Fibrwrap Construction (M) Sdn. Bhd.

No.5-4, (3rd Floor), Jalan Kuchai Maju 11, Kuchai Entrepreneur's Park, Off Jalan Kuchai Lama, 58200 Kuala Lumpur Tel: 03-7987 3177 Fax: 03-7987 6177 Email: adminmy@aegion.com

Website: www.fyfeasia.com

### **To Whom It May Concern**

Dear Sir,

#### LETTER OF INTRODUCTION AND COMPANY PROFILE

### TYFO FIBRWRAP SYSTEM AND INSITUFORM CIPP TECHNOLOGIES

We would like to take this opportunity to introduce our services to your esteem organization.

Fibrwrap Construction (M) Sdn Bhd is part of Aegion Corporation, a company with branches offices and licenses throughout the world. We are the licensees for the Tyfo Fibrwrap Systems and Insituform CIPP Technologies from North America.

Briefly, the Tyfo Fibrwrap System, a patented advance composite strengthen system, specifically developed to tailor for the needs of retrofitting, rejuvenating and rehabilitating of buildings, bridges, tunnels and water front structures throughout the world for more than 25 years.

The Insituform CIPP technologies with more than 50 years track record worldwide for trenchless underground infrastructure rehabilitation, provides a jointless, seamless pipe within a pipe - in the corrosion protection of industrial pipe lines and the rehabilitation and strengthening of sewer and water pipes. It renews structural integrity of water, wastewater and industrial pipelines while increases flow capacity, thus significantly reduces long-term maintenance cost with minimum disruption in pipes ranging from 6 to 96 inches in diameter.

Attached is the full depiction of Aegion Corporation giving a brief background of the services available along with product brochures for the abovementioned system and technologies.

Please feel free to contact the undersigned at 012-235 7071 if you like to know more about our system and services.

Yours faithfully

Fibrwrap Construction (M) Sdn Bhd

LEONG CHEE SOON

**General Manager** 



### 1. Company Profile

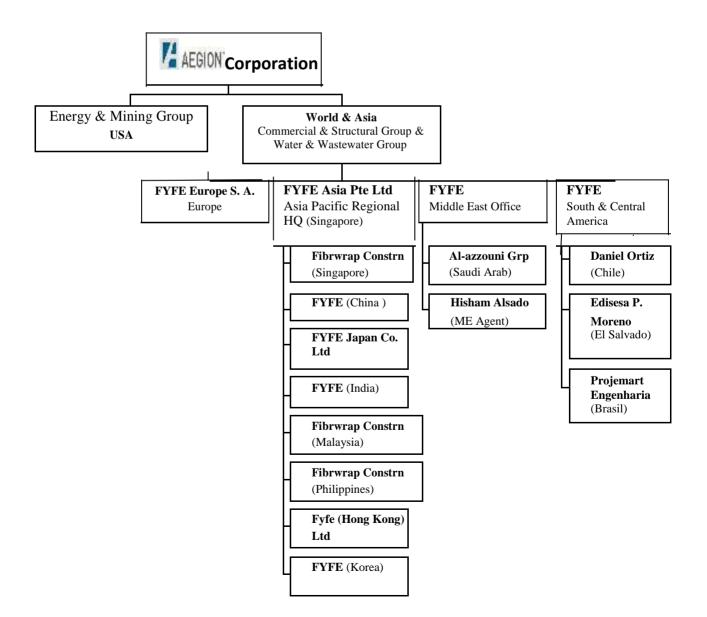
Fibrwrap Construction (M) Sdn. Bhd is a company incorporated in Nov 2003, is one of the several companies under Aegion Corporation a company with branch offices and licensees throughout the world.

The vast experience of its staffs with exposure to various markets in this region put the company in a position to handle challenges, particularly in the field of trenchless technology, structural assessment, repair and strengthening, using the most practical, economical and efficient methods.

## 2. AEGION Company World Wide

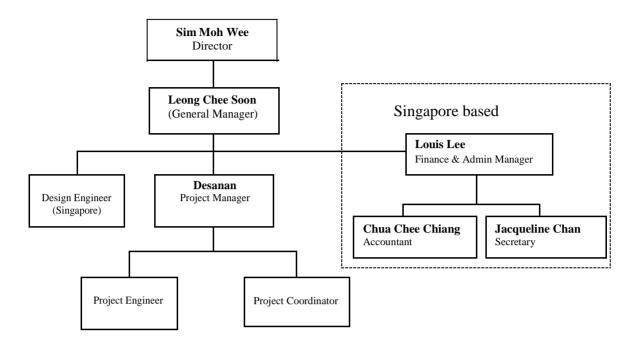
Attached in Appendix A is the AEGION Group of companies & FYFE/Fibrwrap other country address and details.

Fibrwrap and Insituform provides the Infrastructure Solution in AEGION Corporation





## 3. Organisation Chart



## **4. Curriculum Vitae of Key Personnel** (Appendix B)

Mr. Sim Moh Wee

Mr. Leong Chee Soon

Mr. Desanan

# **5. Project Reference** (Appendix C) **Tyfo**<sup>®</sup> **Fibrwrap System**

China, Hong Kong, Taiwan, India, Vietnam, Thailand, Malaysia, Singapore,

Korea, Philippines, Japan, Australia, Sri Lanka and New Zealand

**Insituform CIPP Technologies** 

Malaysia Project Only

## **6. Certificate of Company Registration** (Appendix D)

Company registration

### **7. Company and Product Brochures** (Appendix E)

FYFE Co LLC Company and TYFO Fibrwrap Product Brochures **INSITUFORM CIPP Technologies Brochures** 



### 8. Corporate Data

Address Fibrwrap Construction (M) Sdn. Bhd.

No 5-4 (3<sup>rd</sup> Floor)

Jalan Kuchai Maju 11 (Jalan 10/116B)

Kuchai Entrepreneur's Park Off Jalan Kuchai Lama

58200 Kuala Lumpur, Malaysia

Tel: 03.7987.3177 Fax: 03.7987.6177

Email: csleong@aegion.com
OR csleong@fyfeasia.com
Website: www.fyfeasia.com

**Board Of Directors** Mr. Sim Moh Wee

Mr. Leong Chee Soon

Company Secretary Messrs. Chong Lay Kim

Corporate Services

Tricor Corporate Services Sdn Bhd (Wholly

owned subsidiary of Tricor Services (Malaysia) Sdn. Bhd)

Member of the Bank of East Asia Group Level 18, The Gardens North Tower Mid Valley City, Lingkaran Syed Putra

59200 Kuala Lumpur, Malaysia.

**Authorized Capital** Rm 100,000.00

Paid Up Capital Rm 100,000.00

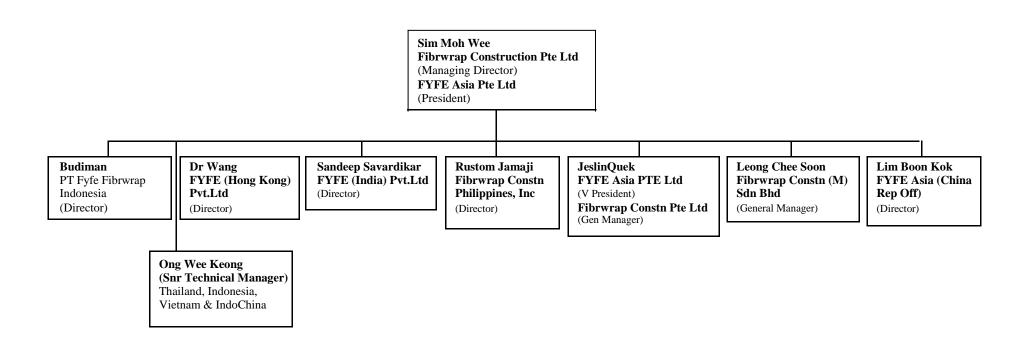
Banker United Overseas Bank (M) Berhad

Jalan Wong Ah Fook Branch,

Johor Bahru



## **Organization Chart (Asia Pacific Region)**





## **APPENDIX A**



### FYFE CO. LLC (USA)

Fyfe Company LLC is the manufacturer of the Tyfo® Fibrwrap® Advanced Composite System. These Fiber Reinforced Polymer (FRP) systems are comprised of carbon, glass and aramid fibers in an epoxy matrix. Tyfo® Systems are used for structural strengthening, including seismic retrofit, pipe rehabilitation, blast mitigation and environmental protection.

Fibrwrap Construction (M) Sdn Bhd is the licensee for Insituform CIPP Technologies. The use of Insituform CIPP technologies provides a jointless, seamless pipe within a pipe - in the corrosion protection of industrial pipe lines and the rehabilitation and strengthening of sewer and water pipes

### Europe

Fyfe Europe S.A. 28 Aristippou Street Glyfada, 166 74 Athens, Greece Phone +30.210.995.9595 fax +30.210.9643402 Email: fvfe\_europe@hol.gr

### Middle East

Al-Azzouni Group P.O. Box 53035 Jeddah 21583 Saudi Arabia Tel. +966.2.663.2941 Fax +966.2.665.2851

Email: azzounio@hotmail.com

Hisham Alsado, PE Middle East Agent Cell: 202.438.7521

Email: hisham@fyfeco.com

### South and Central America

Daniel Ortiz
TechnoAV S.A.
Manquehue Sur #520 Of. 216
Las Condes - Santiago Chile
Tel/Fax: +562.245.31180
Email: tnuevo@entelchile.net

Projemart Engenharia Rua Ernesto Basilio, 64 - sala 211 Centro - Nova Friburgo - RJ CEP: 28614-070

Brasil Tel. +22.2522.9529 Fax +22.9836.7321 Edisesa Pasaje Moreno #120 Cor Flor Blanca San Salvador, El Salvador Tel. +503.22.98.15.53 or +503.22.98.15.54 Fax +503.22.23.72.32

Cell +503.77.06.11.67 Email: edisesa@intercom.com.sv



### **FYFE CONTACT IN ASIA**

### Singapore

Fyfe Asia Pte Ltd 6 Clementi Loop

#04-00

Singapore 129814 Phone: 65.6898.5248 Fax:65.6898.5181

Web: www.fyfeasia.com

Email: fyfeasia@singnet.com.sg

### **Fibrwrap Construction Pte Ltd**

6 Clementi Loop

#04-00

Singapore 129814 Phone: +65 6898 5248 Fax: +65 6898 5181

E-mail: fibrwrap@starhub.net.sg

#### Australia

### FYFE Tyfo (Aust) Pty Ltd

Level 1, U24/36 Ralph Street Alexandria NSW 2015

Australia

Phone: +61 2 1300 142 280 Fax: +61 2 1300 142 240 E-mail: info@fyfetyfo.com.au Web: www.fyfetyfo.com.au

### Japan

### FYFE Japan Co., Ltd.

the SOHO 1210 2-7-4 Aoumi, Koutou-ku, Tokyo 135-0064

Japan

Phone: +81 3 6457 1910 Mobile: +81 90 2852 7696 Fax: +81 3 6467 1911

E-mail: basem@fyfejapan.com

### Korea

Fyfe Korea Co. Ltd. #428-5, Songnae-dong, Kangdong-gu

Seoul, 134-030, Korea Tel: 82.2478.6026 Fax: 82.2478.6024

E-mail: conclinic@conclinic.co.kr Website: www.conclinic.co.kr

### **Thailand**

### **Groupmech Corporation Ltd**

99/101-102, Soi Mamin Condo Sihaburanukit Road Minburi, Bangkok 10510

Thailand

Phone: +66 2 918 8990 Fax: +66 2 517 7487

E-mail: sales@groupmech.com

### China

### Fyfe Asia Pte Ltd (China Rep. Office)

Huai Hai Zhong Hua Building Unit 613 No. 885 Ren Min Road Shanghai 200010

China

Mobile: 86-135 6459 9773 Tel: 86.21.6374.1773 Fax: 86.21.6374.1779

E-mail: limboonkok@fyfeasia.com

### Fyfe (China) Pte Ltd

Guang Cheng Plaza Unit 301 No. 26 Gao Sheng Qiao Road Chengdu 610041 China

Tel: 86.28.8507.1670 Fax:86.28.8507.1680



### India

### Fyfe (India) Pvt. Ltd.

226 Hammersmith Industrial Estate Narayan Pathare Marg Mahim (West), Mumbai 400016 India

Tel: 91.9820.710.224 Fax: 91.22.2444.6002

Email: fyfeindia@vsnl.net

### Brunei & East Malaysia

### **FYFE Borneo Sdn Bhd**

Unit 20, 2nd Floor, Block B Bangunan Ben Kassim & Hih Zaliha Spg 440 Kg Sg Tilong, Jln Muara Bandar Seri Begawan BC2115, Brunei Darussalam

Phone: +673 234 1625 Fax: +673 234 1626;

E-mail: fyfeborneo@gmail.com

### **Philippines**

### **EC Structural Composites, Inc**

Unit 502-505 Jocfer Building Commonwealth Avenue Quezon City, Manila Philippines

Phone: +63 2 453 5151 Fax: +63 2 951 2761

E-mail: ECstructural@yahoo.com

#### Indonesia

### PT. FYFE FIBRWRAP Indonesia

Jl. Pintu Besar, Blok D-36 Ruko Pinangsia Lippo Karawaci - Tangerang 15811

Indonesia

Phone: +62 21 558 5996 / 7

Fax: +62 21 558 5897

E-mail: fyfeindonesia@yahoo.com

### Malaysia

### Fibrwrap Construction (M) Sdn. Bhd.

No 5-4, Jalan 10/116B Kuchai Entrepreneur's Park Off Jalan Kuchai Lama 58200 Kuala Lumpur

Malaysia

Tel: 03.7987.3177 Fax: 03.7987.6177 Mobile: 012.235.7071

Email: <a href="mailto:csleong@aegion.com">csleong@aegion.com</a> Or csleong@fyfeasia.com

### Hong Kong

### FYFE (Hong Kong) Ltd

Unit 5, 22th Floor Metropole Square 2 On Yiu Street, Shatin Hong Kong

Phone: +852 3579 5588 Mobile: +852 9787 9128 Fax: +852 3579 5599

Email: jwang@fyfe.com.hk



## **APPENDIX B**



## **Curriculum Vitae**

Sim Moh Wee

Date of Birth: 17<sup>th</sup> June 1963

Nationality: Malaysian

Qualification: B Eng (Civil), M.Sc (Bldg. Sc.), MBA (Accountancy)

### Experience:

2002	Fibrwrap Construction Pte. Ltd Managing Director
	FYFE Asia Pte. Ltd President
2001	L&M Structural Composites Pte. Ltd General Manager
1999	L&M Proceq Technology - Dy. General Manager
1997	L&M Concrete Specialists Pte. Ltd Dy. General Manager
1995	L&M Repair Technology Pte. Ltd Asst. General Manager
1989 - 1994	L&M Repair Technology Pte. Ltd.
1987 - 1989	Sho Bond Construction (S) Pte. Ltd.

### Significant Projects include:

- 1. Repairs and strengthening to Hwa Chong JC.
- 2. Repairs and strengthening to Shaw Building.
- 3. Repairs and strengthening to New Park Hotel.
- 4. Repairs and strengthening to Teresa Ville.
- 5. Strengthening to Chatsworth Court.
- 6. Waterproofing to Rendezvous Hotel.
- 7. Strengthening to Rendezvous Hotel.
- 8. Crack Repair to CTE Tunnel.
- 9. Movement joint repairs to CTE Tunnel.
- 10. External façade repairs to Marina Square.



- 11. Repairs to toilet leakage at HDB units.
- 12. Repairs to Hyatt Hotel.

Sim Moh Wee

- 13. Strengthening to International Building.
- 14. Underdeck repairs to Clifford Pier.
- 15. Underdeck repairs to Collyer Quay.
- 16. External facade repairs to UIC Building.
- 17. External facade repairs to Mandarin Hotel.
- 18. Repairs and strengthening to New Kelani Bridge, Sri Lanka
- 19. Underdeck repairs to Pantoloan Jetty, Indonesia.
- 20. Underdeck repairs to Muara Jetty, Brunei.
- 21. Repairs and strengthening to Bomb Blast Damaged Structure, Ceylinco House, Sri Lanka.
- 22. Repairs to cracks at Don Muang Tollway, Thailand.
- 23. External façade repairs to Cathay Trust Building, Thailand.
- 24. Repairs and strengthening to Phuket Yatch Club, Thailand.
- 25. Waterproofing to POSB Centre.
- 26. Waterproofing to Singland Tower.
- 27. Waterproofing to Orchard Underpass.
- 28. Underdeck repairs to Jurong Port.
- 29. Repairs to Berthing Dolphins at SRC.
- 30. Repairs to Jetty at Pulau Ayer Chawan.
- 31. Strengthening to Formosa Silo, Taiwan.
- 32. Strengthening to Chin Swee Carpark.



## **Curriculum Vitae**

**Leong Chee Soon** 

### **QUALIFICATION**

- \* B Eng (Civil) The Univ. of Manchester, UK
- \* Adv. Diploma Building Construction Management (Singapore Polytechnic)
- \* Diploma Civil Engineering; Major in Design (Singapore Polytechnic)
- \* Member of Institute of Material Malaysia (MIMM)
- \* Member of Technological Association Malaysia (MTAM)

### **EMPLOYMENT:**

2004 to Present	Fibrwrap Construction (M) Sdn Bhd (General Manager)
2002 - 2004	Fibrwrap Construction Pte Ltd (Senior Manager)
2001 - 2002	L&M Concrete Specialist Pte Ltd, Structural Composites (Snr Project Manager)
1996	GTM Enterpose - Project Manager (on 6months Project Secondment from L&M)
1995 - 2001	L&M Prestressing Pte Ltd (Snr Project Coordinator/Project Manager)
1991 - 1995	L&M Repair Technology Pte Ltd (Snr Project Coordinator/Project Manager)
1988 - 1991	L&M Repair Technology Pte Ltd (Snr Tech. Officer)
1983 - 1988	Resources Development Corporation Ltd (Assistance Plant Supervisor)



### **EXPERIENCE (over last 30 years)**

### 2004 Fibrwrap Construction (M) Sdn Bhd (General Manager) - PRESENT

An engineering company specializing in structural investigation, structural repairs, strengthening and maintenance of concrete, timber and steel structures.

Responsible for the business and operation of the company in Malaysia including preparation of proposal, tendering, workforce & materials control, finances and oversee the execution & completion.

Major Projects/Type of Structures undertaken or involved included the appraisal and rehabilitation of:-

- R. C. Marine Jetty & Underwater Structures;
- Steel Bridges, R. C. Bridges and Culverts;
- R. C. & Steel Silos, R.C. & Steel Water Tanks;
- Fire Damaged R. C. Structures;
- R. C. Buildings;
- R. C. Retaining Wall;
- Slopes & All types of R.C., Steel & Timber Structures.
- Rail way lines, Precast Via ducts and ballast structure

### **Example of strengthening project:**

Strengthening of beam and column at PUDU Plaza Shopping complex

Strengthening of beam and slab for increase in load carrying capacity to Podium slab at Medan Putra Complex at Manjalera, Kepong

Strengthening of beam at PGRM Building for 15 tons MRI scanning machine.

Strengthening of RC Post tension of flat slab for increase in loading capacity to data center for CIMB Bank At Menara SBB

Strengthening of RC beams at Jabatan Bekalan Air - Tg Gemuk, Rompin, Pahang Strengthening of beams and slabs for Housing Development Project for Johor Land Corrosion protection to Steel Frame of Machine at Tissue factory in Kluang, Johor Housing Development in Kluang, Johor - Structural strengthening works

Spalling Concrete Repair, Fibrwrap installation and Corrosion protection of sewer treatment plant for 5star Hotel Johor Bahru

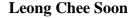
Excella Business Park, Ampang, Kuala Lumpur - Strengthening of floor slab

United Oversea Bank (M) Berhad, Johor Bahru- Strengthening of Floor slab for Bank's Vault room

Abadi Villa – Swimming Pool landscape feature strengthening

Institute Kemahiran Belia Negara, Lanchang Temerloh – Beam strengthening at Surau Bo Jung Factory, Muar Johor - Beam and slab repair

Slab strengthening for Khoo Soon Lee Realty, Johor Bahru





#### Sri Lanka

Structural Strengthening of Column at Cinnamon Square, Galle Face Colombo

### Example of bridge, slopes inspection and assessment works:

8 bridges and crossing LPNG Brunei

KL Monorails super structures, column, cross head, girders and ancillaries buildings, etc for KLIA Consult

Ampang LRT bridges, rail tracks and building structures, etc for KLIA Consult Ipoh Memorial Park slope stability for Vertitech

Feedstock Steel silos material testing and recommendation for Vertitech HSBC Jalan Timbalan, Johor Bahru – slope stability assessment

### **Example of involvement in other projects:**

Quality Alam - Toxic landfill - Senior construction management using geoliner and geofabric for Main Contractor

Subang Gantian new bridge construction works, Shah Alam – Senior Construction management work for Main Contractor

### **2002-2004** Fibrwrap Construction Pte Ltd (Senior Manager)

An engineering company specializing in structural investigation, structural repairs, strengthening and maintenance of concrete, timber and steel structures. I was responsible for setting up and running the business operation of the company in Singapore including preparation of proposal, tendering, workforce & materials control, budgeting and oversee the execution & completion all works secured.

### Example of Tunnel inspections, repair, maintenance and assessment works:

CTE Tunnel Inspection, Repair and Maintenance work for Land Transport Authority (LTA) (S\$4.4M-6mths) Works involving defect assessment, replacement of electrical cable trays, spalling concrete repair, water leakage repair, coating, traffic control and cathodic protection works

### **Example of assessment and strengthening project:**

Riverhouse at Clarke Quay timber roof beam strengthening

Strengthening of Pier 21 at Jurong Port Road

Singapore Chem-Con column strengthening

Factory at Kian Teck Way strengthening works

Plaza Singapura beam strengthening works

NUS Swimming pool beam and column strengthening

NUS Law Library rectification to damp rising

Changi Meridien Structural Strengthening, A&A works

Blk 52,54, 56 & 58, 64 & 64 at Upper Cross Street beam and slab strengthening Tiong Bahru Plaza Slab Strengthening to A&A works

Slab Strengthening to DBS Bank Tower 2 Podium Shenton Way, A&A works YMCA – Beams and Slab Strengthening

China Square Parcel G - Beam and Slab Strengthening Works

Composite Wrapping to HDB Void Decks Columns Term Contract 4 and 5



### **Leong Chee Soon**

## 2001-2002 L&M Concrete Specialist Pte Ltd, Structural Composites (Snr Project Manager)

Responsible for the general management of the company and projects secured

### Example of assessment and strengthening project:

Anderson Secondary School Beam and Column Strengthening

Pickering Street Wall Strengthening

King Edward Hall VII at College Road beam and slab strengthening

High Street Center beam strengthening works

Beam Strengthening at Exxon Mobil

Beam Strengthening to NTUC at No. 680, Upp Thomson Road, A&A works

China Square Parcel G - Beam and Slab Strengthening Works

A&A to Rangoon Road - Betting Centre

Composite Wrapping to HDB Void Decks Columns Term Contract

2; Structural strengthening works to Pei Fu building, Industrial Road

### 1993-2001 L&M Prestressing Pte Ltd (Snr Project Coordinator/Project Manager)

Responsible for the management and completion of projects to meet timeline and budget for the company resolving many technical and contractual matters.

### **Example of General and Specialist Construction Management works**

Construction of 2nos of Silo for Ssangyong Engineering & Construction Co. Ltd (S\$8.0M – 12mths)

Demolition of Pan United Cement Silo (62m high x 22m dia.) at Pulau Damar Laut (S\$4.0M – 3mths)

Construction and handing over of 2nos of (45m high x 22m dia.) silo, a 4 storey Office building and packing house for Messr Jurong Cement at Pulau Damar Laut.

Handing over of (1no. 60m high x 22m dia. Silo) for Blue Scope Cement silo construction project at Pulau Damar Laut

Re-construction of Stamford Tyres Warehouse, Office and Showroom at Lok Yang (S\$15M - 12mths)

Construction of 3blocks Multi storey building and a Parade Square at Sembawang Camp Redevelopment Phase 2 (S\$20M - 18mths)

Addition and alteration works to 13<sup>th</sup> storey Alexandra Point, for Tigers Development. (S\$1.8M - 16weeks)

Construction and erection of concrete and steel structure for Teflon fabric roof structure for Amphitheatre at Nanyang Polytechnic at Ang Mo Kio

Construction of 2nos of bridges (under tidal condition) crossing over Bedok Canal for Laguna Golf and country Club Development Project (S\$1.8M-6months)

#### Sri Lanka

Structural Repair, freeing of rollers and rockers bearing and Pot Bearing Replacement to New Kelani Bridge at Colombo, Sri Lanka (S\$4.4M)

Repair to Fire Damage Ceylinco Bank at Colombo (S\$1M)



**Leong Chee Soon** 

## 1988-1992 L&M Repair Technology Pte Ltd (Snr Tech. Officer/Snr Project Coordinator) Test Laboratory, Non Destructive Testing and Building Assessment Works

Setting up of Concrete Test Laboratory Test Procedures and Calibration System for successful Accreditation under Singapore Laboratory Accreditation Scheme.

Laboratory was set up in the Innovation Center of Nanyang Technological University to carry out joint research with the University.

Pioneering the Non Disruptive Testing Methods f or Insitu Concrete strength and Data Analysis for Building Assessment Services to Consulting Firms/Engineers for routine and mandatory building inspection after the collapse of Hotel New World in Singapore.

- o Manjoseri School Hall Structural assessment, Kaki Bukit, Singapore
- o Setron Building, Alexandra, Singapore
- o Serangoon Plaza, Serangoon Road, Singapore
- o AIWA Factory building, Lower Delta Road, Singapore
- o Ngee Ann Polytechnic, Singapore
- o Singapore Contractors Association Ltd Building, Alexandra Singapore
- o York Hotel Carpark, Singapore
- o Sembawang Naval Base, Admiralty Road, Singapore
- o NUS Engineering Block Singapore

### 1983-1988 Resources Development Corporation Ltd (Assistance Plant Supervisor) Ready Mixed Concrete (4.5 years)

Laboratory concrete and material testing

Concrete Trial Mix and Mix Design

Quality Control of concrete mix using QUSUM analysis for all batching plants Batching Plant Production Operations and Calibration Checks

Civil Works to set up Batching Plants for specific projects



### **Curriculum Vitae**

**Desanan Krishnan** 

**Date of Birth**: 29 Nov 1979

**Nationality** : Malaysian

**Experience**:

2015 – present Insituform Linings Asia Sdn Bhd/Fibrwrap Construction Sdn Bhd - Senior

Project Manager

2013 – 2015 Insituform Linings Asia Sdn Bhd (Project Manager)

2011 – 2013 Mewah Kota Sdn Bhd (Merge Energy Bhd) Senior Project Manager

2010 - 2011 Salcon Engineering Berhad, Project Manager – Mumbai, India NRW

Project

2008 – 2010 Jalur Cahaya Sdn Bhd - Assistant Construction Manager

2006 - 2008 Jalur Cahaya Sdn Bhd - Senior Executive – NRW

2005 – 2006 Puncak Niaga (M) Sdn Bhd – NRW Executive

2002 - 2005 Lestari Nilam Sn Bhd. – Engineer

2001 M-Pile Sdn Bhd – Site Engineer

### Significant Projects include:

### 2013 to present

1. Project Title: Projek NKEA Greater KL/KV – River of Life Package G07 & 08
Rehabilitation of existing Sewer Pipes network at Federal Territory and Selangor for

Main-Contractor : Pembinaan Daya Tekad Sdn Bhd & Kejuruteraan Cempera Jaya Sdn Bhd

Completed 30 kilometers of sewer rehabilitation with Insituform Cured In-Place Pipe (CIPP), Trenchless Underground Rehabilitation of Pipes Technology

Project Value: MYR 24 Million & MYR 12 Million

2. KL International Airport 2 – Sewer Pipe Repair Works using Insituform CIPP Technology

Main-Contractor : Elmibina Sdn Bhd

Project Value: MYR 800K





- 3. Defect rectification work for Insituform Singapore for Contract C5, C6 and C7 for release of Performance Bond and Certificate of Making Good Defects
- 4. Defect rectification work for Insituform Singapore for Sewer line Rehabilitation in Labuan, East Malaysia for release of Performance Bond and Certificate of Making Good Defects

### 2011 - 2013

5. The Construction & Completion of Balancing Reservoir, Access Road and Laying of Treated Water Mains For Panching Water Treatment Works, Kuantan, Pahang – Package 2 for East Coast Economic Region Development Council (ECERDC)

PMC: KLCC Projects Sdn Bhd

Consultant HLA Associates Sdn Bhd

- 6. Water Loss Supply Mitigation Program in Selangor, Wilayah Persekutuan Kuala Lumpur Dan Putrajaya. Replacement of old Water Pipes Program 2011/2012
  - (i) P5A Ulu Bernam & Kg. Sg. Choh
  - (ii) P7A- Parit Mahang
  - (iii) P5B- Batu Arang
  - (iv) Establishment of Pipe Main Zones
  - (v) Advance Pressure Management System- 20 selected KTAK DMZ's

Client: Syarikat Bekalan Air Selangor Sdn Bhd (SYABAS)

Consultant Ghazali Associates Sdn Bhd & Senie Associates Sdn Bhd

### 2010 - 2011

7. Work of Leak Detection & Water Flow Analysis in 8 Identified Zones in Mumbai. Client: Municipal Corporation of Greater Mumbai (MCGM)



2008 – 2010 Desanan Krishnan

8. Non Revenue Water (NRW) Control and Reduction Phase 3 Contract period of 76 months in 5 districts – Petaling, Klang, Hulu Langat, Sepang & Kuala Langat to achieve total leakage savings of 300 MLD comprising of 2 stages:Stage I - Establishment of 560 new DMZ during the first of 2.5 years. Stage II - Management, improvement and maintenance of established DMZ

Client: Syarikat Bekalan Air Selangor (SYABAS)

9. All works technically involved to set up one DMA's, PMZ (Pressure Management Zone) and Leakage analysis

#### 2002 - 2005

- 10. Pipe Maintenance Works in 3 Districts Petaling, Sepang and Kajang.– PUAS ( SYABAS )
- 11. Project Engineer For Project PUAS BHD
- 12. Project Value : 37.6 Million Replacing All AC Pipes to MS / DI Pipes around Gombak / Hulu Selangor
- 13. Ductile Iron Pipes laying and testing in Sabak Bernam
- 14. Laying of New HDPE Pipes in Kg. Merbau Indah , Sg. Buloh and Kg. Sg. Buaya, Banting, Selangor.
- 15. Specialist in HOT –Tapping (Under Pressure Tapping-Tee-Off) method Klang Valley, Malacca, Johor, Negeri Sembilan, Terengganu, Pahang & Perak.
- 16. Pipe Laying and Infrastructure Works (Drainage)
- 17. Maintenance Works Involving Reservoir



## **APPENDIX C**



Project Reference - Malaysia

INSITUFORM CIPP



	<u> </u>			
Completion	Sept, 2014 Completed Earlier than Scheduled	Feb,2014 Completed Earlier than Scheduled	Dec,2013 Completed Earlier than Scheduled	Dec,2013
unguan	21 KM	9 KM	1.2 KM	500m
Type of Work	1. CIPP 2. CCTV 3. Cleaning 4. Tophat 5. Obstruction Clearance	1. CIPP 2. CCTV 3. Cleaning 4. Tophat 5. Obstruction Clearance	1. CIPP 2. CCTV 3. Cleaning 4. Obstruction Clearance.	1. CIPP 2. CCTV 3. Cleaning 4. Obstruction Clearance.
PIMC or Consultant Type of Work	Indah Water Konsortium (IWK)	Indah Water Konsortium (IWK)	Indah Water Konsortium (IWK)	
Client	Jabatan Perkhidmatan Dan Pembetungan (JPP)	Jabatan Perkhidmatan Dan Pembetungan (JPP)	Malaysian Airports Holdings Bhd (MAHB)	Indah Water Konsortium (IWK)
Main-Contractor	Pembinaan Daya Tekad Sdn Bhd	Kejuruteraan Cempera Jaya Sdn Bhd	Elmibina Sdn Bhd	Visi Nusajaya Sdn Bhd
Project Title	Project NKEA Greater KL/KV (River of Life) Pakej G07- Kerja-Kerja Pemulihan Rangkaian Paip Pembetungan Awam Sedia Ada Di Wilayah Persekutuan Dan Selangor	Project NKEA Greater KL/KV (River of Life) Pakej G08- Kerja-Kerja Pemulihan Rangkaian Paip Pembetungan Awam Sedia Ada Di Wilayah Persekutuan Dan Selangor	KLIA 2 Project - Sewer Pipe Repair Works	Kajang 2 - Development Project
9 N	1 R R R S	2 8 8 8 8 8	m w	4
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## List of installations for the TYFO® FIBRWRAP® Systems (Malaysia)

<u>Project</u>	Country	Consultant	Type of Application	<u>Installat'n</u>
Kelana Parkview Condominium, Kuala Lumpur	Malaysia	Veritech Appraisal (M) Sdn. Bhd.	Beams strengthened for shear and flexure due to increased loading	Jun-97
Shell LPG Installation, Bintulu, Sarawak	Malaysia	Budi Waja Technologies	Repair to damaged columns for sub station	Mar-98
Plaza Olympia, Kuala Lumpur	Malaysia	Hewlett Packard Sdn Bhd	Strengthening of hollow core slabs with Tyfo UC laminates	May-02
Khoo Soon Lee Realty	Malaysia	BK Yeoh	Slab strengthening	Mar-04
Bo Jung Factory	Malaysia	Mega Greenview	Beams and slabs leakage repair.	Jun-04
Institute Kemahiran Belia Negara	Malaysia	RY Engineering Consultants	Beam strengthening	Aug-04
Codominium at Taman Desa, Kuala Lumpur	Malaysia	Abadi Man Nien	Landscape feature strengthening	Sep-04
Bank Building - Jln Wong Ah Fook, Johor Bahru	Malaysia	Jurutera Perunding Cekap	Slab and beam strengthening due to added loading	Jun-05
Ampang Business Park, Kuala Lumpur	Malaysia	GEA	Structural assessment, slab strengthening and crack repair	Jun-05
Condominium at Taman Desa	Malaysia	Abadi Man Nien	Repair to roof waterproofing	0ct-05
Five Star Hotel, Johor Bahru	Malaysia	BK Yeoh	Spalling concrete repair and corrosion protection to sewer treatment plant	Dec-05
Wawasan Perumahan (Johor) Sdn Bhd	Malaysia	BK Yeoh	Slab strengthening	Jan-06
Sabah Forestry Industries	Malaysia	Vertitech (M) Sdn Bhd	Slab strengthening	Feb-06
Sabah Port Ferry Jetty	Malaysia	Vertitech (M) Sdn Bhd	Repair and corrision protection to jetty piles	Feb-06
Lares Engineering	Malaysia	-	Strengthening of party wall of building, Petaling Jaya	Mar-06
Factory in Kluang, Johor Bahru	Malaysia	-	Corrosion of protection to steel frame of machine	Apr-06
Johor Land Berhad, Housing Scheme in Johor Bahru	Malaysia	BK Yeoh	Beams and slabs strengthening	May-06
Water Tank Construction Project, Kuala Rompin, Pahang	Malaysia	BW Perunding	Strengthening of elevated water tank beams	Jun-06
Heritage building assessment, Penang	Malaysia	RYO Sdn Bhd	Building Delapidation survey	Jun-06
Show House AT Johor Bahru	Malaysia	Johor Land Berhad	Beam and Slab Strengthening	Sep-06
PGRM - Cheras, KL	Malaysia	Jurutera Perunding Alphareka	Beam Strengthening	Oct-06
Perlis Sub-Station - Kawasan Perindustrian Jejawi, Perlis	Malaysia	Lares Engineering Sdn Bhd	Beam strengthening	Nov-06
Mutiara Hotel Johor Bahru	Malaysia	Mutiara Hotel JB	Steel Props to beams	Nov-06
Kota Belud Jetty - Sabah	Malaysia	Vertitech (M) Sdn Bhd	Timber piles strengthening	Dec-06
Inspection Work to TM2 Machine	Malaysia	Kimberly-Clark Products (M) Sdn. Bhd.	Corrosion Mitigation Inspection	8/Sep/07
MARITIME Centre, Putrajaya	Malaysia	P.J. Indah Sdn Bhd	Strengthening of RC Beam at Opening for M&E Services	15/Oct/07
ZEN Park	Malaysia	JPS Consulting Engineers Sdn Bhd	Beam (1B-4) Strengthening Works	17/Dec/07
Vertitech Sabah	Malaysia	Vertitech (Sabah) Sdn.Bhd	Material Supply & Consultancy	2/Feb/08
RHB Bank, Kulim	Malaysia	Vertitech (M) Sdn.Bhd	Material Supply & Consultancy	28/Feb/08
IBM Tower TTDI	Malaysia	Seaway Renovation Sdn Bhd	Slab Strengthening	27/Mar/08
Jln Gasing Drive, PJ	Malaysia	Just Events Sdn Bhd	Design & PE Endorsement	16/Apr/08





