

BARDPRO FIBER FOCUS

F15&F50

DELHI, IOWA

RALPH NIEMAN FARMS



- Performance Throughout the Life Span of the Concrete
- 100% Positive Placement
- Saves Time and Hassle
- Faster, More Efficient Construction

PROJECT DATA

APPLICATION TYPE:

Slab on grade

FIBER TYPE:

BARDPRO F15
BARDPRO F50

CONTRACTOR:

Stahlberg Concrete

CONCRETE PRODUCER:

BARD Materials, West Region

TOTAL AREA:

33,500 SF
19,200 SF with F15
14,300 SF with F50

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Ralph Nieman made improvements to his farming operation in 2010 by constructing a new Hoop Barn Cattle Facility and Bunker Silo. Initially, Mr. Nieman planned to use traditional steel reinforcement for the concrete floor in the barn and bunker silo. Then Mike Stahlberg with Stahlberg Concrete and Dale Mescher with BARD Materials approached Mr. Nieman about a better reinforcement solution.

F15 was used as an alternative to WWF for the barn floor which improved durability due to properly placed 3-dimensional & non-corrosive reinforcement. Mr. Nieman stated that silage would be removed from the bunker silo with a bucket loader that would repeatedly scrape the concrete floor. Mr. Nieman was interested in a “joint-free” floor after discussing problems with joint deterioration and curling that catches the bucket during silage removal. The “joint free” slab design allows for random cracking, tighter crack containment, increased aggregate interlock for load transfer and it maintains a smoother surface versus sawed joints. BARD recommended F50 at a dosage rate of 5 lbs. per cubic yard to displace #4 rebar at 24” centers in the 6 inch thick “joint-free” slab-on-grade for the bunker silo. F50 also provided a non-corrosive reinforcement and increased impact and abrasion resistance. One year after construction, the bunker silo was inspected and found to have only one random crack per bay. The cracks were held tight and the slab surface was in excellent condition.

Contact your BARD Materials representative to integrate BARDPRO F15 and F50 Fibers into your next project.



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