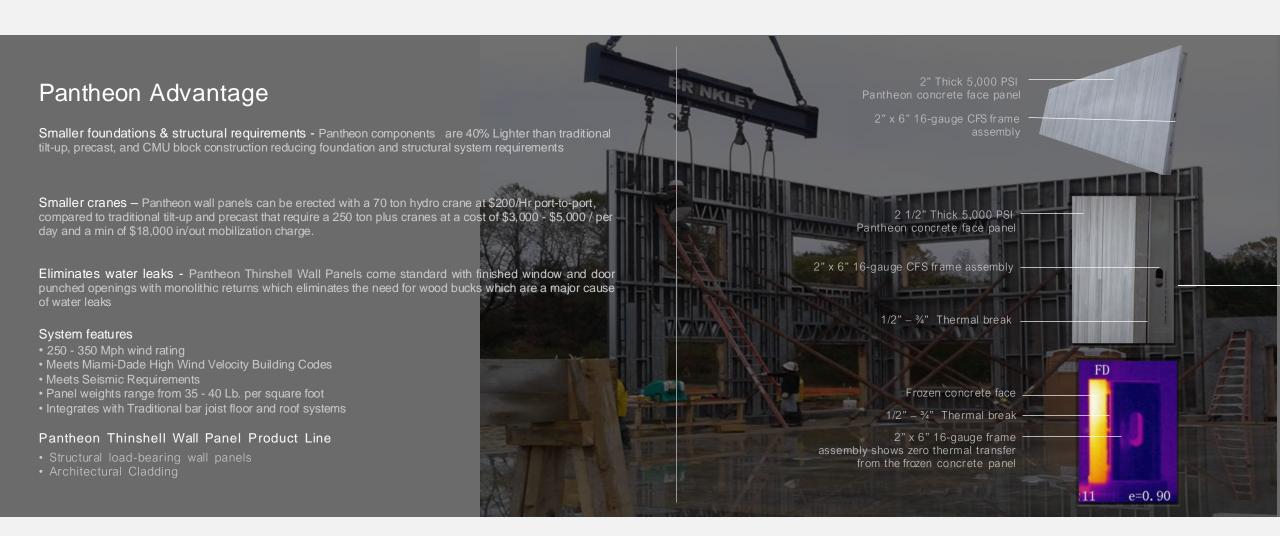
Pantheon CFS frames are manufactured with pre-punched holes

Superior concrete bonding the entire length of the embed

Average peak Tensile strength of 2,270 per embed







Embed Testing



Pantheon Embed Connector Pull-out Test



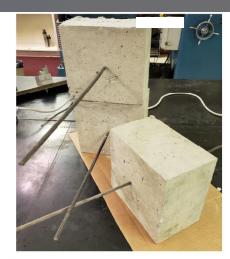
Figure 1: Test Setup



Table 1: Test Data



Figure 3: Typical Failure Mode



RESULTS SUMMARY:

Double Nut Max Pull-Out Strength in Concrete	Average	2,270 lbs	
	Std. Deviation	80 lbs	