Section 13, PJ	Malaysia	KSD Consulting Engineers	Consultation Services	15/May/08
UMW Toyota Showroom	Malaysia	Vertitech (M) Sdn.Bhd	Settlement & Crack Monitoring	30/Jun/08
tang Berjuntai	Malaysia	Vertitech (M) Sdn.Bhd	Building Assessment & Consultancy	18/Jul/08
AIK HUA Building	Malaysia	Vertitech (M) Sdn.Bhd	Design Checking , Inspection & Erection Supervision	30/Aug/08
Ampang LRT & KL Monorail	Malaysia	Vertitech (M) Sdn.Bhd	Structural Assessment & Condition Monitoring	10/Sep/08
SIRIM Berhad	Malaysia	Vertitech (M) Sdn.Bhd	Condition Assessment Works & Consultancy Services	1/Dec/08
Kolej Yayasan UEM	Malaysia	Vertitech (M) Sdn.Bhd	Settlement Monitoring & Consultancy Services	1/Dec/08
KL Monorail line	Malaysia	Vertitech (M) Sdn.Bhd	Structural Coating Works	7/Jan/09
Unit No.5, USJ Subang Jaya	Malaysia	Sime Darby Property Berhad	Structural Strengthening Works	12/Jan/09
HSBC Johore Branch (Bukit Timbalan)	Malaysia	BK Yeoh	PE Inspection, Survey & Consultancy Services	31/Mar/09
Wisma MBSB, Damansara Height	Malaysia	Vertitech (M) Sdn.Bhd	Material Supply & Consultancy Services for Strengthening of Slab & Beam	21/Apr/09
PDRM, Shah Alam	Malaysia	Prima ACE Sdn Bhd	Strengthening of Beam	1/Jul/09
Phase 5, Tmn Sri Telok Emas, Melaka	Malaysia	HT SOO	Structural Repair of Sewerage Treatment Plant (STP)	22/Jul/09
HSBC Johore Branch (Bukit Timbalan)	Malaysia	BK Yeoh	To Construct a Rubble Pitching Wall to Repair Slope Failure	1/Aug/09
HSBC Johore Branch (Taman Molek)	Malaysia	BK Yeoh	PE Inspection, Survey & Consultancy Services	1/Sep/09
The Store Malaysia	Malaysia	HT SOO	PE Inspection, Survey & Consultancy Services	15/Sep/09
Babagon Dam, Penampang, Sabah	Malaysia	Vertitech (M) Sdn.Bhd	Repair & Protection to Spillway Concrete Surface	1/Oct/09
Wentel Building, Larkin, Johore	Malaysia	BK Yeoh	Repair & Fibrwrap Strengthening to External Parapet Wall	15/Oct/09
Agro Bank	Malaysia	Vertitech (M) Sdn.Bhd	Material Supply & Consultancy Services for Strengthening of Roof Beam	15/Dec/09
PERKIM Building, Jalan Ipoh, KL	Malaysia	HT SOO	Structural Assessment & Consultancy Services Works	1/Mar/10
PERKIM Building, Jalan Ipoh, KL	Malaysia	HT SOO	Design Construction of Wall Strengthening	1/Mar/10
HSBC Johore Branch (Taman Molek)	Malaysia	BK Yeoh	Structural Strengthening & Consultancy Services Works	5/Apr/10
CIMB Bank, Menara SBB Plaza Damansara	Malaysia	EDP Consulting Group Sdn Bhd	Structural Strengthening & Consultancy Services Works	13/Apr/10
The Store Malaysia HQ, Petaling Jaya	Malaysia	HT SOO	Structural Assessment, Concrete Repair & Strengthening Works	25/May/10
SMK Perempuan, Likas, Kota Kinabalu, Sabah	Malaysia	Vertitech (M) Sdn.Bhd	Material Supply & Consultancy Services	30/Jun/10
Paradise Memorial Park, Tanjung Rambutan	Malaysia	Vertitech (M) Sdn.Bhd	Condition Assessment Works & Consultancy Services	15/Jul/10
HSBC Melaka Branch	Malaysia	BK Yeoh	PE Inspection, Survey & Consultancy Services	26/Jul/10
Desa Cargill Sdn Bhd, Kota Kinabalu, Sabah	Malaysia	Vertitech (M) Sdn.Bhd	Condition Assessment Works & Consultancy Services	13/Aug/10
SMK Perempuan, Likas, Kota Kinabalu, Sabah	Malaysia	Vertitech (M) Sdn.Bhd	Material Supply & Consultancy Services	13/Aug/10
HSBC Johore Branch (Taman Nusa Bestari)	Malaysia	BK Yeoh	PE Inspection, Survey & Consultancy Services	16/Aug/10
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Menara LYL Petaling Jaya.	Malaysia	Scope International (M) Sdn Bhd	Strengthening Works	3/Sep/10
Excella Business Park Ampang, Kuala Lumpur	Malaysia	BK Yeoh	PE Inspection, Survey & Consultancy Services	23/Sep/10
Excella Business Park Ampang, Kuala Lumpur	Malaysia	BK Yeoh	PE Inspection, Survey & Consultancy Services	23/Sep/10
KINSABINA Kota Kinabalu, Sabah	Malaysia	Vertitech (M) Sdn.Bhd	Material Supply & Consultancy Services	22/Oct/10
The Store Malaysia Office Warehouse, PJ	Malaysia	HT SOO	Structural Assessment, Concrete Repair & Strengthening Works	13/Jan/11
The Store Malaysia Office Warehouse, PJ	Malaysia	HT SOO	Strengthening Works	28/Jan/11
Cargill Feed Sdn Bhd, Prai, Penang	Malaysia	Vertitech (M) Sdn.Bhd	Condition Assessment Works & Consultancy Services	15/Mar/11
Jing Long Shan Wan Fo Shih, Tokong Budha, Rwg	Malaysia		Project Management Services	1/Apr/11
Bank Negara, Jln Dato Onn, KL.	Malaysia	WT Combine Builders Sdn Bhd	Material Supply & PE Endorsement	4/Apr/11
Angkasa Impian 2 Condominium, KL	Malaysia	Angkasa Impian 2	Improvement of Surface Drainage of Tennis Court	29/Jun/11
Universiti Malaya, KL	Malaysia	Materials Testing Laboratory Sdn Bhd	Consultancy Services for Vibration Monitoring	1/Jul/11
Kenanga Wholesale City Pudu, KL	Malaysia	Binastra Construction (M) Sdn Bhd	Strengthening Works	26/Aug/11
Nokia Siemens KL Central	Malaysia	Seaway Renovation Sdn Bhd	Strengthening Works	12/Oct/11
Bangsar Shopping Centre, KL	Malaysia	BRDB Property Holdings Sdn Bhd	Strengthening Works	2/Nov/11
Viva Hotel, KL	Malaysia	Binastra Construction (M) Sdn Bhd	Strengthening Works	23/Nov/11
Bandar Baru Bangi	Malaysia	WT Combine Builders Sdn Bhd	Engineering Design Input - Rectification of Pad Footing	16/Jan/12
Viva Hotel, KL	Malaysia	Binastra Construction (M) Sdn Bhd	Strengthening of Structural Wall Opening	3/Feb/12
Plaza Medan Putra, KL	Malaysia	Perunding Rekamaju	Strengthening Works to Existing Reinforced Concrete Structures	8/Feb/12
Taman Melawati, KL	Malaysia	SGS (M) Sdn Bhd	Inspection and Infra Structure Laboratary Testing Services	6/Mar/12
MITC, Melaka	Malaysia	HT SOO	Strengthening of Columns in Zine A	16/Mar/12
Bangsar Shopping Centre, KL	Malaysia	BRDB Property Holdings Sdn Bhd	Strengthening Works	16/Apr/12
Muzium, Melaka	Malaysia	Pacific Food Products Sdn Bhd	Strengthening and Repair Works	2/May/12
The Store Malaysia Pudu Plaza, KL	Malaysia	HT SOO	Strengthening System to Beams and Slab	19/Jun/12
Bangsar Shopping Centre, KL	Malaysia	BRDB Property Holdings Sdn Bhd	Strengthening Works	4/Jul/12
Alliance Bank Building Bangsar, KL.	Malaysia	WT Combine Builders Sdn Bhd	Material Supply	9/Jul/12
Housing Project, Kajang	Malaysia	WT Combine Builders Sdn Bhd	Material Supply & PE Endorsement	2/Aug/12
Uptown 5, PJ	Malaysia	Materials Testing Laboratory Sdn Bhd	Consultancy Services for Vibration Monitoring	13/Oct/12
Eco Park, Setia Alam, Shah Alam	Malaysia	WT Combine Builders Sdn Bhd	Material Supply & PE Endorsement	13/Oct/12
Lot 918, 923 & 926 Kampung Cempaka	Malaysia	HT SOO	Method Statement, Building Servey and Delapidation Report Services	31/Jan/13
RHB Bank, Butterworth	Malaysia	HT SOO	Structural Assessment & PE Endorsement	21/Feb/13





RHB Bank, Klang	Malaysia	HT SOO	Structural Loading Diagnosis, Strengthening Work & PE Endorsement	23/Feb/13
RHB Bank, Teluk Intan	Malaysia	HT SOO	Consultancy Services for Vibration Monitoring	1/Mar/13
Jalan Lintas, KK	Malaysia	FYFE Borneo Sdn Bhd	Structural Strengthening	19/Mar/13
No. 25, Jalan Yap Kwan Seng	Malaysia	HT SOO	Strengthening of beams	26/Mar/13
Pusat Bandar Damansara	Malaysia	HT SOO	Strengthening Works	2/Apr/13
RHB Bank, Bagan Serai	Malaysia	HT SOO	Structural Sthrengthen and	8/May/13
Branch	·		Structure Loading Assessment	·
Reezna Engineering Sdn Bhd	Malaysia	HT SOO	RB211 Air Intake Chamber	3/Jun/13
Condominium Angkasa Impian	Malaysia	HT SOO	Carry Out A Visual and Stuctural Inspection	4/Jul/13
Pusat Bandar Damansara	Malaysia	HT SOO	Strengthening of Existing Pre- Stressed Slab Opening Work	18/Jul/13
Housing Project, Jalan Mustapha, JB	Malaysia	HT SOO	Consultancy Services	18/Jul/13
Bangi Phase 1 Project	Malaysia	WT Combine Builders Sdn Bhd	Material Supply	30/Jul/13
RHB Bank, Jalan Tun Razak Branch	Malaysia	HT SOO	Structural Inspection for Signage Structure	24/Sep/13
Sime Darby Medical Centre	Malaysia	WT Combine Builders S/B		30/Sep/13
Avenue 7, Bangsar South	Malaysia	HT SOO	Strengthening Works	11/Oct/13
Kuala Lumpur Rawang Food Industrial Park,	Malaysia	HT SOO	Strengthening Works	6/Nov/13
Selangor Wisma Gamuda, Kota Kemuning	Malaysia	HT SOO	Strengthening Works to Transfer Beam	11/Nov/13
RHB Bank, Tun H S Lee	Malaysia	HT SOO	PE Consultancy for Visual Inspection	20/Nov/13
Excella Business Park Ampang, Kuala Lumpur	Malaysia	Excella Business Park	Rectification Works	25/Nov/13
Kinrara Golf Resort Chalet	Malaysia	VST Cemerlang Sdn Bhd	Strengthening of Beams & Slabs	26/Nov/13
Bintang Mega Mall, MIRI	Malaysia	FYFE Borneo Sdn Bhd	Strengthening of Beams	20/Nov/13
Besut Setiu Agropolitan, Terengganu	Malaysia	Pembinaan SPK Sdn Bhd	Rectification Works - Waterproofing work to elevated RC watertank	4/Dec/13
Condominium Tanjung Bungah, Pulau Pinang	Malaysia	HT SOO	Strengthening of Beams	30/Dec/13
Bintang Mega Mall, MIRI	Malaysia	FYFE Borneo Sdn Bhd	Supply of Management of Site Work	2/Jan/14
Paragon Residence, Johor Bahru	Malaysia	HT SOO	Strengthening of Columns	16/Jan/14
HSBC Bank North Tower Kuala Lumpur	Malaysia	SGS (M) Sdn Bhd	Consultancy Services for Vibration Monitoring to Slab	3/Mar/14
Worker Training Institute, Cyberjaya	Malaysia	HT SOO	Strengthening Works	3/Mar/14
Twin Galaxy Building, Johor Bahru	Malaysia	HT SOO	Strengthening Works	24/Mar/14
Preciso Plastic Manufacturing - Penang	Malaysia	HT SOO	Professional Engineering Service	16/Apr/14
Lakeville Condominium Taman Wahyu	Malaysia	HT SOO	Strengthening Works	11/Apr/14
Carpark - Kemayan Square	Malaysia	HT SOO	Strengthening of Slab	15/Apr/14
MCT Tower, USJ	Malaysia	HT SOO	Strengthening of Beam	20/May/14
Tong Tor Development, Johor	Malaysia	HT SOO	Enlargement Beam	23/May/14
DBKL, Pasar Raja Bot (Chowkit)	Malaysia	Perwira Al-Shura Consulting	Rectification Works	23/Jun/14
OCBC Bank Lebuh Pantai P.	Malaysia	HT SOO	Professional Engineering	10/Jul/14
Pinang			Service	





Kayangan Depot Shah Alam, Selangor	Malaysia	YNY Consulting	Inspection Services	21/Jul/14
Offshore Works, Seligi Platform for Enquest	Malaysia	Kencana HL Sdn Bhd	Rectification Works	19/Aug/14
OCBC Bank Lebuh Pantai P. Pinang	Malaysia	HT SOO	Rectification Works	19/Aug/14
UTAR, Sg. Long	Malaysia	HT SOO	Strengthening of Transfer Beam for Shear	21/Aug/14
Twin Galaxy Building, Johor Bahru	Malaysia	HT SOO	Rectification Works	29/Oct/14
Maju Junction Plaza, KL	Malaysia	YNY Consulting	Professional Engineering Service	4/Nov/14
Seligi Platform	Malaysia	Sapura Kencana HL Sdn Bhd	Repair works	26/Jan/15
Bayan Baru, Penang	Malaysia	Frontier Structure Sdn Bhd	Concrete Crack Repair & Structural	21/Apr/15
Seligi Platform	Malaysia	Sapura Kencana HL Sdn Bhd	Strengthening to slab repair works	8/May/15
Structural Sthrengthening Works - Twin Galaxy, JB	Malaysia	LAL Engineering (M) Sdn Bhd	Structural strengthening works to column	23/May/15
Twin Galaxy, JB	Malaysia	LAL Engineering (M) Sdn Bhd	Strengthening column works	11/Jun/15
Twin Galaxy, JB	Malaysia	LAL Engineering (M) Sdn Bhd	Load Test	22/Jun/15
PE Services - MPAJ	Malaysia	Excella Business Park	PE inspection & assessment for DBKL	23/Jul/15
Seligi Platform	Malaysia	Sapura Kencana HL Sdn Bhd	Repair works	29/Jul/15
Seligi Platform	Malaysia	Sapura Kencana HL Sdn Bhd	Repair works	8/Sep/15
Vista Hill, Taiping	Malaysia	Tung Siew Yong Tractor Sdn Bhd	Strengthening works to beams using jacketing method	5/Sep/15
Medini, JB	Malaysia	Santarli Sdn Bhd	Strengthening works to beams	9/Sep/15
Texas, Melaka	INSTLUFORM CIPP - Malaysia	Texas Instruments	Sewer Pipe Rehabilitation Works	14/Sep/15
MDIS, JB	Malaysia	EMI Uptrend Builders Sdn Bhd	Structural strengthening works to beams	17/Sep/15
SMK Tmn Scientex	Malaysia	Synergy Goldtree Sdn Bhd		16/Oct/15
Mt. Erskine, Penang	Malaysia	VST Builders Sdn Bhd	Strengthening works to columns	16/Nov/15
EOS Plant, Teluk panglima Garang	Malaysia	Emeryoleo Specialties (M) Sdn Bhd	Plinth Refurbishment Work	19/Nov/15
Hotel at Ipoh, Perak	Malaysia		Repair and Strengthening of column & beams	17/Dec/15
Bangunan Herbarium at Taman Tasik Perdana KL	Malaysia	Usaha Perkasa Dagangan Sdn Bhd		17/Dec/15
Seligi Platform	Malaysia	Sapura Kencana HL Sdn Bhd	Repair works	4/Jan/16
Batu Berendam Melaka	Malaysia	Texas Instruments Sdn Bhd	Survey insepctions & recommendation for remedial to structural defects	8/Jan/16
Sentul Carpark	Malaysia	Strong Force (M) Sdn Bhd	Strengthening of structural slab	18/Jan/16
Bukit Raja Klang	INSTTUFORM CIPP - Malaysia	Visi Nusajaya Sdn Bhd	Sewer Pipe Rehabilitation Works	25/Feb/16
Iconic Hotel Pulau Pinang	Malaysia	Lucky 888 Sdn Bhd	Strengthening of structural column	7/Mar/16
Telok Panglima Garang	Malaysia	Emeryoleo Specialties (M) Sdn Bhd	Plinth Refurbishment Work	4/Mar/16
Bukit Rimau Shah Alam	Malaysia	Matahari Club House	Condition survey inspection and recommendation for remedial to walls	11/Mar/16



## List of Installations for the TYFO® FIBRWRAP® Systems (Singapore)

<u>Project</u>	<u>Country</u>	<u>Consultant</u>	Type of Application	Installation
Loyang Villas	Singapore	DE Consultants	Beam strengthening for shear and flexure	Jun-95
Chinese High School	Singapore	DE Consultants	Clock-tower wall strengthening against lateral wind loads	May-96
Tanjong Ria Condominium	Singapore	KTP Consultants	Beam and slab strengthening for shear and flexure	Jul-96
Tien Wah Press Factory	Singapore	DE Consultants	Beam and slab strengthening for shear and flexure	Jul-96
Tangling Regency Condominium	Singapore	DE Consultants	Beam and slab strengthening for shear and flexure	May-97
NTU Innovations Centre	Singapore	INDECO Consultants	Beam strengthening for shear and flexure due to removal of column	Jun-97
Hotel Rendezvous	Singapore	Tan Ee Ping and Partners	Beam, slab and column strengthening for axial, shear and flexure due to change of use. Brick wall strengthening for durability	Jun-97
NTU Lecture Theatre	Singapore	INDECO Consultants	Beam strengthening for shear and flexure due to increased loading	Dec-97
Lady Hill Hotel	Singapore	RSP Consultants	Slab strengthening for flexure due to low concrete grade	Dec-97
Avitech Centre	Singapore	E.J. Chan and Associates	Beam strengthening for shear and flexure	Jul-98
TT Distribution Centre	Singapore	BR Case Consultants	Beam strengthening for shear and flexure	Jul-98
Pearl's Hill Police HQ	Singapore	Kinhill Consultants	Slab and beam strengthening due to low concrete grade	Aug-98
King's Centre	Singapore	Steen Consultants	Strengthening of roof slab and beam due to change of design	Sep-98
King's Centre	Singapore	Steen Consultants	Beam and slab strengthening due to soil topping added	Dec-98
International Building	Singapore	Steen Consultants	Beam and column strengthening for flexure, shear and axial loads due to low concrete grade	Mar-99
China Square Development	Singapore	RSP Consultants	Beam and column strengthening due to soil settlement	Jun-99
Pan Pacific Hotel Basement Carpark	Singapore	EJ Chan Consulting Engineers	Beam strengthening due to increased dead & live loads	Jul-99
AeroLinks Logistic Warehouse	Singapore	M-Tech Consultants	Beam strengthening due to additional slab over void	Jul-99
Commercial Development at Robertson Quay	Singapore	Steen Consultants	Beam strengthening for flexure and shear	Aug-99
MayBank Building	Singapore	T.Y. Lin (SEA)	Column strengthening to increase in-situ strength to satisfy specification	Feb-00
Peninsular Hotel	Singapore	D.E. Consultants	Beam strengthening due to increase of load.	Apr-00
DSTA – Infocom Building at Science Park	Singapore	LBW Consultants	Slab strengthening due to cracking	May-00



Changi Naval Base, Singapore  Selerang Camp Multi Purpose Hall Ang Mo Kio MRT Station Cement Silo at Jurong Port Singapore  Hougang Emporium Residence at Lor Telok Kurau Raffels Hospital at Blanco Court Northland Primary School International Business Park College of Medicine Building, Singapore General Hospital Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Singapore Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, Singapore Rangoon Road Blk 677 (Betting Centre) Blk 512 NTUC at Bishan Singapore Singapore China Square, RSP Parcel Geylang Oringapore Singapore St. 13 Geylang Methodist Church Singapore	ST Engineering	Strengthening to concrete spun piles underwater for axial and shear enhancement Slab strengthening  Beam strengthening Strengthening of silo for controlled demolition Beam strengthening Beam and column strengthening Beam, slab and column strengthening Column enhancement Slab strengthening  Strengthening to deteriorated beam  Beam strengthening  Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening  Beam and slab strengthening  Beam and slab strengthening  Beam strengthening  Wall strengthening  Beam and slab strengthening	Aug-00  Oct-00  Oct-00  Nov-00  Nov-00  Nov-00  Apr-01  Apr-01  Jun-01  Jul-01  Aug-01  Aug-01  Aug-01  Oct-01
Purpose Hall Ang Mo Kio MRT Station Singapore Cement Silo at Jurong Port Singapore Hougang Emporium Singapore Residence at Lor Telok Singapore Kurau Raffels Hospital at Blanco Singapore Court Northland Primary School Singapore International Business Park Singapore 2 College of Medicine Singapore Building, Singapore General Hospital Zion Bible-Presbyterian Singapore Church Singapore Management Singapore University Sengkang LRT Singapore Society for the Physically Singapore Disabled Zhong Hua Primary School Singapore Khatib Camp Singapore United World College Singapore Geylang Chinese Methodist Singapore Church Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore NUS Nee Soon Camp (Blk 13, Singapore Rangoon Road Blk 677 Singapore Rangoon Road Blk 677 Singapore St. 13 Geylang Methodist Church Singapore China Square, RSP Parcel Singapore Singapore Singapore Singapore	EJ Consultants Tan EE Ping  DE Consultants DE Consultants Tan EE Ping  Engineers 9000 T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  ST Engineers RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Beam strengthening Strengthening of silo for controlled demolition Beam strengthening Beam and column strengthening Beam, slab and column strengthening Column enhancement Slab strengthening Strengthening to deteriorated beam  Beam strengthening Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Beam and slab strengthening Wall strengthening Wall strengthening	Oct-00 Oct-00 Nov-00 Nov-00 Nov-00 Nov-01 Mar-01 Apr-01  Apr-01  Jun-01  Jul-01  Aug-01  Aug-01  Aug-01
Ang Mo Kio MRT Station Cement Silo at Jurong Port Singapore Cement Silo at Jurong Port Singapore Residence at Lor Telok Kurau Raffels Hospital at Blanco Court Northland Primary School International Business Park Singapore College of Medicine Building, Singapore General Hospital Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Singapore Whatib Camp Singapore Singapore Singapore Singapore Whatib Camp Singapore United World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, Singapore NUS Nee Soon Camp (Blk 13, Singapore Rangoon Road Blk 677 (Betting Centre) Blk 512 NTUC at Bishan Singapore China Square, RSP Parcel Singapore Singapore Singapore Singapore Singapore Singapore	Tan EE Ping  DE Consultants DE Consultants Tan EE Ping  Engineers 9000 T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Strengthening of silo for controlled demolition Beam strengthening Beam and column strengthening Beam, slab and column strengthening Column enhancement Slab strengthening Strengthening to deteriorated beam Beam strengthening Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Beam and slab strengthening Wall strengthening Beam and slab strengthening	Oct-00  Nov-00  Nov-00  Nov-00  Feb-01  Mar-01  Apr-01  Jun-01  Jun-01  Jul-01  Aug-01  Aug-01  Aug-01
Cement Silo at Jurong Port Singapore  Hougang Emporium Singapore  Residence at Lor Telok Singapore  Kurau  Raffels Hospital at Blanco Singapore  Court  Northland Primary School Singapore  International Business Park Singapore  2  College of Medicine Singapore  Building, Singapore  General Hospital  Zion Bible-Presbyterian Singapore  Church  Singapore Management Singapore  University  Sengkang LRT Singapore  Society for the Physically Singapore  Disabled  Zhong Hua Primary School Singapore  Khatib Camp Singapore  United World College Singapore  Geylang Chinese Methodist Singapore  Church  Block FBA1 and FBA2 at Singapore  NUS  Nee Soon Camp (Blk 13, Singapore  NUS  Nee Soon Camp (Blk 13, Singapore  Rangoon Road Blk 677 Singapore  Rangoon Road Blk 677 Singapore  (Betting Centre)  Blk 512 NTUC at Bishan Singapore  China Square, RSP Parcel Singapore	Tan EE Ping  DE Consultants DE Consultants Tan EE Ping  Engineers 9000 T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Strengthening of silo for controlled demolition Beam strengthening Beam and column strengthening Beam, slab and column strengthening Column enhancement Slab strengthening Strengthening to deteriorated beam Beam strengthening Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Beam and slab strengthening Wall strengthening Beam and slab strengthening	Oct-00  Nov-00  Nov-00  Nov-00  Feb-01  Mar-01  Apr-01  Jun-01  Jun-01  Jul-01  Aug-01  Aug-01  Aug-01
Hougang Emporium Residence at Lor Telok Kurau Raffels Hospital at Blanco Court Northland Primary School International Business Park College of Medicine Building, Singapore General Hospital Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Singapore White World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, 13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 (Betting Centre) Blk 512 NTUC at Bishan Singapore China Square, RSP Parcel Geylang Methodist Church Singapore	DE Consultants DE Consultants DE Consultants Tan EE Ping Engineers 9000 T.Y. Lin (SEA) Murray-North  T.Y. Lin (SEA) T.Y. Lin (SEA) ST Engineers RSP Consultants Montgomery Watson RSP Consultants RSP Consultants EJ Consultants PWD Consultants	controlled demolition Beam strengthening Beam and column strengthening Beam, slab and column strengthening Column enhancement Slab strengthening  Strengthening to deteriorated beam  Beam strengthening  Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening  Beam and slab strengthening Wall strengthening	Nov-00 Nov-00 Nov-00 Nov-00 Feb-01 Mar-01 Apr-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
Residence at Lor Telok Kurau  Raffels Hospital at Blanco Court  Northland Primary School International Business Park 2  College of Medicine Building, Singapore General Hospital Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Singapore Khatib Camp Singapore United World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, Singapore Rangoon Road Blk 677 (Betting Centre) Blk 512 NTUC at Bishan Singapore China Square, RSP Parcel Gesingapore Singapore	DE Consultants  Tan EE Ping  Engineers 9000 T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Beam and column strengthening Beam, slab and column strengthening Column enhancement Slab strengthening Strengthening to deteriorated beam Beam strengthening Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Wall strengthening Wall strengthening	Nov-00 Nov-00 Feb-01 Mar-01 Apr-01 Apr-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
Kurau  Raffels Hospital at Blanco Singapore Court  Northland Primary School Singapore International Business Park 2  College of Medicine Singapore Building, Singapore General Hospital Zion Bible-Presbyterian Singapore Church Singapore Management Singapore University Sengkang LRT Singapore Society for the Physically Singapore Disabled Zhong Hua Primary School Singapore Khatib Camp Singapore United World College Singapore Geylang Chinese Methodist Singapore Church Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore Rangoon Road Blk 677 (Betting Centre) Blk 512 NTUC at Bishan Singapore China Square, RSP Parcel Geylang Methodist Church Singapore China Square, RSP Parcel Singapore Singapore Singapore Singapore	Tan EE Ping  Engineers 9000 T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	strengthening Beam, slab and column strengthening Column enhancement Slab strengthening Strengthening to deteriorated beam  Beam strengthening  Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Beam and slab strengthening Wall strengthening Beam strengthening Wall strengthening	Nov-00 Feb-01 Mar-01 Apr-01 Apr-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
Raffels Hospital at Blanco Court Northland Primary School International Business Park College of Medicine Building, Singapore General Hospital Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Zhong Hua Primary School Singapore Church Singapore Singapore Singapore Singapore Charch Singapore Singapore Charch Singapore Singapore Charch Singapore Singapore Charch Block FBA1 and FBA2 at Block FBA1 and FBA2 at Singapore Church Singapore Singapore Church Block FBA1 and FBA2 at Singapore Church Singapore Singapore Singapore Singapore Church Singapore Church Singapore China Square , RSP Parcel Singapore	Engineers 9000 T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Beam, slab and column strengthening Column enhancement Slab strengthening Strengthening to deteriorated beam Beam strengthening Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Wall strengthening Wall strengthening Beam and slab strengthening Wall strengthening Wall strengthening Beam strengthening	Feb-01 Mar-01 Apr-01 Apr-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
Northland Primary School Singapore International Business Park Singapore International Singapore Interna	T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Column enhancement Slab strengthening Strengthening to deteriorated beam  Beam strengthening  Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Wall strengthening Wall strengthening Beam and slab strengthening Wall strengthening Beam strengthening Beam strengthening	Mar-01 Apr-01 Apr-01 May-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
International Business Park  2 College of Medicine Building, Singapore General Hospital Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Zhong Hua Primary School Singapore Whatib Camp Singapore United World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore NUS Nee Soon Camp (Blk 13, Singapore Ren Ci Hospital Ren Ci Hospital Ren Ci Hospital Singapore Singapore Getting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel Singapore Singapore Singapore Singapore	T.Y. Lin (SEA)  Murray-North  T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Strengthening to deteriorated beam  Beam strengthening  Column and slab strengthening  Wall strengthening at 12  LRT stations  Column and beam strengthening  Column strengthening  Beam and slab strengthening  Wall strengthening  Wall strengthening  Beam strengthening	Apr-01 Apr-01 May-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
College of Medicine Building, Singapore General Hospital Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Singapore White World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, Singapore NUS Nee Soon Camp (Blk 13, Singapore Rangoon Road Blk 677 (Betting Centre) Blk 512 NTUC at Bishan Singapore China Square, RSP Parcel Geylang Methodist Church Singapore	T.Y. Lin (SEA)  T.Y. Lin (SEA)  ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	deteriorated beam  Beam strengthening  Column and slab strengthening  Wall strengthening at 12 LRT stations  Column and beam strengthening  Column strengthening  Beam and slab strengthening  Wall strengthening  Beam strengthening  Beam strengthening	Apr-01 May-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
Zion Bible-Presbyterian Church Singapore Management University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Zhong Hua Primary School Singapore Whatib Camp Singapore Whited World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, Singapore Rangoon Road Blk 677 Singapore Rangoon Road Blk 677 Singapore Singapore Retting Centre) Blk 512 NTUC at Bishan Singapore China Square , RSP Parcel Singapore Singapore Singapore	T.Y. Lin (SEA) ST Engineers RSP Consultants Montgomery Watson RSP Consultants RSP Consultants EJ Consultants PWD Consultants	Column and slab strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Beam and slab strengthening Wall strengthening Beam strengthening	May-01 Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
University Sengkang LRT Singapore Society for the Physically Disabled Zhong Hua Primary School Singapore Khatib Camp Singapore United World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Rangoon Road Blk 677 Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan St. 13 Geylang Methodist Church China Square, RSP Parcel Singapore Singapore Singapore Singapore	ST Engineers  RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	strengthening Wall strengthening at 12 LRT stations Column and beam strengthening Column strengthening Beam and slab strengthening Wall strengthening Beam strengthening	Jun-01 Jul-01 Aug-01 Aug-01 Aug-01
Society for the Physically Disabled Zhong Hua Primary School Zhong Hua Primary School Singapore  Khatib Camp Singapore  United World College Geylang Chinese Methodist Church Block FBA1 and FBA2 at NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Rangoon Road Blk 677 Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church China Square, RSP Parcel Singapore Singapore Singapore	RSP Consultants  Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	LRT stations Column and beam strengthening Column strengthening Beam and slab strengthening Wall strengthening Beam strengthening	Jul-01 Aug-01 Aug-01
Disabled Zhong Hua Primary School Singapore  Khatib Camp Singapore  United World College Singapore Geylang Chinese Methodist Singapore Church Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel Singapore	Montgomery Watson  RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	strengthening Column strengthening Beam and slab strengthening Wall strengthening Beam strengthening	Aug-01 Aug-01
Khatib Camp Singapore  United World College Singapore Geylang Chinese Methodist Singapore Church Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel G	RSP Consultants  RSP Consultants  EJ Consultants  PWD Consultants	Beam and slab strengthening Wall strengthening Beam strengthening	Aug-01
United World College Singapore Geylang Chinese Methodist Singapore Church Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel G	RSP Consultants EJ Consultants PWD Consultants	strengthening Wall strengthening Beam strengthening	Aug-01
Geylang Chinese Methodist Singapore Church Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel G	EJ Consultants PWD Consultants	Beam strengthening	
Church Block FBA1 and FBA2 at Singapore NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel G	PWD Consultants		Oct-01
NUS Nee Soon Camp (Blk 13, Singapore 13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel Singapore G		Beam strengthening	
13A) Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel Singapore G	BR Case Consultants		Oct-01
Ren Ci Hospital Singapore Rangoon Road Blk 677 Singapore (Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel Singapore G		Structural strengthening	Jan-02
(Betting Centre) Blk 512 NTUC at Bishan Singapore St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel Singapore G	RSP Consultants	Beam strengthening	Jan-02
St. 13 Geylang Methodist Church Singapore China Square , RSP Parcel Singapore G	DE Consultants	Structural strengthening	Feb-02
China Square , RSP Parcel Singapore G	Chan Chee Wah Consultants	Beam strengthening	Feb-02
G	EJ Consultants	Beam strengthening	Feb-02
	RSP Consultants	Beam and slab strengthening	May-02
	Tan Ee Ping Consultants	Column strengthening	Jun-02
Orchard Rd/Fort Canning Singapore Rd for YMCA	CS Consulting	Beam and slab strengthening	Jul-02
Woodlands Secondary Singapore School	CPG Consultants	Slab strengthening	Jul-02
NTUC No. 680 Upper Singapore Thomson Road	LBW Consultants	Beam strengthening	Aug-02
Majestic Theatre Singapore	RSP Consultants	Slab strengthening	Aug-02
Exxon Mobil Singapore	Jurong Consultants	Beam strengthening	Sep-02
10A Galistan Avenue Singapore	-		Oct-02
Northland Secondary Singapore		Bomanite concrete imprint and colour staining to existing driveway and apron	





