

Project Brief

Shed 21

Beam Strengthening



Wellington, NZ
2001



This heritage building on Wellington's waterfront's northern end (adjacent to the Railway Station) is the tallest of the wharf buildings still standing. It was completed in February 1911 as a wool store with the top floor a wool exhibition space. The building was used for the industrial exhibition in 1911. It was largely unused in recent years until 2001 when it was converted into 43 apartments and office space.

The apse-like extension on the northern end of the building housed an accumulator, part of the hydraulic lifting mechanism. Accumulated water pressure was used to drive lifts to move shipping goods between floors.

During the conversion to Waterloo On Quay Apartments, a construction error necessitated the retrofit of some new reinforced concrete beams with Tyfo® SEH 51 composite. The retrofit achieved the design requirements whilst adding minimal extra weight and no extra profile to the members.