



**Products And Services Brochure** 



Headquartered in Hong Kong,

management.

construction industry since its establishment in 2010.

Certified as an Approved Supplier of Materials and Specialist Contractor for In considering the outstanding performance for all criterions of boosting Public Works of Hong Kong SAR (in 2020), Fibrpro is a one-stop contracting productivity, uplifting built quality, improving site safety and enhancing service provider and offers design, engineering, manufacturing, delivery, environment performance. installation and commissioning for a comprehensive range of FRP related products and works both to our proprietary design and customers specific FIBRPRO® proprietary SYNTHETEC® stone grating and tree pit are certified as requirements. We take much pride in our involvement in numerous innovative innovation products under the Construction Innovation and Technology Fund in and challenging projects including some singular customised works.

With our extensive knowledge of composite materials, manufacturing techniques, engineering skills and contracting requirements, we expanded our service scope to proprietary engineered prefabrication products in 2015, and FIBRPRO® comprises a team of engineers in the fields of materials, production—since then have been offering innovative and cost-effective solutions to techniques, mechanics, structures, construction methodologies and address complex construction and architectural challenges and to overcome the high labour costs in the construction market. Going from strength to strength, FIBRPRO® set up a dedicated FRP manufacturing plant in Guangdong It is with this unique foundation that FIBRPRO® has been at the forefront in the in 2018 with research and development (R&D) capability, taking the design and fabrication of Fibre Reinforced Polymer (FRP) products for the development path that integrates education, research, production, and application.

2020, which is established by the Development Bureau of Government of Hong Kong SAR and implemented by the Construction Industry Council (CIC).

How are we able to read your minds and to realize your thoughts? Because we are manufacturer, engineer and contractor integrated as one!

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Provision of FRP covers to Primary

Sedimentation

Sha Tin Sewage

Treatment Works.

Tanks of

Drainage

Department,

Hong Kong

Services







Department,

Hong Kong



Provision of FRP formwork to the sewage

conveyance tunnel across Victoria Harbour,

Drainage Services 5 Department, Hong Kong



TRANSFORMATION

of FRP plank to utility trough of Hong Kong - Zhuhal -Macao Bridge,

Highways Department, Hong Kong



FRP platform at KMG ultrapure chemicals

refinement facilities at Jurong Island, Singapore





FRP units at Organic Waste Facilities of Siu Ho Wan, Environmental Protection Department,

Hong Kong



FRP units at San Wan Sewage Treatment Works, Drainage Services Hong Kong



Provision of FRP lighting signage at The Cube of Tsuen Wan, 2 FPR working approved by Building platforms to

0 the Cube 1 Oceanarium of

Chengdu 4 Jiaolong Port, China



FRP dock of the Thyne Reid Boat Shed of Sydney University, Australia





Construction of

Sludge Treatment Facilities of

FRP units at

Nim Wan,

Environmental Protection

Department,

Hong Kong

0

Provision of FRP

covers to Filter

Beds of







FIBRPRO® profiles are pultruded
FRP shapes which consist of glass
rovings, continuous strand mat and
The four major components
are impregnated with resin
and heat-formed by the **PROFILES** surface mat or other veil materials. pulling action of pultruders.

Being corrosion resistant,
FIBRPRO® profiles are ideal
substitutions for steel or even
stainless steel components. They can be assembled to form a wide range of FRP products such as ladders and rails. LADDERS & RAILINGS

### FIBRPRO® Gratings are divided into three groups:

Pultruded FRP gratings are assembled of pultruded FRP profiles, with I bars, T-bars, as load bearing members, circular rods as connecting members and circular tubes as spacers between load bearing members.







[ MOULDED FRP GRATINGS ]



Casting Stone Grating is a precast unit fabricated using low content (about 15% by weight) of resin / polymer material as binder and quartz sand or crushed stone as aggregate, the mixed compound with designated color is filled into moulds and compacted to form panels to any shapes and architectural features through an advanced state of the art vacuum and compression process.

### [ CASTING STONE GRATING ]



Moulded FRP gratings are in form of regular mesh or slot types. They are formed in large metal moulds with hand-laid glass fibres as reinforcement and resins as matrix.



In July 2020,

FIBRPRO® Synthetec® stone grating and tree pit, as an innovation technology / product, is certified to be included in the Pre-approved list of the Construction Innovation and Technology Fund (CITF)in considering the outstanding performance in accordance with factors of boosting productivity, uplifting built quality, improving site safety and enhancing environmental protection.