DBS Bank	Singapore	Beca Carter Hollings & Ferner	Slab strengthening	Nov-02
Harbour Front Interchange Station - WTC	Singapore	Wan Soon Engineering	Underpinning works	Nov-02
Punggol Primary School	Singapore	Fong Consultant	Column and beam strengthening	Dec-02
Lorong Limau	Singapore	DE Consultants	Column strengthening	Dec-02
Waffles Slab at NUS	Singapore	CPG Consultants	Slab strengthening	Jan-03
1 Jupiter Road	Singapore	BK Consulting Engineers	Column strengthening	Jan-03
Blk 149 Sarum Road, Changi Airbase	Singapore	DSTA	Column strengthening	Feb-03
Tiong Bahru Plaza Shopping Mall	Singapore	RSP Consultants	Slab strengthening	Mar-03
Changi General Hospital (Multi Purpose Hall)	Singapore	CPG Consultants	Column strengthening	Mar-03
DTSS Tanah Merah	Singapore	Wan Soon Engineering	Grouting to Sandy Soil at Shaft Chamber	Apr-03
Blk 52, 54, 56 & 58 and Blk 62 & 64 at Upper Cross Street	Singapore	WTS Consulting Engineers	Beam and slab strengthening	Apr-03
Harbour Front Interchange Station - WTC	Singapore	Wan Soon Construction	Grouting and honeycomb repair	Apr-03
Singapore Changi Airport - Terminal 1	Singapore	Trans Equatorial Engineering	Prepacked grouting	Apr-03
DTSS Tanah Merah	Singapore	Wan Soon Engineering	Grouting to vertical shaft wall	Apr-03
Changi Meridien	Singapore	KTP Consultants	Column strengthening	May-03
Kranji Camp	Singapore	T.Y.Lin (SEA)	Column strengthening	May-03
Ngee Ann Polytechnic	Singapore	NPS Construction & Management	Water Leakage Repair	May-03
46 & 47 Mosque Street	Singapore	T P Seow Consultants	Beam and slab strengthening	May-03
CTE Tunnel Structure	Singapore	Land Transport Authority	Concrete repair	May-03
NUS Law Library	Singapore	CPG Consultants	Rectification to moisture problem	May-03
Westwood Condominium	Singapore	WTS Consulting Engineers	Beam strengthening	May-03
NUS Swimming Pool	Singapore	ECAS-EJ Consultants	Beam and column strengthening	May-03
21 Tanjong Pagar Road	Singapore	CKY Engineering Consultants	Beam, slab and column strengthening	Jun-03
The Trumps Condominium	Singapore	Meinhardt (Singapore)	Column strengthening	Jun-03
JTC Factory at 1200 Depot Road	Singapore	SMM	Column strengthening	Jul-03
Changi East - Phase III	Singapore	STAE	Repair to precast concrete beam of jetty wharves structure	Jul-03
Plaza Singapura	Singapore	T.Y.Lin (SEA)	Beam strengthening	Aug-03
Factory at Kian Teck Way	Singapore	Jurong Consultants	Beam and slab strengthening	Aug-03
Bartley Secondary School & Bedok View Secondary School	Singapore	CPG Consultants	Beam and column strengthening	Aug-03
Xin Min Secondary School	Singapore	CPG Consultants	Beam and slab strengthening	Sep-03
Ngee Ann Alumni Clubhouse	Singapore	Cericorn Consultants	Beam strengthening	Sep-03
High Street Centre	Singapore	ECAS-EJ Consultants	Beam strengthening	Sep-03
Singapore Chem-Con Pte	Singapore	MABA Engineering Consultant	Column strengthening	Oct-03
DTSS Tanah Merah	Singapore	Wan Soon Engineering	PU grouting leakage shaft wall	Nov-03
			Filling of voids into metal	Nov-03





Jurong Port	Singapore	Jurong Consultants	Port Wharves Piles strengthening	Nov-03
CHIJ Toa Payoh	Singapore	Babtie Asia	Beam, slab and column strengthening	Dec-03
Ang Mo Kio Avenue 5, Tech 2	Singapore	Jurong Consultants	Beam and column strengthening	Dec-03
Singapore Baptist Church	Singapore	-	Leakage repair	Dec-03
DTSS Tanah Merah	Singapore	Wan Soon Engineering	Drilling and gel grouting	Dec-03
Blk 107 Ang Mo Kio Avenue 4	Singapore	BK Consulting Engineers	Beam and slab strengthening	Dec-03
Harbour Front Interchange Station - WTC	Singapore	Wan Soon Engineering	Coring to existing tunnel	Jan-04
Harbour Front Interchange Station - WTC	Singapore	Wan Soon Engineering	Grouting to base slab	Jan-04
Jin Xing Warehouse	Singapore	T S Lee Consultant	Slab strengthening	Jan-04
Guangyang Secondary School	Singapore	CPG Consultants	Beam, slab and column strengthening	Jan-04
Wafer Fab at Ang Mo Kio	Singapore	SCE Consultants	Beam and slab strengthening	Feb-04
Shophouses at Balestier Road	Singapore	Fibrwrap Construction	Beam and slab strengthening	Feb-04
Changi Water Reclamation Plant	Singapore	CPG Consultants	Beam strengthening	Feb-04
King Edward Hall VII at College Road	Singapore	BK Consulting Engineers	Beam and slab strengthening	Feb-04
Pickering Road	Singapore	PEC Consultant	Wall strengthening	Mar-04
63 Lorong 4 Geylang	Singapore	S.H. Ng Consultants	Beam, slab and column strengthening	Mar-04
Church Of Ascension	Singapore	Maunsell Consultants	Beam, slab and column strengthening	Mar-04
Tampines Industrial	Singapore	Jurong Consultants	Slab strengthening	Apr-04
39 Gilstead Road	Singapore	BK Consulting Engineers	Beam strengthening	Apr-04
Blk 360C Sembawang	Singapore	CPG Consultants	Wall strengthening	Apr-04
No. 22 Steven Close	Singapore	GY Chow Consulting Engineers	Beam strengthening	Apr-04
Pier 21 @ Jurong Port Road	Singapore	SMM	Pier strengthening	May-04
Orchard Fountain Park	Singapore	WEB Structures	Beam strengthening	May-04
Riverhouse at Clarke Quay	Singapore	RSP Consultants	Beam strengthening (Timber structure)	May-04
Bukit Panjang Plaza	Singapore	SCE Consultants	Beam strengthening	May-04
China Square Substation Parcel G	Singapore	PEC Consultant	Wall strengthening	May-04
Marina Centre	Singapore	Meinhardt (Singapore)	Beam and column strengthening	May-04
288 Kenya Crescent	Singapore	BK Consulting Engineers	RC flat roof strengthening	Jun-04
Singapore American School	Singapore	RSP Consultants	Beam strengthening	Jun-04
Changi East - Phase III	Singapore	STAE	Repair of trencher of pier structure	Jun-04
NUS Lecture Theatre 9	Singapore	CPG Consultants	Slab strengthening	Jun-04
ADM Cocoa Pte Ltd at 342 Jalan Boon Lay	Singapore	Fong Consultant	Beam and slab repair	Jun-04
Blk 209 Upper Changi Road - Giant Hypermarket	Singapore	PK Project Consultants	Beam strengthening	Jul-04
Toa Payoh	Singapore	JPL Consultants	Beam strengthening	Jul-04
Clarke Quay (Block D)	Singapore	RSP Consultants	Beam strengthening	Jul-04
Kallang Place	Singapore	CE Engineering	Column/Pier strengthening	Jul-04
NTU Chinese Heritage Centre	Singapore	CPG Consultants	Structural strengthening	Jul-04
Singapore Management University City Campus	Singapore	Maunsell Consultants	Column strengthening	Jul-04
412 to 416 Serangoon Road	Singapore	Watt Engineering Consultants	Beam and column strengthening	Jul-04
40 Jalan Kakatua	Singapore	BK Consulting Engineers	Beam strengthening	Aug-04





Funan Centre	Singapore	RSP Consultants	strengthening Beam strengthening	Apr-05
Goodwood Park Hotel	Singapore	RSP Consultants	Column and beam	Apr-05
Blk 32 New Market Road	Singapore	Surbana Consultants	Strength enhancement of beams	Mar-05
Punggol East Contract 31	Singapore	Surbana Consultants	Strength enhancement of columns	Mar-05
Singapore Management University	Singapore	Maunsell Consultants	Beam and slab strengthening	Mar-05
Blk 126, #02-08 CNB	Singapore	<del>-</del>	Roof crack repair	Mar-05
to PIE (LTA ER104)				
Widening of KJE from BKE	Singapore	Parsons Brinckerhoff	Bridge strengthening	Mar-05
Ping Yi Secondary School	Singapore	CPG Consultants	Beam strengthening	Feb-05
Former Ford Factory	Singapore	CPG Consultants	Slab strengthening	Feb-05
Pasir Laba Camp	Singapore	Meinhardt (Singapore)	Column strengthening	Feb-05
Glentrees Condominium at Mount Sinai Lane	Singapore	MKPL Architects	Repair to culvert drain	Jan-05
		Engineers		
48 Kismis Avenue	Singapore	WTS Consulting	Beam strengthening	Jan-05
30 Jalan Layang Layang	Singapore	BK Consulting Engineers	Beam strengthening	Jan-05
Changi Prison	Singapore	CPG Consultants	Corrosion protection	Dec-04
Jo Chulli Noau	Sirigapore	Consultants	Deam suchguidhlig	Dec-04
56 Chulin Road	Singapore Singapore	Parsons Brinckerhoff Lim Kim Cheong	Column strengthening Beam strengthening	Dec-04 Dec-04
101 Kallang Way 3 Macdonald House	Singapore	Jurong Consultants	Beam and column repair	Dec-04 Dec-04
School	Cingonoro	lurana Canaciltanta	strengthening	Doc 04
Anderson Secondary	Singapore	CPG Consultants	Beam and column	Dec-04
Boon Lay Primary School	Singapore	CPG Consultants	Beam, slab and column strengthening	Nov-04
Upgrading of Bridges at 11 locations (LTA RD 111)	Singapore	Parsons Brinckerhoff	Bridge strengthening	Nov-04
locations (LTA RD 107)	<b>.</b>			
Upgrading of Bridges at 8	Singapore	Lee & Lee Consultants	Bridge strengthening	Nov-04
25 Oriole Crescent	Singapore	Alpha 21 Consultants	Structural investigation	Nov-04
	Jiiigapoio	Partnership	Co.dim of originoring	.,57 07
Ang Mo Kio Tech Place II	Singapore	Ronnie & Koh	Column strengthening	Nov-04
NUS Link Bridge	Singapore	CPG Consultants	Beam strengthening	Nov-04
Natury Flaza	Siriyapure	Consultants	Deam suchgulerling	1107-04
Katong Plaza	Singapore	LBS Engineering	Beam strengthening	Nov-04
114A Desker Road	Singapore	Li idea i oliit	Beam repair	Oct-04
Sembawang 9 Sennett Place	Singapore	El Idea Point	Beam repair	Oct-04
No.35 Jalan Lengkok	Singapore	CS Consulting Engineers	Beam strengthening	Oct-04
3 Taman Sireh	Singapore	BK Consulting Engineers	Column strengthening	Oct-04
Khatib Camp	Singapore	SM1 Consulting	Beam and slab strengthening	Oct-04
No. 1 to 8 Hastings Road	Singapore	SMS Consulting Engineers	Slab strengthening	Sep-04
Bedok View Secondary School	Singapore	CPG Consultants	Slab strengthening and water barriers	Sep-04
• •		Partnership		•
74 Binjai Park Century Square	Singapore Singapore	Maunsell Consultants Ronnie & Koh	Slab strengthening Beam and slab strengthening	Sep-04 Sep-04
74 Pinioi Pork			·	_
Bukit Timah 42 Jalan Jarak	Singapore	BK Consulting Engineers	strengthening Slab repair	Aug-04
Singapore Turf Club @	Singapore	DE Consultants	Beam, slab and column	Aug-04
Draycott Clubhouse at 4 Draycott Park	Singapore	RSP Consultants	Column strengthening	Aug-04
(Clock Tower)	Singapore	Partnership		Aug-04
Singapore General Hospital				





ST Microelectronics AMK   Singapore   SCE Consultants   Slab strengthening   May-05	Contract JPPL/EPM/T/03/2005 - J13 to J19	Singapore	Jurong Consultants	Underdeck repair	Apr-05
ST Microelectronics AMK Singapore SCE Consultants Slab strengthening May-05 (SE Novena Medical Centre Singapore Upgrading of Bridges at 7 Singapore Incentions (LTA RD 113) Singapore Beaca Carter Hollings & Ferrer Florations (LTA RD 113) Singapore Singapore Beaca Carter Hollings & Ferrer Florations (LTA RD 113) Singapore Singapore Milleniums Consultants Strengthening May-05 (Timber structure) May-05 (Timbe		Singapore	RN & Associates		May-05
Upgrading of Bridges at 7 (clearing)         Singapore Femer         Beca Carter Hollings & Femer         Bridge strengthening         May-05 (clearing)           Tien Hock Kheng Temple         Singapore         Milleniums Consultants (Timber structure)         Beam strengthening         May-05 (Timber structure)           Pinnacle at Duxton         Singapore         Surbana Consultants (Strength enhancement of columns         May-05 (June)           Building Improvement to Void Deck (Contract 6)         Singapore         Surbana Consultants         Strength enhancement of columns         May-05 (June)           Clarke Quay (Block C)         Singapore         Singapore         Surbana Consultants         Beam, slab and column         Jun-05 (June)           Sengkang Neighbourhood 2 Contract 35         Singapore         Surbana Consultants         Strength enhancement of columns         Jun-05 (June)           Seletar Camp         Singapore         Surbana Consultants         Strength enhancement of columns         Jun-05 (June)           Popular Bookstore at Bras Basah Complex         Singapore         Singapore         BK Consulting Engineers         Spalling concrete repair         Jul-05           Patter Payor Central Payor Central Payor Central Payor Can Copytron         Singapore         Singapore         BK Consultants         Beam and column         Aug-05           Building, Eunos Avenue 8A         Singapor		Singapore	SCE Consultants		May-05
Femer   Feme	Novena Medical Centre	Singapore	KTP Consultants	Column strengthening	May-05
Tien Hock Kheng Temple Singapore Milleniums Consultants Beam strengthening (Timber structure) Pinnacle at Duxton Singapore Surbana Consultants Strength enhancement of columns Building Improvement to Void Deck (Contract 6) 22 Handy Road Singapore CS Consulting Engineers CS Consultants Strength enhancement of columns 22 Handy Road Singapore CS Consultants Strength enhancement of columns 23 Handy More Strength enhancement of columns 24 Handy More Strength enhancement of columns 25 Handy More Strength enhancement of columns 26 Handy More Strength enhancement of columns 27 Contract 35 Singapore Surbana Consultants Beam and column Jun-05 strengthening 28 Handy More Strength enhancement of columns 29 Contract 35 Singapore Surbana Consultants Strengthening Strength enhancement of columns 29 Strength enhancement of Surbana Consultants Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Spalling concrete repair Jul-05 hearns and slabs 20 Handy More Strengthening Spalling Concrete repair Jul-05 hearns and slabs 20 Handy More Strengthening Spalling Concrete repair Jul-05 hearns and slabs 20 Handy More Spalling Concrete repair Jul-05 hearns and slabs 20 Handy More Spalling Concrete repair Jul-05 hearns and slabs 20 Handy More Spalling Concrete repair Jul-05 hearns and slabs 20 Handy More Spalling Concrete repair Jul-05 hearns and slabs 20 Handy More Spalling Concrete repair Jul-05 hearns and slabs strengthening Sec Consultants Strengthening Sec Consultants Strengthening Sec More More More More More More More More	Upgrading of Bridges at 7		Beca Carter Hollings &		
Building Improvement to Void Deck (Contract 6)  Singapore  Surbana Consultants  Strength enhancement of columns  Strength enhancement of columns  Beam, slab and column Jun-05  strengthening  Sengkang Neighbourhood  Singapore  Singapore  Surbana Consultants  Strength enhancement of columns  Strength enhancement of Jun-05  strengthening  Sengkang Neighbourhood  Singapore  Surbana Consultants  Strength enhancement of Jun-05  Strength enhancement of Strength enhancement	Tien Hock Kheng Temple	Singapore	Milleniums Consultants		May-05
Void Deck (Contract 6)  22 Handy Road  Singapore  CS Consulting Engineers  Beam, slab and column  Strengthening  Sengkang Neighbourhood  25 Contract 35  Bik 218 Ang Mo Kio  Avenue 1-Refuse Area  Seletar Camp  Singapore  Singapore  Surbana Consultants  Strength enhancement of columns  Strengthening  Strength enhancement of columns  Strengthening  Strength enhancement of columns  Strength enhancement of columns  Strengthening  Strength enhancement of columns  Strengthening  Seletar Camp  Singapore  BK Consulting Engineers  Spalling concrete repair  Jul-05  Partnership  Strengthening  Aug-05  Bik 177 Toa Payoh Central  Singapore  BK Consultants  Strengthening  Aug-05  Bik 177 Toa Payoh Central  Singapore  BK Consultants  Strengthening  Aug-05  Sports Complex & General Advance  West Street 93  Sports Complex & General Advance  We	Pinnacle at Duxton	Singapore	Surbana Consultants	3	May-05
Strengthening   Strengthenin		Singapore	Surbana Consultants		May-05
Sengkang Neighbourhood 2 Contract 35 Sengkang Neighbourhood 2 Contract 35 Silk 218 Ang Mo Kio Singapore Surbana Consultants Strength enhancement of columns Silk 218 Ang Mo Kio Singapore Surbana Consultants Strength enhancement of beams and slabs Seletar Camp Singapore BK Consulting Engineers Spalling concrete repair Jul-05 Seletar Camp Singapore BK Consulting Engineers Spalling concrete repair Jul-05 Seasah Complex Singapore Science Consultants Beam stengthening Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Science Strengthening Science Strengthening Science Science Strengthening Science	22 Handy Road	Singapore	CS Consulting Engineers	-	Jun-05
2 Contract 35 Bik 218 Ang Mo Kio Avenue 1-Refuse Area Singapore Surbana Consultants Stregth enhancement of beams and slabs Seletar Camp Singapore BK Consulting Engineers Spalling concrete repair Jul-05 Popular Bookstore at Bras Basah Complex Partnership Bukit Panjang Plaza Singapore Bukit Panjang Ring Singapore Bar Consultants Strengthening Seam and column Aug-05 Streening Beam and slab strengthening Sep-05 Beam strengthening Sep-05 Beam strengthening Sep-05 Sep-05 Structural Strengthening Sep-05 Sep-05 Structural Strengthening Sep-05 Beam strengthening Sep-0	Clarke Quay (Block C)	Singapore	RSP Consultants		Jun-05
Avenue 1-Refuse Area  Seletar Camp Singapore BK Consulting Engineers Spalling concrete repair Jul-05  Popular Bookstore at Bras Basah Complex Partnership Bukit Panjang Plaza Singapore Bik 177 Toa Payoh Central Jul-05  Boarn and column Aug-05  Bik 177 Toa Payoh Central Jul-05  Beam and column Aug-05  Beam and slabs strengthening Aug-05  Beam and slab strengthening Au		Singapore	Surbana Consultants		Jun-05
Seletar Camp Singapore BK Consulting Engineers Spalling concrete repair Jul-05  Popular Bookstore at Bras Basah Complex Partnership Strengthening Strengthening Singapore Partnership Strengthening Strengthening Singapore Partnership Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Singapore Partnership Strengthening Strengthening Aug-05 Singapore Partnership Singapore Partnership Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Strengthening Partnership Sports Complex & Singapore Partnership Sports Complex & Singapore Partnership Sports Complex & Singapore Partnership Strengthening Sep-05 Strengthening Strengthening Strengthening Sep-05 Strengthening Strengthening Sep-05 Strengthening Strengthening Sep-05 Strengthening Strengthening Sep-05 Structural Strengthenin	Avenue 1-Refuse Area	Singapore			Jul-05
Basah Complex Bukit Panjang Plaza Singapore Bukit Panjang Plaza Singapore Bukit Panjang Plaza Singapore Bik 177 Toa Payoh Central #01-124 & 126 Consultants Singapore Bik Consulting Engineers Bik Consultants Beam and column Aug-05 Beam and column Beam and column Aug-05 Beam and column Beam and slab strengthening Sep-05 Beam strengthening Sep-05 Beam strengthening Sep-05 Beam Structural Strengthening Sep-05 Bik Consultants Singapore Beam strengthening Sep-05 Bik Consultants Singapore Beam strengthening Sep-05 Bik Consultants Singapore Beam strengthening Sep-05 Beam and slab strengthening Sep-05 Beam a	Seletar Camp	0.	BK Consulting Engineers		Jul-05
Bukit Panjang Plaza Singapore SCE Consultants Beam strengthening Aug-05 Blk 177 Toa Payoh Central Singapore HS Engineering Beam and column Aug-05 Hou-124 & 126 Consultants strengthening Strengthening Strengthening Factory at Copytron Sulgapore Building, Eunos Avenue 8A  Hougang Mall Singapore Ronnie & Koh Beam and slab strengthening Sep-05 Partnership Partnership  Sports Complex & Singapore Parsons Brinckerhoff Beam strengthening Sep-05 development at Jurong West Street 93  Woodlands Industrial Park Singapore Alexandra Road #01-18/19 White Sand Singapore Partnership FS Market Street Singapore WEB Structures Column strengthening Sep-05 Branch Singapore Parsons Brinckerhoff Structural strengthening Sep-05 Branch Singapore Ronnie & Koh Stab strengthening Sep-05 Branch Singapore Parsons Brinckerhoff Structural strengthening Sep-05 Branch Singapore Parsons Brinckerhoff Beam strengthening Sep-05 Branch Singapore Parsons Brinckerhoff Structural strengthening Sep-05 Branch Singapore Parsons Brinckerhoff Beam strengthening Sep-05 Branch Singapore Surbana Consultants Slab strengthening Sep-05 Branch Singapore Surbana Consultants Strength enhancement of columns Sep-05 Branch Singapore Surbana Consultants Strength enhancement of Columns Sep-05 Branch Singapore Singapore CPG Consultants Strengthening Oct-05 Branch Singapore Partnership Branch Singapore CPG Consultants Scolumns Strengthening Oct-05 Branch Singapore CPG Consultants Scolumns Strengthening Oct-05 Branch Singapore CPG Consultants Scolumn and beam Oct-05 Branch Singapore CPG Consultants Strengthening Oct-0		Singapore		•	Jul-05
#201-124 & 126 Factory at Copytron Building, Eunos Avenue 8A  Hougang Mall Singapore Ronnie & Koh Partnership Sports Complex & Singapore West Street 93  Woodlands Industrial Park E8 Ford Showroom at 305 Singapore Ronnie & Koh Singapore BY-Consultants Wall strengthening Sep-05  ARUP Singapore Ronnie & Koh Slab strengthening Sep-05  ARUP Singapore Ronnie & Koh Slab strengthening Sep-05  Alexandra Road #10-118/19 White Sand Singapore BY-Singapore By-O5	Bukit Panjang Plaza	Singapore	SCE Consultants	Beam strengthening	Aug-05
Building, Eunos Avenue 8A  Hougang Mall Singapore Ronnie & Koh Partnership Sports Complex & Singapore Vartnership Singapore Parsons Brinckerhoff Beam strengthening Sep-05 development at Jurrong West Street 93  Woodlands Industrial Park E8 Ford Showroom at 305 Singapore ARUP Singapore Beam strengthening Sep-05 Alexandra Road #01-18/19 White Sand Singapore Ronnie & Koh Slab strengthening Sep-05 Shopping Centre Partnership 55 Market Street Singapore WEB Structures Column strengthening Sep-05 HSBC at Holland Village Singapore Parsons Brinckerhoff Structural strengthening Sep-05 Sep-05 Road  Funan The IT Mall Singapore RSP Consultants Beam and slab strengthening Sep-05 Sengkang Neighbourhood 2 Contract 34 Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood 2 Contract 36  Bras Basah Complex at Blk Singapore Ronnie & Koh Column strengthening Oct-05 Codwood Park Hotel Singapore CPG Consultants Column strengthening CPG Consultants Column strengthening Sep-05 Columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore CPG Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore CPG Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore CPG Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore CPG Consultants Column strengthening Oct-05 Columns Strengthening Sep-05 COlumn Sep-05 COLUMN STRENGTH SEP-05 COLUMN STRENGTH SEP-05 COLUMN STRENG		Singapore			Aug-05
Sports Complex & Singapore development at Jurong West Street 93  Woodlands Industrial Park Singapore ARUP Singapore Beam strengthening Sep-05  E8  Ford Showroom at 305 Singapore ARUP Singapore Beam strengthening Sep-05  Alexandra Road Singapore Ronnie & Koh Slab strengthening Sep-05  Moodlands Industrial Park Singapore ARUP Singapore Beam strengthening Sep-05  Alexandra Road Singapore Ronnie & Koh Slab strengthening Sep-05  Moodlands Industrial Park Singapore ARUP Singapore Beam strengthening Sep-05  Alexandra Road Singapore Ronnie & Koh Slab strengthening Sep-05  More Street Singapore WEB Structures Column strengthening Sep-05  HSBC at Holland Village Singapore Parsons Brinckerhoff Structural strengthening Sep-05  Branch Structural Strengthening Sep-05  Branch Singapore Parsons Brinckerhoff Beam strengthening Sep-05  Centre at North Bridge Road Funan The IT Mall Singapore RSP Consultants Slab strengthening Sep-05  Level 1 & 2 of Helios, Singapore CPG Consultants Beam and slab strengthening Sep-05  Bengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05  Contract 34 Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05  Contract 36 Singapore Ronnie & Koh Column strengthening Oct-05  Contract 36 Singapore CPG Consultants Column strengthening Oct-05  Sangkang Neighbourhood Singapore CPG Consultants Column strengthening Oct-05  Goodwood Park Hotel Singapore CPG Consultants Column and beam Oct-05  Goodwood Park Hotel Singapore CPG Consultants Strengthening Nov-05  Road	Factory at Copytron Building, Eunos Avenue 8A	Singapore	BK Consulting Engineers	RC slab strengthening	Aug-05
development at Jurong       West Street 93       Woodlands Industrial Park     Singapore     JPL Consultants     Wall strengthening     Sep-05       E8       Ford Showroom at 305     Singapore     ARUP Singapore     Beam strengthening     Sep-05       Alexandra Road     Singapore     Ronnie & Koh     Slab strengthening     Sep-05       Alexandra White Sand     Singapore     Ronnie & Koh     Slab strengthening     Sep-05       Shopping Centre     Partnership     Structural strengthening     Sep-05       HSBC at Holland Village     Singapore     Parsons Brinckerhoff     Structural strengthening     Sep-05       HSBC at Holland Village     Singapore     Parsons Brinckerhoff     Beam strengthening     Sep-05       Branch     Raffles City Shopping     Singapore     Parsons Brinckerhoff     Beam strengthening     Sep-05       Centre at North Bridge     Road     Singapore     RSP Consultants     Slab strengthening     Sep-05       Level 1 & 2 of Helios, Bingapore     Singapore     RSP Consultants     Slab strengthening     Sep-05       Level 1 & 2 of Helios, Bingapore     Singapore     Surbana Consultants     Strength enhancement of columns     Sep-05       Sengkang Neighbourhood 2 Contract 34     Singapore     Surbana Consultants     Strength enhancement of columns	Hougang Mall	Singapore		Beam and slab strengthening	Sep-05
E8 Ford Showroom at 305 Singapore ARUP Singapore Beam strengthening Sep-05 Alexandra Road W101-18/19 White Sand Singapore Partnership  55 Market Street Singapore WEB Structures Column strengthening Sep-05 HSBC at Holland Village Singapore Parsons Brinckerhoff Structural strengthening Sep-05 Branch Raffles City Shopping Singapore Parsons Brinckerhoff Beam strengthening Sep-05 Centre at North Bridge Road Funan The IT Mall Singapore RSP Consultants Slab strengthening Sep-05 Beam and slab strengthening Sep-05 Everla & 2 of Helios, Singapore CPG Consultants Strengthening Sep-05 Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of columns Sengkang Neighbourhood Singapore CPG Consultants Strength enhancement of columns Strength enhancement of columns Strength enhancement of columns Columns Strengthening Oct-05 Contract 36 Sangapore CPG Consultants Column strengthening Oct-05 Contract 36 Singapore CPG Consultants Column strengthening Oct-05 Codowood Park Hotel Singapore CPG Consultants Column and beam Oct-05 Goodwood Park Hotel Singapore GCE Consultants Beam strengthening Nov-05 Road	development at Jurong	Singapore	Parsons Brinckerhoff	Beam strengthening	Sep-05
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Shopping Centre 55 Market Street Singapore WEB Structures Column strengthening Sep-05 HSBC at Holland Village Singapore Parsons Brinckerhoff Structural strengthening Sep-05 Branch Saffles City Shopping Singapore Parsons Brinckerhoff Beam strengthening Sep-05 Centre at North Bridge Road Funan The IT Mall Singapore RSP Consultants Slab strengthening Sep-05 Level 1 & 2 of Helios, Singapore CPG Consultants Beam and slab strengthening Sep-05 Singapore Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of Sep-05 Columns Sengkang Neighbourhood Singapore Singapore Columns Sengkang Neighbourhood Singapore Singapore Sould Singapore CPG Consultants Strength enhancement of Column strengthening Oct-05 Columns Sengkang Neighbourhood Singapore CPG Consultants Column strengthening Oct-05 Codowood Park Hotel Singapore CPG Consultants Strengthening Singapore CPG Consultants Strengthening Singapore Si		Singapore	ARUP Singapore	Beam strengthening	Sep-05
HSBC at Holland Village Branch Raffles City Shopping Centre at North Bridge Road Funan The IT Mall Level 1 & 2 of Helios, Biopolis Sengkang Neighbourhood 2 Contract 34 Sengkang Neighbourhood 2 Contract 36 Bras Basah Complex at Blk Bras Basah Complex at Blk 231 Bain Street Innova Junior College Goodwood Park Hotel Goodwood Park Hotel Road Singapore Singapore RSP Consultants Serinckerhoff Beam strengthening Sep-05 Sep-05 Sep-05 Sep-05 Sep-05 Surbana Consultants Strength enhancement of columns Sep-05 Sep-05 Column strengthening Oct-05 Cantract 36 Singapore CPG Consultants Strength enhancement of columns Sep-05 Column strengthening Oct-05 Column strengthening Oct-05 Coscolumns Singapore CPG Consultants Strength enhancement of columns Sep-05 Column strengthening Oct-05 Column strengthening Oct-05 Singapore CPG Consultants Solumn strengthening Oct-05 Solumn and beam Oct-05 Strengthening Singapore Oct-05 Solumn and beam Singapore Singapore CPG Consultants Sep-05 CPG Consultants Sep-05 COlumn and beam Oct-05 Solumn and beam Oct-05 Solumn and beam		Singapore		Slab strengthening	Sep-05
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Centre at North Bridge Road  Funan The IT Mall Singapore RSP Consultants Slab strengthening Sep-05 Level 1 & 2 of Helios, Singapore CPG Consultants Beam and slab strengthening Sep-05 Biopolis  Sengkang Neighbourhood 2 Contract 34  Sengkang Neighbourhood Singapore Surbana Consultants Strength enhancement of columns  Sengkang Neighbourhood 2 Contract 36  Sangapore Surbana Consultants Strength enhancement of columns  Strength enhancement of Sep-05 Columns  Sep-05 Columns  Ronnie & Koh Column strengthening Oct-05 Consultants Column strengthening Oct-05 Codwood Park Hotel Singapore CPG Consultants Column and beam Oct-05 (New Foyer)  Blk 240 Bukit Panjang Ring Singapore GCE Consultants Beam strengthening Nov-05 Road	_	Singapore	Parsons Brinckerhoff	3 3	Sep-05
Level 1 & 2 of Helios, BiopolisSingaporeCPG ConsultantsBeam and slab strengtheningSep-05Sengkang Neighbourhood 2 Contract 34Singapore SingaporeSurbana Consultants Surbana ConsultantsStrength enhancement of columnsSep-05Sengkang Neighbourhood 2 Contract 36Singapore Faras Basah Complex at Blk 231 Bain StreetSingapore PartnershipRonnie & Koh 	Centre at North Bridge	Singapore	Parsons Brinckerhoff	Beam strengthening	Sep-05
Level 1 & 2 of Helios, BiopolisSingaporeCPG ConsultantsBeam and slab strengtheningSep-05Sengkang Neighbourhood 2 Contract 34Singapore SingaporeSurbana Consultants Surbana ConsultantsStrength enhancement of columnsSep-05Sengkang Neighbourhood 2 Contract 36Singapore Faras Basah Complex at Blk 231 Bain StreetSingapore PartnershipRonnie & Koh PartnershipColumn strengthening CPG ConsultantsOct-05Innova Junior College Goodwood Park Hotel (New Foyer)Singapore SingaporeCPG Consulting Engineers CS Consulting Engineers StrengtheningColumn and beam StrengtheningOct-05Blk 240 Bukit Panjang Ring RoadSingaporeGCE ConsultantsBeam strengtheningNov-05	Funan The IT Mall	Singapore	RSP Consultants	Slab strengthening	Sep-05
Sengkang Neighbourhood 2 Contract 34 Singapore Surbana Consultants Strength enhancement of columns  Sengkang Neighbourhood 2 Contract 36 Singapore Surbana Consultants Strength enhancement of columns  Bras Basah Complex at Blk 231 Bain Street Partnership  Innova Junior College Singapore CPG Consultants Column strengthening Oct-05  Goodwood Park Hotel Singapore CS Consulting Engineers (New Foyer)  Blk 240 Bukit Panjang Ring Road  Singapore GCE Consultants Beam strengthening Nov-05  GOE Consultants Beam strengthening Nov-05	Level 1 & 2 of Helios,				
Sengkang Neighbourhood 2 Contract 36 Singapore Surbana Consultants Strength enhancement of columns  Bras Basah Complex at Blk 231 Bain Street Partnership  Innova Junior College Singapore CPG Consultants Column strengthening Oct-05  Goodwood Park Hotel Singapore CS Consulting Engineers (New Foyer)  Blk 240 Bukit Panjang Ring Road  Singapore GCE Consultants Beam strengthening Nov-05  GCE Consultants Beam strengthening Nov-05	Sengkang Neighbourhood	Singapore	Surbana Consultants		Sep-05
Bras Basah Complex at Blk 231 Bain Street Partnership  Innova Junior College Singapore CPG Consultants Column strengthening Oct-05 Goodwood Park Hotel Singapore CS Consulting Engineers (New Foyer)  Blk 240 Bukit Panjang Ring Road  Singapore GCE Consultants Beam strengthening Nov-05 Road	Sengkang Neighbourhood	Singapore	Surbana Consultants	Strength enhancement of	Sep-05
Innova Junior College     Singapore     CPG Consultants     Column strengthening     Oct-05       Goodwood Park Hotel (New Foyer)     Singapore     CS Consulting Engineers strengthening     Column and beam strengthening     Oct-05       Blk 240 Bukit Panjang Ring Road     Singapore     GCE Consultants     Beam strengthening     Nov-05	Bras Basah Complex at Blk	Singapore		Column strengthening	Oct-05
Goodwood Park Hotel Singapore CS Consulting Engineers Column and beam Strengthening  Blk 240 Bukit Panjang Ring Ring Road CE Consultants Beam strengthening Nov-05		Singapore		Column strengthening	Oct-05
Blk 240 Bukit Panjang Ring Singapore GCE Consultants Beam strengthening Nov-05 Road	Goodwood Park Hotel			Column and beam	
	Blk 240 Bukit Panjang Ring	Singapore	GCE Consultants		Nov-05
		Singapore	WTS Consulting	Beam strengthening	Dec-05





