



# CERTIFICATE OF CONFORMITY

This is to certify that

**FYFE Co. LLC**

**Tyfo® Fibrwrap® System**



### Product Description

The Tyfo® Fibrwrap® system is made up of Tyfo® carbon, glass, aramid and hybrid fabrics combined with Tyfo® polymers which, in combination, create the Tyfo® Fibrwrap® systems. These Systems are listed in ICC ESR-2103.

### Product Purpose or Use

Tyfo® Fibrwrap® Systems are primarily used as externally bonded or near surface mounted additions to existing structural elements such as columns, beams, slabs, walls, pipes/ tanks/ chimneys and structural connections in order to improve their structural performance.

### Certificate Holder

#### FYFE Co. LLC

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Batesville, MS 38606 USA  
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### Certification Body

#### CertMark International Pty Ltd

T/A CertMark New Zealand  
ABN: 80 111 217 568  
JAS-ANZ Accreditation No. Z4450210AK  
PO Box 321 Tuakau 2121  
www.CertMark.org

### Complies with the New Zealand Building Code:

1. NZBC Clause B1 Structure- B1.3.1, B1.3.2, B1.3.3 & B1.3.4 (refer to limitation d).
2. NZBC Clause B2 Durability- B2.3.1 (a).
3. NZBC Clause C6 Protection from Fire- C6.2, C6.3 & C6.4 (refer to limitation b).
4. NZBC Clause F2 Hazardous Building Materials- F2.3.1.

### Subject to the following Conditions & Limitations:

- a. The System is installed in accordance with the Fyfe Co. LLC Design Manual Rev.9, dated July 2010 and the Fyfe Co. LLC Quality Control Manual Rev.10, August 2010, as listed in the ICC ESR-2103. The design procedures are in accordance with ACI 440.2R-08 and ICC AC125.
- b. Fire rating on the Tyfo® Fibrwrap® system is dependent on the application of the appropriate Tyfo® fire protection coating and is required only to maintain the existing fire rating of a particular structural element when designed to resist gravity loads. In order to ensure life-safety and avoid potential collapse during a catastrophic fire event, the structural load-carrying capacities of fire-resistance-rated assemblies shall be based on the capacity of the concrete or masonry without the Tyfo® System.
- c. Application of the systems to concrete or masonry members shall be by a trained and certified applicator as per the Fyfe Co. LLC Quality Control Manual Rev 10, August 2010.
- d. Use of the appropriate Tyfo® Fibrwrap® system will allow an existing structural element to sustain loads arising from (a) Self-weight, (b) Imposed gravity loads arising from use, (d) Earth pressure, (e) Water and other liquids, (f) Earthquake, (g) Snow, (h) Wind, (i) Fire, (i) Impact, (k) Explosion, (l) Reversing or fluctuating effects, (n) Vegetation, (p) Influence of equipment, services, non-structural elements and contents, (q) Creep and Shrinkage, (r) Removal of support
- e. This certification relates only the clauses of the NZBC as contained herein. Consequently any clause not included on this certificate are outside the scope of this Certificate.
- f. This certification relates only to the product that is described above, and has to be read, considered and used as a whole document — it may be considered misleading and will be incomplete to be selective.
- g. For further information contact the certificate holder.

  
**John Thorpe**  
CertMark International Pty Ltd

10/05/2013

Date of Issue

CMA-CM40044 (Rev3)

Certificate Number  
Revision February 2015

- 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 & Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee, or represent that the building method or product the subject of this certificate conforms to the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. 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
- It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the MBIE website, www.mbie.govt.nz
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