

# Certificate of Conformity

This is to Certify

## SikaWrap Hex Structural Strengthening System

### Product Description

The SikaWrap Hex Structural Strengthening System comprising SikaWrap Hex-100G, SikaWrap Hex-103C, Sikadur Hex-300 is a textile based structural strengthening system using fabric and impregnating resin.

### Complies with the Building Code of New Zealand:

1. B1 Structure - B1.3.1, B1.3.2, B1.3.3, B1.3.4
2. B2 Durability – B2.3.1(a), B2.3.2
3. C Protection from Fire – C6.2, C6.3, C6.4
4. F2 Hazardous Building Materials – F2.3.1

### Subject to the following conditions and limitations:

1. Design of the strengthening works i.e. the specific Sika product items and their location in the structure, must be undertaken by a suitably qualified Structural Engineer and be installed by BBR Contech.
2. The FRP structural strengthening design for reinforced concrete structures should be undertaken in accordance with ACI 440.2R-08. However where necessary the equations in ACI 440.2R-08 should be modified to ensure compliance with the requirements of NZS 3101:2006 and AS/NZS1170:2002
3. The FRP structural strengthening design for masonry structures should be undertaken in accordance with ACI 440.7R-10 taking into account any requirements of NZS4230-2004 and NZS1170:2002.
4. The structural performance of SikaWrap FRP strengthened concrete structures during a fire should comply with the principles of Clause 9.2.1 of ACI 440.2R-08. Where the strength of the unstrengthened concrete structure is sufficient to resist the AS/NZS 1170:2002 Combination of Actions for Ultimate Limit States for Fire then no additional fire protection is required. If the FRP strengthening system is required to satisfy life-safety requirements then up to 4 hours fire protection can be provided with Sikacrete-213 F.

**Date of Issue** 23 July 2014

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John McKay, Chief Executive Officer,ASUREQuality Limited



## CODEMARK™

### Product Purpose or Use

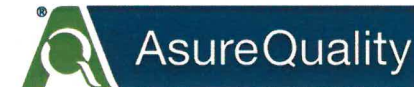
The SikaWrap Hex Structural Strengthening System is used for the strengthening of reinforced concrete and reinforced and unreinforced masonry structures.

### Certificate Holder

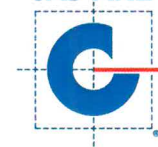
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### CodeMark Certification Body

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JAS-ANZ



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"This certificate is issued by an independent certification body accredited by the product certification accreditation body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment (MBIE) under the Building Act 2004. The MBIE does not in any way warrant, guarantee, or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. The MBIE disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate. This certificate may only be reproduced in its entirety."