Funan Digital Mall	Singapore	RSP Consultants	Beam strengthening	Dec-05
Baggage Room 130	Singapore	Goodwood Park Hotel	Water leakage repair	Dec-05
Singapore General Hospital	Singapore	TP Seow Consultants	Beam and slab strengthening	Dec-05
Li Teck Chuan Cin Tong at No. 8 Lorong 102 Changi	Singapore	Building Engineering Consultants	Column and beam strengthening	Dec-05
Road Boutique Hotel at Tiong Bahru	Singapore	Beca Carter Hollings & Ferner	Beam, slab and column strengthening	Dec-05
2-storey Warehouse at 62 Loyang Way	Singapore	CE Consultants	Column strengthening	Jan-06
Republic Polytechnic at Woodlands Avenue 9	Singapore	Meinhardt (Singapore)	Beam strengthening	Jan-06
International Building	Singapore	SA&P Associates Consulting Civil & Structural Engineers	Beam strengthening	Jan-06
Meraprime Condo Housing Development	Singapore	DE Consultants	Column strengthening	Feb-06
Keppel Distripark	Singapore	Ang & Ong Consultants	I-Beam strutting	Feb-06
NUS at Bukit Timah Campus	Singapore	T.Y.LIN International	Beam and slab strengthening	Feb-06
HDB Flat at Pasir Ris	Singapore	Housing and Development Board	Façade strengthening	Mar-06
Seraya Avenue	Singapore	Foster Asia Pacific	Tank base coating	Mar-06
NUS - Inter Molecular Cell Biology	Singapore	CPG Consultants	Beam strengthening	Mar-06
Yishun Secondary School	Singapore	CPG Consultants	Column and beam strengthening	Mar-06
Goldenshoe Carpark Building	Singapore	Tham & Wong	Beam strengthening	Mar-06
Sengkang Neighbourhood 4 Contract 14	Singapore	Surbana Consultants	Strength enhancement of columns	Mar-06
Sengkang Neighbourhood 2 Contract 23	Singapore	Surbana Consultants	Strength enhancement of columns	Apr-06
Sengkang Neighbourhood 4 Contract 15	Singapore	Surbana Consultants	Strength enhancement of columns	Apr-06
No. 5 Jalan Sejarah	Singapore	WTS Consulting Engineers	Beam strengthening	Apr-06
Upgrading of Bridges at 12 locations (LTA RD 138)	Singapore	Beca Carter Hollings & Ferner	Bridge strengthening	Apr-06
Upgrading of Bridges at 10 locations (LTA RD 145)	Singapore	PB Merz & Mclellan	Bridge strengthening	Apr-06
NUS 170 - Package 21- Existing Block & AHU Room	Singapore	CPG Consultants	Beam, slab and column strengthening	Apr-06
No. 3 Toh Tuck Place	Singapore	Fibrwrap Construction	Slab strengthening	Apr-06
No. 21 Jalan Sukachita	Singapore	BK Consulting Engineers	Column strengthening	May-06
Whitesands Shopping Centre	Singapore	Ronnie & Koh Partnership	Beam and slab strengthening	May-06
9C Jalan Anggerik	Singapore	Fibrwrap Construction	Slab strengthening	May-06
Biopolis - Chromas Basement 2 Carpark	Singapore	Jurong Consultants	Beam strengthening	May-06
Biopolis Phase 2 - Biomedical Grove	Singapore	Jurong Consultants	Beam and slab strengthening	May-06
Raffles Institution	Singapore	CPG Consultants	Beam strengthening	Jun-06
Clarke Quay - Block B	Singapore	RSP Consultants	Beam strengthening	Jun-06
32 Mayflower Place	Singapore	DE Consultants	Beam and slab strengthening	Jun-06
Residential Building at Lorong 16 Geylang	Singapore	KP Chai Engineering & Management Consultants	Beam strengthening	Jun-06
Upgrading Works at Changi	Singapore	T P Seow Consultants	Brick column strengthening	Jun-06
Paya Lebar MRT Station	Singapore	CPG Consultants	Beam strengthening	Jul-06
Swiss Club School	Singapore	AHL Engineering	Brick pier strengthening	Jul-06



The Central @ Eu Tong Sen Street/Tew Chew Street	Singapore	KTP Consultants	Beam and slab strengthening	Jul-06
Freightlinks Express Distripark	Singapore	Ronnie & Koh Partnership	Façade strengthening	Jul-06
Tanglin Club @ Stevens Road	Singapore	RSP Consultants	Column strengthening	Jul-06
Singapore Aviation Academy	Singapore	CPG Consultants	Structural strengthening	Aug-06
Singapore Changi Airport - Terminal 3	Singapore	CPG Consultants	Beam and Slab Strengthening	Sep-06
Singapore Tennis Centre	Singapore	Fong Consult	Beam Strengthening	Sep-06
Temasek Tower Phase II	Singapore	RSP Consultants	Beam Strengthening	Sep-06

## List of installations for the TYFO<sup>®</sup> FIBRWRAP<sup>®</sup> Systems (Singapore - HDB Projects)

<u>Project</u>	Country	<u>Consultant</u>	Type of Application	Installation
HDB Block 929, Tampines	Singapore	Housing and Development Board	Columns upgraded for increase of axial capacity	Jul-98
HDB Block 212, Hougang	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-98
Chin Swee Road	Singapore	Housing and Development Board	Columns, beams and slabs strengthened for axial, and flexure due to increase of loading	Dec-98
Building Improvement to Void Deck (Contract 1)	Singapore	Housing and Development Board	Strength enhancement of columns	Sep-99
HDB Term Contract-2 for column upgrading (12 mths)	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-00
HDB Upgrading at Pin Ann Gardens	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-00
HDB upgrading at Telok Blangah Crescent	Singapore	Housing and Development Board	Strength enhancement of columns	Oct-00
HDB upgrading at Ang Mo Kio Ave 3	Singapore	Housing and Development Board	Strength enhancement of columns	Dec-00
HDB Telok Blangah (MUP13)	Singapore	Housing and Development Board	Strength enhancement of columns	May-01
HDB Bedok (MUP 13)	Singapore	Housing and Development Board	Strength enhancement of columns	Jun-01
Queen's Close (MUP)	Singapore	Housing and Development Board	Strength enhancement of columns	Jul-01
Building Improvement to Void Deck (Contract 2)	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-01
Tanjong Rhu (MUP)	Singapore	Housing and Development Board	Strength enhancement of columns	Sep-01
Building Improvement to Void Deck (Contract 3)	Singapore	Housing and Development Board	Strength enhancement of columns	Nov-01
Indus Road (MUP 14)	Singapore	Housing and Development Board	Strength enhancement of columns	Jan-02
Building Improvement to Void Deck (Contract 4)	Singapore	Housing and Development Board	Strength enhancement of columns	Mar-02
Kallang Basin (MUP 14)	Singapore	Housing and Development Board	Strength enhancement of columns	Jun-02
Telok Blangah Crescent (MUP 16)	Singapore	Housing and Development Board	Strength enhancement of columns	Jun-02
Toa Payoh North Precinct and Toa Payoh Central Precinct (MUP 15)	Singapore	Housing and Development Board	Strength enhancement of columns	Jun-02
Brickworks Precinct (MUP 15)	Singapore	Housing and Development Board	Strength enhancement of columns	Jun-02
Building Works at Sembawang N4C9	Singapore	Housing and Development Board	Strength enhancement of columns	Jul-02





Rental Flat Upgrading	Singapore	Housing Development Board	Strength enhancement of columns	Jul-02
Upgrading at Commonwealth Drive (MUP 16)	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-02
Ang Mo Kio Tech 1 #02-06A	Singapore	Housing and Development Board	Strength enhancement of beams and columns	Aug-02
Upgrading of Blk 12 to 20 Marine Terrace Precinct (MUP 14)	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-02
HDB MUP project at Blk 111 to 118 Fengshan Precinct (MUP 16)	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-02
Marine Crescent (MUP 16)	Singapore	Housing and Development Board	Strength enhancement of columns	Sep-02
Building Improvement to Void Deck (Contract 5)	Singapore	Housing and Development Board	Strength enhancement of columns	Oct-02
Upgrading to Blk 7,8 & 13 to 18 Ghim Moh Road (MUP 15)	Singapore	Housing and Development Board	Strength enhancement of columns	Oct-02
Holland Park View (MUP 17)	Singapore	Housing and Development Board	Strength enhancement of columns	Dec-02
Holland Park View (MUP 17)	Singapore	Housing and Development Board	Strength enhancement of columns	Dec-02
Sims Drive & Sims Place (MUP 16)	Singapore	Housing and Development Board	Strength enhancement of columns	Jan-03
Blk 113 & 114 Depot Villa Precinct (MUP 17)	Singapore	Housing and Development Board	Strength enhancement of columns	Feb-03
Blk 1 to 5 Dover Road & Blk 12 to 14 Dover Close East (MUP 17)	Singapore	Housing and Development Board	Strength enhancement of columns	Feb-03
Blk 48 & 48A Dorset Road (MUP 17)	Singapore	Housing and Development Board	Strength enhancement of columns	Mar-03
Upgrading of Blk 12 to 20 Marine Terrace Precinct (MUP 14) - Balance of Work	Singapore	Housing and Development Board	Strength enhancement of columns	Aug-03
Commonwealth Drive (MUP 16)	Singapore	Housing and Development Board	Strength enhancement of columns	Nov-03

## List of installations for the TYFO® FIBRWRAP® Systems (India)

<u>Project</u>	Country	<u>Consultant</u>	Type of Application	Installation
Shah House, Worli, Mumbai	India	Mahimtura Consultants	Structural Strengthening of Circular Columns & Flat Slab	Aug-99
Sudharkar Building, Mumbai	India	Mahimtura Consultants	Slab strengthening	Sep-99
MTNL City T.E. Bldg Fountain, Mumbai	India	MTNL, Mumbai	Strenghening & Corrosion protection to reinforced concrete members.	Jan-00
IOCL Oil Terminal, Korrukupet, Chennai	India	Indian Oil Corp. Ltd, Chennai	Corrosion Protection to Steel Pipeline	Jan-00
MTNL Fountain T.E. Bldg. Fountain, Mumbai	India	MTNL, Mumbai	Structural Strengthening & Protection of Columns, Beams and Slabs	Feb-00
Voltas Sagar Bldg, Parel, Mumbai	India	Mahimtura Consultants	Structural Strengtheing of Peripheral Columns due to Increased Loads	Feb-00
MTNL Fort T.E. Bldg Fort, Bombay	India	MTNL, Mumbai	Corrosion protection to cols, beams and slab	Dec-00
MTNL Gamdevi T.E. Building Mumbai.	India	MTNI, Mumbai	Structural Strengthening & Protection of Columns, Beams and Slabs	Dec-00



MTNL TE Bldg, Byculla, Mumbai (Phase 1)	India	MTNL, Mumbai	Corrosion protection to columns, beams and slab	Feb-01
IOCL Pipeline Jetty, Mangalore	India	Indian Oil Corp. Ltd, Chennai	Corrosion Protection to Steel Pipeline	Feb-01
St. Thomas School, New Delhi.	India	In-House Design	Repairs & Structural Strengtheing of Distressed Beams	Feb-01
MTNL T.E. Building, Sion, Mumbai	India	MTNL, Mumbai	Corrosion protection to columns, beams and slab	Mar-01
Casa Grand Society, Mumbai.	India	Mahimtura Consultants	Structural Strengthening of distressed Columns, Beams and Slabs	Mar-01
BSNL T.E. Building, Amreli, Gujarat.	India	BSNL, Gujarat	Structural Repairs & Strengthening of Columns Distressed due to Seismic Event.	Apr-01
BSNL Staff Quarters, Jamnagar, Gujarat.	India	BSNL, Gujarat	Structural Repairs & Strengthening of Columns Distressed due to Seismic Event.	Apr-01
MTNL T.E. Building Kidwai Bahvan, New Delhi. (Phase 1)	India	MTNL, New Delhi	Structural Strengthening & Protection of Columns, Beams.	Apr-01
Phoenix Mills Ltd., Parel, Mumbai	India	Mahimtura Consultants	Strengthening of Masonry Walls for Structural Integrity	May-01
Cryogenic Tank, Reliance Ports & Terminals, Jamnagar, Gujarat	India	Reliance Engg Associates	Repairs and Strengtheing of Columns Distressed due to Seismic Acticvity	May-01
Kandla Port, Gujarat	India	Mahimtura Consultants	Seismic strengthening of columns	Jun-01
Laxmi Motors Showroom Gandhidham, Gujarat	India	In-House Design	Repairs and Strengtheing of Columns Distressed due to Seismic Acticvity	Jul-01
MTNL, Hauz Khas T.E. Building , New Delhi	India	MTNL, New Delhi	Structural Strengthening of Columns	Jan-02
Param Plaza Bldg, Juhu, Mumbai	India	Mahimtura Consultants	Structural Strengthening of Columns due to Additional Loads	Feb-02
M/s. Misty International, New Delhi	India	In-House, Design	Beams and Columns Strengthening	Mar-02
Reserve Bank of India, Staff Quarters Chakala, Mumbai. (Phase I)	India	Mahimtura Consultants	Localised Strengtheing of Beam Column Junctions	May-02
PWD Staff Qtrs, Kakkardooma, Delhi	India	PWD, Delhi	Repairs & Strengtheing of Columns	Jul-02
NDMC Staff Qtrs, Pallika Milan, New Delhi	India	NDMC, New Delhi	Repairs & Strengtheing of Columns	Aug-02
Hughes Telecom Bldg, Andheri, Mumbai	India	Mahimtura Consultants	Strengthening of Slab Panels due to Increased Loads	Nov-02
Janak Setu Flyover, Municipal Corp Delhi (1 Span Pilot Project)	India	NCCB, New Delhi	Structural Strengthening of Bridge Girders	Apr-03
Kakkad Chambers, Worli, Mumbai	India	Mahimtura Consultants	Structural Strengtheing of Slab	May-03
Scottish Leela Lace Bldg, Andheri, Mumbai. (Phase I - IV)	India	Mahimtura Consultants	Structural Strengtheing of Columns & Beams	Jun-03
Hotel Ramee, Dadar, Mumbai	India	Mahimtura Consultants	Strengthening of Columns for Increased Loads due to Addition of Floor	Jun-03
MTNL Admin Building Naigaon, Mumbai	India	MTNL, Mumbai / In- House	Structural Strengthening & Protection of Columns Beams	Jul-03





Roopam Bldg, Worli, Mumbai	India	Talaty & Panthky Associates, Mumbai	Structural Strengthening & Protection of Columns & Beams	Sep-03
Ashoka Society, Warden Rd, Mumbai	India	Mahimtura Consultants	Structural Strengthening of Columns of Parking Structure	Oct-03
MTNL T.E. Building Kidwai Bahvan, New Delhi. (Phase 2)	India	MTNL, New Delhi	Structural Strengthening and Protection of Columns and Beams	Oct-03
anchratna Bldg, Opera House, Mumbai	India	Mahimtura Consultants	Structural Strengtheing of beams and Columns for Ductility Enhancement	Oct-03
Road Over-Brigge 235A, KRCL Madgaon, Goa	India	Konkan Railway Corp. Ltd	Beam Strengthening and corrosion protection	Nov-03
SBI Bldg, Worli, Mumbai	India	Mahimtura Consultants	Structural Strengthening of Circular Columns & Flat Slab	Dec-03
Snehal Society Bldg, Andheri, Mumbai	India	Mahimtura Consultants	Structural Strengthening of Columns & Beams.	Dec-03
MTNL T.E. Building, Vile Parle, Mumbai	India	Mahanagar Telephone Nigam Ltd, Mumbai	Structural Strengthening of Columns, Beams and Slabs	Jan-04
BSNL Staff Qtrs, Elevated Water Tank, Ahmedabad.	India	Bharat Sanchar Nigam Ltd, Amedabad	Structural Strengtheing of Water Tank Staging Columns and Beams	Jan-04
Indian Oil Corp. , Refinery Panipat, Haryana	India	NIT, Kuruskshetra	Columns & Beams Repair and Strengthening	Feb-04
Suraj Apartments, Warden Rd, Mumbai	India	Mahimtura Consultants	Structural Strengthening of Columns & Beams due to additions & alterations	Feb-04
Ispat Industries, Dolvi, Pen	India	Manish Bhalla & Associates	Structural Strengtheing of Columns, & Beams due to additions & alterations	Feb-04
Odessey II Apartments, Powai, Mumbai	India	Mahimtura Consultants	Structural Strengtheing of Columns, & Beams due to additions & alterations	Feb-04
Blue Star Ltd. Prabhadevi, Mumbai	India	Mahimtura Consultants	Structural Strengthening of Columns & Beams.	Feb-04
IT Software Park, Hyderabad	India	C.R. Naryanrao & Associates, Chennai	Strengthening of Columns due to low grade concrete	Jul-04
Jindal House, New Delhi	India	ABM Architects, Mumbai	Seismic retrofit to load bearing brick wall structure	Oct-04
Inter State Bus Terminus, New Delhi	India	Delhi Transport Corporation	Columns Repair & Strengthening	Nov-04
Janak Setu Flyover, Municipal Corp Delhi (1 Span)	India	National Council for Cement & Bldg Materials	Structural Strengthening of Bridge Girders	Nov-04
Helens Court Bldg, Mumbai	India	Mahindra & Mahindra Ltd.	Slab & Beam Strengtehning due to deterioration	Jan-05
MTNL T.E. Building, Fountain I, Mumbai (Phase 1)	India	MTNL, Mumbai	Structural Strengthening of Columns, Beams and Slabs	Jan-05
Sterling Apts, Mumbai	India	Mahimtura Consultants	Beam & Slab Strengthening	Jan-05
Khedshi Viaduct, KRCL, Ratnagiri	India	Konkan Railway Corp. Ltd	Localised Strengthening of T Beam Girders of Viaduct Span	Feb-05
Oceanic Apts, Bandra, Mumbai	India	Mahimtura Consultants	Columns strengthening	Feb-05
Winchester Bldg, Mumbai	India	Lakeview Developers, Mumbai	Column Strengthening due to additional loads	Mar-05
Tivoli Bldg, Mumbai	India	Hiranandani Const	Column & Slab Strengthening	Mar-05
Shreeniketan Bldg, Worli,	India	Talathy & Panthaky	Strengthening of Columns	Ongoing
Mumbai CST Airport Terminal 1B,		Associates Airports Authority of India	for Increased Loads Column/Beam Joint Retrofit	



Telephone Bhavan Bldg, Colaba, Mumbai (Phase1)	India	MTNL, Mumbai	Structural Strengthening & Protection to Columns, Beams	Ongoing
P&T Quarters, Ahmedabad, Gujarat	India	BSNL, Ahmedabad	Repairs & Strengthening to Staircase well roof Slab	Jul-05
Neptune Court, Mumbai	India	Lakeview Developers, Mumbai	Beam Strengthening and corrosion protection	Sep-05
Kimaya Showroom, Delhi	India	Gupta Consultants, Delhi	Heritage Structure, Masonry Walls & Arch Strengthening	Aug-05
Indian Oil Corp. , Refinery Vadodra, Gujarat	India	I.O.C.L / In-House	Flare Line Supports, Repairs & Strengthening	Oct-05
Leela Hotel, Kovalam, Kerala.	India	Semac Consultants, Bangalore	Strengthening & Corrosion Protection of columns	Ongoing
IT, Software Park, Bangalore	India	Engineering Consultants (India), Bangalore	Strengthening of columns due to low concrete grade	To commence
Narora Atomic Power Station, Narora	India	Indian Institute of Technology, Mumbai	Strengthening of ICW near raft junction of RB#1.	Sep-05
Okhla SISI Bldg.	India	C.PW.D	Strengtheing of Beams & Columns	Sep-05
CST Airport Terminal 1B, Mumbai. (Phase 2)	India	Airports Authority of India	Column/Beam Joint Retrofit	Ongoing
Leela Palace, Udaipur, Rajasthan	India	Mahimtura Consultants	Strengtheing of Beams & Columns	Ongoing
BSNL T.E. Building, Rohtak, Haryana.	India	Bharat Sanchar Nigam Ltd, Delhi	Strengtheing of Beams & Columns	Oct-05
FAOC Building, Hissar, Haryana	India	HSAMB, Haryana	Strengthening of Columns	Oct-05

# List of installations for the TYFO® FIBRWRAP® Systems (Indonesia, Vietnam)

<u>Project</u>	Country	Client/Contractor/ Consultant	Type of Application	<u>Installation</u>
PT. Yamaha Music Manufacturing Industry - Factory	Jakarta Indonesia	PT. Yamaha Music Manufacturing Industry/ PT. Takenaka Indonesia/ Novaars International	RC Beam strengthened for flexure using Tyfo <sup>®</sup> SCH41 and shear using Tyfo <sup>®</sup> SEH51A	Jul-05
Graha Utomo Building @Jalan Raden Saleh	Jakarta Indonesia	UTOMO/ PT. Tunggal Sarana Anda/ PT. Susanto Ciptajaya Corporation	RC Columns strengthened for seismic and axial enhancement using Tyfo <sup>®</sup> SEH51A	Sep-05
PT. Pertamina Balongan (Persero)	Balongan Indonesia	PT. Pertamina (Persero) Balongan	Repair and corrosion protection to oil storage steel tank using Tyfo <sup>®</sup> SEH25A	Oct-05
Bank NISP @Kelapa Gading	Jakarta Indonesia	NISP Bank/Fyfe Asia	RC Columns strengthened for seismic and axial enhancement using Tyfo <sup>®</sup> SEH51A due to structural upgrading	Oct-05
The Bellezza Permata Hijau	Jakarta Indonesia	PT. Bina Cipta Nusantara/ PT. Duta Rekayasa	RC Beam strengthened for flexure using Tyfo <sup>®</sup> SEH51A due to construction error	Nov-05
PT. Pertamina Balongan (Persero)	Balongan Indonesia	PT. Pertamina (Persero) Balongan	Repair and corrosion protection to roof tanks using Tyfo <sup>®</sup> SEH25A	Dec-05
PT. International Nickel Indonesia (INCO)	Sulawesi Indonesia	PT. International Nickel Indonesia (INCO)	Repair, corrosion protection and strengthening to steel roof of oil storage tanks using Tyfo <sup>®</sup> SEH25A	Jan-06



OHC REACTOR STRUCTURE @PT. Asahimas Indonesia	Cilegon Indonesia	PT. Asahimas Indonesia/ Fyfe Asia	Strengthening to reinforced concrete beams and columns due to corrosion using Tyfo® SEH51A and Tyfo® SEH25A with Tyfo® S Epoxy	On-going
Jetty @PT. Petrokimia Nusantara Interindo (PENI)	Cilegon Indonesia	PT. Petrokimia Nusantara Interindo/ Fyfe Asia	Repair and corrosion protection to steel piles using Tyfo <sup>®</sup> SEH25A with Tyfo <sup>®</sup> SW Epoxy	On-going
Lindeteves Trade Center	Jakarta Indonesia		Strengthening to reinforced concrete beams due to additional floors using Tyfo <sup>®</sup> SCH41, Tyfo <sup>®</sup> SEH51A and Tyfo <sup>®</sup> SEH25A with Tyfo <sup>®</sup> S Epoxy	On-going
Melinh Point Project, District 1	Ho Chi Minh Vietnam	Beca Carter	Strengthening of RC columns due to insufficient concrete strength using Tyfo <sup>®</sup> SEH51A	Jun-98
Duy Thanh Factory, TanBinh Industrial Park - Phase 1	Ho Chi Minh Vietnam	Duy Thanh Co., Ltd./ New C.C Construction Consultant Co., Ltd.	Strengthening of RC slabs for enhancement of positive and negative moments using Tyfo <sup>®</sup> SEH51A	Oct-05
Duy Thanh Factory, TanBinh Industrial Park - Phase 2	Ho Chi Minh Vietnam	Duy Thanh Co., Ltd./ New C.C Construction Consultant Co., Ltd.	Strengthening of RC slabs for enhancement of positive and negative moments using Tyfo <sup>®</sup> SEH51A	Feb-06

# List of installations for the TYFO® FIBRWRAP® Systems (Japan)

<u>Project</u>	Country	Client/Contractor/ Consultant	Type of Application	Installation
Choujuen Housing Complex Hiroshima Prefecture	Japan	SE Engineering	Slab strengthening for flexural enhancement	Feb-06

### List of installations for the TYFO® FIBRWRAP® Systems (Thailand)

<u>Project</u>	Country	Consultant	Type of Application	Installation
Phuket Yacht Club, Phuket	Thailand	E49 Engineering Consultants	Flexural and shear strengthening to beams due to corrosion. Enhancement to columns due to axial load increase.	Mar-96
Yaipian Bridge, Bangkok	Thailand	ВМА	Strengthening and corrosion protection of columns, beams and slab.	Oct-00
Tolan Bridge, Bangkok	Thailand	ВМА	Strengthening and corrosion protection of columns, beams and slab.	Nov-00
Surajatani Railway Station	Thailand	J. Builders	Flexural and shear strengthening to beams.	Jan-01
Commercial building, Lulli Village	Thailand	J. Builders	Flexural strengthening to beams.	Jun-01
Copper Oxide Building of Asian Chemical Co., Ltd., Welgo Industrial Estate, Rayong	Thailand	J. Builders	Strengthening and corrosion protection to columns and beams	Aug-01
Office Build ing, Bangkok	Thailand	J. Builders	Strengthening to columns slabs	Oct-01





Wat Sitaram School, Pomprab, Bangkok	Thailand	J. Builders	Strengthening to beams and slabs.	Feb-02
Multi story building, Rayong	Thailand	J. Builders	Strengthening to columns and slabs.	Jun-02
Vocational Training Building, Vocational Education Institute, Khon Kaen	Thailand	J. Builders	Flexural strengthening to beams.	Aug-02
Building of Nonthaburi Power Authority, Nonthaburi	Thailand	J. Builders	Flexural strengthening to beams.	Sep-02
Water Tower, Lucky Tech Factory	Thailand	J. Builders	Strengthening to columns and beams.	Nov-02
King Mongkut Hospital	Thailand	J. Builders	Strengthening to slabs	May-03
Library of the Development of Science Institute, Rajavithi, Bangkok	Thailand	J. Builders	Strengthening to beams and slabs.	Oct-03
Mahidol Bampen Building, Sirirat Hospital, Bangkok	Thailand	J. Builders	Strengthening to slabs and columns for rehabilitation of heritage building	Dec-03
Global Chemical Co., Ltd, Bangpoo Industrial Estate, Samut Prakran	Thailand	J. Builders	Strengthening to columns and beams due to corrosion.	Dec-03
Suan Kulab Navamin Rachinoothit School, Samut Prakran	Thailand	J. Builders	Flexural strengthening to beams.	Jan-04
Global Chemical Co., Ltd, Bangpoo Industrial Estate, Samut Prakran	Thailand	J. Builders	Strengthening and corrosion protection to columns and beams	May-04
Harbour Board	Thailand	J. Builders	Strengthening to columns using carbon fibre	Sep-04
Tep Kinsho Foods Co., Ltd	Thailand	J. Builders	Strengthening & corrosion protection to RC slabs	Oct-04
Global Chemical Co., Ltd, Bangkok	Thailand	J. Builders	Strengthening and corrosion protection to columns, beams and slabs	Jul-04
Port Authority of Thailand	Thailand	J. Builders	Strengthening to columns	Sep-04
BMA Building	Thailand	J. Builders	Strengthening to RC lift core wall	Nov-04
Pisanulok Hospital, Bangkok	Thailand	J. Builders	Strengthening to beams	Nov-04
Saha Union Textile, Bangkok	Thailand	J. Builders	Strengthening to beams	Nov-04
Ranong School, Bangkok	Thailand Thailand	J. Builders J. Builders	Strengthening to beams Strengthening to beams with	Nov-04 Dec-04
NL. Development Co., Ltd			live-load testing	
BMA Building	Thailand	J. Builders	Strengthening to columns for enhancement to compression capacity	Feb-05
Yarnapund Co. Ltd, 4-Storey Office Building	Thailand	GroupMech	Strengthening to existing Precast slabs, RC beams and columns	Jul-05
KA Building	Thailand	J. Builders	Strengthening to beams	Nov-05
Pa-Op Building @Sirirat Hospital	Thailand	J. Builders	Flexural strengthening to beams.	Dec-05
Sookjai Restaurant under the Thai Post Army	Thailand	J. Builders	Strengthening and corrosion protection to RC beams for sea-front structure	On-going

# List of installations for the TYFO® FIBRWRAP® Systems (Philippines)

<u>Project</u>	Country	Consultant	Type of Application	Installation
Mercury Drug Store, Manila	Philippines	EC Structural Composites Inc.	Strengthening of slab due to increased loads	Mar-01





Mercury Drug Whse Manila	Philippines	Mendoza Engineering	Slab strengthening for flexural capacity	Mar-01
LRT-3 Project, Manila	Philippines	North Star Technologists	Column strengthening for additional confinement	May-01
LRT-3 Project, Manila	Philippines	In-house	Column strengthening for additional confinement	May-01
Blumentritt Building Manila	Philippines	EC Structural Composites Inc.	Flexural strengthening of beams	Jul-01
Blumentritt Building, Manila	Philippines	In-house	Repair & strengthening of cantilever beams for shear capacity	Jul-01
Solid Cement Corp.	Philippines	SCC, In-house	Strengthening columns for shear capacity in cement plant	Sep-01
San Miguel Corp. La Tondena Distillery	Philippines	SMC, In-house	Repair, strengthening and corrosion protection of waste water pond	Dec-01
Int'l. Container Terminals Inc. (ICTSI)	Philippines	ITCSI, In-house	Corrosion protection of steel mono-tube piles	Apr-02
Jose Rizal University, Manila	Philippines	QCSI Consultancy	Repair and strengthening of cantilever beams for shear capacity	Apr-02
Phil. National Bank Financial Center, Manila	Philippines	PNB, In-house	Strengthening and leak repair of FRP pipes	Apr-02
Cabilawan Bridge, Antique - Asian Development Bank (ADB) Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Jun-02
Sta Cruz Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Jun-02
Old Cala-Cala Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Jul-02
Cebu Port Authority, Cebu- City	Philippines	CPA, In-house	Strengthening and corrosion protection of Batter Piles	Oct-02
Supreme Court of the Phils.	Philippines	Trans-Asia(Phils) Inc./ Pimentel and Asso.	Strengthening of cantilever beams and girders	Nov-02
Phil. Ports Authority, Port of Cagayan De	Philippines	PPA, In-house	Strengthening and corrosion protection of piles	Mar-03
Cairawan Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Mar-03
Phil. National Oil Company, Batangas	Philippines	PNOC, In-house	Strengthening and corrosion protection of vessel damaged beams and piles	Apr-03
Tul-Ang Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Apr-03
Dalanas Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	May-03
Intao Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	May-03
5 storey Vitas Tondo Bldg., Manila	Philippines	In-house consultant	Repair and strengthening of columns and beams	Jun-03
Langawon Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Jun-03
San Antonio Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Jun-03
Net 1 Center, Manila	Philippines	Meinhardt Phils. Inc.	Repair and strengthening of slabs and beams for increase in loads	Aug-03





Balabago Bridge, Antique - ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/UICI	Repair and strengthening for flexure and shear	Aug-03
Vishay Phils.Inc. FTI Compounds	Philippines	FD Partners & Co	Repair and strenghening of machine foundation	Dec-03
2 Storey Residential with attic -East Greenhills	Philippines	Design Tech	Repair and strenghening for flexural and shear	Dec-03
Manicahan Bridge, Zamboanga-ADB Project	Philippines	BCEOM /Everest/Angel Lazaro/Mansueto	Repair and strenghening for flexural and shear	Feb-04
Far East Alcohol Corp. Apalit, Pampanga	Philippines	In-house consultant	Repair and strenghening for flexural and shear	Feb-04
HPN BLDG. NAVAL Station, Roxas Blvd, Pasay City	Philippines	In-house consultant	Repair and Strenghening of column	Apr-04
Phil. Ports Authority, Port of Pulupandan Negros Occidental	Philippines	PPA, In-house	Strenghening and Corrosion protection of steel piles	May-04
Asian Montessori, San Fernando, Pampanga	Philippines	In-house consultant	Repair and strenghening of slabs and beams	May-04
Nestle Philippines Cagayan De Oro	Philippines	EM <sup>2</sup> A Partners & Co	Repair and strenghening of slabs and beams	Jun-04
Pilipinas Shell Petroleum Corp., Tabangao Refinery Batangas, City	Philippines	In-house	Repair And Strenghening Of Tank Support	Jul-04
Wyeth Phils. Inc Makati City	Philippines	TCGI Engineers	Repair and strenghening of slabs and beams	Sep-04
Asian Terminal Inc. Port Area, Manila	Philippines	In-house	Strenghening and Corossion Protection Of Steel Piles	Oct-04
RFM Corporation Mandaluyong City	Philippines	In-house	Repair and strenghening of Silo wheat Bins	Oct-04
Pilipinas Shell Petroleum Corp., Tabangao Refinery Batangas, City	Philippines	In-house	Repair and strengthening of Tank Support using TYFO SEH-25A	Nov-04
Sixth ADB Road Project Road Improvement Composite Contract Package 6PY-1 Patnongon- Culasi Section Antique	Philippines	Chins State eng'g construction Corp. and BCEOM/UICI	Bridge Girder repair / strengthening usinf TYFO SEH-51	Dec-04
Sixth ADB Road Project Road Improvement Composite Contract Package 6PY-12 Culasi- Nabas Section, Antique	Philippines	FF Cruz & Co., Inc. BCEOM / UICI	Bridge Girder repair/strengthening using TYFO SEH-51	Dec-04
BOGO Water District Bogo, Cebu	Philippines	In-house	Strengthening of 600cubic meter ground Water Reservoir using TYFO SEH- 51	Jan-05
Konstrak International Quezon City	Philippines	R.A. Tiburcio & Associates	Strengthening of Beams ( Flexural) using TYFO SEH- 51 System	Feb-05
Aura Builders Quezon City	Philippines	R.A. Tiburcio & Associates	Strengthening of RC Beams KOTEH Residence, Corinthian Hills using TYFO SEH-51 System	Feb-05
Sabang Bridge Rehabilitation Ibaan, Batangas City	Philippines	In-house	Strengthening of Arc Bridge Colummn using TYFO SEH- 51A System	Mar-05
Mall of Asia, Roxas Blvd Manila	Philippines	in-house	Strenghening of beam using TYFO SCH-11UP Composite System	Apr-05





DAEWOO Eng'g. & Co. Ltd. Trento, Agusan Del Sur	Philippines	Katahira	Repair / Strengthening of Sulibao Bridge using TYFO SCH-11 UP Composite	May-05
Virra Mall, Greenhills San Juan, Metro Manila	Philippines	G.G. Sta. Maria Contruction	Strengthening of beam using TYFO SCH-41 System	Jun-05
Shell Refinery, Tabangao	Philippines	In-house	Corrosion protection of steel tank using TYFO S E H-55H System	Jul-05
Robinson Cybergate Pioneer, Mandaluyong	Philippines	In-house	Strengthening of beams and slabs using TYFO SEH-51A and TYFO SCH 41	Jul-05
PNOC Petrochemicals Mariveles, Bataan	Philippines	In-house	Repair and Restoration of Damage RC Beams using TYFO SEH 51A	Jul-05
Nestle Philippines Cabuyao Laguna	Philippines	In-house	Strengthening of beams and columns using TYFO SEH- 51A System	Sep-05
Monolith Const'n Dev't Corp. SM Mall of Asia, North Parking	Philippines	ESCA	Flexural Strengthening of Slab using TYFO SCH 41 and TYFO SEH 51A	Nov-05
Nestle Philippines , Inc. Cagayan De Oro City	Philippines	EM <sup>2</sup> A Partners & Co	Slab Flexural Strengthening using TYFO SEH 51A	Dec-05
Wyeth Phils. Inc Canlubang Plant	Philippines	TCGI Engineers	Beam Strengthening using TYFO SEH 51A	Dec-05
Sixth Road Project Bridge Component ADB Loan No. 1473, PHI JEXIM UNITED Loan, contract package 8	Philippines	Angel Lazaro and Associates Everest Int'l Consultants, Inc.	Sumlog Bridge Retrofitting (Slab Flexural Strengthening, Girder Beam/Coping Beam, Shear Flexural Strengthening) using TYFO SEH 25A, TYFO SEH 51A and TYFO SCH 41	on going
WHO Building Cor. Taft Ave. and U.N. Ave. Manila.	Philippines	C.C. Pabalan and Associates	Column Shear and Flexural Strengthening using TYFO SCH 11 UP and SCH 41	on going
FEATI Building 1 FEATI University Carlos Palanca St. Metro Manila	Philippines	DCCD Engineering Corp.	Shear Wall Strengthening using TYFO SEH 51A and TYFO SEH 25A	on going
Canyon Woods ResidentialPh Resort Phase 3B, Laurel, Barangas	ilippines	BBR Philippines Corp.	Shear Strengthening of Columns using TYFO SEH51A	on going

