



CFS IN THE FIELD

WOODWARD INC., ROCKFORD, IL

The following project was completed in fall of 2014 utilizing Concrete Fiber Solutions' CFS 100-2 ASTM Type II Concrete Reinforcing Steel Fibers. In floors with extended joints, such as at the Woodward facility, steel fibers take on the primary role in preventing visible cracks while allowing monolithic slabs, in this case, up to 125 ft. long.

For more information on CFS products please contact Concrete Fiber Solutions at (217) 651.6317.



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PROJECT DESCRIPTION

Woodward Inc. chose to build a new \$200 million manufacturing campus just north of Rockford, Illinois, to house their aerospace business unit. The campus includes a 300,000 square foot production plant and office center on over 60 acres of real estate. Woodward prides themselves on delivering solutions that are an essential part of the technology that changes the world. Their hope was that this new facility would be an obvious reflection of their mission.

THE OPTIONS

The original design for this slab was to be a steel fiber reinforced floor with 19# of steel fibers per cubic yard. During discussions between the owner and general contractor it was determined that the slab should also include several design enhancements. These enhancements provide features that are compatible with the owners' emphasis on quality in its manufacturing process and facilities. Therefore, the final design plan called for extending the joints to the column lines, utilizing a shake-on hardener to obtain a consistent color and then a liquid hardener to enhance the finished floor look.

THE OUTCOME

The finished floor is 306,000 square feet. CFS 100-2 steel fibers were used to extend the joints out to 120' x 125' with armored joints at all the construction joints. With all members of the construction team working toward a goal of the best industrial floor possible, a high quality and durable floor was produced for Woodward. There are no cracks and there is no visible curling. Plus, no fibers are visible on the surface and the hardener used provided a uniform color throughout.



PROJECT OVERVIEW

Contractor:

Ringland Johnson

Concrete Contractor:

Ivan Rice & Sons

Ready Mix Supplier:

Rogers Ready Mix

Engineers:

Ghafari & Associates

Joint Spacing:

120' x 125'

Thickness:

8"

"I've been in construction for over 30 years but had not used steel fibers in a floor until this project - one of the biggest we've ever done. The experience and expertise of the CFS team was critical throughout the project as it gave not only us, but also the owner, the confidence that we'd get the quality and results we needed. The finished product exceeded everyone's expectations and we've already started work with CFS on our next project."

Brent B. Johnson
President & CEO

Ringland-Johnson Construction