

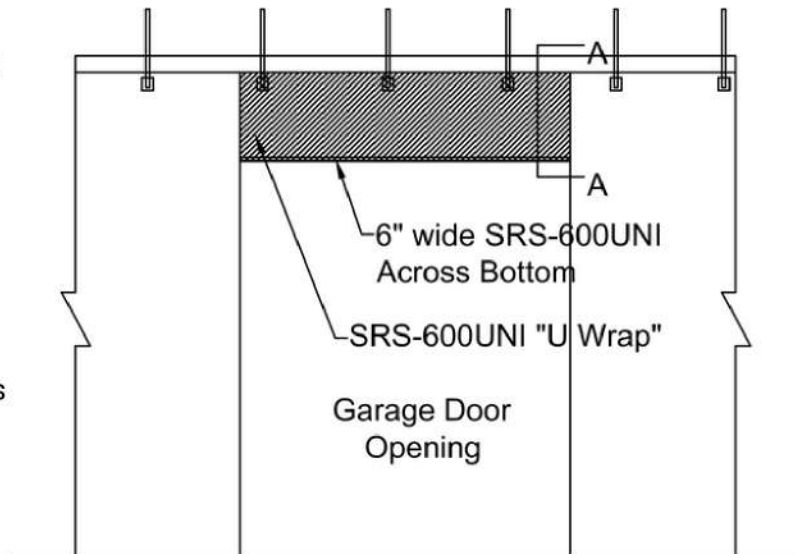
CARBON FIBER BLOCK WALL REINFORCEMENT

SOUTHERN CALIFORNIA, USA

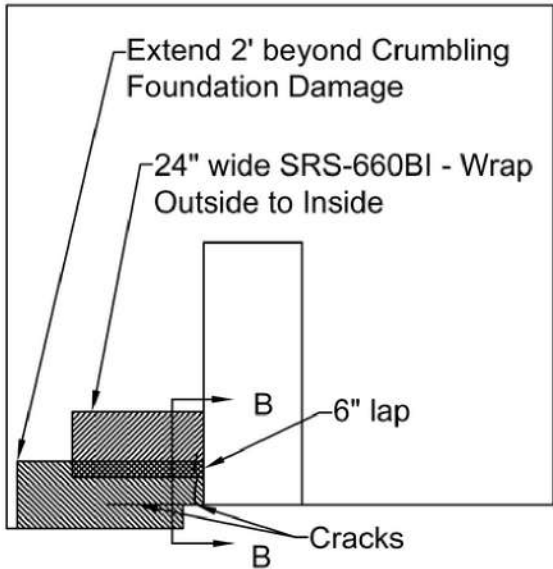


An industrial chemical plant faced structural challenges in its central boiler building. The CMU block building exhibited cracks, deteriorated areas, and opened mortar joints, leading to concerns about the overall integrity of the structure. Cracking around an overhead door opening was observed on the site walk and SRS put together a plan to reinforce and repair these areas.

To address these issues and reinforce the building, a comprehensive carbon fiber crack repair solution was implemented. SRS-600UNI was utilized to provide "U" wraps as well as flexural strengthening to the section of the CMU wall above the overhead door opening. Other areas of cracking on the CMU building were confined with the SRS-660BI.



CARBON FIBER STRENGTHENING SYSTEMS



Before the carbon fiber reinforcement installation, all cracks, deteriorated areas, and opened mortar joints were carefully filled and patched to create a stable surface for the repair.

A layer of 6" wide SRS-600UNI was installed on the underside of the opening for flexural strengthening. Full confinement with "U" wraps were also provided to strengthen and tie the lintel into the wall above.



Once all of the concrete repairs were complete, CFRP was installed, and the appropriate protective coatings were applied, the facilities maintenance group no longer had to be concerned with these prior issues.