FIBRPRO®
precast

www.fibrpro-precast.com

☎ (852) 9741 3991
(852) 9741 3991
info@fibrpro-precast.com
ADEQUATE PROJECT MANAGEMENT & CONSULTANCY CO. LTD.

SYNTHETIC TREE PIT

FIBRPRO®
precast

About Us

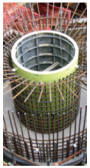
FIBRPRO®
MANUFACTURING | PRECAST | CONTRACTOR

Headquartered at Hong Kong, FIBRPRO® is a team of engineers in fields of material, production, mechanics, civil, structure, environment, construction, contract and management. It is with this unique background that FIBRPRO has been leading the way in design and production of Fibre Reinforced Polymer (FRP) materials in construction since its establishment in 2010. We specialise in providing design, engineering, manufacture, delivery, installation and commissioning one-stop contracting service for a comprehensive range of FRP related works. We pride ourselves on challenging projects, and welcome unique bespoke work.

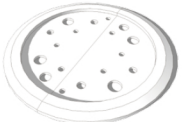
With our extensive knowledge of composite materials, manufacturing techniques, engineering skill and contracting experience, we extended our service scope to the engineering precast or prefabrication products in 2015, and since then have been offering with innovative and cost-effective solutions to address complex construction challenges and the high labour cost of local construction market.







FIBRPRO® precast | SYNTHETIC TREE PIT

FIBRPRO® Synthetic Tree Pit are precast unit fabricated by using low content (approximate 15% by weight) of resin/polymer material as blinder, such as resin of polyester, epoxy methacrylates, phenolics, furans and vinyl ester etc. with quartz sand, natural or recycled crushed stone and recycled fillers, such as fine aggregate, mineral granulation or reused fibers. The mixed compound, which is an almost agglomeration of natural stone substrates & mineral oxides is filled into moulds and compacted to form panels or any shapes of features under a high-tech vacuum & compression process.



Product Advantages

Absolutely Corrosion Resistant

Fire Retardant

Chemical Resistance

Aging Resistance

Impact Resistance

Non-slip Surface

Loading Sustainable

Light-Weight

Insulation Properties

Low Noise Nuistance

Low Maintenance Cost

Indoor & Outdoor Suitable

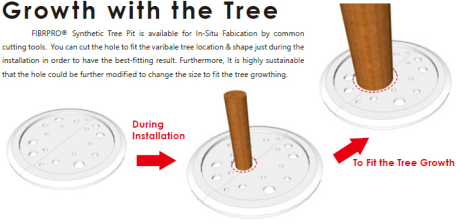
Cost Effective

Low Potential of Stealing

Design Freely

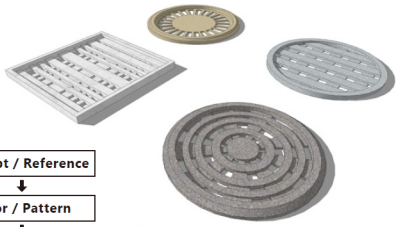
Growth with the Tree

FIBRPRO® Synthetic Tree Pit is available for In-Situ Fabication by common cutting tools. You can cut the hole to fit the varibale tree location & shape just during the installation in order to have the best-fitting result. Furthermore, It is highly sustainable that the hole could be further modified to change the size to fit the tree growthing.



Custom Made Service

FIBRPRO® Synthetic tree Pit today covers a nearly limitless array of colors, and is known for being custom made to fit even the most complex design for shapes and patterns, durable, sustainable, and versatile. From the indoor shopping mall, sport stadium, airport terminal to the outdoor garden, children playground, schools, hospitals, and any public plaza, synthetic tree pit serves as the essential part of flooring canvas with infinite possibilities.



Concept / Reference

↓

Color / Pattern

↓

Size & Shape

↓

Opening Pattern

↓

Finishing Texture

Possible Color:

Technical Information

Properties	Test Method	Result
Fire Test on Building Materials and Structures	BS 476: Part 7	Class 1
Flexural Strength	BS 2782: Part 10	33MPa
Shear Strength	BS 2782: Part 3	31MPa
Tensile Strength	BS 2782: Part 10	14MPa
Compressive Strength	BS 2782: Part 3	75MPa
Absorption Water by Immersion	BS EN1170: Part 6	< 0.5% (in 7 days)
Anti-Slip	DIN 51130	R11
Abrasion Resistance	BS EN13748	< 30 cm3 / 50 cm3

Comparision | between commonly use materials for tree pit

	FIBRPRO precast Synthetic Tree Pit	Granite / Marble	Cast Iron	Stainless Steel	Fiberglass
Approximate Material Density (Kg/m³)	1,800 Light-weighted	2,700	7,800	7,800	1,500 Light-weighted
Aging Resistance	Good	Good	Poor	Good	Good
Conductivity	Insulator	Insulator	Conductor	Conductor	Insulator
Chemical Resistance	Good	Good	Moderate	Good	Good
Anti-Slip	Good	Poor	Poor	Poor	Moderate
Design Flexibility (Color, Shape, Opening)	Good Custom Made	Poor	Poor	Poor	Moderate
Material Cost	Moderate	High	Low	High	Moderate