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Strengthening Structures | Protecting Lives Worldwide.



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Blast hardening of Wells Blue Bunny Ice Cream Plant, Chicago, USA.

Among the many issues with this project was the main engine room area. It was discovered because of various chemical and mechanical issues, this area could potentially create explosive, blast situations. The problem was that the concrete masonry walls surrounding the area were not sufficiently designed to handle such a blast load.

The Tyfo® SEH-51A System was applied to the walls to give them the needed strength to resist a blast load. The masonry walls were strengthened approximately 6 times the original flexural capacity. Other wall-to-floor connections included steel kicker-angles, plates and through bolts.

The Tyfo® SEH-51A System was able to provide the required flexural enhancement to the existing walls while increasing the wall stiffness by nearly 9 times. On the walls where there were existing ducts, the Tyfo® SEH-51A System was able to be installed because of its versatility and non-intrusive, low-profile nature.

Project: Blast hardening of Wells Blue Bunny Ice Cream Plant

Location: Chicago, USA

Client: Wells Enterprises, Inc.

Scope of Works:

- Strengthening of masonry walls for a blast event



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