# List of installations for the TYFO® FIBRWRAP® Systems (China, Hong Kong, Taiwan)

<u>Project</u>	Country	Consultant	Type of Application	<u>Installation</u>
Shekou Port	China	China Harbour - in House	Corrosion protection to steel piles	Dec-99
Suzhou-Yinghu Bridge	China	Suzhau Transport Design Institute	Strengthening to 22 hollow core bridge slabs	May-00
Kunshan-Tongcheng River Bridge	China	Suzhau City Construction Institute	Repair and strengthening of T-beams due to shear and flexure deficiencies and of columns due to deficiency in axial capacity	Jun-00
Jiangsu Chinese Medical Hospital	China	Nanjing Building Design Institute	Strengthening of staircase beams	Jul-00
Hangzhou Wahaha Primary School	China	Zhejing Mechanical Design Institute	Beam strengthening due to cracks near openings	Aug-00



Suzhou-Taichung bridge	China	Suzhou Transportation Design Institute	Bridge retaining wall strengthening	Sep-00
Lishui Hydro-Power Station	China	Zhejiang Hydro-Power Design Institute	Strengthening of 12 beams for flexure	Dec-00
Kunshan Shipai Bridge	China	Suzhou Road Management Bureau	Restoration of an arch bridge	
Hangzhou Hydro Power College	China	Zhejiang Hydro-Power Design Institute	Strengthening to beams and slabs	Apr-01
Shanghai Research Standard Building	China	Shanghai Light Industry Department Design Institute	Strengthening due to increase of live load from 2kN/m2 to 7kN/m2	Apr-01
Shanghai Wenhua Carden	China	Shanghai City Design Institute	Strengthening of 15 staircase beams	May-01
Shanghai Natieta Factory	China	Shanghai Mechanical Design Institute	Seismic retrofit to 20 columns	Jun-01
Chao Yang South Bridge	China	Liaoning Transportation Design Institute	Strengthening of joints of arch bridge	Jul-01
Taizhou Telecom Building	China	Zhejiang Telecom Design Institute	Roof slab and beam strengthening	Jul-01
Tong Jiang Kou Bridge	China	Liaoning Transportation Design Institute	Strengthening of 35 bridge spans due to load increase	Jul-01
Wenzhou Sluice Gate	China	Zhejiang Hydro-Power Design Institute	Strengthening of concrete sluice gate	Jul-01
Hangzhau Chinese Medical Hospital	China	Zhejiang Rural Design Institute	Strengthening to RC shear walls	Aug-01
Hangzhou Yuhang Primary School	China	Zhejiang University	Retrofitting of slabs in a 5- storey building	Aug-01
Shanghai Huizhong Factory	China	Shanghai Mechanical Design Institute	Seismic retrofitting to 112 columns	Aug-01
Xiao Jiaba Bridge	China	Sichuan Transportation Design Institute	Strengthening of 120m span concrete-arch bridge	Aug-01
Long Dongbai Bridge	China	Sichuan Transportation Design Institute	Strengthening of 120m span concrete-arch bridge	Sep-01
Nigbo Bank Building	China	Hangzhou City Construction Institute	Strengthening of RC beams	Sep-01
Shangai Minhang Electricity Power Plant	China	Tonggi University Design Institute	Strengthening of columns and brick walls	Sep-01
Suzhou Xing-Xiu Bridge	China	Suzhou Road Management Bureau	Restoration of an old arch bridge	Sep-01
Huzhou Wufeng Cold Storage Factory	China	Hangzhou City Design Institute	Strengthening of slabs soffit	Oct-01
Shanghai Wenxing Electrical Factory Office Floor	China	Shanghai Tonggi Administration Design Office	Columns and walls strengthening	Oct-01
Jiangsu Yan City River Bridge	China	Yan City Department of Transport	Beams and slabs strengthening to increase loadbearing capacity	Nov-01
Jiangsu Yan City River Bridge 1	China	Nanjing Aerospace University	Strengthening of beams and slabs	Nov-01
Jiangsu Yan City River Bridge 2	China	Nanjing Aerospace University	Strengthening of beams and slabs	Nov-01
Jiangsu Yan Province South River Bridge	China	Yan City Department of Transport	Beams and slabs strengthening to increase loadbearing capacity	Nov-01
Shanghai Yonghua Complex	China	Shanghai Huangbu Design Instiute	Lift Core beams and slabs strengthening	Nov-01
Zhejiang Jiaxin Complex	China	Zhejiang Post Office Design Institute	Beams and slabs strengthening due to live load increase from 2kN/m2 to 5kN/m2 capacity	Nov-01
Zhejiang Wenzhou Complex	China	Zhejiang City Planning Design Institute	Beams and slabs strengthening	Nov-01
Lishui City Center Hospital	China	Hangzhou Coal and Gas Department Design Institute	Columns strengthened due to additional floors introduced	Dec-01



Shanghai Garment City	China	Beijing Weston Shanghai Design Co.	Beams strengthened due to increase in live load	Dec-01
Shanghai Pudong Development	China	Shanghai Modern Design Group	Beams strengthening	Jan-02
Zhejiang Jiaxing Hydro Power Project	China	Zhejiang Hydro-Power Design Institute	Strengthening and crack control	Feb-02
24 Hangzhou Jiannan	China	Hangzhou City Development Design Institute	Strengthening and crack control	Mar-02
Zhejiang Jiaxing Hydro Power Station	China	Zhejiang Hydro-Power Design Institute	Strengthening and crack control	Mar-02
Hangzhou Gonglian Jingpin Center	China	Zhejiang Industry Design Institute	Strengthening due to increase of live load	May-02
Shanghai Jingqiao Government Building	China	Chuanbai Industry No 9 Design Institute (Shanghai)	Strengthening to opening in shear walls	May-02
Wenzhou Postal Company	China	Hangzhou Coal and Gas Department Design Institute	Beams and slabs strengthening	May-02
Zhangjia Harbour Bridge1	China	Suzhou Department of Transport	Beams and slabs restoration and strengthening	May-02
Zhangjia Harbour Bridge2	China	Suzhou Department of Transport	Beams and slabs restoration and strengthening	May-02
Xingfu Bridge Privately Owned By Chuanwei Group, Guisha	China	Sichuan Transportation Design Institute	Bridge underdeck strengthening	Jul-02
Zhejiang taizhou Xinghe yuan area	China	-	Strenghening to beams to achieve higher structural grading	Jul-02
Zhejiang Huangyantiandai Health and fitness centre	China	Zhejiang province industry design institute	Strengthening to beams and slabs to incease loading capacity	Aug-02
Shanghai wei tang school archives	China	Shanghai Modern Design Institute	Strengthening to increase loading capacity	Sep-02
Shanghai Electric Power Heating communications center building	China	Zhejiang City Industry design institute	Strengthening to 3rd and 4th storey to increase loading capacity	Oct-02
Guangzhou Huanan Road bridge no. 0 circle	China	Railway design institute	Strengthening to ground beam at intersection	Nov-02
Shanghai Baogang Center Electric Room	China	Baogang group design institute	Strengthening to main beam of 2nd storey workshop	Nov-02
Guanguan Yao, Zhizhu Gang Bridges, Chengdu	China	No 2 Railway Design Institute	T- Beams Strengthening	Dec-02
Liaoying Bridge, Chengdu	China	No 2 Railway Design Institute	Slabs Strengthening	Dec-02
Zhejiang na ai shi group	China	-	Crack repair to workshop columns	Dec-02
Shanghai kangqiao peninsula	China	Shanghai Structural Accreditators Design Institute	Strengtheing to beams and slabs of villa	Jan-03
Shanghai Shengwo Nol. 4 Car workshop	China	Shanghai Mechanical Design Institute	Strengthening to improve loading capacity	Jan-03
Duanyi electric lighting company. Suzhou Branch	China	Suzhou Bulding materials and construction design institute	Strengthening to increase loading as well as to improve flexural and shear capacity of beams	Feb-03
Shanghai ChangXingDao Chenghua Harbor machinery,Changxing base	China	Shanghai Structural Accreditators Design Institute	Repair to cracks on main columns, inclusive of strengthening	Feb-03
Shanghai wei tang school administrative floor	China	Shanghai Modern Design Institute	Strengthening to portal	Mar-03





Shanghai Xianfeng Electronics	China	Shanghai foodstuff design institute	Renovation to office involving strenthening	Mar-03
Shanghai Shengwo No.5 & 6 Car workshop	China	Shanghai Mechanical Design Institute	Strengthening to improve loading capacity	Apr-03
Shanghai ZhongKai light of the city	China	Shanghai Construction Design Institute	Strengthening to increase roof loading capacity	Apr-03
Shanghai Aijian Garden	China	Shanghai Aijian Design Institute	Strengthening to improve shear strength at door frames	May-03
Shanghai Jingan Yangguang Mingdu	China	Shanghai Aijian Design Institute	Strengthening to staircase wall	May-03
Yuegou shanghai jingan supermarket	China	Shanghai Zhongfanf Construction Design Institute	Strengthening works to 2 levels of basement	May-03
Shanghai Di-ou Café	China	Shanghai Bao-li Design Company	Modification and strengthening to brick walls	Jun-03
Shanghai Yonghua Building	China	Shanghai Huangpu Design Institute	Roof beam strengthening	Jun-03
Zhangjiagang 338 lane, Laogang bridge	China	Hangzhou Public Tranport Department	Strenghening beams and slabs and renovation to bridge surface	Jun-03
Zhangjiagang 338 lane, Wuxing bridge	China	Hangzhou Public Tranport Department	Strenghening beams and slabs and renovation to bridge surface	Jun-03
Anwei Gaojie Gaosu Ruan Corporation Bridge 157k+117	China	Anwei Ganghang Survey and design Institute	Strengthening to beams to increase loading capacity	Jul-03
Anwei Gaojie Gaosu Ruan Corporation Bridge 157k+237.5	China	Anwei Ganghang Survey and design Institute	Strengthening to beams and slab soffit to increase loading capacity	Jul-03
Anwei Gaojie Gaosu Ruan Corporation Bridge 157k+471	China	Anwei Ganghang Survey and design Institute	Strengthening to beams and slab soffit to increase loading capacity	Jul-03
Anwei Gaojie Gaosu Ruan Corporation Bridge 157k+740.5	China	Anwei Ganghang Survey and design Institute	Strengthening to beams and slab soffit to increase loading capacity	Jul-03
Dafeishui Bridge, Chengdu	China	South West University Retrofit Research Institute	Beams and slabs strengthening	Jul-03
Meilong Paper Company (Taicang) Pte Ltd	China	ChuanBo industry no.9 design institute	Corrosion prevention works to pipes	Jul-03
Shanghai Shajin lihua Commercial Building, Block 3 and 4	China	Fanhua Projects Pte Ltd Design Department	Strengthening to lift shaft	Jul-03
Shanghai Foreign Languages University	China	Shanghai Yangpu Design Pte Ltd	Staircase and classroom slabs strengthening	Aug-03
Shanghai Post Office Building	China	Shanghai JiuJian strengthening Pte Ltd	Roof surface and sky window retrofitting	Sep-03
ShiZhou Zhilu Hotel	China	Shanghai He Industry Design Institute	Shear wall opening and slab opening strengthening works	Sep-03
SuZhou Jicang Road SanJing Bridge	China	Anwei Ganghang Survey and design Institute	Strengthening to beams to increase loading capacity	Sep-03
Commercial Complex, Nanchong, Sichuan	China	South West University Retrofit Research Institute	Basement strengthening against impact from controlled demolition using explosives	Oct-03
Jiaxing Electric Factory	China	Shanghai Electricity Design Institute	Strengthening to warehouse ramp supports	Oct-03
Suzhou Wufu Bridge	China	Suzhou road department	General repair of bridge structure and strengthening	Oct-03
Hangzhou youjia advanced mechanics factory	China	Zhejiang mechanical design institute	Strengthening to office beams, columns and slabs	Oct-03





Shanghai gas exploration company  Shanghai lifescience China Frankua Projects Pte Ltd Strengthening using carbon Oct-03 (fibres to beams and slabs stanghening due to Nov-03 (fibres to beams and slabs stanghening due to Nov-03 (fibres to beams and slabs strengthening due to Nov-03 (fibres to beams and slabs stanghening due to Nov-03 (fibres to beams and slabs strengthening due to Nov-03 (fibres to beams and slabs strengthening due to Nov-03 (fibres to beams and slabs strengthening due to Nov-03 (fibres to beams and slabs strengthening due to Nov-03 (fibres to beams and slabs strengthening due to Nov-03 (fibres to beams and piers strengthening (fibres to beams and piers strengthening) (fibres to beams and piers strengthening of the total strengthening (fibres to beams and piers strengthening of the total strengthening (fibres to beams and piers strengthening of the total strengthening (fibres to beams and piers strengthening of the total strengthening of the total strengthening (fibres to beams and piers strengthening to the total strengthening on the strengthening of the total strengthening (fibres to beams and piers and strengthening of the total strengthening (fibres to beams and piers and strengthening to works to underside of Bridge (fibres to beam strengthening to the strengthening to works to underside of Bridge (fibres to beam strengthening to the strengthening to the streng					
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Bridge Weijlang Bridge, Qingchen Mountain, Chengdu         China China         South West University Retrofit Research Institute         Beams and piers strengthening         Dec-03           Anwel Hexu Highway Key-994 Bridge         China         Shanghai Durab Retrofitting         Strengthening due to increased loading         Jan-04 increased loading           Shanghai Bund 18         China         Shanghai Durab Retrofitting         Strengthening to exterior walls         Mar-04 Beams           Suzhou Tonghe bridge         China         Shanghai Durab Retrofitting         Repair and Strengthening works to underside of Bridge         Mar-04 Walls           Shanghai Guoyun Hotel         China         Shanghai Durab Retrofitting         Beams and slabs strengthening by using TYFC® system         Jan-05 Strengthening by using TYFC® system           Loumann (Shanghai) Chemical Works Factory         China         Shanghai Durab Retrofitting         Seismic Strengthening and increase Loading capacity increase Loading capac	Yangguan Garden,	China			Nov-03
Mountain, Chengdu   Retrofit Research Institute   In		China			Nov-03
Retrofitting   Increased loading   Shanghai Durab   Structural strenghtening of T Mar-04   Structural strenghtening of T Mar-05   Strenghtening of T Mar-05   Structural strenghtening of T Mar-05   Strengthening of T Mar-05   Structural strenghtening		China	Retrofit Research		Dec-03
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Suzhou Tonghe bridge		China	Retrofitting	Beams	Mar-04
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Chemicals Company Factory Fact		China		strengthening by using TYFO® system	Jan-05
Chemical Works Factory An Hui 318 High way China Shanghai Durab Retrofitting An Hui 318 High way China Shanghai Durab Retrofitting An Hui Hetong Road Bridge An Hui Qianshan Road China Shanghai Durab Retrofitting Shanghai Durab Retrofitting An Hui Qianshan Road China Shanghai Durab Retrofitting Shanghai Shanghai Durab Shanghai Shanghai Durab Shanghai Shanghai Durab Shanghai Durab Shanghai Sirzengthening by using TYFO® system  Mar-05 Shanghai Shanghai Durab Seismic Strengthening Mar-05 Shanghai XinZhiShiJin Retrofitting Shanghai Durab Shanghai Sirzengthening Shanghai Durab Shanghai Wai Gao Qiao China Shanghai Durab Retrofitting Shanghai Durab Container Port Shanghai China Shanghai Durab Retrofitting Shanghai Durab Retrofitting Shanghai Durab Strengthening strengthening, steel Pate bonding and CFRP works Strengthening to safe vault using Tyfo fiberwrap  Liao Ning Duituo Bridge China Shanghai Durab Retrofitting Shanghai Durab Retrofitting Shanghai Durab Retrofitting Shanghai Durab Retrofitting Strengthening to safe vault using Tyfo fiberwrap  Liao Ning HaiCheng Retrofitting Shanghai Durab Strengthening by using TYFO® system  Apr-05 Shanghai Durab Retrofitting Shanghai Durab Strengthening by using TYFO® system  Apr-05 Shanghai Durab Retrofitting Shanghai Durab Strengthening by using TYFO® system	Chemicals Company	China			Feb-05
An Hui 318 High way Chezhou Temple Bridge Chezhou Temple Bridge An Hui Hetong Road Bridge An Hui Qianshan Road China Chezhou Temple Bridge An Hui Qianshan Road China Ch		China		Seismic Strengthening and increase Loading capacity	Feb-05
An Hui Qianshan Road China Shanghai Durab Crack strengthening by Mar-05 Bridge Shanghai Durab Retrofitting Using TYFO® system  Anhui Hetong Road K99- China Shanghai Durab Retrofitting Beam  Anhui Hetong Road K99- China Shanghai Durab Retrofitting Beam  Huayan handcraft Pte Ltd China Shanghai Durab Retrofitting Using TYFO® system  Jinshan ZiShijing Bridge, China Shanghai Durab Retrofitting Strengthening by Using TYFO® system  Jinshan ZiShijing Bridge, China Shanghai Durab Retrofitting Strengthening by Using TYFO® system  KunShan Municipality China Shanghai Durab Retrofitting  No. 320 National Highway Shanghai XinZhiShiJin Retrofitting Strengthening Strengthening Strengthening  Shanghai Wai Gao Qiao China Shanghai Durab Retrofitting Strengthening Strengthening  Bund No. 18, Shanghai China Shanghai Durab Retrofitting Strengthening to safe vault Using Tyfo fiberwrap  Liao Ning Duituo Bridge China Shanghai Durab Retrofitting Strengthening to safe vault Strengthening by Using TyFO® system  Liao Ning HaiCheng China Shanghai Durab Retrofitting Strengthening by Using TyFO® System  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Strengthening by Using TyFO® system  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Strengthening by Using TyFO® system	Chezhou Temple Bridge	China		Structural strengthening by	Mar-05
Bridge Retrofitting using TYFO® system  Anhui Hetong Road K99- China Shanghai Durab Retrofitting Beam  Huayan handcraft Pte Ltd China Shanghai Durab Retrofitting Using TYFO® system  Jinshan ZiShijing Bridge, Shanghai Durab Retrofitting Using TYFO® system  Jinshan ZiShijing Bridge, China Shanghai Durab Retrofitting TYFO® system  KunShan Municipality China Shanghai Durab Retrofitting Sessionic Strengthening by using TYFO® system  KunShan Municipality China Shanghai Durab Retrofitting  No. 320 National Highway Shanghai XinZhiShiJin Retrofitting Strengthening  Shanghai XinZhiShiJin Retrofitting Strengthening  Shanghai Wai Gao Qiao China Shanghai Durab Retrofitting Strengthening Strengthening  Bund No. 18, Shanghai China Shanghai Durab Retrofitting Using Tyfo fiberwrap  Liao Ning Duituo Bridge China Shanghai Durab Retrofitting Strengthening by using TYFO® system  Liao Ning HaiCheng China Shanghai Durab Retrofitting Strengthening by using TYFO® system  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Strengthening by using TYFO® system  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Strengthening by using TYFO® system  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Strengthening by using TYFO® system  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Strengthening by using TYFO® system	An Hui Hetong Road Bridge	China	Retrofitting	strengthening works	Mar-05
Retrofitting   Beam   Huayan handcraft Pte Ltd   China   Shanghai Durab   Retrofitting   Using TYFO® system   Mar-05	Bridge	China	Retrofitting	using TYFO® system	Mar-05
Jinshan ZiShijing Bridge, Shanghai Durab Retrofitting Shanghai Durab Seismic Strengthening by using TYFO® system  KunShan Municipality China Shanghai Durab Retrofitting Seismic Strengthening Mar-05  No. 320 National Highway Shanghai Durab Shanghai Durab Shanghai XinZhiShiJin Bridge  Shanghai Wai Gao Qiao China Shanghai Durab Retrofitting Strengthening Strengthening Strengthening Strengthening Strengthening Shanghai Wai Gao Qiao China Shanghai Durab Retrofitting Strengthening to safe vault Apr-05 using Tyfo fiberwrap  Liao Ning Duituo Bridge China Shanghai Durab Retrofitting strengthening by using TYFO® system  Liao Ning HaiCheng China Shanghai Durab Retrofitting Strengthening by using TYFO® strengthening by using TYFO® system	200 Bridge		Retrofitting	Beam	Mar-05
Shanghai  Retrofitting  Strengthening by using TYFO® system  KunShan Municipality DaZhiGang bridge  No. 320 National Highway Shanghai Durab Retrofitting  Liao Ning Duituo Bridge  China  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Slabs and beams repair and Apr-05 strengthening  TYFO® system  Liao Ning Liao River Bridge  China  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Slabs and beams repair and Apr-05 strengthening  Slabs and beams repair and Apr-05 strengthening by using TYFO® system	•		Retrofitting	using TYFO® system	
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Container Port  Retrofitting  Plate bonding and CFRP works  Bund No. 18, Shanghai  China  Shanghai Durab Retrofitting  Liao Ning Duituo Bridge  China  Shanghai Durab Retrofitting  Liao Ning HaiCheng  municipality DuiLun Bridge  China  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Shanghai Durab Retrofitting  Slabs and beams repair and Apr-05 strengthening  TYFO SEH51 and SEH25  Apr-05  Strengthening  Apr-05  Strengthening  Strengthening  Slabs and beams repair and Apr-05 strengthening  Slabs and beams repair and Apr-05 strengthening by using  TYFO® system	Shanghai XinZhiShiJin	China			Mar-05
Liao Ning Duituo Bridge China Shanghai Durab Retrofitting Using Tyfo fiberwrap  Liao Ning HaiCheng China Shanghai Durab Retrofitting Strengthening by using TYFO® system  Liao Ning HaiCheng China Shanghai Durab Retrofitting Strengthening  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Strengthening  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Slabs and beams repair and Apr-05 strengthening by using TYFO® system		China		plate bonding and CFRP	Mar-05
Retrofitting strengthening by using TYFO® system  Liao Ning HaiCheng China Shanghai Durab TYFO SEH51 and SEH25 Apr-05 strengthening  Liao Ning Liao River Bridge China Shanghai Durab Retrofitting Slabs and beams repair and Apr-05 strengthening by using TYFO® system			Retrofitting	using Tyfo fiberwrap	•
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Retrofitting strengthening by using TYFO® system		China	· ·		Apr-05
	Liao Ning Liao River Bridge	China	· ·	strengthening by using	Apr-05
Retrofitting	Liao Ning LiaoHe Bridge	China	Shanghai Durab Retrofitting	TYFO Fibrwrap	Apr-05





Shanghai Dazhong Building	China	Shanghai Durab Retrofitting	Beams and slabs strengthening by using TYFO® SCH,UC	Apr-05
Shanghai Elevated Highway Viaducts	China	Shanghai Durab Retrofitting	Seismic Strengthening and increase Loading capacity	Apr-05
Shanghai Zhaogao high way Gaoqiaogang Bridge	China	Shanghai Durab Retrofitting	Structural repair and strengthening to the main bridge span which was damaged by ships.	Apr-05
SuZhou No. 338 highway Yaojing Bridge	China	Shanghai Durab Retrofitting	Retrofitting, repaving	Apr-05
Tang Shan Sanyou Group Office Building	China	Beijing BoDong Bo	Structural strengthening	Apr-05
Yun Nan Zhuxiong-Dali high way no. K066+950 Bridge	China	Shanghai Durab Retrofitting	Slab repair by using TYFO® system	Apr-05
Yunnan Chuxiong Dali highway	China	Shanghai Durab Retrofitting	TYFO SEH51 and SEH25 strengthening	Apr-05
Business Trade Hotel streaming potential health club, Kun Shan	China	Shanghai Durab Retrofitting	Beams and slabs strengthening by using TYFO® system to sustain higher load	May-05
Dapu Road Culture Center, Shanghai	China	Shanghai Durab Retrofitting	Seismic Strengthening by using TYFO® system	May-05
Jin Shan Sanxin Bridge, Caojing Bridge, Jiebu Jing Bridge, Shanghai	China	Shanghai Durab Retrofitting	Crack repair, and structural strengthening by using TYFO® system to extend their service lives	May-05
Shanghai Jin San Jin Zhang Road Chao Jing Bridge	China	Shanghai Durab Retrofitting	Structural Strengthening due Aging	May-05
Zhashui River Bridge, An Hui	China	Shanghai Durab Retrofitting	Structural strengthening for the bridge by using TYFO® System	May-05
Zhu Jiang Dijing Heating Station	China	Beijing BoDong Bo	Structural strengthening	May-05
Office building of Shanghai Laser department	China	Shanghai Durab Retrofitting	Slabs and columns strengthening by using TYFO® System	Jun-05
Zhongshan Hospital No.3 Building 2nd storey , Shanghai	China	Shanghai Durab Retrofitting	4 Columns strengthening by using TYFO® System	Jun-05
An Hui Liahuo Highway Bridge k280+615、Bridge k250+103 ZhuYun Pier A07、A10 Repair and Strengthening Project	China	Shanghai Durab Retrofitting	Pier and column strengthening by using TYFO® System	Jul-05
Kun Shan Yanlin Precise Electronic Instrument Produce Company Office Building Structural Strengthening Project	China	Shanghai Durab Retrofitting	Beam and Slab strengthening to Increase its bearing capacity by using TYFO® System	Jul-05
Phase 2 of KangXing Estate	China	Fyfe China	Strengthening of Beams	Jul-05
Pump Station at He Bei Qianan Rongxi Group	China	Beijing BoDong Bo	Structural strengthening	Jul-05
Shanghai Jiading Yagu Light and Electricity Technology Factory Floor Strengthening Project	China	Shanghai Durab Retrofitting	Crack repair and strengthening by using TYFO® System	Jul-05
China Construction Bank's Documentation Room in Shanghai, MingHang	China	Shanghai Durab Retrofitting	Beam and Slab Strengthening to sustain higher loading.	Aug-05



Da Tong QingHuang Island Zhongtie Signal Conversion Station, Cuiping Mountain Station, Yanlu Station

Beijing BoDong Bo

China

Structural strengthening

Aug-05

Expansion works to Shanghai XinXin Building. Works include addition of new story.	China	Shanghai Durab Retrofitting	Structural Strengthening for the Building to sustain higher loading	Aug-05
JiaXinXingJia AiShi galvanothermy Pte Ltd	China	Shanghai Durab Retrofitting	Strengthening Works by using TYFO® System	Aug-05
Zhe Jiang Yuhuan Automobile Center 110KV Substation	China	Shanghai Durab Retrofitting	Columns Strengthening by using TYFO® System	Aug-05
6 Bridges along Gao Jie Highway K143 to K236	China	Shanghai Durab Retrofitting	Structural Strengthening to LiangTing Bridge, ChengXi Bridge and 4 other bridges.	Sep-05
ShiEr community cultural activity center, Shanghai	China	Shanghai Durab Retrofitting	Beam and Slab Strengthening	Sep-05
XingTai National Highway 107 XiaoHuai River Bridge, He Bei and Feng Village Culvert	China	Shanghai Durab Retrofitting	Cracks Repair and Strengthening Works	Sep-05
Zhe Jiang ZhaPuZa Bridge, WangDian Bridge and LuJia Bridge	China	Shanghai Durab Retrofitting	Structural Strengthening works	Sep-05
Cultural Museum, JingAn, Shanghai	China	Shanghai Durab Retrofitting	Strengthening works to 55 years old historical building	Nov-05
Finance Development Pte Ltd's Office, Minqian, Shanghai	China	Shanghai Durab Retrofitting	Beam Strengthening	Nov-05
Beijing Jiuyi Primary School	China	Beijing BoDong Bo	Structural strengthening	Dec-05
Phase 1 of Shanghai KangCheng	China	Shanghai Durab Retrofitting	Slab Reinforcement and crack repair	Dec-05
Highway K260, TongXun, Jiang Su	China	Shanghai Durab Retrofitting	Structural strengthening of Highway after fire incident	Oct-05
Highway's Bridges, XuanGuang, An Hui	China	Shanghai Durab Retrofitting	Strengthening of Bridges to sustain increased loading.	Oct-05
Su zhou San Shen Bridge	China	Shanghai Durab Retrofitting	Structural strenghtening of T Beams due to increased loading	Aug-04
Beijing Capital Airport	China	Shanghai Durab Retrofitting	Structural repair and strenghtening of Aerobridge	Jul-04
Shenyang East GaTu Bridge	China	Shanghai Durab Retrofitting	Strengthening of Structure and changing of Expansion Joints.	Jul-04
Shenyang Gong Zu Dun Bridge	China	Shanghai Durab Retrofitting	Strengthening of Structure and changing of Expansion Joints.	Jul-04
Shenyang Man Du Hu Bridge	China	Shanghai Durab Retrofitting	Strengthening of Structure and changing of Expansion Joints.	Jul-04
Su Zhou North Bridge	China	Shanghai Durab Retrofitting	Structural strenghtening of T Beams	Jun-04
Anwei Lian Huo Highway K237+900,K280+600 and Zu wei zi A07, A10 Bridges	China	Shanghai Durab Retrofitting	Repair and Strengthening of Bridges due to increased loading`	Nov-04
Lamma Island Jetty	Hong Kong	China Harbour	Underwater steel pile corrosion protection	Sep-97
HEC Steel Pile Corrosion	Hong Kong	Hong Kong Electric	Underwater corrosion	Oct-97





Mass Rapid Transit Corporation	Hong Kong	MTRC	Strengthening of Airport railway concrete parapet walls	Oct-97
Houston Centre	Hong Kong	L&M Specialist Construction Ltd.	Strengthening and repair to cooling mains	Mar-98
HEC Steel Pile Corrosion Protection	Hong Kong	Hong Kong Electric	Corrosion protection to 500 marine piles	Mar-99
Hong Kong Electric Co.	Hong Kong	Hong Kong Electric	Strengthening of damaged fender column	Jul-99
Hong Kong-Macau Ferry Terminal	Hong Kong	Civil Engineering Department, Government of Hong Kong - SAR	Strengthening of concrete beams and strengthening/corrosion protection of steel piles	Jul-01
Property development in Fanling	Hong Kong	Wong & Cheng Consultants	Strengthening to concrete waffle slab	Nov-01
Sino-Yau Tong Canopy Strengthening	Hong Kong	Wong & Cheng Consultants	Strengthening to concrete canopy	Mar-05
Chinese University Sport Centre Roofs	Hong Kong	Wong & Cheng Consultants	Reinforcement to concrete roof slab	May-05
WDS-Water treatment facility	Hong Kong	WSD	Corrosion protection and strengthening to concrete slab of water treatment tank	May-05
KCRC-Sino Ho Tong Lau Drain Pipe	Hong Kong	Ove Arup	Strengthening and pipe lining	Jun-05
WSD-Valve House Slab	Hong Kong	WSD	Corrosion protection and strengthening to concrete roof slab	Jun-05
Ching Mei Condominiums, Taipei	Taiwan	L&M Systems Inc.	Beam strengthening for flexure and shear	Sep-95
General Instruments Factory	Taiwan	Martin & Huang	Columns repaired and strengthened for shear due to earthquake damage	Oct-99
Formosa Cement Silo	Taiwan	L&M System, Inc.	Seismic strengthening of silo due to under-design	Dec-99

### List of installations for the TYFO<sup>®</sup> FIBRWRAP<sup>®</sup> Systems (USA, Canada and Mexico)

<u>Project</u>	Location	<u>Element</u>	Type of Application	Installation
Caltrans 07-115994 I-5 & Hwy 2 Los Angeles	SB I-5 to EB Hwy 2	12 Columns (6' dia.)	Seismic	Sep-91
Caltrans 07-115994 I-5 & Hwy 2 Los Angeles	NB I-5 to Griffith Park	3 Columns (4' dia.)	Seismic	Oct-91
Caltrans 07-115994 I-5 & Hwy 2 Los Angeles	NB I-5 to WB Hwy 2 Bents 11 & 12 repaired	Columns	Seismic	Feb-92
Malibu Residence	Malibu, CA	1 Beam (1.3' x 2.5' x 50') 10 Columns (6.28' dia.)	Corrosion Repair	Jun-92
Caltrans Hwy 05-377704	101North Santa Barbara	2 Columns (5' dia.)	Seismic	Jul-92
Sparks	I-80 at Nugget Hotel	96 Columns (3' dia.) Plastic Hinge Zone	Seismic	Jan-93
Wisconsin	I-94 at Rte 12/18 Madison	2 Columns (2.5' dia.)	Repair	Jul-93
Pennsylvania Lakawanna County	Scranton I-84 over Roaring Brook	6 Columns (5' dia.)	Seismic/Repair Corrosion Control	Jul-93
Fort Lewis Army Base	Corps of Engineers Washington State	8 Columns (2.5' dia.)	Seismic/Repair Corrosion Control	Aug-93



Fort Lewis Army Base	Corps of Engineers Washington State	2 Tanks (60' dia.) 8 Columns (2.5' dia.)	Seismic/Repair Corrosion Control	Aug-93
Wisconsin	I-90 at Church St. Madison	6 Columns (2.5' dia.)	Repair	Oct-93
Nikko Hotel	Beverly Hills, CA	34 Rectangular Columns	Seismic	Oct-93
City of Santa Monica	Garage #5 Santa Monica	1 Rectangular Column	Seismic Repair	Jan-94
City of Los Angeles	Pico/Overland Parking Garage	140 Rectangular Columns (some tapered)	Seismic Repair	Feb-94
SWTSU Bobcat Stadium	San Marcos, Texas	4 Light Pole Foundations	Repair/Strengthening	Mar-94
City of Santa Monica	Garage #2	4 Rectangular Columns	Seismic Repair	Mar-94
City of Los Angeles (Condominiums)	15130 Dickens St. Santa Monica, CA	17"-18" Dia. Columns in Garage; Tyfo U Finish	Seismic Repair	Apr-94
I-635 Dallas & Marsh Lane	Dallas, Texas	30" Dia. Circular Column Repair	Impact Repair	Apr-94
City of New York	FDR Drive near Manhattan Bridge	2 Columns (2' x 4')	Corrosion Repair	May-94
Vermont DOT	Bridge #60 South Bent	3 Columns (3' dia.) 17.5 ft. tall	Corrosion Repair	Jun-94
City of Los Angeles	1735 Kinzie Street Northridge, CA	2 Columns (18" dia.) 8.5 ft. tall	Seismic Repair	Jun-94
City of Santa Clarita	Sierra Plaza Parking (under plaza)	20 Columns (12" x 16") 8 ft. tall	Seismic Repair	Jul-94
City of Los Angeles	Valley Star Apartments	24 Columns (16" dia.) 6.7 ft. tall	Seismic Repair	Jul-94
City of Los Angeles	Kaiser Permanente Parking Garage	140 Columns/Corbels 24" x 24" x 11 ft. tall 1" gap between column & beam	Seismic Repair	Aug-94
Wisconsin DOT	I-90 over Route 14E at Janesville	10 Columns (30" dia.) 15 ft. tall	Corrosion Repair	Aug-94
State University Long Beach	McIntosh Humanities Building	4 Columns (2' x 2') 16 ft. tall	Seismic Repair	Aug-94
Bridge to Raft Island	One Wooden Pile with special Tyfo® SW (under water epoxy)	1 Wooden Pile (12" dia.) 40 ft. tall. Wrapped from mud line up to 8 ft.	Wood Corrosion	Aug-94
Poplar Street	East St. Louis, Illinois	1 Column (4' dia.)	Flexural test of actual bridge column	Sep-94
Railroad Bridge	I-90 City of Buffalo Exit 52	2 Columns (3.5' dia.)	Corrosion Repair	Oct-94
Ward's Plaza Parking Structure	18th & La Cienaga West Los Angeles, California	167 Circular Columns (2' dia. x 8' tall)	Seismic Repair	Oct-94