Projects





Reflections Dermatology



U.S. Southern Command SOUTHCOM



Group President Electronics



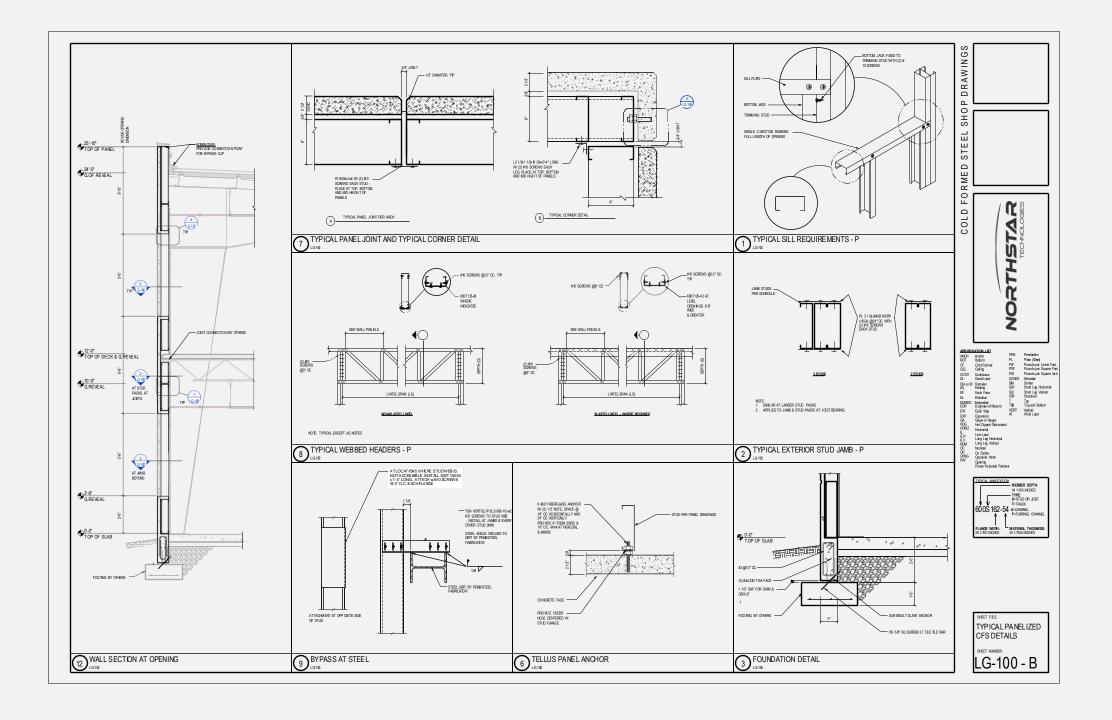


