



CASE HISTORY

*SAFEBASE™ CARBON FIBER & SAFEBASEMENTS™
WATERPROOFING*

BASEMENT WALL STRENGTHENING, WATERPROOFING, AND DISPLACEMENT PREVENTION



SafeBasements of Minnesota was contacted regarding concerns about movement of the basement walls and water intrusion. A plan was made to reinforce the walls using SafeBase Carbon Fiber and install an interior drain tile system with wall encapsulation. The concrete floor was removed near the base of the wall and Multi-Flow drain tile was installed in a bed of pea rock connected to a sump pump.





The surfaces of the walls were then prepared to accept the 8 inch wide bi-directional carbon fiber mesh. The carbon fiber is wrapped and epoxied to a steel bracket that bolts to the floor joists at the top of the wall. The bottom of the strap is wrapped through a steel bracket, overlain onto itself and bolted to the footing. The entire carbon fiber strap is adhered to the wall and brackets with high strength epoxy. The SafeEdge Max installed over the brackets, to allow any water within the wall to drain out the weep holes and into the drain tile system. A total of 10 Carbon Fiber straps and 90 feet of drain tile were installed.



Where the floor joists are running parallel to the wall, the top bracket is restrained by installing solid lumber blocking within the joist spaces.

After the installation of the Carbon Fiber was completed the 90 mil encapsulation was installed over the walls, sealed to the top of the foundation with Radon Shield and tucked behind the SafeEdge Max, stopping any moisture from entering through the walls. Finally, a vapor barrier was installed over the top of the pea rock, and the concrete was poured back into place. The project was completed in approximately three and a half days in May of 2020.



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