Harris Hospital Parking Garage	Fort Worth, Texas	15 Columns for new Heliport Addition	Strengthen for Additional Loading	Nov-94
Fashion Square	Sherman Oaks, CA	Two 24" x 24" x 8' Rectangular Columns	Seismic	Nov-94
I-37 & New Braunfels	San Antonio, Texas	One Column (30" dia.) 9' tall	Provide Ductility	Jan-95
Elm St.	City of Beverly Hills, California	Three 12" x 24" x 5' Rectangular Columns	Seismic Fire Protection	Mar-95
Embassy Suites	Canyon Del Rey Seaside, CA	28 - 30" x 36" x 14.5' Rectangular Columns New Construction	Seismic Fire Protection	Apr-95
I-635 Marsh	Dallas, TX	Columns	Column Wrap	Apr-95
Malibu Residence	Malibu, CA	6 Circular Columns (12- 18" dia., 6-9' tall)	Seismic Corrosion	Apr-95
Malibu Residence	Malibu, CA	4 Circular Columns 24" dia. by 12' 2 Circular Columns 18" dia. by 12'	Seismic Corrosion	Apr-95
Lindberg Ave. Traffic Light	St. Louis, MO	Light Pole Foundation Conical Shape	Structural Repair	May-95
Ridgley Residence	Malibu, CA	4 Circular Columns 24" dia. by 12'	Seismic Corrosion	May-95
I-276 over Old York Rd.	Philadelphia, PA	One Rectangular Col.	Impact Repair	Jun-95
Calais Bldgs. I & II	Anchorage, AK	164 Columns 28" x 28"	Seismic Upgrade	Jun-95
Webster Parking Structure	Sherbrooke, Quebec	Beams & Columns	Strengthening	Jun-95
Webster Parking Structure	Sherbrooke, Quebec	Beams & Columns	Strengthening	Jun-95
Pont Clement	Montreal, Quebec	Columns	Repair/Strengthening	Jun-95
Champlain Bridge	Montreal, Quebec	Beams	Repair/Strengthening	Jun-95
Refinery Chimney Stacks	Texas	4 Chimney Stacks	Repair/Strengthening	Jun-95
Arizona Pipe Lining	Arizona	Large Diameter Pipe Lining	Strengthening Interior	Jun-95
Agway Feedmill	Guilderland, NY	10 Beams (352 LF)	Non-Seismic	Jul-95
North 21st Bridge	Tacoma, WA	8 Columns (40' tall) (4' x 4' or 4' x 7.5') 8 Pedestals	Seismic Historic Finish	Jul-95
SDSU Parking Structure #2	San Diego, CA	67 Rectangular Columns (with conduits, cables, etc)	Seismic	Aug-95
Mannette Bridge	Kitsap County, Washington	2'-6" x 6' Pier Caps Four 23' long Four 27'-10" long	Seismic	Sep-95
Pacific Business Center Parkade	Richmond, B.C.	Beams-Columns Joints	Repair	Sep-95
Ultramar Refinery Fluid Catalytic Cracking Unit	Los Angeles, CA	Pier Caps/2 Columns	Seismic/Fire Protection	Sep-95
Ultramar Refinery	Los Angeles, CA	Two 3-Column-Beam Frame Pipe Supports	Seismic/Fire Protection	Sep-95
Pacific Business Center Parkade	Richmond, B.C.	Beam-Column Joints	Repair	Sep-95
Ultramar Refinery Fluid Catalytic Cracking Unit	Los Angeles, CA	2 Columns / Pier Caps	Seismic/Fire Protection	Sep-95
Ultramar Refinery	Los Angeles, CA	Two 3-Column-Beam Frame Pipe Supports	Seismic/Fire Protection	Sep-95
Texaco Refinery	Los Angeles, CA	7 Beams & Beam / Column Connections & 4 Columns	Seismic/Fire Protection	Oct-95
Granville Street Bridge	Vancouver, B.C.	6 Column (7' x 6') over 9' hinge region	Seismic	Oct-95





Snowsheds	Revelstoke, B.C.	3 Columns	Corrosion Repair	Oct-95
Confederation Realty Garage	Toronto, Ontario	3 Columns 1 Wall	Non-Seismic Corrosion Repair	Oct-95
I-70 Topeka Ave.	Topeka, Kansas	Columns	Non-Seismic Corrosion Repair	Oct-95
Texaco Refinery	Los Angeles, CA	4 Columns, 7 Beams & Beam / Column Connections	Seismic/Fire Protection	Oct-95
Petro Canada Refinery	Oakville, Ontario	8 Vessel Support Columns	Non-Seismic Structural Repair	Oct-95
Cotzen Residence	Malibu, CA	1 Beam (1.3' x 2.5' x 50') 10 Columns (6.28' dia.)	Corrosion Repair	Nov-95
I-37	San Antonio, TX	Columns	Wrap	Nov-95
Malibu Residence	Malibu, CA	2 Columns	Corrosion Repair	Nov-95
Rte. 29 Bridge over Rapidan River	Ruckersville, VA	15 Columns	Flood Repair	Dec-95
423 Stansbury Parking Garage	Sherman Oaks, CA	8 Columns (12" dia.)	Seismic Repair Fire Protection	Jan-96
Great Western Bank Bldg.	Sherman Oaks, CA	20 Walls (9' x 13') in stairwell & elevator shaft	Seismic Repair Fire Protection	Feb-96
Stanford Univ. Abrams House	Palo Alto, CA	3 interior Columns	Seismic Repair Fire Protection	Feb-96
Centinela Hospital	Inglewood, CA	44 Columns 8 Walls	Seismic Repair Fire Protection	Mar-96
Capitol Manor	Salem, Oregon	15 Columns 24" X 24"	Seismic	Mar-96
SWTSU Stadium Lights	San Marcos, TX	Stadium Light Pedestals	Base Wrap	Mar-96
UCLA Powell Library	Pasadena, CA	16 Columns	Seismic Repair	Mar-96
Route 571 Garden State Parkway	Ocean County, NJ	6 Bearing Pedestals	Strengthening	Apr-96
Powell Library	UCLA	16 Columns	Seismic	May-96
St. Joseph's Church	Guam	Walls on Dome	Seismic	May-96
Leslie Street	Toronto, Ontario	Pier Caps	Corrosion	Jun-96
Hydro Poles	Indiana	2 Concrete Power Poles	Crack Repair/ Strengthening	Jun-96
Spring Apartments	Los Angeles, CA	39 Columns	Seismic	Jun-96
S.F. State University Parking Structure	San Francisco, CA	276 Columns 408 Cold Joints (SCH-41 Carbon)	Seismic	Jun-96
Stanford Univ. Abrams House	Stanford, CA	26 Columns	Seismic	Jun-96
Northgate Apartments	Los Angeles	6 Columns	Seismic	Jun-96
Wisconsin Civic Auditorium	Wisconsin	Columns	Corrosion Repair	Jun-96
Civic Auditorium	City of San Gabriel, CA	Large Wall	Impact Protection	Jun-96
Hydro Poles	Indiana	2 Concrete Power Poles	Crack Repair/Strengthening	Jun-96
Houston Intercontinental Airport	Houston, TX	2 Beams	Increase Axial Load Capacity	Jul-96
Clock Tower	Singapore	Tower	Repair	Jul-96
Stanford Univ. Escondido Village, 4 Apt. Bldgs.	Stanford, CA	104 Columns	Seismic	Jul-96
I-10 & San Jacinto River	Houston, TX	5 Columns	Provide Ductility	Jul-96
Bloomingdales	Los Angeles	48 Columns	Seismic Upgrade	Jul-96
S.D.S.U. Parking Garage #1	San Diego, CA	2 Columns	Seismic	Jul-96
Old County Court House (phase-1)	Redwood City, CA	4 Floors of Beam/Wall Connections	Seismic	Aug-96
631 Cliff Dr.	Laguna, CA	2 Prestressed I-Beams (carbon/glass hybrid)	Flexural/Shear Strengthening	Aug-96
Chevron Parking Garage 45 VTPC Bldg.	Richmond, CA	Slab Strengthening 4 Floors	Seismic	Aug-96
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Washoe Medical Center         Reno, NV         2 Columns         Seismic Upgrade         Sep-98           Pembrook         Concord, NH         & Columns         Structural Repair         Cct-96           Hiltion         Pasadena, CA         Beaum ont, TX         Columns         Column Wrap         Cct-96           Hiltion         Pasadena, CA         Beams / Columns         Scismic Retrofit         Cct-96           Hiltion         Pasadena, CA         Beams / Columns         Seismic Upgrade         Nov-96           Kaiser Medical Center         Los Angeles, CA         2 Columns         Seismic Upgrade         Nov-96           Bohannon Development         San         8 Columns         Seismic Upgrade         Nov-96           Bohannon Development         San         8 Columns         Seismic Shear Strengthening         Nov-96           Wilson 4-Unit Apartments         Pasadena, CA         Slabs         Seismic Shear Strengthening         Nov-96           Service         45th         Substation         Marillo, TX         Transission Pole         Strengthening for AASHTO         De-96           Cainhoy Road         North         10 Wood Pirets/slab         Strengthening for AASHTO         De-96           Cainhoy Road         North         10 Wood Pirets/slab         Str	Plaza Parking Garage	Olympia, WA	420 Columns	Seismic Upgrade	Sep-96
Pembrook         Concord, NH         8 Columns         Structural Repair         Oct-96           Beaumont (TX)         Columns         Column Wrap         Oct-96           Hilton         Pasadena, CA         Beams (Columns/Walls         Seismic Retrofit         Oct-96           L96 Sus Overpass         Spartanburg, Sc         Exterior Beam of Deck         Spartanburg, Sc         Seismic Upgrade         Nov-96           Kaiser Medical Center         Los Angeles, CA         48 Columns         Seismic Upgrade         Nov-96           Bohannon Development         San         6 Columns         Seismic Upgrade         Nov-96           Milson 4-Unit Apartments         Pasadena, CA         Slabs         Seismic Spair         Nov-96           Scuthwestern Public         Amarillo, TX         Transmission Pole         Strengthening         Nov-96           Schrice         Waco, TX         Wood Bridge         Wrap         Nov-96           Cainhoy Road         North         (10 Wood Piers'slab         Strengthening for AASHTO         Dec-96           Cainhoy Road         North         (10 Wood Piers'slab         Strengthening for AASHTO         Dec-96           Cainhoy Road         North         (10 Wood Piers'slab         Strengthening for AASHTO         Dec-96 <t< td=""><td>Davis High School</td><td>Davis, CA</td><td>14 Columns</td><td>Seismic Fire Protection</td><td>Sep-96</td></t<>	Davis High School	Davis, CA	14 Columns	Seismic Fire Protection	Sep-96
Beaumont 69 Hiltion Pasadena, CA Beams / Columns / Column wrap Oct-96 Hiltion Pasadena, CA Beams / Columns / Column wrap SC SC UPS TIII-Up Bidg. Van Nuys, CA Asser Medical Center CA Bohannon Development San Francisco, CA Wilson 4-Unit Apartments Pasadena, CA Solumns Solsmic Upgrade Nov-96 Southwestern Public Scr Southwestern Public Sorvice Affancisco, CA Solumns Solsmic Upgrade Nov-96 Southwestern Public Southwestern Public Sorvice Affancisco Calinhoy Road North 10 Wood Piers/Slab Structural Repair Dec-96 Calinhoy Road North Sorvice Calinhoy Sorvice Calinhoy Sorvice Sorvice	Washoe Medical Center	Reno, NV	2 Columns	Seismic Upgrade	Sep-96
Beaumont 69 Hiltion Pasadena, CA Beams / Columns / Column wrap Oct-96 Hiltion Pasadena, CA Beams / Columns / Column wrap SC SC UPS TIII-Up Bidg. Van Nuys, CA Asser Medical Center CA Bohannon Development San Francisco, CA Wilson 4-Unit Apartments Pasadena, CA Solumns Solsmic Upgrade Nov-96 Southwestern Public Scr Southwestern Public Sorvice Affancisco, CA Solumns Solsmic Upgrade Nov-96 Southwestern Public Southwestern Public Sorvice Affancisco Calinhoy Road North 10 Wood Piers/Slab Structural Repair Dec-96 Calinhoy Road North Sorvice Calinhoy Sorvice Calinhoy Sorvice Sorvice	Pembrook	Concord, NH	8 Columns	Structural Repair	Oct-96
Hillion Pasadena, CA Beams / Columns/Walls Seismic Retrofit Oct-96 L86 Bus Overpass Spatraburg, Exterior Beam of Deck Impact Repair/Strengthening Nov-96 Kaiser Medical Center Los Angeles, C Columns Seismic Upgrade Nov-96 CA CA Bohannon Development San Bouth San Seismic Upgrade Nov-96 CA Southwestern Public San Southwestern Public Amarillo, TX Service Substation TU Electric Waco, TX Wood Bridge Wrap Nov-96 Charleston (SCH-41 carbon) Upgrade Transco, CA Cainhoy Road North (Owod Piers/Slab) Strengthening for AASHTO Dec-96 Cainhoy Road North (Charleston, SCH-41 carbon) Upgrade Cainhoy Road North (SCH-41 carbon) Upgrade Cain	Beaumont 69		Columns		
Spartamburg   Exterior Beam of Deck   Impact Repair/Strengthening   Nov-96   SC   SC   VPS Till-Up Bidg   Van Nuys, CA   48 Columns   Seismic Upgrade   Nov-96   No					
UPS Till-Up Bildg. Kasier Medical Center Los Angeles, CA Bohannon Development San Francisco, CA Pasadena, CA Bilds Seismic Upgrade Nov-98 Francisco, CA Bohannon Development Francisco, CA Bohannon Development Suthwestern Public Southwestern Public	I-85 Bus Overpass	Spartanburg,			
Kaiser Medical Center CA Bohannon Development San Francisco, CA Signary Wilson 4-Unit Apartments Francisco, CA Southwestern Public Service Substation TU Electric Waco, TX Wood Bridge Wrap Calinhoy Road North Calinhoy Road North Charleston Charleston Charleston Charleston Charleston Charleston Charleston Signary Signa	LIPS Tilt-Lin Blda		48 Columns	Seismic I Ingrade	Nov-96
Bohannon Development San Francisco, CA Wilson 4-Unit Apartments Prancisco, CA Stabs Seismic Repair Nov-96 Francisco, CA Stabs Seismic Repair Nov-96 Service Affirm Substation Substation Substation Pole Affirm Substation Pole Affir	Kaiser Medical Center	Los Angeles,			
Wilson 4-Unit Apartments   Pasadena, CA   Slabs   Seismic Repair   Nov-96   Southwestern Public   Amarillo, TX   Afsh   Substation   TU Electric   Waco, TX   Wood Bridge   Wrap   Nov-96   North   10 Wood Piers/ Slab   Strengthening for AASHTO   Dec-96   Charleston   CSCH-41 carbon)   Upgrade   Dec-96   Dec-9	Bohannon Development	San	8 Columns	Seismic Shear Strengthening	Nov-96
Southwestern Public Amarillo, TX 45th Substation TU Electric Waco, TX Wood Bridge Wrap Nov-96 Cainhoy Road North (SCH-41 carbon) Upgrade  Timber Creek Overpass Bellmawr, NJ 1 Column (24" dia.) Structural Repair Dec-96 Francisco, CA Seismic Upgrade  Timber Creek Overpass Bellmawr, NJ 1 Column (24" dia.) Structural Repair Dec-96 Cainhoy Road Pers (SCH-41 carbon) Upgrade  Easter Restaurant San 2 Columns Seismic Upgrade Dec-96 Cainhoy Road North Charleston, (SCH-41 carbon) Upgrade  Tu Electric Seismic Seismic Upgrade Dec-96 Cainhoy Road North (SCH-41 carbon) Upgrade  Tu Electric Lake Creek Substation, TX (glass/carbon in water)  San Fernando, CA  Us Highway 69 Beaumont, TX 4 Columns Provide Ductility Jan-97 Fernando, CA  Us Highway 69 Beaumont, TX 4 Columns Provide Ductility Jan-97 Kansas (Raiser Hospital Parking Martinez, CA)  Marithon Oil Parking Houston, TX Parking Structure Repair Warpstructure Marathon Oil Parking Houston, TX Parking Structure Repair Nar-97 CA  Water Pipe Repairs Arizona Parking Carbon New York, NY Concrete Smokestak Seismic Repair Apr-97 CA  Water Pipe Repairs Arizona Parking Structure Repair Apr-97 CA  Water Pipe Repairs Arizona Parking Carbon Seismic Strengthening Mar-97 Structure CA Parking Structure Repair Apr-97 CA  Water Pipe Repairs Arizona Parking Carbon Seismic Repair Apr-97 CA  Water Pipe Repairs Arizona Parking Columns Seismic Repair Apr-97 CA  Broxton Parking Structure Los Angeles, CA  Broxton Parking Structure Los Angeles, CA  Signic Beam Strengthening Jul-97  CA  Concrete Pile Rehabilitation CA  CA  Columns Seismic Repair Apr-97  Cal State Univ. Los Angeles, CA  Columns Seismic Repair Apr-97  CA  Concrete Pile Rehabilitation CA  CA  Columns Seismic Repair Jul-97  Cal State Univ. Los Angeles, CA  Columns Seismic Pagair Jul-97  Cal State Univ. Los Angeles, CA  Columns Seismic Pagair Jul-97  Cal State Univ. Los Angeles, CA  Columns Seismic Repair Jul-97  Cal State Univ. Los Angeles, CA  Columns Seismic Pagair Jul-97  Cal State Univ. Los Angeles, CA  Columns Seismic Ungrade Jul-97	Wilson 4-Linit Apartments		Slahs	Seismic Repair	Nov-96
Service Substation TU Electric Waco, TX Wood Bridge Wrap Nov-96 Carinhoy Road North 10 Wood Piers/ slab Strengthening for AASHTO Dec-96 Carinhoy Road North Slabs/10 Wood Piers/ slab Strengthening for AASHTO Dec-96 Beale Street Restaurant San 2 Columns Seismic Upgrade Dec-96 Carinhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slab Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North Slabs/10 Wood Piers Slabs/10 W					
TU Electric Waco, TX Wood Bridge Wrap Nov-96 Cainhoy Road North 10 Wood Piers/slab Strengthening for AASHTO Dec-96 Timber Creek Overpass Bellmawr, NJ 1 Column (24" dia.) Structural Repair Dec-96 Beale Street Restaurant San 2 Columns Seismic Upgrade Dec-96 Francisco, CA Cainhoy Road North Slabs/10 Wood Piers Strengthening for AASHTO Dec-96 Charleston, SC Cainhoy Road North (SCH-41 carbon) Upgrade Upgrade Dec-96 Charleston, SC Cainhoy Road North (SCH-41 carbon) Upgrade Upgrade Dec-96 Charleston, SC Cainhoy Road North (SCH-41 carbon) Upgrade Upgrade Upgrade Upgrade Upgrade Upgrade Substation, TX (glass/carbon in water) SC Cainhoy Road North (SCH-41 carbon) Strengthening for AASHTO Upgrade	Service	45th	Transmission Fold	Cuonguloring	1107 00
Cainhoy Road  North Charleston (SCH-41 carbon)  Dec-96 (SCH-41 carbon)  Dec-96 Beale Street Restaurant San 2 Columns Bealer Street Restaurant San 2 Columns Seismic Upgrade  Dec-96 Cainhoy Road  North Charleston, SC  Columns Seismic Repair  Man-97  Seismic Repair  Mar-97  Structure  Marathon Oil Parking Martinez, CA Marathon Oil Parking Marinez, CA Marathon Oil Parking Marinez	TU Flectric		Wood Bridge	Wran	Nov-96
Timber Creek Overpass Bellmawr, NJ 1 Column (24" dia.) Structural Repair Dec-96 Beale Street Restaurant San Ze Columns Seismic Upgrade Dec-96 Francisco, CA  Cainhoy Road North Slabs/10 Wood Piers Strengthening for AASHTO Dec-96 Charleston, SC Scounty Charleston, SC Scounty Road North Charleston, Scounty Road North Charleston, SC Scounty Road North Charleston, SC Scounty Road North Charleston, Scounty Road North Ro					
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Beale Street Restaurant San Francisco, CA Cainhoy Road North Charleston, (SCH-41 carbon) SC Cainhoy Road North Charleston, (SCH-41 carbon) SC Cainhoy Road North Charleston, (SCH-41 carbon) SC Cainhoy Road North Charleston, (SCH-41 carbon) Upgrade TU Electric Lake Creek Substation, TX (glass/carbon in water) San Fernando Courthouse San Fernando, CA US Highway 69 Beaumont, TX 1 Columns Fernando, CA US Highway 69 Beaumont, TX 1 Columns Fernando, CA US Hospital Parking Structure Marathon Oil Parking Structure Arroyo Quemado Los Angeles Arroyo Quemado Los Angeles, Columns Columns Seismic Repair Jan-97 Seismic Upgrade Mar-97 Structure Repair/Wrap Mar-97 Structure Arroyo Quemado Los Angeles, Columns Seismic Strengthening Mar-97 Structure CA Water Pipe Repairs Arizona 2 Pipe Sections Seismic Strengthening Apr-97 Seismic Strengthening Mar-97 Seismic Seismic Upgrade Jun-97 Seismic Structural Repair Apr-97 Seismic Strengthening Mar-97 Seismic Strengthening Mar-97 Seismic Strengthening Mar-97 Seismic Strengthening Mar-97 Seismic Repair Apr-97 CA Seismic Strengthening Jul-97 Seismic Repair Apr-97 Seismic Repair Apr-9	Timber Creek Overnass	Bellmawr N.I	1 Column (24" dia )	Structural Repair	Dec-96
Cainhoy Road North Charleston, (SCH-41 carbon) Upgrade  Cainhoy Road North (SCH-41 carbon) Upgrade  Cainhoy Road North 10 Wood Piers (ScH-41 carbon) Upgrade  Cainhoy Road North 10 Wood Piers/Slab Strengthening for AASHTO Dec-96 (SCH-41 carbon) Upgrade  TU Electric Lake Creek Substation, TX (glass/carbon in water)  San Fernando Courthouse San 10 Columns Seismic Repair Dec-96 (SCH-41 carbon)  San Fernando Courthouse San 10 Columns Seismic Repair Jan-97 (Soverpass Column Kansas City, 1 Columns Provide Ductility Jan-97 (Sansas)  Kaiser Hospital Parking Martinez, CA 144 Circular Columns Seismic Upgrade Mar-97 Structure  Marathon Oil Parking Houston, TX Parking Structure Repair War-97 (Structure)  Marathon Oil Parking Structure Seismic Strengthening Mar-97 (Sarbon) Seismic Strengthening Apr-97 (CA)  Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 (CA)  Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 (CA)  Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 (CA)  Marathor Mospital Parking Walnut Creek, Sc Rectangular Columns Seismic Upgrade Jun-97 (CA)  Broxton Parking Structure Los Angeles, Columns Seismic Retrofit Apr-97 (CA)  Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 (CA)  Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 (CA)  Water Pipe Repairs Arizona Seismic Retrofit Apr-97 (CA)  Water Pipe Repairs Arizona Seismic Upgrade Jun-97 (CA)  Water Pipe Repairs Arizona Seismic Upgrade Jun-97 (CA)  Water Pipe Repairs Arizona Seismic Upgrade Jun-97 (CA)  Water Pipe Repairs Arizona Seismic Retrofit Jun-97 (CA)  Water Pipe Repairs					
Cainhoy Road  North Charleston, SC  Cainhoy Road  North Charleston, SC  Cainhoy Road  North Charleston, SC  Cainhoy Road  North Charleston, Charleston	20.3 0.100.1100.00.00.00		_ 50.0	Co.Simo Opgiado	200 00
Cainhoy Road  North Charleston, Charleston	Cainhoy Road	North Charleston,			Dec-96
Charleston, (SCH-41 carbon) Upgrade  TU Electric Lake Creek Substation, TX (glass/carbon in water)  San Fernando Courthouse San Fernando, CA  US Highway 69 Beaumont, TX 4 Columns Provide Ductility Jan-97  I-5 Overpass Column Kansas City, Kansas City, Kansas City, Kansas City, Kansas City, Kansas City Carbon Dil Parking Martinez, CA 144 Circular Columns Seismic Upgrade Mar-97  Structure Marathon Oil Parking Houston, TX Parking Structure Repair/Wrap Mar-97  Structure Arroyo Quemado Los Angeles 12 Columns Seismic Strengthening Mar-97  Structure Arroyo Cuemado Los Angeles 12 Columns Seismic Strengthening Mar-97  Georgia Pier Cap Dalton, GA 2 Pier Caps (SCH-41 Seismic Strengthening Apr-97  UCLA Harbor Hospital Los Angeles, Columns Seismic Retrofit Apr-97  Water Pipe Repairs Arizona Pyork, NY Concrete Smokestack Structural Repair Apr-97  Kaiser Hospital Parking Walnut Creek, CA  Browton Parking Structure Los Angeles, CA  Structure CA  Structure Structure Los Angeles, CA  CA  Seismic Retrofit Apr-97  Kaiser Hospital Parking Walnut Creek, CA  Structure CA  Structure Los Angeles, Columns Seismic Upgrade Jun-97  Kaiser Hospital Parking Structure Los Angeles, CA  Seismic Upgrade Jun-97  Kaiser Hospital Parking Structure Los Angeles, CA  Seismic Retrofit Jun-97  Kaiser Hospital Parking Structure Los Angeles, CA  Seismic Upgrade Jun-97  Structure CA  Seismic Retrofit Jun-97  Seismic Upgrade Jun-97  Seismic Upgrade Jun-97  CA  Seismic Retrofit Jun-97  Seismic Repair Apr-97  Canada  St. Rose Hospital Hayward, CA 84 ft. Beam Strengthening Jul-97  Calcomp Los Angeles, Columns Seismic Repair Jul-97  CA  Concrete Pile Rehabilitation Long Island, NY Railroad  Cal State Univ. Los Angeles Los Angeles, CA  CA  PRC Properties Los Angeles, CA  Los Angeles, CA  Los Angeles, CA  CA  CA  PRC Properties Los Angeles, CA  CA Scolumns Seismic Upgrade Jul-97  Jul	Cainhoy Road		10 Wood Piers/Slah	Strengthening for AASHTO	Dec-96
Substation, TX (glass/carbon in water)  San Fernando Courthouse San Fernando, CA  US Highway 69 Beaumont, TX 4 Columns Fernando, CA  US Highway 69 Beaumont, TX 4 Columns Fernando, CA  US Highway 69 Beaumont, TX 4 Columns Fernando, CA  Wansas City, 1 Column (20' tall) Impact Repair Jan-97  Kansas City, 1 Column (20' tall) Impact Repair Jan-97  Kansas City, 1 Column (20' tall) Impact Repair Jan-97  Kansas City, 1 Column (20' tall) Impact Repair Jan-97  Kansas City, 1 Column (20' tall) Impact Repair Marethon Oil Parking Marthon Oil Parking Mar	ourney Road				DC0 00
San Fernando Courthouse Fernando, CA Fernando, CA Beaumont, TX 4 Columns Provide Ductility Jan-97 Fernando, CA Kansas City, C	TU Electric			Strengthen/Rot Repair	Dec-96
Soverpass Column   Kansas City, Kansas   Column (20' tall)   Impact Repair   Jan-97	San Fernando Courthouse	San		Seismic Repair	Jan-97
Soverpass Column   Kansas City, Kansas City, Kansas   Column (20' tall)   Impact Repair   Jan-97   Kansas   Kaiser Hospital Parking   Martinez, CA   144 Circular Columns   Seismic Upgrade   Mar-97   Structure   Marathon Oil Parking   Houston, TX   Parking Structure   Repair/Wrap   Mar-97   Mar-97   Structure   Repair Wrap   Mar-97	US Highway 69	Beaumont, TX	4 Columns	Provide Ductility	Jan-97
Kaiser Hospital Parking Martinez, CA 144 Circular Columns Seismic Upgrade Mar-97 Structure Marathon Oil Parking Houston, TX Parking Structure Repair/Wrap Mar-97 Structure  Arroyo Quemado Los Angeles 12 Columns Seismic Strengthening Mar-97 Georgia Pier Cap Dalton, GA 2 Pier Caps (SCH-41 Seismic Strengthening Apr-97 carbon)  UCLA Harbor Hospital Los Angeles, Columns Seismic Retrofit Apr-97 CA  Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 Amtrak Chimney Repair New York, NY Concrete Smokestack Structural Repair Apr-97 Structure CA  Broxton Parking Structure Los Angeles, CA  Irvine Towers Irvine, CA Columns Seismic Upgrade Jun-97 Ontario, Canado  St. Rose Hospital Hayward, CA 84 ft. Beam Strengthening Jul-97 CA  Cal State Univ. Los Angeles Los Angeles, CA  Concrete Pile Rehabilitation Long Island, NY Railroad  Cal State Univ. Los Angeles Los Angeles, CA  PRC Properties Los Angeles, 23 Columns Seismic Upgrade Jul-97 CA  St. Cangeles, CA  Columns Seismic Strengthening Jul-97 CA  Seismic Upgrade Jul-97 CA  Seismic Strengthening Jul-97 CA  Seismic Upgrade Jul-97 CA  Seismic U		•	1 Column (20' tall)		
Structure Arroyo Quemado Los Angeles 12 Columns Seismic Strengthening Apr-97 Georgia Pier Cap Dalton, GA 2 Pier Caps (SCH-41 Seismic Strengthening Apr-97 Carbon)  UCLA Harbor Hospital Los Angeles, CA Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 Amtrak Chimney Repair New York, NY Concrete Smokestack Structural Repair Apr-97 Kaiser Hospital Parking Walnut Creek, CA Broxton Parking Structure Los Angeles, CA Irvine, CA Columns Seismic Upgrade Jun-97 Seismic Upgrade Jun-97 Seismic Retrofit Jun-97 Seismic Upgrade Jun-97 Canada St. Rose Hospital Hayward, CA 84 ft. Beam Strengthening Jul-97 Calcomp Los Angeles, CA Seismic Retrofit Jul-97 Seismic Retrofit Jul-97 Calcomp Los Angeles, CA Seismic Retrofit Seismic Repair Jul-97 Calcomp Los Angeles, CA Seismic Retrofit Jul-97 Calcomp Los Angeles, CA Seismic Retrofit Seismic Repair Jul-97 Calcomp Los Angeles, CA Seismic Retrofit Jul-97 CA Seismic Retrofit Seismic Retrofit Jul-97 CA Seismic Retrofit Jul-97 CA Seismic Retrofit Jul-97 CA Seismic Retrofit Seismic Retrofit Jul-97 CA Seismic Repair Jul-97 CA Seismic Repair Jul-97 CA Seismic Repair Jul-97 CA Seismic Upgrade Jul-97 CA PRC Properties Los Angeles, CA Seismic Upgrade Jul-97 Seismic Upgrade Jul-97 CA Seismic Upgrade Seismic Vertical Repair Apr-97 Ap	Kaiser Hospital Parking Structure	Martinez, CA	144 Circular Columns	Seismic Upgrade	Mar-97
Georgia Pier Cap  Dalton, GA  2 Pier Caps (SCH-41 Seismic Strengthening Apr-97 carbon)  UCLA Harbor Hospital  Los Angeles, CA  Water Pipe Repairs  Arizona  2 Pipe Sections  Repair  Apr-97  Amtrak Chimney Repair  New York, NY  Concrete Smokestack  Structural Repair  Apr-97  Kaiser Hospital Parking  Walnut Creek, CA  Broxton Parking Structure  Los Angeles, CA  Irvine, CA  Irvine, CA  Irvine, CA  Seismic Retrofit  Jun-97  CA  Irvine Towers  Irvine, CA  Seismic Retrofit  Jun-97  Concrete Beams  Non-Seismic Repair  Jul-97  Calcomp  Los Angeles, Columns  Seismic Retrofit  Jul-97  Calcomp  Calcomp  Los Angeles, Columns  Seismic Retrofit  Jul-97  Calcomp  Calcomp  Calcomp  Los Angeles, Calcomp  Calcom	Marathon Oil Parking Structure	Houston, TX	Parking Structure	Repair/Wrap	Mar-97
Georgia Pier Cap  Dalton, GA  2 Pier Caps (SCH-41 Seismic Strengthening Apr-97 carbon)  UCLA Harbor Hospital  Los Angeles, CA  Water Pipe Repairs  Arizona  2 Pipe Sections  Repair  Apr-97  Amtrak Chimney Repair  New York, NY  Concrete Smokestack  Structural Repair  Apr-97  Kaiser Hospital Parking  Walnut Creek, CA  Broxton Parking Structure  Los Angeles, CA  Irvine, CA  Irvine, CA  Irvine, CA  Seismic Retrofit  Jun-97  CA  Irvine Towers  Irvine, CA  Seismic Retrofit  Jun-97  Concrete Beams  Non-Seismic Repair  Jul-97  Calcomp  Los Angeles, Columns  Seismic Retrofit  Jul-97  Calcomp  Calcomp  Los Angeles, Columns  Seismic Retrofit  Jul-97  Calcomp  Calcomp  Calcomp  Los Angeles, Calcomp  Calcom	Arroyo Quemado	Los Angeles	12 Columns	Seismic Strengthening	Mar-97
Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 Amtrak Chimney Repair New York, NY Concrete Smokestack Structural Repair Apr-97 Kaiser Hospital Parking Walnut Creek, CA Broxton Parking Structure Los Angeles, CA Irvine Towers Irvine, CA Columns Seismic Upgrade Jun-97 Bloor St. Viaduct Toronto, Concrete Beams Non-Seismic Repair Jul-97 Calcomp Los Angeles, CA St. Rose Hospital Hayward, CA 84 ft. Beam Strengthening Jul-97 CA SGI Building Santa Monica, CA SGI Building Santa Monica, CA Columns Seismic Repair Jul-97 CA Seismic Retrofit Jul-97 CA Seismic Seismic Repair Jul-97 CA Seismic Seismic Repair Seismic Repair Jul-97 CA Concrete Pile Rehabilitation Long Island, Several Piles along Non-Seismic Repair Jul-97 CA Cal State Univ. Los Angeles Los Angeles, CA PRC Properties Los Angeles, 23 Columns Strengthening Jul-97					Apr-97
Water Pipe Repairs Arizona 2 Pipe Sections Repair Apr-97 Amtrak Chimney Repair New York, NY Concrete Smokestack Structural Repair Apr-97 Kaiser Hospital Parking Walnut Creek, CA Broxton Parking Structure Los Angeles, CA Irvine Towers Irvine, CA Columns Seismic Upgrade Jun-97 Bloor St. Viaduct Toronto, Concrete Beams Non-Seismic Repair Jul-97 Calcomp Los Angeles, CA St. Rose Hospital Hayward, CA 84 ft. Beam Strengthening Jul-97 CA SGI Building Santa Monica, CA Concrete Pile Rehabilitation CA Cangeles, CA Concrete Pile Rehabilitation Long Island, NY Railroad Cal State Univ. Los Angeles Los Angeles, CA CA Concrete Properties Los Angeles, CA Columns Seismic Strengthening Jul-97 CA Seismic Upgrade Jul-97 CA Seismic Upgrade Jul-97 CA Seismic Upgrade Jul-97 CA Serveral Piles Seismic Upgrade Jul-97 CA Seismic Upgrade Jul-97	UCLA Harbor Hospital	•		Seismic Retrofit	Apr-97
Amtrak Chimney Repair Kaiser Hospital Parking Structure CA Broxton Parking Structure CI Irvine Towers Bloor St. Viaduct Canada St. Rose Hospital Hayward, CA St. Rose Hospital Hayward, CA SGI Building SGI Building SGI Building Cancrete Pile Rehabilitation Canade	Water Pipe Repairs		2 Pipe Sections	Repair	Apr-97
Kaiser Hospital Parking Structure CA  Broxton Parking Structure Los Angeles, CA  Irvine Towers Bloor St. Viaduct Canada St. Rose Hospital Calcomp Los Angeles, CA  St. Rose Hospital Calcomp Los Angeles, CA  Seismic Upgrade Jun-97  Seismic Upgrade Jun-97  Seismic Retrofit Jun-97  Concrete Beams Non-Seismic Repair Jul-97  Calcomp Los Angeles, CA  Seismic Retrofit Seismic Repair Jul-97  Calcomp Los Angeles, CA  Seismic Retrofit Seismic Retrofit Jul-97  Calcomp Los Angeles, CA  Seismic Retrofit Seismic Retrofit Jul-97  Calcomp Seismic Retrofit Seismic Retrofit Jul-97  CA  Selsmic Strengthening Jul-97  CA  Concrete Pile Rehabilitation Long Island, NY Railroad  Cal State Univ. Los Angeles CA  Los Angeles, CA  Selsmic Upgrade Jul-97  CA  Seismic Upgrade Jul-97  CA  PRC Properties Los Angeles, CA  Strengthening Jul-97					
Broxton Parking Structure CA  Irvine Towers Irvine, CA Bloor St. Viaduct Canada  St. Rose Hospital Calcomp Coanda  Seismic Upgrade Los Angeles, Concrete Beams Non-Seismic Repair Jul-97 Calcomp Los Angeles, Columns Seismic Repair Jul-97 Calcomp Los Angeles, Columns Seismic Retrofit Jul-97 Calcomp Los Angeles, Columns Seismic Retrofit Jul-97 CA  Seismic Retrofit Jul-97 CA  Seismic Retrofit Jul-97 CA  Seismic Strengthening Jul-97 CA  Concrete Pile Rehabilitation Long Island, Several Piles along NY Railroad  Cal State Univ. Los Angeles CA  Los Angeles, Calcomns Seismic Upgrade Jul-97 CA  Seismic Upgrade  Seismic	Kaiser Hospital Parking	Walnut Creek,			
Irvine Towers Irvine, CA Columns Seismic Retrofit Jun-97 Bloor St. Viaduct Toronto, Concrete Beams Non-Seismic Repair Jul-97 Ontario, Canada St. Rose Hospital Hayward, CA 84 ft. Beam Strengthening Jul-97 Calcomp Los Angeles, Columns Seismic Retrofit Jul-97 CA SGI Building Santa Monica, CA Concrete Pile Rehabilitation Long Island, NY Railroad Cal State Univ. Los Angeles Los Angeles, CA PRC Properties Los Angeles, 23 Columns Strengthening Jul-97 CA Seismic Strengthening Jul-97 CA Seismic Upgrade Jul-97 Seismic Upgrade Jul-97 Strengthening Jul-97 Seismic Upgrade Jul-97		Los Angeles,	Four Columns	Seismic Upgrade	Jun-97
Bloor St. Viaduct  Toronto, Ontario, Canada  St. Rose Hospital Hayward, CA Los Angeles, CA  SGI Building Santa Monica, CA  Concrete Pile Rehabilitation Cal State Univ. Los Angeles CA  Dos Angeles, CA  Los Angeles, CA  Los Angeles, CA  Several Piles along NY Railroad  Cal  Columns Seismic Retrofit Jul-97  Seismic Strengthening Jul-97  Non-Seismic Repair Jul-97  Non-Seismic Repair Jul-97  Seismic Strengthening Jul-97  Seismic Strengthening Jul-97  Seismic Upgrade Jul-97  CA  Serongeles, CA  Seismic Upgrade Jul-97  Seismic Upgrade Jul-97  Seismic Upgrade Jul-97	Irvine Towers		Columns	Seismic Retrofit	Jun-97
St. Rose Hospital Hayward, CA 84 ft. Beam Strengthening Jul-97 Calcomp Los Angeles, Columns Seismic Retrofit Jul-97 CA SGI Building Santa Monica, CA Concrete Pile Rehabilitation Long Island, NY Railroad Cal State Univ. Los Angeles CA PRC Properties Los Angeles, 23 Columns Strengthening Jul-97 CA Seismic Strengthening Jul-97 Non-Seismic Repair Jul-97 Seismic Upgrade Jul-97 Strengthening Jul-97 Seismic Upgrade Jul-97		Toronto, Ontario,			
Calcomp Los Angeles, Columns Seismic Retrofit Jul-97 CA  SGI Building Santa Monica, CA  Concrete Pile Rehabilitation NY Railroad  Cal State Univ. Los Angeles CA  Los Angeles, CA  Los Angeles, CA  Los Angeles, CA  RCOurrete Pile Rehabilitation NY Railroad  Los Angeles, CA  Los Angeles, CA  Los Angeles, CA  Los Angeles, CA  Seismic Retrofit Jul-97  Non-Seismic Repair Jul-97  Seismic Upgrade Jul-97  CA  PRC Properties  Los Angeles, 23 Columns Strengthening Jul-97	St. Rose Hospital		84 ft. Beam	Strengthening	Jul-97
SGI Building Santa Monica, CA  Concrete Pile Rehabilitation Long Island, NY Railroad  Cal State Univ. Los Angeles CA  PRC Properties Santa Monica, Eight Columns Seismic Strengthening Jul-97  Row Seismic Strengthening Jul-97  Non-Seismic Repair Jul-97  Row Seismic Upgrade Jul-97  Strengthening Jul-97		Los Angeles,			
Concrete Pile Rehabilitation Long Island, NY Railroad Non-Seismic Repair Jul-97 Railroad  Cal State Univ. Los Angeles Los Angeles, CA  PRC Properties Los Angeles, 23 Columns Strengthening Jul-97	SGI Building	Santa Monica,	Eight Columns	Seismic Strengthening	Jul-97
Cal State Univ. Los Angeles Los Angeles, CA  Los Angeles, 23 Columns Seismic Upgrade Jul-97  CA  Strengthening Jul-97	Concrete Pile Rehabilitation	Long Island,	•	Non-Seismic Repair	Jul-97
PRC Properties Los Angeles, 23 Columns Strengthening Jul-97	Cal State Univ. Los Angeles	Los Angeles,		Seismic Upgrade	Jul-97
	PRC Properties		23 Columns	Strengthening	Jul-97

