

Hollowcore 101



Oldcastle Precast®
Building Systems

Successful Installation of your FOB Hollowcore Project

If you plan to receive the hollowcore plank FOB to your job site instead of having Oldcastle Precast Building Systems install it, be aware of two important points:

You are accepting full responsibility for installing the plank properly, including all of the work that would normally be handled by Oldcastle.

Oldcastle Precast will not be responsible for any problems or damage which result from incorrect procedures once the material is delivered to the job site.

Now that you have decided to erect hollowcore plank make sure you use the right tools and follow the correct procedures. Most important of all, work safely around the job site.

To erect hollowcore plank with a minimum of delays and problems follow the suggestions and instructions provided here. Additional help is available from Oldcastle Precast.

Common Practice: Installation

Whether you know it or not, floors are the

key element when it comes to architectural freedom and design: their load bearing capacity has a direct influence on the need for partition walls and other structural elements of a building. Hollowcore slabs are prestressed floor elements with voids. The excellent load-bearing capacity and structural efficiency allows you to build large areas with fewer partition walls. Ultimately, this means greater freedom in design and architecture during and after construction as well as savings in material costs.

See our web site for additional topics on hollowcore plank: camber, toppings, finished floor systems, openings, installation and more.

Locations:

Oldcastle Precast
Building Systems
123 County Route 101
Selkirk, NY 12158
800-523-9144

Oldcastle Precast
Building Systems
1401 Trimble Road
Edgewood, MD 21040
800-523-9144
oldcastlesystems.com



Prior to scheduling delivery review the approved shop drawings and become familiar with all the details. Coordinate delivery times with Oldcastle Precast in advance.

Check the plank weight and determine the crane size required. Make sure access is available for the crane and trucks.

Determine if the proper equipment is available for erecting the plank. Have all erecting equipment sized by a rigger.

Check the building dimensions and layout the job. Become familiar with tolerances and camber. Make sure all bearing supports are in place.

Review the load lists and shipping sequence with Oldcastle Precast.

Be sure that personnel supervising and performing the erection are qualified. Insist on safe working conditions and safe procedures at all times. Erect all materials strictly in accordance with the shop drawings.



Get to know more about Installing Hollowcore Plank

Installation

Hollowcore plank must be shipped, handled and lifted properly to ensure good results.



Handling and Setting Hollowcore Plank

Make sure dunnage and pickup points line up when plank are being shipped or stacked.

Lift and place plank directly off the truck to avoid unnecessary handling or stockpiling. Plank is delivered with the right side up. Always handle it with this side up.

Make sure slings are located no more than 12-inches from the ends when lifting plank. Never lift hollowcore plank from the middle with a single sling!

Never cantilever or overhang plank unless it has been designed for such an application.

Minimum bearing is shown on the approved shop drawings. Place bearing strips in accordance with the shop drawings.

Set each plank as close as possible to its final position, allowing just enough room to remove the slings. After removing slings, skid the plank in final position against the adjacent one.

Split or saw plank to obtain special widths as shown on the shop drawings.

Be sure that the slabs are set squarely. Make connections carefully. Bend or place bars and/or weld per the shop drawings and construction documents.



Get to know more about **Grouting Hollowcore Plank**

Grout keyways and cure before applying heavy loads including construction equipment.

Leveling and Grouting Hollowcore Plank

Prior to grouting the keyways, any variations between adjacent slabs should be reasonably leveled out by jacking, loading or other feasible methods in accordance with recommendations provided by Oldcastle Precast Building Systems.

Clear debris from keyways. Wet down the keyways prior to grouting to insure a good bond. This is especially important in hot weather.

Place grout in keyways using a 3:1 mixture of three parts sand to one part cement. Grout should be wet enough to flow easily to assure complete filling of keyways.

Clean the underside of the plank to remove any grout that might have seeped through if necessary.

Make sure grout has cured prior to placing heavy loads on the plank surface. (Construction materials, etc.)

Your hollowcore planks are designed to support the applied loads with the size and location of the openings that are shown on the shop drawings. Do not cut openings that are not shown.

If necessary, obtain written permission of the Oldcastle Precast engineer before core drilling additional openings that are not shown on the approved shop drawings.

Openings should not be cut until the joints are grouted and the grout has achieved 85% of its design strength (the design strength of grout is typically 3,000 psi).

When concrete topping is required, the plank must be grouted first. The hollowcore deck surface must be clean and thoroughly damp with no standing water, unless otherwise specified. Clean the hollowcore surface of all laitance.

See the Oldcastle Precast Building Systems Technical Guide for Hollowcore Plank for additional information.

The information contained in this literature is for general information purposes only. The information is provided by Oldcastle Precast as a courtesy only. While we endeavor to keep the information up to date and correct, we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information, products, services, or related graphics contained in this literature for any purpose. Any reliance you place on such information is therefore strictly at your own risk. In no event will we be liable for any loss or damage including without limitation, indirect or consequential loss or damage, injury or illness, or any loss or damage whatsoever arising from loss of profits arising out of, or in connection with, the use of this literature.