



FLORIDA PRECAST INDUSTRIES INC

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Since 1960, Spancrete Research And Testing Has Helped Design

Communities Around The World

Spancrete Manufacturers Association (SMA) has been conducting the most extensive research and testing in the entire hollowcore industry. Over a billion sq feet of Spancrete hollowcore has been produced because of these methods.

To read more about the Research and Testing practices and currently stides, visit [SMA Resources](#).



Seasons Greetings from FPI!

What's on your holiday wish list?

In an effort to remain the best quality provider of precast products with superior customer service - we are dedicated to you! Is there anything FPI can do to better serve you?

Any information we can provide in this newsletter that you would be interested in hearing about?

We are excited by all the feedback received thus far and appreciate you helping us tailor this newsletter to your needs. Let us know what you would like to see in future newsletters and we will deliver. I look forward to hearing from you soon - kristins@floridaprecastind.com

FPI wishes you and yours a safe and happy holiday season!

Kristin Szymczak
General Manager

Advantages of Spancrete® Hollowcore from FPI Using Embedded Weld Plates

One of the major advantages of using Spancrete Hollowcore products is our capability to cast embedded weld plates into the planks. The weld plates can be either cast into the bottom or top of the planks and provides a positive mechanical connection between the plank and any structural steel bearing or bracing condition. It is ideal for floor framing systems bearing on steel "I" beam flanges and structural angles, such as in a "tilt-wall" perimeter bearing condition. This eliminates the requirement for welded Nelson studs on the top flange of beams and "flag" plates being attached to the beams or angles. It also eliminates the parallel rebar that is tied to the Nelson studs and the hooked bars that are grouted into the slab keyways. However, this does not eliminate the need for transverse reinforcing across the beams for monolithic diaphragm capacities.

There are two different types of bottom weld plates that can be used in Spancrete planks. One is a "C" shaped stud anchor welded to the plate in a 2 stud or 4 stud configurations, which is crimped to one of the bottom prestressing strands at a predetermined location. [See Research Note # 1012](#) The weld plate sizes can vary depending upon the pull out capacities, and thicknesses range from 3/16" to 1/4". The second type of weld plates are those with wire loops attached to a structural tee, channel, or combination of a tee and flat plate assembly. [See Research Note #1013](#)

We also have the capability of placing weld plates in the top of Spancrete planks, however, the attachment method is somewhat different from above. The top flange of the plank over a core is cut out or removed and a weld plate with two Nelson studs attached is grouted into the solid core. [See Research Note # 1014](#)

All three types of weld plate attachments have been thoroughly tested for vertical pull out and for horizontal shear capacities. The summary results of these tests are shown in charts for each type weld plate on the aforementioned Research Notes and are rated in KIPS.

If you think your project would benefit from the use of weld plates in our Spancrete planks, please consult with our Sales or Engineering staff who would be happy to assist in the design process.

Quick Links



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A SUBSIDIARY OF SPANCRETE