Keswick Apts.	Overpark, CA	76 Columns	Seismic Upgrade	Jul-97
Kaiser Hospital Parking Structure	So. San	12 Columns	Seismic Upgrade	Jul-97
S.F. Civic Center	Francisco, CA San	Hollow Clay Tile Walls	Stabilization	Jul-97
S.F. CIVIC CEITE	Francisco, CA	Hollow Clay Tile Walls	Stabilization	Jui-91
Fox Plaza	San	Multiple Slab Balconies Corrosion Repair		Jul-97
Alamo Quarry Mall	Francisco, CA San Antonio,	3 Chimneys Wrap		Jul-97
·	TX	•	·	
Thousand Oaks Civic Center	Thousand Oaks. CA	16 Beam/Column Connections	Seismic Strengthening	Aug-97
McGee Beach	Corpus Christi, TX	Beams Wrap		Aug-97
Kaiser Hospital Parking Structure	Oakland, CA	Columns Seismic Retrofit		Aug-97
U.C. Santa Barbara	Santa Barbara, CA	Columns	Seismic Retrofit	Aug-97
Thousand Oaks Civic	Thousand	16 Column/Beam	Seismic Strengthening	Aug-97
Center	Oaks, CA	Connections		
Park 'n Store Column Rehab	Houston, TX	Column Rehabilitation	Strengthen From Overload	Aug-97
Christ Church Cathedral	Victoria, B.C.	URM Vaulted Ceiling	Seismic Strengthening	Aug-97
Mason Hanger Centrifuge	Amarillo, TX	Centrifuge (Elliptical Wall)	Reinforce Against Blast	Aug-97
Arizona Pipe Test	Arizona	PCCP	Pipe Test	Aug-97
Mason Hanger Centrifuge	Amarillo, TX	Centrifuge (Elliptical	Reinforce Against Blast	Aug-97 Aug-97
		Wall)	<u> </u>	g 01
U.C. Riverside	Riverside, CA	Columns	Seismic Retrofit	Aug-97
I-610 & 225	Houston, TX	Beams & Columns	Wrap	Sep-97
Rte. 116 over Felky Slough	Illinois DOT	16 Columns	Strengthening	Sep-97
I-610 & 225	Houston, TX	Columns & Beams	Wrap	Sep-97
Franklin Bldg.	Oakland, CA	Hollow Clay Tile Walls	Stabilization	Sep-97
East Police Station	Seattle, WA	Walls	Strengthening	Sep-97
Rexene Chemical	Odessa, TX	Blast Mitigation	Strengthening Control Building	Sep-97
Arizona Pipe Lining	Arizona	Pipe Lining	Strengthening Interior	Sep-97
Rexene Chemical	Odessa, TX	Blast Mitigation	Strengthening Control Building	Sep-97
Asheville Legal Building	Asheville, NC	Concrete Floor Beam Non-Seismic Repair Repair		Oct-97
Oklahoma Medical Center	Oklahoma City, OK	Parking Garage Beam & Strengthening Column		Oct-97
Akron Arch Bridge	Akron, Ohio	One Arch & 4 Columns	Strengthening	Oct-97
Archer Avenue	Willow	20.3 Sq. Meters	Non-Seismic Repair	Oct-97
I-40 Harpeath River	Springs, IL	Concrete Columns	Non-Seismic Repair	Oct-97
ı-40 пагреаш кіver	Cheatham County, Tennessee	4 Concrete Columns	поп-зеізініс кераіг	Oct-97
Off Route 250 N.E. between Gayton & 621	Richmond, VA	1 Concrete Column	Structural Repair	Oct-97
Oklahoma Medical Center	Oklahoma City, OK	Parking Garage Column & Beam	Strengthening	Oct-97
Del Monte Parking Structure	Del Monte, CA	Columns & Walls Strengthening		Oct-97
l-69 Overpass	Fort Wayne, IN	16 Columns & 2 Conc. Strengthening Crash Walls		Oct-97
Laurel Plaza Robinson May	Los Angeles, CA	Columns	Seismic Retrofit	Oct-97
Del Monte Parking Structure	Del Monte, CA	Columns & Walls	Strengthening	Oct-97
	Fort Wayne,	2 Conc. Crash Walls & Strengthening		Oct-97
I-69 Overpass	•		16 Columns Pier slahs Strengthening	
I-69 Overpass U.S. Navy Pier 12	IN San Diego, CA		Strengthening	Oct-97



Arizona Pipe Lining	Arizona	Pipe Lining	Strengthening Interior	Oct-97
Rhode Island Pipe Repair	Rhode Island	Large Diameter Pipe Pipe Strengthening Lining		Oct-97
Stanford Condo	Stanford, CA	Columns	Seismic Strengthening	Oct-97
Compaq Tram Way	Houston, TX	Beams & Columns	Wrap	Nov-97
Church	San Antonio, TX	Beams	Reinforcement of Rotten Beams	Nov-97
Concrete Arch Bridge	Summit County, NJ	1,000 Sq. Ft. of Beams & Columns	Non-Seismic Repair	Nov-97
Rte. 64 West of Rte. 59	Dupage Co.	10 Concrete Columns (3,196 square feet)	Non-Seismic Repair	Nov-97
Kemper Road Bridge	Hamilton Co., OH	10 Columns	Non-Seismic Repair	Nov-97
Compaq Tram Way	Houston, TX	Columns & Beams	Wrap	Nov-97
Concrete Arch Bridge	Summit	1,000 Sq. Ft. of	Non-Seismic Repair	Nov-97
g-	County, NJ	Columns & Beams		
Akron Sewer Rehabilitation	Akron, OH	Masonry Pier	Non-Seismic Repair	Nov-97
Jefferson Place	Menlo Park CA	Slab Sheer Diaphragm		Nov-97
Church	San Antonio, TX	Wooden Beams	Reinforcement of Rotten Beams	Nov-97
Kennedy Parking Garage	Tampa, FL	5 Concrete Beams	Non-Seismic Repair	Dec-97
HEB Grocery	San Antonio,	Beams	Reinforcement	Dec-97
5 0.00019	TX	_501110	. Commondermont	200 01
Big Foot Overpass	East Hartford, CT	4 Concrete Columns Non-Seismic Repair		Dec-97
Saks Shopping Centre	Santa Barbara, CA	Columns	Strengthening	Dec-97
Kaiser Hospital Santa Rosa	Santa Rosa, CA	60 Columns	Seismic Retrofit	Dec-97
Malibu Residence	Malibu, CA	Four Columns	Strengthening	Dec-97
Southwestern Public Service	Amarillo, TX	Utility Pole	Wrap	Dec-97
City of Houston	Houston, TX	Beams	Strengthening	Jan-98
Cracker Platform	Equatorial	30 Columns	Strengthening	Jan-98
	Guinea			
Malibu Residence	Malibu, CA	Columns	Strengthening	Jan-98
Radisson Hotel	Austin, TX	Parking Garage Columns	Wrap	Jan-98
J.C. Penny	Santa Clarita, CA	Panel Repair	Non-Structural Repair	Jan-98
American Airlines	Dallas, TX	26 Columns	Wrap for Strengthening	Feb-98
Port of Houston	Houston, TX	Column Wrap	Beam Support for Crane	Feb-98
Fort Sam Houston	San Antonio, TX	Walls	Reinforcement	Feb-98
601 Pine St.	Seatte, WA	Beams & Slabs	Strengthening	Mar-98
City Terrace Park	Los Angeles	Columns & Slabs	Seismic Retrofit	Mar-98
Wesley Terrace	Seatte, WA	Walls	Strengthening	Mar-98
601 Pine St.	Seatte, WA	Beams & Slabs	Strengthening	Mar-98
City Terrace Park	Los Angeles	Columns & Slabs	Seismic Retrofit	Mar-98
Arizona Pipe Lining	Arizona	Large Diameter Pipe Lining	Strengthening Interior Repair	Mar-98
Lanterman St.	Pomona, CA	Historic columns	Strengthening	Apr-98
Irvine Towers Mock-up	Irvine, CA	Columns	Seismic Retrofit	Apr-98
Del Amo Financial	Del Amo, CA	20 Columns	Seismic Retrofit	Apr-98
Blue Sea Lodge	Pacific Beach, CA	6 Columns	Strengthening	Apr-98
		URM Wall	In-Plane Shear	Apr-98
Salt Lake City Roasting Co.	Salt Lake City, UT	UNIVI VVAII	Strenathenina	
	UT		Strengthening Non-Seismic Repair	Mav-98
Salt Lake City Roasting Co.  Interstate Rte. 71  Irvine Towers 500 & 550  Newport Center Drive		18 Columns (3 ft. dia.) Columns	Strengthening Non-Seismic Repair Seismic Retrofit	May-98 May-98





Santa Barbara Airport Plaza Santa 20 Barbara, CA		20 Columns	Seismic Retrofit	May-98	
San Mateo Courthouse	San Mateo, CA	Wall & Shear Connections	Seismic Retrofit	May-98	
PS #1 Elementary	California	Columns	Seismic Retrofit	Jun-98	
Robinson May Santa Ana	Santa Ana, CA	Columns	Seismic Retrofit	Jun-98	
Four Points Hotel	Santa Monica, CA	15 Rectangular Columns 24" x 24"	Strengthening	Jun-98	
USC Student Union Building	Los Angeles, CA	10 Columns	Seismic Retrofit	Jun-98	
Golden Gateway Center	San Francisco, CA	Walls	Seismic Retrofit	Jun-98	
Mormon Temple Oakland	Oakland, CA	Beams	Strengthening	Jul-98	
Bay View Towers	San Mateo, CA	Shear Walls	Seismic Retrofit	Jul-98	
K-Mart	Los Angeles	Columns & Walls	Strengthening	Aug-98	
Transbay Terminal	San Francisco, CA	4 Columns & 3 Walls	Seismic Retrofit	Aug-98	
City of Freemont Jail Facility	Fremont, CA	8 Columns	Seismic Retrofit	Aug-98	
K-Mart	Los Angeles	Walls & Columns	Strengthening	Aug-98	
Transbay Terminal	San Francisco, CA	3 Walls & 4 Columns	Seismic Retrofit	Aug-98	
Sandy Fire Station	Salt Lake City, UT	16 Slab Joints	Seismic Upgrade	Aug-98	
U.S. Navy Pier 12	San Diego, CA	Slabs	Slabs Strengthening		
Kaiser Hospital Riverside	Riverside, CA	Columns	Seismic Retrofit	Sep-98	
Arizona Pipe Lining	Arizona	Large Diameter Pipe Lining	Strengthening Interior	Sep-98	
Lee Library	Provo, UT	Beam/Slab Connection	Strengthening of Positive Moment Reinforcing	Nov-98	
Malibu Cove	Malibu, CA	Columns	Strengthening	Nov-98	
Hermosa Beach Pier	Hersmosa Beach, CA	27 Pier Piles	Strengthening	Nov-98	
Fremont Jail	Fremont, CA	6 Columns	Seismic Retrofit	Nov-98	
SDG&E Vault Main St.	Chula Vista, CA	Wall/Conc. Slab	Concrete Repair/ Strengthening	Nov-98	
Lee Library	Provo, UT	Slab Connections/Beams Strengthening of Positive Moment Reinforcing		Nov-98	
SDG&E Vault Main St.	Chula Vista, CA	Conc. Slabs & Walls Strengthening		Nov-98	
Hill Canyon Pipe	Thousand Oaks, CA	One Pipe Segment	Pipe Repair	Nov-98	
7375 Chapman	Los Angeles, CA	Walls Strengthening		Dec-98	
Kimpton Hotel	Salt Lake City, UT	Flat Plate Slabs	Strengthening of Moment Capacity	Dec-98	
Building	Salt Lake City, UT	Flat Plate Slabs	Redevelopment of Cut Reinforcing Steel	Dec-98	
Sares-Regis Cooling Tower		Support Beams	Seismic Strengthening	Jan-99	
CSU Monterey Bay	Monterey, CA	Beam/Column Shear Connections	Seismic Retrofit	Jan-99	
Malibu Residence	Malibu, CA	Columns/Beams	Strengthening	Jan-99	
Amherst Apts.	Sacramento, CA	Columns & Walls	Seismic Retrofit	Jan-99	
Amherst Apts.		Columns & Walls	Seismic Retrofit	Jan-99	
Calvary Christian H.S.	Canoga Park, CA	4 Columns	Seismic Retrofit	Feb-99	
SU Monterey Bay	Monterey, CA	Columns/Beams Shear Connections	Seismic Retrofit	Mar-99	
Temple Hospital	Los Angeles, CA	8 Columns	Seismic Retrofit	Mar-99	
Arizona Pipe Lining	Arizona	Pipe Lining	Pipe Strengthening	Mar-99	
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Malibu Residence         Malibu, CA         Columns         Strengthening         Apr-98 beach         Apr-99 beach <th>211 Yacht Club Way</th> <th>Redondo Beach, CA</th> <th colspan="2">Beams/Slabs/Columns Concrete Repair/Strengthening</th> <th>Apr-99</th>	211 Yacht Club Way	Redondo Beach, CA	Beams/Slabs/Columns Concrete Repair/Strengthening		Apr-99
Santa Barbara City College	Malibu Residence	Malibu, CA	Columns	Strengthening	Apr-99
Barbara, CA   System	·		Slabs/Beams/Columns	Concrete Repair/ Strengthening	
Ventura Mall         Ventura, CA         Beams         Shear and Flexural Strengthening         May-99 Strengthening           Savannah Desoto Office         Savannah, GA         Beams         Strengthening May-99 Malbu Pier         Malbu, CA         Columns         Strengthening Confinement         May-99 May-99 May-99 May-99 Strengthening Confinement         May-99	Santa Barbara City College			Shear Transfer	Apr-99
Malibu Pier         Malibu, CA Malibu, CA Columns         Strengthening/Confinement         May-99 May-99 May-99 Strengthening Confinement           Malibu Francisco Film Institute         San Francisco Film Institute         Emeryville, CA Columns         Seismic Retrofit         May-99 Strengthening           Emeryville Parking Structure         Emeryville, CA Columns         Confinement         May-99 Strengthening           San Francisco Film Institute         Francisco, CA Francisco, CA Francisco, CA Monterey, CA California         Walls & Columns         Seismic Retrofit         May-99 Strengthening           California Pacific Rice Mill Malibu Pier         Malibu, CA Monterey, CA Monterey, CA Galfornia         Slabs Walls (BC System) Stear Transfer Seismic May-99 Strengthening         May-99 Strengthening           Hyatt Union Square         San Beams Retrofit         May-99 Strengthening         May-99 Strengthening           Hyatt Union Square         San Beams Retrofit         Jun-99 Strengthening         May-99 Strengthening           Invine, CA Column Sough Invine, CA Columns         Seismic Retrofit         Jun-99 Strengthening           USC Troy Hall Color Square         California         Slabs & Beams         Strengthening         Jun-99 Strengthening           Milpitas Elementary School         Milpitas, CA Columns         Beams Strengthening         Jun-99 Strengthening           Zeneca Building         San Ageles, Columns </td <td>Ventura Mall</td> <td>Ventura, CA</td> <td></td> <td></td> <td>May-99</td>	Ventura Mall	Ventura, CA			May-99
Malibu Pier         Malibu, CA Mailbu, CA Columns         Strengthening/ Confinement         May-99 May-99 Strengthening           Mailbu CA Mailbu, CA Mailbu, CA San Francisco Film Institute         Emeryville, CA Columns         Strengthening         May-99 Francisco, CA           Emeryville Parking Structure         Emeryville, CA Columns         Confinement         May-99 Strengthening           CSU Monterey Bay         Monterey, CA Malbu, CA Pile Wap Strengthening May-99 Mailbu Pier Majatt Union Square San Beams Retrofit Jun-99 Strengthening May-99 Malibu May-99 Strengthening May-99	Savannah Desoto Office	Savannah, GA	Beams	Strengthening	May-99
Malibu Residence         Malibu, CA San Francisco Cilm Institute         Malibu, CA San Francisco Cilm Institute         Columns/Walls Seismic Retrofit         May-99 May-99 Seismic Retrofit           Emeryville Parking Structure         Emeryville, CA Structure         Columns         Confinement         May-99 Structure           CSU Monterey Bay         Monterey, CA Walls/Slabs (BC System)         Shear Transfer and Seismic Strengthening         May-99 Strengthening           San Francisco Film Institute Francisco, CA CSU Monterey Bay         Monterey, CA Slabs-Walls (BC System)         Shear Transfer and Seismic Strengthening         May-99 Strengthening           California Pacific Rice Mill         California Slabs         Slabs Walls (BC System)         Shear Transfer Seismic May-99 Strengthening         May-99 Strengthening           Malibut Pier         Malibut, CA Pile Wrap Strengthening         May-99 Strengthening         May-99 Strengthening         May-99 Strengthening           Hyatt Union Square         San Beams Retrofit         Jun-99 Strengthening         May-99 Strengthening         May-99 Strengthening           USC Troy Hall         Los Angeles, CA         CA         Columns Seismic Retrofit         Jun-99 Seismic Retrofit         Ju	Malibu Pier		Pile Wrap		
San Francisco Film Institute	Malibu Residence	Malibu, CA	Columns		
Structure   CSU Monterey Bay   Monterey, CA   Walls/Slabs (BC System)   Strengthening   May-99   Malibu Pier   Malibu CA   Pile Wrap   Strengthening   May-99   Malibu Ca   Pile Wrap	San Francisco Film Institute		Columns/Walls	Seismic Retrofit	
Strengthening San Francisco Film Institute San Francisco, CA Francisco, CA  CSU Monterey Bay Monterey, CA Salbs-Walls & Columns Seismic Retrofit May-99 Strengthening May-99 Malibu Pier Malibu CA Pile Wrap Strengthening May-99 Hyatt Union Square Francisco, CA  Irvine 500 Bldg Irvine, CA Usc Troy Hall Los Angeles, CA Clairmont McKenna College Clairmont, CA Clairmont McKenna College Clairmont, CA Clairmont McKenna College Clairmont, CA Slabs & Beams Strengthening Jun-99 Milpitas Elementary School Milpitas, CA Beams/Column Strengthening Jul-99 Francisco, CA  Huntley Raddison Santa Monica, CA Edgewood Shopping Center Los Angeles, CA System) Milpitas Elementary School Milpitas, CA Edgewood Shopping Center Los Angeles, CA System) Milpitas Elementary School Milpitas, CA Column Strengthening Jul-99 Strengthening Jul-99 Milpitas Elementary School Milpitas, CA Column Strengthening Jul-99 System) Milpitas Elementary School Milpitas, CA Column Strengthening Jul-99 System) Milpitas Elementary School Milpitas, CA Column Strengthening Milpitas Piere Milpitas M		Emeryville, CA	Columns	Confinement	May-99
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CSU Monterey Bay Monterey, CA Slabs/Walls (BC System) Shear Transfer Seismic May-99 Strengthening May-99 Malibu Pier Malibu, CA Pile Wrap Strengthening May-99 Francisco, CA Irvine, CA CA Columns Seismic Retrofit Jun-99 USC Troy Hall Los Angeles, CA CA Columns Strengthring Jul-99 USC Troy Hall Los Angeles, CA CA CA Columns Strengthring Jul-99 Canaction Milpitas Elementary School Milpitas, CA Beams Strengthening Jul-99 Grancisco, CA Huntley Raddison Santa Monica, CA CA System) Milpitas Elementary School Milpitas, CA Beams Walls Seismic Retrofit Jul-99 Grancisco, CA CA Column Strengthening Jul-99 Grancisco, CA CA Column Strengthening Jul-99 Grancisco, CA	San Francisco Film Institute		Walls & Columns		May-99
Mailbu Pier	CSU Monterey Bay		Slabs/Walls (BC System)		May-99
Mailbu Pier   Mailbu, CA   Pile Wrap   Strength/ Confinement   May-99   Patrofit   Jun-99   Retrofit   J	California Pacific Rice Mill				May-99
Hyatt Union Square   San   Beams   Retrofit   Jun-99					
USC Troy Hall CA Clairmont McKenna College Clairmont, CA Clairmont McKenna College Clairmont, CA Clairmont McKenna College Clairmont, CA Slabs & Beams Strengthening Jun-99  Milpitas Elementary School Milpitas, CA Beams/Column Connection  Zeneca Building San Francisco, CA Huntley Raddison Santa Monica, CA Edgewood Shopping Center Los Angeles, CA CA Columns Strengthening (Tyfo 2 System) Milpitas Elementary School Milpitas, CA Columns Strengthening (Tyfo 2 System) Milpitas Elementary School Milpitas, CA Columns Strengthening Jul-99  Zeneca Building Camosun CA CA Columns Strengthening (Tyfo 2 System) Milpitas Elementary School Milpitas, CA Columns Seismic Retrofit Jul-99  Young Building Camosun College College Avenue Berkeley, CA HCT Walls Seismic Retrofit Jul-99  Huntley-Radisson Santa Monica, CA Saint Joseph Hospital Burbank, CA Beams Seismic Retrofit Aug-99  Queen Parking Garage Ottawa, Columns Columns Corrosion Protection Aug-99  Rainbow Bridge USA/Canada Border San Francisco, CA Guildford-Davis Malyland Galsand, CA HCT Walls Steismic Retrofit Aug-99  Mann School San Diego, CA Slabs Strengthening Sep-99  Dodger Stadium Los Angeles, CA Janie Lai Thousand Oaks, CA Malibu, CA Columns Strengthening Nov-99  Malibu Residence Malibu, CA Columns Strengthening Nov-99  Molibu Residence Malibu, CA Columns Strengthening Nov-99  Molyland Nov-99  Malibu Residence Malibu, CA Columns Strengthening Nov-99  Molyland Nov-99  Malibu Residence Malibu, CA Columns Strengthening Nov-99  Mov-99  Malibu Residence Malibu, CA Columns Strengthening Nov-99	Hyatt Union Square				
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Zeneca Building         San Francisco, CA Francisco, CA         Beams         Strengthening         Jul-99           Huntley Raddison         Santa Monica, CA         Beams & Walls         Seismic Retrofit         Jul-99           Edgewood Shopping Center         Los Angeles, CA         Columns         Strengthening (Tyfo 2 System)         Jul-99           Milpitas Elementary School         Milpitas, CA         Column         Strengthening         Jul-99           Rancho Milpitas School         Milpitas, CA         Columns         Seismic Retrofit         Jul-99           Young Building Camosun College         Victoria, B.C.         HCT Walls         Seismic In-Plane Retrofit         Jul-99           College Avenue         Berkeley, CA         HCT Walls         Seismic Retrofit         Jul-99           College Avenue         Berkeley, CA         HCT Walls         Seismic Retrofit         Jul-99           Huntley-Radisson         Santa Monica, CA         Valls & Beams         Seismic Retrofit         Jul-99           Saint Joseph Hospital         Burbank, CA         Beams         Seismic Retrofit         Aug-99           Queen Parking Garage         Ottawa, Ontario         Columns         Corrosion Protection         Aug-99           Cupertino City Center         Cupertino, CA         Columns	Clairmont McKenna College	Clairmont, CA	Slabs & Beams	Strengthening	Jun-99
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Mann SchoolSan Diego, CASlabsStrengtheningSep-99Dodger StadiumLos Angeles, CAColumnsSeismic RetrofitOct-99Janie LaiThousand Oaks, CAWallsStrengtheningOct-99CMS NomecoAfricaColumnsStrengtheningNov-99Malibu ResidenceMalibu, CAColumnsStrengtheningNov-99PanasonicTijuana,SlabStrengtheningNov-99					
Dodger Stadium  Los Angeles, Columns CA  Janie Lai  Thousand Oaks, CA  CMS Nomeco  Africa  Malibu Residence  Malibu, CA  Columns  Strengthening Nov-99  Malibu Residence  Malibu, CA  Strengthening Nov-99  Strengthening Nov-99  Panasonic  Tijuana, Slab  Strengthening Nov-99					
CA Janie Lai Thousand Walls Strengthening Oct-99 Oaks, CA  CMS Nomeco Africa Columns Strengthening Nov-99 Malibu Residence Malibu, CA Columns Strengthening Nov-99 Panasonic Tijuana, Slab Strengthening Nov-99		<u> </u>			
Oaks, CA  CMS Nomeco Africa Columns Strengthening Nov-99  Malibu Residence Malibu, CA Columns Strengthening Nov-99  Panasonic Tijuana, Slab Strengthening Nov-99	Dodger Stadium	CA	Columns	Seismic Retrofit	Oct-99
CMS NomecoAfricaColumnsStrengtheningNov-99Malibu ResidenceMalibu, CAColumnsStrengtheningNov-99PanasonicTijuana,SlabStrengtheningNov-99	Janie Lai		Walls	Strengthening	Oct-99
Malibu ResidenceMalibu, CAColumnsStrengtheningNov-99PanasonicTijuana,SlabStrengtheningNov-99	CMS Nomeco	· · · · · · · · · · · · · · · · · · ·	Columns	Strengthening	Nov-99
Panasonic Tijuana, Slab Strengthening Nov-99					
MICKIGO					Nov-99





Bode of Peace Apartment Building	Burlington, Ontario	Beams/Columns	Shear Strengthening	Dec-99
Trammel Crow 2447 PCH	Hermosa Beach, CA	Columns	Seismic Retrofit	Dec-99
Bode of Peace Apartment Building	Burlington, Ontario	Columns/Beams Shear Strengthening		Dec-99
Irvington Beam Repair	Oregon	Beams	Flexural	Jan-00
Arroyo Seco Bridge	Pasadena, CA	Columns	Seismic Retrofit	Jan-00
Delaware Dept. of	Delaware	1 Column	Corrosion Protection	Jan-00
Transportation .			Corrosion Protection	Jan-00
UCSD Basic Science Bldg.	San Diego, CA	16 Columns	Seismic Retrofit	Jan-00
UCSB Biology Bldg.	Santa Barbara, CA	8 Columns	Seismic Retrofit	Jan-00
Calleguas MWD	Calleguas, CA	PCCP Pipe	Structural Repair	Jan-00
Presidio Building	San	Columns & URM Walls	Seismic Retrofit	Feb-00
	Francisco, CA			
Cal State Long Beach	Long Beach, CA	6 Columns Seismic Retrofit		Feb-00
Long Beach City College	Long Beach, CA	7 Steel Braces	Seismic	Feb-00
Presidio Building	Presidio Building	URM Walls & Columns	Seismic	Feb-00
Monterey Beach Hotel	Monterey, CA	Slabs	Structural Repair	Feb-00
Riconda Water Treatment	Santa Clara, CA	4 Beams	Seismic	Mar-00
Dodger Stadium	Los Angeles, CA	72 Columns	Seismic Retrofit	Mar-00
Malibu Inn	Malibu, CA	3 Columns	Seismic Retrofit	Mar-00
Madison Power Stack	Madison, WI	1 Stack	Strengthening	Mar-00
Route 9	Albany, NY	Piers	Seismic Retrofit	Apr-00
The Palms Hotel	Reno, CA	Columns & Walls	Seismic Retrofit	Apr-00
Ghiardelli Woolen Mill	San Francisco, CA	URM Walls	Seismic	Apr-00
The Palms Hotel	Reno, CA	Walls & Columns	Seismic	Apr-00
Fashion Island	Newport, CA	URM Walls	Seismic	Apr-00
420 Taylor Street	San Francisco, CA	Columns Seismic Retrofit		May-00
Wurster Hall	Berkeley, CA	30 Columns & Concrete Walls	Seismic Retrofit	May-00
USC Computer Center	Los Angeles, CA	Columns	Seismic Retrofit	May-00
Port of Long Beach	Long Beach, CA	1 Concrete Pile	ete Pile Structural Repair	
Renissance Glass Works	Penn.	CMU Walls	Discontinuous Reinforcement	May-00
Wurster Hall	Berkeley, CA	Concrete Walls & 30 Columns	Seismic	May-00
CCI Newmarker	Ontario, CN	6 Support Columns	Concrete Repair	Jun-00
Fort Belvoir	Maryland	6 Columns	Strengthening	Jun-00
Rte. 17 SCDOT	South Carolina	6 Columns	Concrete Repair System	Jun-00
UC Berkeley Silver Lab	Berkeley, CA	20 Columns	Seismic Retrofit	Jun-00
Bridgepoint Center	San Francisco, CA	15 Columns & Walls	Seismic Retrofi	Jun-00
Bridgepoint Center	San Francisco, CA	16 Columns & Walls	Seismic	Jun-00
D.C. Office Building	Washington D.C.	Slab Hole	Reinforcement	Jun-00
Capon Bridge Middle School	Virginia	9 Beams	Flexural Shear	Jul-00
Malibu Residence	Malibu, CA	1 Concrete Beam & 6 Columns	Structural Repair	Jul-00
Walnut Creek Parking Structure	Walnut Creek, CA	50 Columns	Seismic Retrofit	Jul-00
Orleans Road MDDOT	Maryland	2 Columns	Concrete Repair System	Jul-00
CJano Noda MDDO I	maryiana	_ 0010111110	Controlo Ropan Cystolli	0 di 00