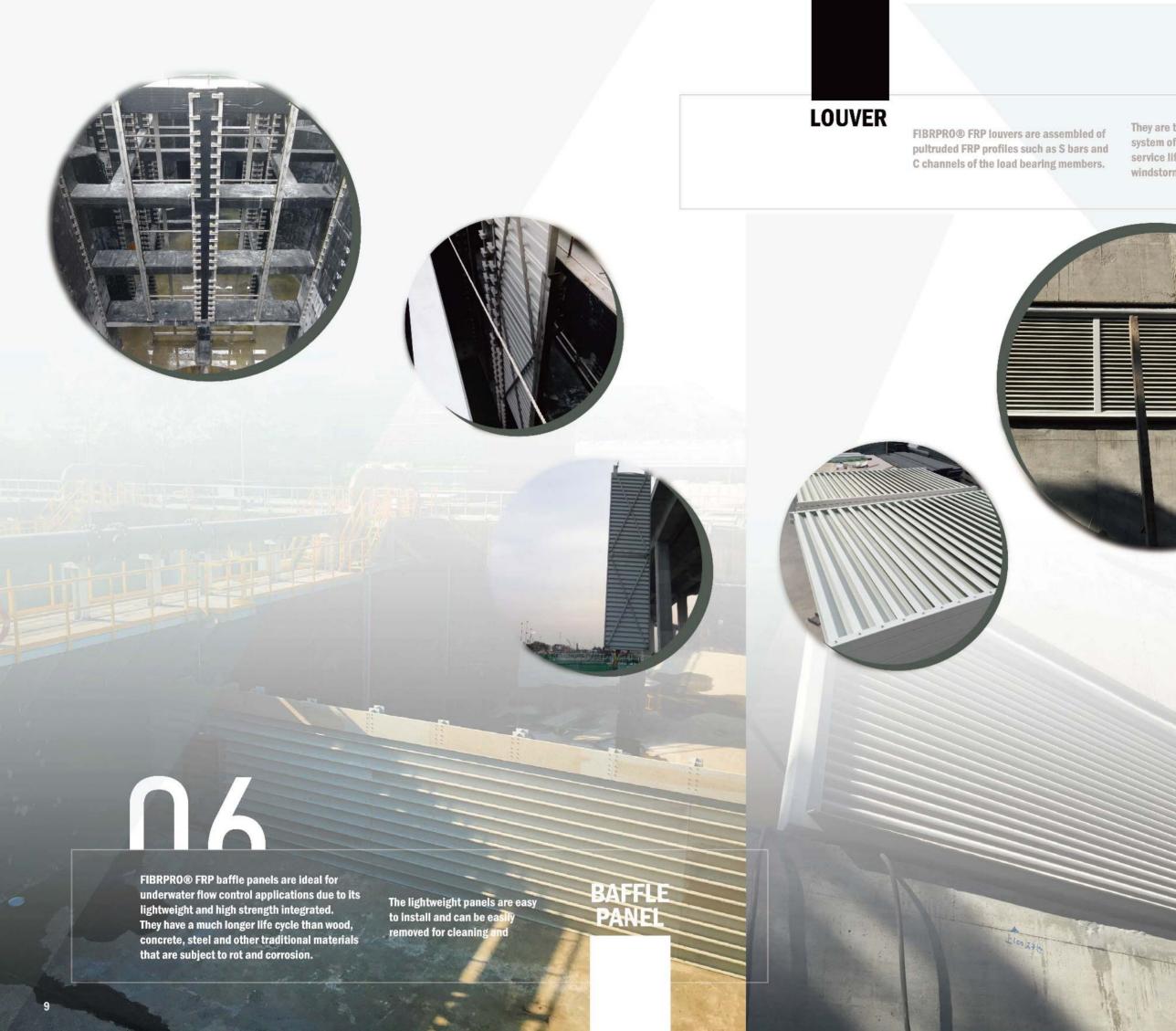
·展局 evelopment Bureau





GRATINGS





## They are the key element for the ventilation system of effective air control and long

service life to the exposures and high windstorms.

PROTECTIVE LAYER

FIBRPRO® composite matrix can be used 
Due to its unique combination of as an anti-corrosion protective layer. The fiber and resin, the protective layer most common application is to apply as a can break through the limitations of coat to steel profiles and the assembly of these components can be placed in high corrosion or extreme environments.

general measures such as galvanizing, paint, and epoxy coating to form a larger thickness protective layer.



process. They are us rebar due to their co or electromagnetic

For the GeoTech and Mining industries, these same advantages are having, but with the added benefit that they can be "removed" by Tunnel Boring Machines and mining equipment when used in the "Sequential Excavation Method" or "New Austrian tunnelling Method.

**REBAR** 

FIBRPRO® FRP formwork is economical solution for concreting specialist design

FIBRPRO® FRP formwork is an economical solution for architectural requirements and have no limitation on object shapes.

They fulfil the most demanding architectural requirements and have no limitation on object shapes.

## CONCRETING FORMWORK





CLADDING FIBRPRO®

& SIGNAGE properties

versatility

FIBRPRO® FRP is an ideal cladding material has aesthetic properties, durability, impact resistance, ease of installation, versatility and overall weight savings on the structure.



FIBRPRO® composite is an ideal material for artistic sculpture products. It can be formed to indoor decorations, outdoor furniture, theme park accessories and others almost no application restrictions.

### **FEATURES**





Non-corrosive nature and Impervious to chemical attack

Longitudinal tensile strength is greater than steel

Manufacturing processes are versatile and mechanical properties are adjustable

Low transverse resistance undergrinding: cutting ability as temporary reinforcement

1/4th weight of steel: reduction of dead load, easier handling for quicker construction

Transparent to magnetic fields & radio frequencies

Electrical and thermal Non-Conduction (fiberglass)

High fatigue resistance

### - CURRENT

Time + Labour Saving = COST SAVING

LIGHT WEIGHT FRPs add limited dead load to existing construction.

EASE OF HANDLING
FRPs are saving labours to erected.

QUICK ERECTION
FRPs can be fast implemented due to
modular, pre-fabricated, and light weight units.

VERSATILE TO SHAPES
FRPs have no limitation on object shapes

### - FUTURE

Long Service Life = COST SAVING

GOOD DURABILITY
Excellent resistance to chemicals and weathering.

IN THE CONSTRUCTION INDUSTRY

GENERAL DISADVANTAGES

Slightly higher initial costs.

A brittle material

Can be fire retardant, but not non-combustible

Limited experience by design professionals and contractors.

Lack of data on long-term field performance.

Absence of full spectrum of codes and specifications



# FIBRPRO® INSIGHTS

DESIGN AND ENGINEERING SHALL FULLY UNDERSTAND THEMATERIALS AND MECHANICS, EXPLOIT STRENGTHS AND AVOID WEAKNESSES AND MAKE SOMETHING DIFFERENCE.



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