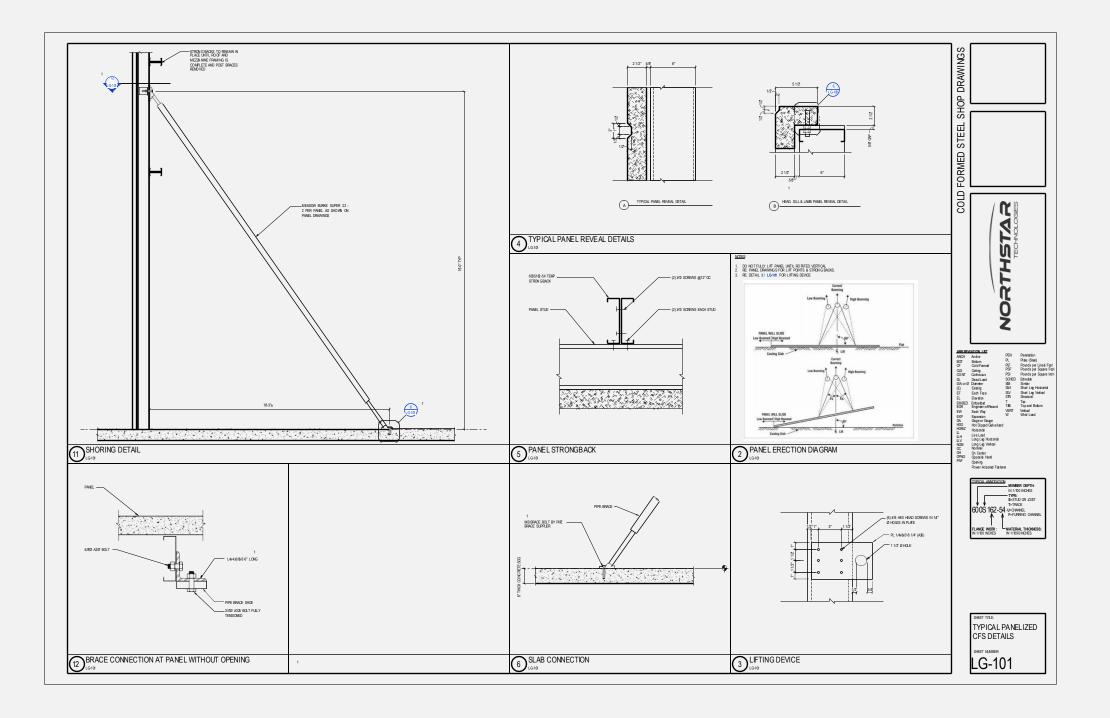


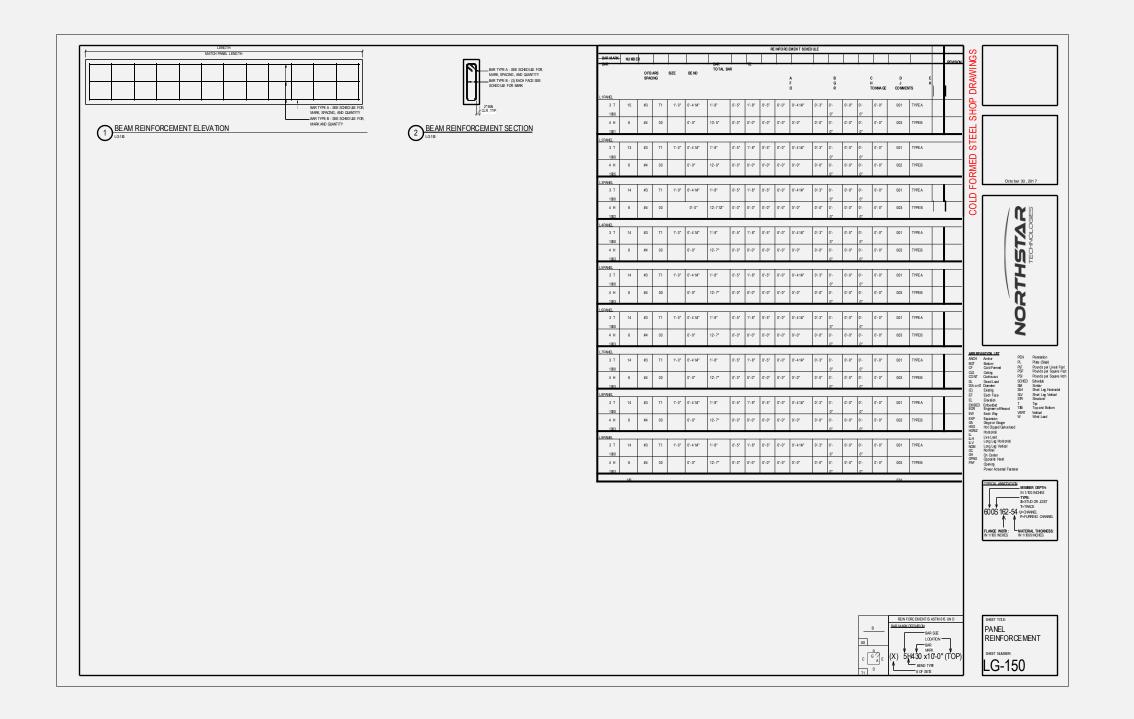


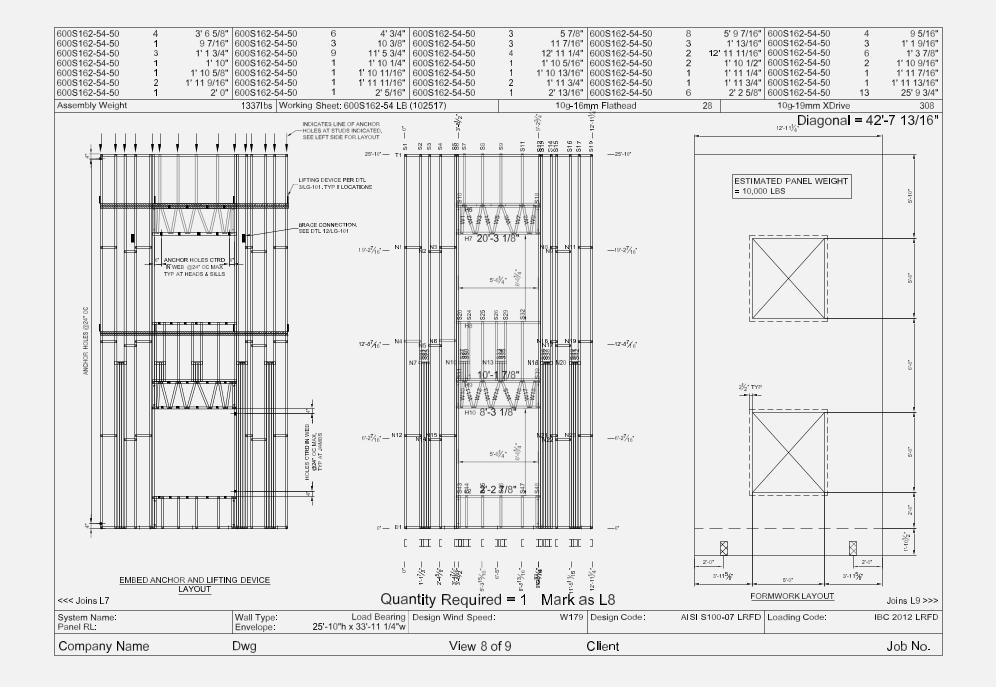
