

Hollowcore 101



Oldcastle Precast®
Building Systems

16" hollowcore plank has higher load carrying capacity

Oldcastle Precast Building Systems manufactures 16-inch deep plank for higher load capacity and maximum design freedom.

Fewer columns and fewer partition walls translates to more usable or rentable space for all applications.

In addition to 6-, 8-, 10- and 12-inch thick sections, Oldcastle Precast has the capability to produce 16-inch plank in two separate manufacturing facilities. Like the smaller cross sections (6-, 8-, 10- and 12-inches), 16-inch deep hollowcore plank is a durable and fire

safe design feature of your floor and roof system.

Sixteen-inch plank can provide a flat ceiling alternative with a smooth underside in a more shallow structural dimension than a precast concrete double tee. This can maximize your floor to floor usable space.

Run the numbers and estimate your next project utilizing Oldcastle Precast hollowcore plank. The savings in time and money will keep your project on schedule and under budget.

Common Practice: 16-inch plank

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.

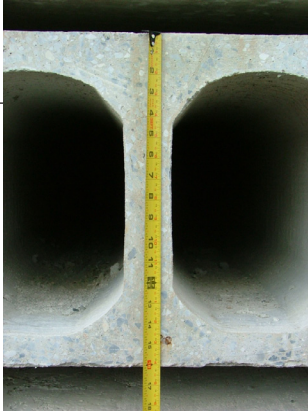
Locations:

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



No interior bearing support columns or walls are needed, providing greater design flexibility. The relatively thin cross section is helpful when the local code dictates a maximum height restriction.



Get to know more about
longer spans

Why Specify 16-inch plank?

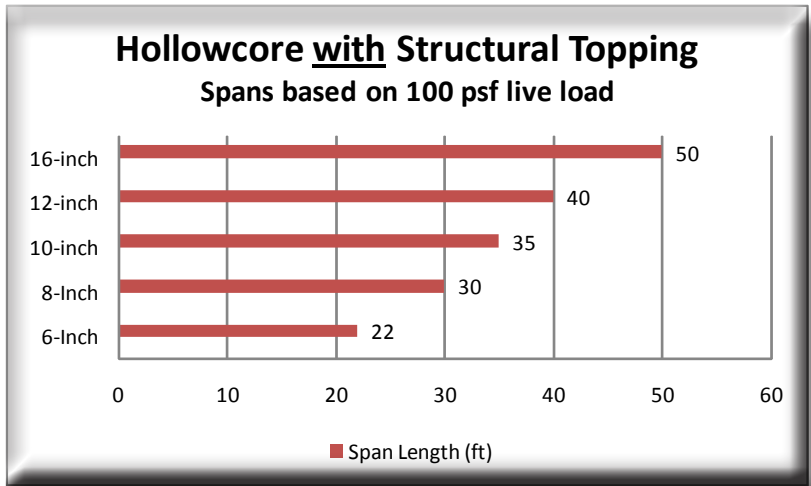
Wide open spaces and design freedom can be achieved by using 16-inch hollowcore plank to span from the outside wall across to the interior-corridor wall on the opposite side. The structural stability of the plank allows the designer to provide support for additional corridors on upper floors. The plank lets the architect open up the space below and eliminate support columns while providing the required support for upper floors.

Acoustical control between floors is particularly important in urban settings along with fire safe construction. Hollowcore floor systems have been tested to determine levels of sound transmission and impact noise classifications. (STC for 16-inch plank starts at 56 and increases with applied topping). Specific detailed values are available on our web site. Fire ratings can be obtained to meet the requirement of your local building codes.

The durability of precast concrete contributes to the sustainability of the entire project and the speed of construction minimizes the impact to the site in time and area. Precast hollowcore slabs are frequently used to support green roofs in urban settings.

Longer spans or heavier loads or special conditions may be achieved under certain conditions or different criteria than assumed in the load tables. Contact an engineer from Oldcastle Precast Building Systems for assistance. Factors such as concentrated loads and large openings can affect the span capabilities of your system. Compared to other systems hollowcore plank provides the highest stiffness-to-weight ratio as well as the longest design span among systems meeting typical mid-rise construction.

Using the same highly efficient production methods, Oldcastle Precast Building Systems now offers a wider choice of unit depths for your long span applications.



Use 16-inch plank to span from the outside wall across to the interior corridor wall for the maximum design flexibility



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.