Malibu Residence	Malibu, CA	6 Columns & 1 Concrete Beam	Structural Repair	Jul-00
USC Commons Bldg.	Los Angeles, CA	Columns	Seismic Retrofit	Jul-00
Chicago Chemical	Skokie, IL	Walls	Blast	Jul-00
Santa Paula Wall	Santa Paula, CA	URM Wall	Structural Repair	Jul-00
Chicago Chemical	Skokie, IL	Walls	Blast	Jul-00
Malibu Residence	Malibu, CA	3 Columns	Structural Repair	Aug-00
Akron Thermal	Akron, OH	24 Columns	Confinement	Aug-00
FAI 135 Rte. 64	Illinois	6 Battered Columns	Seismic	Aug-00
Portage Creek	Victoria, B.C., Canada	2 Columns	Seismic Retrofit	Aug-00
Joseph A. Russo Memorial Bridge	New York	Arches	Ductility	Sep-00
Ryerson College	Ontario, CN	42 Columns	Axial Load	Sep-00
Portage Creek Bridge	Victoria, B.C.	2 Columns	Seismic	Sep-00
MTA	Maryland	1 Column	Strengthening	Sep-00
Montgomery County	Ohio	6 Columns	Concrete Repair	Sep-00
Beverly Hills Schools	Beverly Hills, CA	Columns & Walls	Seismic Retrofit	Sep-00
Beverly Hills Schools	Beverly Hills, CA	Columns & Walls	Seismic	Sep-00
Naden Gym/Canada	Victoria, B.C.	CMU Walls	Seismic In-Plane	Sep-00
Searle Chemical Facility	Illinois	CMU Walls	Blast Mitigation	Sep-00
Cala Foods	San	Slabs	Structural Repair	Sep-00
Steamboat Slab	Francisco, CA Steamboat, CO	Slabs	Flexural	Sep-00
Dotasco Coke Line	Ontario, CN	Steel Pipe T-Joint	Strengthening	Sep-00
Chautauqua Lake	New York	Pier Caps	Strengthening	Oct-00
Malibu Colony Cove	Malibu, CA	Beams	Girder Strengthening	Feb-01
Navy Medical Cntr Bldg 26	San Diego	Walls	Wall Reinforcement	Apr-01
Bollman Improvements	Concord, CA	Walls	Strengthening	Jun-01
USC Deuadeux	,	Columns	Strengthening	Aug-01
Metra Structures		Columns	Retrofit	Sep-01
Sears Lofts	Los Angeles, CA	Slabs	Strengthening	Sep-01
MT Holyoke College		Beams	Strengthening	Nov-01
Auburn Lake Trails		Pile Wrap	Strengthening	Nov-01
La Jolla Galeria	La Jolla, CA	Slabs	Strengthening	Dec-01
Cerritos Library	Cerritos, CA	Beams	Strengthening	Jan-02
McPhearson Library	Victoria, Can	Columns	Column Upgrade	Jan-02
UCLA men's Gym	Los Angeles. CA	Columns	Strengthening	Jan-02
John Wayne Airport	Orange, CA	Columns	Seismic Remediation	Feb-02
450 Newport Center Drive	Newport Beach, CA	Beams & Columns	Seismic Retrofit	Feb-02
Baker Univ.	Santa Monica, CA	Slabs	Strengthening	Feb-02
Palo Alto Parking Struct		Walls	Wall Stabilization	Mar-02
Peter Tork Towers	San Francisco, CA	Slabs	Strengthening	Mar-02
Cecele and Michael Birkrant	,	Columns & Walls	Seismic Retrofit	Apr-02
ODOT Clark Conty		Columns	Column Jacketing	Apr-02
Imation Foundation	Carameo, CA	Concrete Repair	Strengthening	Apr-02
New Hampshire		Columns	Strengthening	Apr-02
El Torito Restaurants	Monterey, CA	Columns	Strengthening	Apr-02
Ebner Building	•	Walls	Strengthening	Apr-02
		Walls	Restoration	Apr-02
Town of Covierville		vvalio		
	Vancouver, B.C.	Slabs	Strengthening	Apr-02
Town of Covierville Bentnall Oak Street Bridge				Apr-02 May-02





Laurel Bay Apt		Beam	Strengthening	Jun-02
Univ of Mass Lincoln	Mass. MA	Beams	Strengthening	Jun-02
Miche Stadium	New York	Beams	Seismic Retrofit	Jul-02
Cleveland Elementary	Cleveland, OH	Walls	Strengthening	Jul-02
MUSC/Gamma Camera		Slabs	Strengthening	Jul-02
Beaudry	Los Angeles,	Slabs	Strengthening	Aug-02
	CA		Sucrigationing	7.0.g 0=
South Bay Office Tower		Walls	Strengthening	Dec-02
Kaiser Woodland Hills	Woodland	Columns	Seismic Retrofit	Jan-03
. taises. Tree alaria i illie	Hills, CA			<b>5</b> a <b>5</b> 5
Allen McCulloch Pipeline	Irvine, CA	PCCP Pipe	Pipe Retrofit	Feb-03
UCLA Broad Arts Center	Westwood, CA	Columns	Seismic Retrofit	Mar-03
OCLA BIOAU AIIS CEIREI	Westwood, CA	Columns	Seisifiic Retront	IVIAI-03
San Bernardino Parking	San	Columns/Slab/Walls	Seismic Retrofit	Mar-03
Structure	Bernardino,	Coldini lo, Clab, Wallo	Colonia retront	Widi 00
Olidelaic	CA			
San Bernardino, Parking	San	Columns/Slab/Walls	Seismic Retrofit	Mar-03
Structure	Bernardino,	Coldiffis/Stab/Walls	Seisifiic Retroit	iviai-05
Structure	CA			
Callage of the Canyons		Walls	Colomia Datrofit	Mar 02
College of the Canyons	Santa Clara,	vvalis	Seismic Retrofit	Mar-03
	CA			
945 Green St.	San	Walls	Seismic Retrofit	Mar-03
and Gleen St.	Francisco, CA	vvalio	Seisinic Ketioni	iviai-03
Howeii BEO		Clobo 9 Mella	Colomia Datustit	Ma 00
Hawaii BEQ	Honolulu, HI	Slabs & Walls	Seismic Retrofit	Mar-03
Hawaii BEQ	Honolulu, HI	Slabs & Walls	Seismic Retrofit	Mar-03
San Bernardino Parking	San	Columns/Slab/Walls	Seismic Retrofit	Mar-03
Structure	Bernardino,			
	CA			
Sacramento River Bridge	Sacramento,		Strengthening	Mar-03
	CA			
Childrens and Womens	Vancouver,	Chimney	Strengthening	Mar-03
Hospital	B.C.	-		
Miramar Clearwell #2	Miramar, CA	Beams & Columns	Seismic Retrofit	Apr-03
UCSB - San Rafael	Santa	Columns & Walls	Seismic Retrofit	Apr-03
Student Housing	Barbara, CA			,
Miramar Clearwell #2	Miramar, CA	Beams & Columns	Seismic Retrofit	Apr-03
UCSB - San Rafael	Santa	Columns & Walls	Seismic Retrofit	Apr-03
Student Housing	Barbara, CA	Coldinilo di Vidilo	Colomb Rotion	7.00
Intermountain Pipe	Delta, UT	PCCP Pipe	Pipe Retrofit	Apr-03
Sky Harbor International	Phoeinx, AZ	Columns	Blast Hardening	May-03
	FIIOEIIIX, AZ	Columns	biast natuetiing	iviay-03
Airport	Charalatta NC	Calumana	Ctua wath a sin s	l 00
Piedmont Middle School	Charolette, NC	Columns	Strengthening	Jun-03
Long Dooch Dublic Octo	Long Desert	Columns	Colomia Datastit	I 00
Long Beach Public Safety	Long Beach,	Columns	Seismic Retrofit	Jun-03
Building	CA	0.1		
LAPD Southwest Station	Los Angeles,	Columns & Walls	Seismic Retrofit	Jun-03
	CA			
LAPD Southwest Station	Los Angeles,	Columns & Walls	Seismic Retrofit	Jun-03
	CA			
Kapahulu Bunk House Fish	Kapahulu, HI	Walls	Strengthening	Jun-03
and Game				
Redondo Performing Arts				
-	Redondo	Walls	Strengthening	Jun-03
	Beach, CA	Walls	Strengthening	Jun-03
La Jolla Galleria #2	Beach, CA			
La Jolla Galleria #2		Walls Slabs	Strengthening Strengthening	Jun-03
	Beach, CA San Diego, CA	Slabs	Strengthening	Jun-03
Marriot Coronado Spa &	Beach, CA			
Marriot Coronado Spa & Resort	Beach, CA San Diego, CA Coronado, CA	Slabs Slabs	Strengthening Change of Use	Jun-03
Marriot Coronado Spa & Resort	Beach, CA San Diego, CA Coronado, CA Vancouver,	Slabs	Strengthening	Jun-03
Marriot Coronado Spa & Resort Prospera Credit Union	Beach, CA San Diego, CA Coronado, CA Vancouver, B.C.	Slabs Slabs	Strengthening Change of Use Strengthening	Jun-03 Jun-03 Jun-03
Marriot Coronado Spa & Resort Prospera Credit Union Waukegan Pipe	Beach, CA San Diego, CA Coronado, CA Vancouver, B.C. Chicago, IL	Slabs Slabs PCCP Pipe	Strengthening Change of Use Strengthening Pipe Retrofit	Jun-03 Jun-03 Jun-03 Jun-03
Marriot Coronado Spa & Resort Prospera Credit Union Waukegan Pipe	Beach, CA San Diego, CA Coronado, CA Vancouver, B.C. Chicago, IL Vancouver,	Slabs Slabs	Strengthening Change of Use Strengthening	Jun-03 Jun-03 Jun-03
La Jolla Galleria #2  Marriot Coronado Spa & Resort  Prospera Credit Union  Waukegan Pipe Lions Gate Hospital	Beach, CA San Diego, CA Coronado, CA Vancouver, B.C. Chicago, IL Vancouver, B.C.	Slabs Slabs Slabs PCCP Pipe Chimney	Strengthening Change of Use Strengthening Pipe Retrofit Strengthening	Jun-03 Jun-03 Jun-03 Jun-03 Jun-03
Marriot Coronado Spa & Resort Prospera Credit Union Waukegan Pipe Lions Gate Hospital	Beach, CA San Diego, CA Coronado, CA Vancouver, B.C. Chicago, IL Vancouver,	Slabs Slabs PCCP Pipe	Strengthening Change of Use Strengthening Pipe Retrofit	Jun-03 Jun-03 Jun-03 Jun-03
Marriot Coronado Spa & Resort Prospera Credit Union Waukegan Pipe	Beach, CA San Diego, CA Coronado, CA Vancouver, B.C. Chicago, IL Vancouver, B.C.	Slabs Slabs Slabs PCCP Pipe Chimney	Strengthening Change of Use Strengthening Pipe Retrofit Strengthening	Jun-03 Jun-03 Jun-03 Jun-03 Jun-03





Grand Hyatt 3rd Floor	San Diego, CA	Slabs	Change of Use	Jul-03
Civic Center Storage Phase 2	Santa Clara, CA	Slabs	Change of Use	Jul-03
Fox River Paper Mill	Modesto, CA	Columns	Seismic Retrofit	Aug-03
McPherson Library	Vancouver, B.C.	Columns	Strengthening	Aug-03
2040 W. Artesia	Torrence, CA	Injection & Wall	Strengthening	Aug-03
450 Newport Center	Newport Beach, CA	Columns	Seismic Retrofit	Sep-03
Port of Long Beach	LongBeachCA	In-water Pile Repair	Strengthening	Sep-03
Hard Rock Casino	Las Vegas, CA	Columns	Change of Use	Sep-03
San Bernadino Columns	San Bernardino, CA	Columns	Seismic Retrofit	Sep-03
Fort Orde DOD	Monterey, CA	Walls	Seismic Retrofit	Oct-03
3rd Flr - SD Hyatt	San Diego, CA	Slabs	Change of Use	Oct-03
China Basin	San Francisco, CA	Slabs	Strengthening	Oct-03
LA Police Dept, #1546 MLK	Los Angeles, CA	Columns & Walls	Seismic Retrofit	Nov-03
Guam- Anderson Air Force Base	Guam	Columns	Strengthening	Nov-03
LA Police Dept	Los Angeles, CA	Columns & Walls	Seismic Retrofit	Nov-03
Haw River Bridge	North Carolina	Columns	Strengthening	Nov-03
120 S. Atlantic	Monterey Park, CA	Beam & Pile Repair	Strengthening	Dec-03
Frank Douglas	Malibu, CA	Beams & Columns	Strengthening	Dec-03
BEQ-43700 Camp	Camp	Columns	Seismic Retrofit	Dec-03
Pendelton	Pendelton, CA			
ANC Rental Corp (Alamo)	Los Angeles, CA	Beams/Columns/Slabs	Change of Use	Dec-03
Haggerty Hall	Columbus, Ohio	Columns	Strengthening	Dec-03
Santa Monica Parking Structure	Santa Monica, CA	Columns	Seismic Retrofit	Dec-03
San Bernardino Valley College	San Bernardino, CA	Columns	Seismic Retrofit	Dec-03
27024 Malibu	Malibu, CA	Columns	Strengthening	Dec-03
11770 PCH	Malibu, CA	Pile & Beam Repair	Strengthening	Dec-03
US Fish & Wildlife	San Francisco, CA	Wood Piles	Seismic Retrofit	Dec-03
23950 Malibu Rd.	Malibu, CA	Columns	Strengthening	Dec-03
Ruben Salazar Bldg. Sonoma St.	Sonoma, CA	Columns & Walls	Seismic Retrofit	Dec-03
Las Virgenes Pumphouse	Westlake, CA	Beams	Strengthening	Dec-03
Frank Douglas	Malibu, CA	Beams & Columns	Strengthening	Dec-03
ANC Rental Corp (Alamo)	Los Angeles, CA	Beams/Columns/Slabs	Strengthening	Dec-03
120 S. Atlantic	Monterey Park, CA	Beam & Pile Repair	Strengthening	Dec-03
Cache Creek Casino	Brooks, CA	Beams	Strengthening	Dec-03
Cal Sutter	San	Beams	Strengthening	Dec-03
our outtor	Francisco, CA			
Stroudsburg Parking Garage	Francisco, CA Stroudsburgh, PN	Beams	Strengthening	Dec-03
Stroudsburg Parking	Stroudsburgh,	Beams Beams	Strengthening Strengthening	Dec-03
Stroudsburg Parking Garage	Stroudsburgh, PN San		ŭ ŭ	





Antlers Hotel	Leemore, CA	Walls	Strengthening	Dec-03
DMV Sacramento	Sacramento,	Walls	Seismic Retrofit	Dec-03
	CA			
Ned's Bookstore	Berkeley,CA	Walls	Strengthening	Dec-03
St. Mary's Church	Memphis, TN		Strengthening	Dec-03
Ruben Salazar Bldg.	Sonoma, CA	Columns & Walls	Seismic Retrofit	Dec-03
Sonoma St.				
Brattleboro Fire Station	Brattleboro,	Slabs	Strengthening	Dec-03
	Vermont			
Imation Phase 2	Oxnard, CA	Slabs	Strengthening	Dec-03
Imperial Palace	Las Vegas,	Slabs	Change of Use	Dec-03
	CA			
St. Helena Hospital	Deer Park, CA	Slabs	Strengthening	Dec-03
ANC Rental Corp (Alamo)	Los Angeles,	Beams/Columns/Slabs	Change of Use	Dec-03
	CA			
Wal Mart La Mesa	La Mesa, CA	Slabs	Change of Use	Dec-03
E.A. Diddle Arena	Bowling	Slabs	Strengthening	Dec-03
0 ( 0	Green, KY	01.1	0: 11 :	<b>D</b> 00
Santa Clara, Parking	Santa Clara,	Slabs	Strengthening	Dec-03
Structure	CA			
LAX Hilton	Los Angeles,	Slab Opening	Change of Use	Dec-03
	CA			
SD #4 (MWD PCCP)	San Diego, CA	PCCP Pipe	Pipe Retrofit	Dec-03
Capilano Bridge	Vancouver,		Strengthening	Dec-03
	B.C.			
Cosgrave Interchange	Reno, NV	Beams & Columns	Seismic Retrofit	Jan-04
NDOT				
26966 Malibu CC - Mason	Malibu, CA	Columns	Strengthening	Jan-04
Res.				
26170 PCH Malibu	Malibu, CA	Columns	Strengthening	Jan-04
25205 Malibu Rd.	Malibu, CA	Columns	Strengthening	Jan-04
Malibu pier Phase 3	Malibu, CA	Columns	Strengthening	Jan-04
Kaiser Fontana Prk. Str.	Fontana, CA	Columns	Seismic Retrofit	Jan-04
27102 MCC	Malibu, CA	Columns	Strengthening	Jan-04
Cosgrave Interchange	Reno, NV	Beams & Columns	Seismic Retrofit	Jan-04
NDOT	IXEIIO, INV	Dearns & Columns	Seismic Retront	Jan-04
	Vandanhara	Daama	Change of Llas	lon 04
13th Street Bridge (VAFB)	Vandenberg Air-Force Base	Beams	Change of Use	Jan-04
	All-Force base			
NA		D	Other with a min m	I 04
Marshall/Washington St		Beams	Strengthening	Jan-04
Casino Royal	Las Vegas, CA	Beams	Change of Use	Jan-04
Miramar Clearwell #1	Miramar, CA	Beams	Seismic Retrofit	Jan-04
Eastend Lofts	Sacramento,	Beams & Slabs	Change of Use	Jan-04
	CA			
Eastend Lofts	Sacramento	Beams & Slabs	Seismic Retrofit	Jan-04
Cosgrave Interchange	Reno, NV	Beams & Columns	Seismic Retrofit	Jan-04
NDOT				
13th Street Bridge (VAFB)	Vandenberg	Beams	Change of Use	Jan-04
- 5 - ( -/	Air-Force Base		<b>J</b>	-
Miramar Clearwell #1	Miramar, CA	Columns	Seismic Retrofit	Mar-04
minamar Oldar Woll #1	windinal, OA	Columno	Colonio Rottoni	IVIGI OT



# **APPENDIX D**







SURUHANJAYA SYARIKAT MALAYSIA
COMPANIES COMMISSION OF MALAYSIA
COMPANIES COMMISSION OF MALAYSIA
BORANG 9
AKTA SYARIKAT. 1965

PERAKUAN PEMERBADANAN SYARIKAT SENDIRIAN

Adalah diperakui bahawa

FIBRWRAF CONSTRUCTION (M) SDN. BHD.

telah diperbadankan di bawah Akta Syarikat, 1965 pada dan mulai dari 12 haribulan November 2003 dan bahawa syarikat ini adalah sebuah syarikat berhad menurut syer dan bahawa syarikat ini adalah sebuah syarikat sendirian.

Dibuat di bawah tandatangan dan meterai saya di pada 12 haribulan November 2003

WALA LUMPUR

PUTEH BY MARHOOD PENDAFTAR SYARIKAT

MALAYSIA

PUTEH BY MARHOOD PENDAFTAR SYARIKAT

MALAYSIA









PENDUA

SURUHANJAYA SYARIKAT MALAYSIA COMPANIES COMMISSION OF MALAYSIA

> BORANG 9 AKTA SYARIKAT 1965

[Seksyen 16(4)]

No. Syarikat - MyCoID 897596 T

# PERAKUAN PEMERBADANAN SYARIKAT SENDIRIAN

Dengan ini diperakui bahawa

### INSTTUFORM LININGS ASIA SDN. BHD.

telah diperbadankan di bawah Akta Syarikat 1965, pada dan mulai dari 07 haribulan April 2010, dan bahawa syarikat ini adalah sebuah syarikat berhad menurut syer dan bahawa syarikat ini adalah sebuah syarikat sendirian.

Dibuat di bawah tandatangan dan meterai saya di Kuala Lumpur pada 07 haribulan April 2010.

MENARA SSMØSENTRAL

TEL: 03-2299 4400 FAKS: 03-2299 4411 EMEL: enquiry@ssmiccom.mb

AZAHARI BIN AB BAHMAN PENOLONG PENDAPTAR SYARIKAT MALAYSIA

UserID: hayatul

Date: 7/4/2010 4:06:10 PM

09 JAN 2014 NO. 7, JALAN STESEN SENTRALS, KUALA LUMPUR SENTRAL, 50470 KUALA LUMPUR

COMPANIES COMMISSION OF THE ATTEN.
Contined True Copy

LATIPAH AS MAJID Assistant Regional of Companies

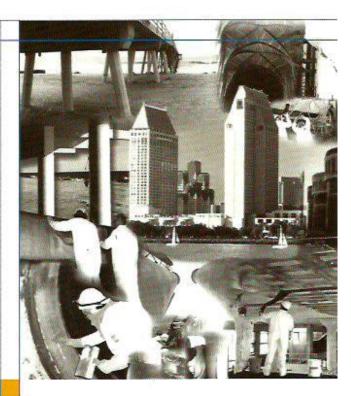


# **APPENDIX E**









Tyfo Fibrwrap Systems

# Fyfe Company LLC

# Fyfe Co. LLC

was founded by Edward R. Fyfe to research and develop the use of advanced composite materials for the engineering and construction industries. Since 1988 our patented Tyfo® Fibrwrap® Systems have been used to strengthen over ten thousand structural elements on projects throughout the world. In addition, our Tyfo® Systems have been tested at over fifty universities and private institutions. This research includes full-scale structural testing, long-term durability studies, fire resistance testing and blast mitigation research. Our research and development program is on-going. We are continually developing new materials and techniques to provide the best solutions for reinforcing structures.

Our staff is comprised of engineers, designers, material specialists, material manufacturers, and in-field technicians. Fyfe Company places an emphasis on Quality Assurance. This extends from the manufacturing of our materials, through our engineering staff, as well as to the actual use and application of our Tyfo® Systems. Our Tyfo® Systems can only be installed by Fyfe Company Trained and Certified Applicators. Our Certified Applicator Program ensures that every project is completed according to Fyfe Company's high quality assurance standards.

Our goal is to provide excellent customer service, the highest quality materials and the most comprehensive technical support in the composite strengthening industry.



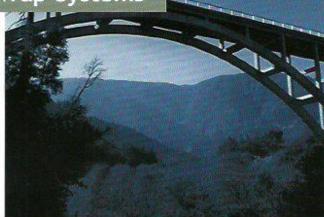
# The Tyfo<sup>®</sup> Fibrwrap<sup>®</sup> Systems

### Tyfo Fibrwrap

The Tyfo\* Fibrwrap\*

Systems are lightweight, high-strength systems for reinforcing concrete, masonry, steel, and timber structures. Fyfe Company has taken technology used by the aerospace industry for over fifty years and adapted it for civil engineering uses.

The Tyfo" Systems consist of carbon, e-glass and aramid fabrics that are impregnated with high quality resins to form a laminate that is externally bonded to the element to be strengthened.



Tyfo® Fibrwrap® has been rigorously tested to prove its long-term viability. In addition, the Systems have performed as designed during major earthquakes in Los Angeles, El Salvador, Taiwan and Seattle.

Tyfo® Fibrwrap® is applied to the existing element by hand. Due to its lightweight nature and ease of installation, no heavy machinery or major demolition is necessary. This provides for a rapid construction schedule and minimal disruption to an operating facility.

# An Introduction to Tyfo® Materials

Fyfe Company offers a wide variety of options for engineers who are incorporating composite reinforcement into their projects. This wide selection of Tyfo® Systems allows for the proper material to be specified depending on the required performance

and type of application.

For assistance in

determining which Tyfo®

System is best suited for
a particular use, please
refer to the Fyfe Company

Design Manual or consult
with our engineering staff
at no obligation.





# Tyfo® Fibrwrap® Systems

### Tyfo E-Glass Based Systems

Tyfo® SEH, WEB and BC Systems are comprised of high-grade continuous strand e-glass fabrics that are impregnated with Tyfo® epoxies.

Tyfo\* SEH-51A, the most commonly used Tyfo\* System. It is a unidirectional, e-glass fabric. Tyfo\* SEH-51, e-glass/aramid fiber hybrid with similar properties to SEH-51A in the primary fiber direction.

Tyfo® SEH-25A, unidirectional, e-glass fabric used for light reinforcement.

Tyfo® WEB, lightweight, bidirectional e-glass fabric with primary strength in the +/- 90 degree directions used for light reinforcement, stabilization of masonry elements and as an aesthetic finish fabric.

Tyfo® BC, bidirectional custom fabric with the primary strength in the +/- 45 degree directions used to transfer forces from one element to another and for general strengthening. Tyfo® UG Strips, pre-impregnated e-glass laminates available in a variety of widths and thicknesses.

Tyfo® Tile-Hold, lightweight, open-mesh e-glass system for the stabilization of building facades.

### Tyfo<sup>®</sup> Carbon Based Systems

Tyfo® SCH Systems are comprised of unidirectional and bidirectional carbon fabrics that are impregnated with Tyfo® epoxies as well as pre-impregnated plates.

Tyfo® SCH-41, unidirectional carbon fabric.

Tyfo® SCH-415, unidirectional carbon/aramid fabric with similar properties to SCH-41 in the primary direction.

Tyfo\* SCH-7UP, unidirectional carbon fabric two-thirds the weight of SCH-11UP fabric.

Tyfo\* SCH-7UP Hi-Mod, very lightweight, unidirectional carbon fabric with a high modulus of elasticity.

Tyfo\* SCH-11UP, lightweight, unidirectional carbon fabric.

Tyfo® BCC, bidirectional carbon fabric with fibers oriented in the +/- 45 degree direction.

Tyfo® UC Strips, pre-impregnated carbon laminates available in a variety of widths and thicknesses.

Tyfo® CWEB, lightweight, bidirectional carbon fabric.



#### Tyfo® Aramid Based Systems

The Tyfo® SAH and WAB Systems are comprised of unidirectional and bidirectional aramid fabrics that are impregnated with Tyfo® epoxies.

Tyfo® SAH, unidirectional aramid fabric.

Tyfoo WAB, lightweight, bidirectional aramid fabric.











### Tyfo Anchor Systems

Tyfo® Fibrwrap® Anchors are fiber-based and become embedded within the Fibrwrap® System during installation. They are used to increase bond durability and design efficiency in beam, slab, pipe and wall applications.

Tyfo" Fibrwrap" Super Anchors are a hybrid glass/carbon based system used to provide structural connections between elements.

The following chart displays Typical Test Values for the most commonly used Tyfo® Systems. For Design Values please consult with the Fyfe Company Design Manual or the Fyfe Engineering Staff. All values are determined per ASTM D-3039.

Laminate Properties						
Tyfo® Systems	Tyfo® SEH-51A	Tyfo® SCH-41	Tyfo" WEB	Tyfo® BC	Tyfo* UC Strips	
Ultimate Tensile Strength	575 MPa (83,400 psi)	986 MPa (143,000 psi)	309 MPa (44,800 psi)	279 MPa (40,500 psi)	2.79 MPa (405,000 psi)	
Modulus of Elasticity	26.1 GPa (3.79x10° psi)	95.8 GPa (13.9x10 <sup>6</sup> psi)	19.3 GPa (2.80x10° psi)	19.0 GPa (2.70x10 <sup>6</sup> psi)	155.1 GPa (22.5x10° psi)	
Ultimate Elongation	2.2%	1.00%	1.6%	1.5%	1.8%	
Laminate Thickness	1.3mm (0.05 in.)	1.0mm (0.04 in.)	0.25mm (0.01 in.)	0.864mm (0.034 in.)	Varies	











#### Columns

The Tyfo® Fibrwrap® Systems are designed to add strength and ductility to existing columns by providing additional confinement. Fyfe Company has conducted full-scale structural testing to demonstrate the system's effectiveness.

Tyfo" Fibrwrap" Systems can be designed to:

- Increase the shear and flexural strength of columns.
- Increase column ductility. Tests have shown displacement ductilities increase of 8+.
- Increase the vertical load capacity by increasing the compressive strength of the concrete.
- Contain corrosion stresses and seal the column from the intrusion of chlorides, moisture and oxygen.

Due to the low profile of the Tyfo® materials, the architectural shape of the column can be maintained. This includes circular, square, rectangular, hexagonal, oblong flared and other shaped columns. The typical system thickness is less than 6mm (0.25°).

#### Beams and Slabs

The Tyfo® Systems can be used for strengthening both beam and slab elements subjected to increased loading or to enhance the performance of under-reinforced elements. The Tyfo® Systems can also be used as alternatives to conventional strengthening options such as shotcrete or steel plate bonding. Tyfo® Fibrwrap® Anchors provide greater bond durability and design efficiency.

### Concrete and Masonry Walls

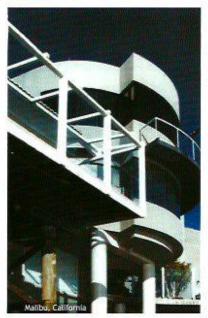
Many concrete walls or masonry structures of brick, clay tile or concrete block require strengthening to increase both in-plane and out-of-plane performance. The Tyfo® Systems can be used to add the required additional capacity. Tyfo® Fibrwrap® Anchors provide greater bond durability and design efficiency.

#### Underwater

Using specially formulated Tyfo® SW-1 resins, the Tyfo® Fibrwrap® System can be used to reinforce underwater elements such as bridge and pier columns and piles.

#### Wood

The Tyfo® Systems can be used to retrofit existing wooden elements such as piles, poles, glulam beams, and more.











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#### **Blast Mitigation**

Tyfo® Systems are ideal for many blast hardening and mitigation applications. The large strain capacities of Tyfo® materials provide ductility with the addition of only a few millimeters of additional element thickness. Potential applications include mitigating explosions in industrial and petroleum facilities as well as protecting facilities from munitions or terrorist attacks. The Tyfo® Blast-Flex System, a spray-applied elastoplastic material, can also be used for blast mitigation applications.



#### **Pipes**

Pipes, both exposed and underground, deteriorate over time. The Tyfo® Systems can be used to repair and reinforce existing pipes. In some situations, the materials can be installed by manhole access with no excavation needed. Due to the low profile of the System, there is negligible loss in capacity for interior applications. Tyfo® PWC, potable water coating, is available as a final protective coat.



# Fire-Resistant Systems

The Tyfo\* FC/F System is a two-part, fire-resistant system applied in conjunction with the Tyfo\* Fibrwrap\* System. Tyfo\* FC/F provides insulation against fire and increases a two-hour fire rating as per ASTM E-119. The newly developed Tyfo\* VG/EI-R Fire Protection System is used to protect structural elements that have been reinforced with Tyfo\* Fibrwrap\* while they are under load.



### Chimneys, Stacks and Tanks

Tyfo® Systems can be applied to the interior or exterior surfaces of chimney, tank and stack structures to increase shear strength, flexural strength and integrity.



#### Corrosion

The Tyfo® Fibrwrap® Systems can be used to repair and protect concrete elements from corrosion. In conjunction with Tyfo® Fibrwrap®, Tyfo® CIS Corrosion Inhibitors can be used to treat concrete and reinforcing steel.



For additional Fyfe Company products and services, such as Forced Entry Systems, concrete repair materials or Tyfo® equipment and safety supplies, please contact a Fyfe Company representative.

For additional information on our Tyfo\* products, please visit our website www.fyfeco.com

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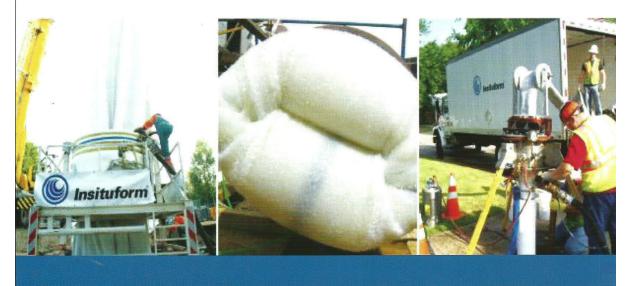






# INSITUFORM® CIPP

Affordable, reliable and non-disruptive solutions for sewer pipe reconstruction



#### **Our Trenchless Solution**

The Insituform® cured-in-place pipe (CIPP) is a jointless, seamless, pipe-within-a-pipe used to rehabilitate foul sewers, storm sewers and rising mains ranging in diameter from 100mm to 2500mm.

#### Insituform® CIPP addresses your top concerns:

Infiltration reduction. Water entering your sewer system through cracks, holes and joint failures can overload your treatment facilities, especially during wet weather. Insituform® CIPP significantly reduces this infiltration. In dry climates, roots find the sewer system an attractive source of water and nutrients and create blockages and overflows. Insituform® CIPP contains your flow within the pipe while keeping external water and roots out.

**Structural integrity.** Insituform® CIPP restores structural integrity to your damaged sewer pipes. The design models used, independent test results and over 40 years of service all confirm that Insituform® CIPP is a structural product with a 100-year design life.

Increased flow capacity. Insituform® CIPP provides the least cross-sectional reduction of all methods used to rehabilitate pipes. There are no joints or seams that can separate over time and the smooth, jointless interior provides excellent abrasion resistance and typically improves flow capacity.

Affordability. The Insituform® CIPP process is usually less expensive than conventional dig and replace methods of sewer repair. When the lost business revenues, traffic congestion and social costs associated with other methods are considered, your savings are immeasurable.

Installation flexibility. Insituform® CIPP can be installed using either air or water inversion or by pulling into place. The cure can be done with steam or hot water. All processes are consistent with nationally recognized standards and Insituform's own ISO-certified quality control program. Since each job is unique, we apply the most cost-effective, technically optimal solution to meet your pipeline rehabilitation needs.

#### INSITUFORM® CIPP

# Insituform® CIPP is the best choice for trenchless rehabilitation.

#### Insituform superior processes

Since inventing CIPP over 40 years ago, Insituform has developed the highest quality manufacturing and installation systems in the trenchless industry.

As a vertically integrated company, we take responsibility for research and development, manufacturing, installation and service. Our systems are designed to produce consistency and high performance in our products and services.

#### Manufacturing

Insituform's patented manufacturing capabilities are certified to the ISO 9001:2008 standard, ensuring that our tubes are constructed for optimal long-term performance. During the manufacturing process, each tube goes through 25 separate quality checks.

#### Wet out

Insituform's resin impregnation process ensures that Insituform® CIPP achieves the required strength and enables wet out of many lengths, diameters and thicknesses and allows a faster wet out in less space, saving on time and money.

Insituform's wet out facilities utilize environmentally friendly methods and equipment.

#### Installation

Every Insituform installation is completed using our own safety-certified crews who follow strict safety procedures and documented work practices. Each crew is equipped with highly specialized equipment, backup resources and engineering support.

Insituform's advanced installation methods include air invert steam cure, which reduces water usage on a job site by approximately 95% and energy usage by 75%.

#### **Transportation Solutions**

Insituform offers affordable, trenchless solutions to renew and extend the life of underground storm sewers and drainage structures. A large number of culverts running under roadways are approaching or have exceeded their expected design life. A culvert or storm sewer pipe collapse can have catastrophic effects on the traveling public, your budget and your credibility. Insituform can help you avoid the direct costs and the social costs of a failure by proactively renewing your underground assets.

For transportation projects, particularly culverts, Insituform uses installation methods that minimize the use of water and maximize resin containment, thus protecting downstream waters from contamination.

#### The Insituform® CIPP Installation Process



#### Step 1:

A resin-saturated, coated felt tube is inverted (shown) or pulled into a damaged pipe.



#### Step 2:

Hot water or steam is used to cure the resin and form a tight-fitting, jointless and corrosion-resistant replacement pipe.



#### Step 3:

Service laterals are restored internally with robotically controlled cutting devices and the rehabilitated pipe is inspected by closed-circuit TV.

#### The Insituform® CIPP Technical Envelope

Diameter range	100mm - 2500mm*
pH range	0.5 - 10.5
Effluent temperature	up to 60° C
Pipe condition — fully deteriorated	Yes
Pipe condition — partially deteriorated	Yes
Bends	Yes
Offset joints	Yes
Diameter changes	Yes, without manhole access
Thickness changes	Yes, without manhole access
Typical shot length	60m to 300m
Host pipe shape	All shapes
Host pipe material	All materials

<sup>\*</sup> Thickness and length limitations in larger diameters

This table refers to general public service CIPP projects. Insituform can provide products that extend beyond these parameters through our engineering group.

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