

PROJECT BRIEF

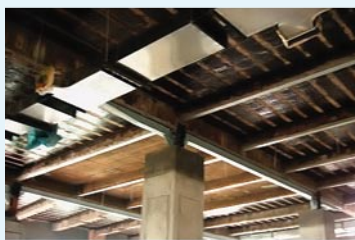
Bund 18: Architectural Heritage Building Preservation using the TYFO® Fibrwrap® Composite System



Shanghai, China
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Built in 1923 and located along the renowned Shanghai Bund River, Bund 18 was formerly known as the Macquarie Bank Tower. Massive structural retrofitting works were carried out to upgrade the 80 year old heritage building to satisfy current building code requirements and increased loadings. Conventional methods originally proposed would have entailed damage to existing delicate historic features and slowed down construction progress. Due to the need for careful preservation and demanding construction schedule, the TYFO® Fibrwrap® Composite System was chosen.



Seismic strengthening to perimeter brick walls spanning between marble clad columns was performed with TYFO® SEH Glass System. TYFO® UC preformed carbon laminate strips were used to strengthen steel beams in confined spaces in the basement and many locations where M&E works had to be done concurrently. Slabs were also strengthened for flexural capacity using the TYFO® SCH Carbon System. Instead of conventional anti-carbonation coatings, corrosion inhibition using the penetrative TYFO® CIS systems was used on all existing slabs and beams. The entire project was completed in various stages over a period of 9 months.



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