



CASE HISTORY

SAFEBASE™ CARBON FIBER STRAPS

GRAIN BIN FOUNDATIONS REPAIRED USING CARBON FIBER



SafeBasements of Minnesota was contacted by Rhino Carbon Fiber with a request from Agtegra Cooperative for foundation repair at their Grebner facility. There were several locations along the grain bins that had areas of concrete spalling at the stiffeners. Two of the six bins had a new concrete walls poured around the perimeter. The other four bins had not been repaired, and recommendations were made to patch the spalling areas and reinforce with 2' wide bidirectional carbon fiber mesh. Approximately 30 locations throughout the four bins had more severe spalling. Agtegra chose to patch the sections and not to wrap the full perimeter of the bins.





Areas on the stem walls were prepared by grinding the concrete 2' down from the top of the wall in sections varying from 10 to 30 feet in length, based on the location of the spalling. The spalling areas were then cleaned and patched with a high strength quick setting weather resistant repair mortar.



Carbon fiber straps were epoxied to the walls in minimum lengths of 10 feet across each spalling section, going approximately 5 feet on each side. A total of 600 square feet of the Rhino Carbon Fiber 2' wide bidirectional mesh was installed on the bins.



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