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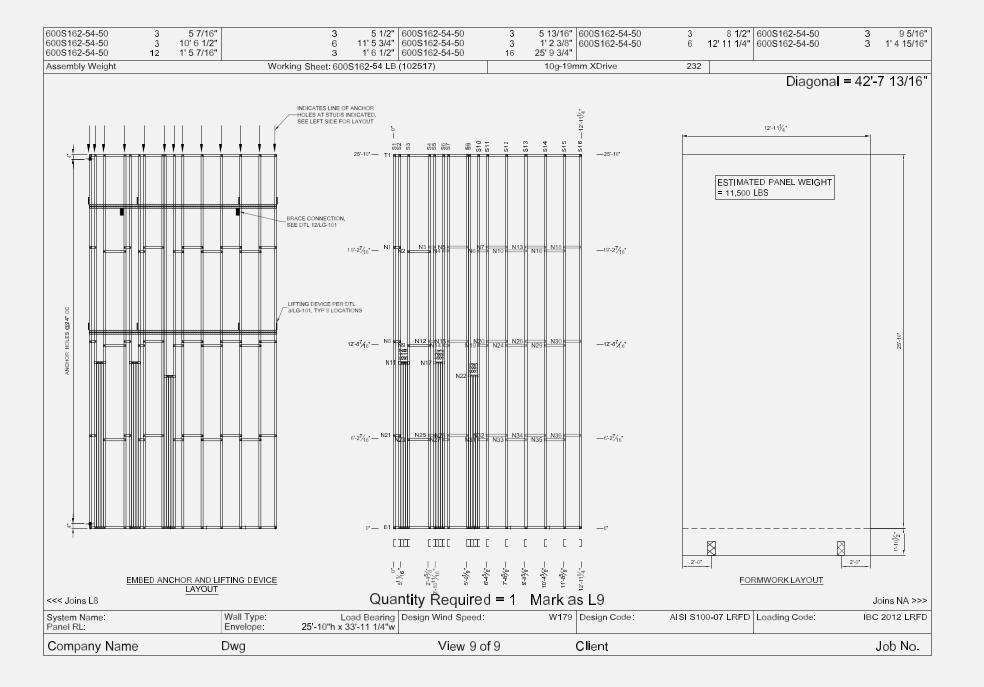
Typical Details













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