



SIKA AT WORK

HUDDART PARKER BUILDING, WELLINGTON, NZ

QUAKE STRENGTHENING A HERITAGE BUILDING USING SikaWrap®

BUILDING TRUST



HUDDART PARKER BUILDING WELLINGTON



BBR Contech applied SikaWrap®-600 C woven carbon fibre fabric to provide additional shear strength and full confinement to the building's existing beam column joints.

THE HISTORIC HUDDART PARKER BUILDING IN JERVOIS QUAY, WELLINGTON HAS BEEN GIVEN A NEW LEASE OF LIFE THROUGH STATE OF THE ART SEISMIC ENHANCEMENT PRACTICES.

With its original construction completed in 1928, the Huddart Parker Building has considerable landmark value, largely for its strong presence in the Customhouse/Jervois Quay streetscape. The Building has recognised architectural value as a result of its bold Chicago-style design.

The structural retrofit of the building was extensive - however the resultant impact on the architectural significance of the building is negligible. Dunning Thornton's design lifts the Building's NBS from

29% up to 100%, largely through enabling increased ductility of the structure. This has been achieved through the in situ construction of a concrete frame inside the exterior walls, with the beams in the new frame having had a state of the art slotted detail introduced at their ends to promote ductility.

The design also utilises the benefits of FRP strengthening. Through its characteristic light weight and minimal post-installation profile, SikaWrap -600 C (Wet Lay Carbon Fibre) was installed to provide additional shear strength and full confinement to the Building's existing beam column joints. This heritage retrofit successfully combines several specialist strengthening techniques and materials ranging from the traditional through to state-of-the-art.

If you would like more information on Sika's seismic strengthening solutions, phone Paul Tanner at Sika NZ on 021 607 894.

Consultant: Dunning Thornton Engineers
Head Contractor: LT McGuinness
Sika Approved FRP Installer: BBR Contech (Construction Techniques Ltd)



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