

FIBRPRO[®]
precast

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SYNTHETIC TREE PIT

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About Us

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.

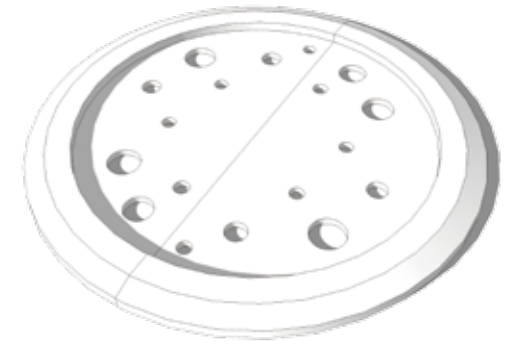
With our extensive knowledge of composite materials, manufacturing techniques, engineering skill and contracting experience, we extended our service scope to the engineering precast or prefabrication products in 2015, and since then have been offering with innovative and cost-effective solutions to address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



FIBRPRO®
MANUFACTURING | PRECAST | CONTRACTOR

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.

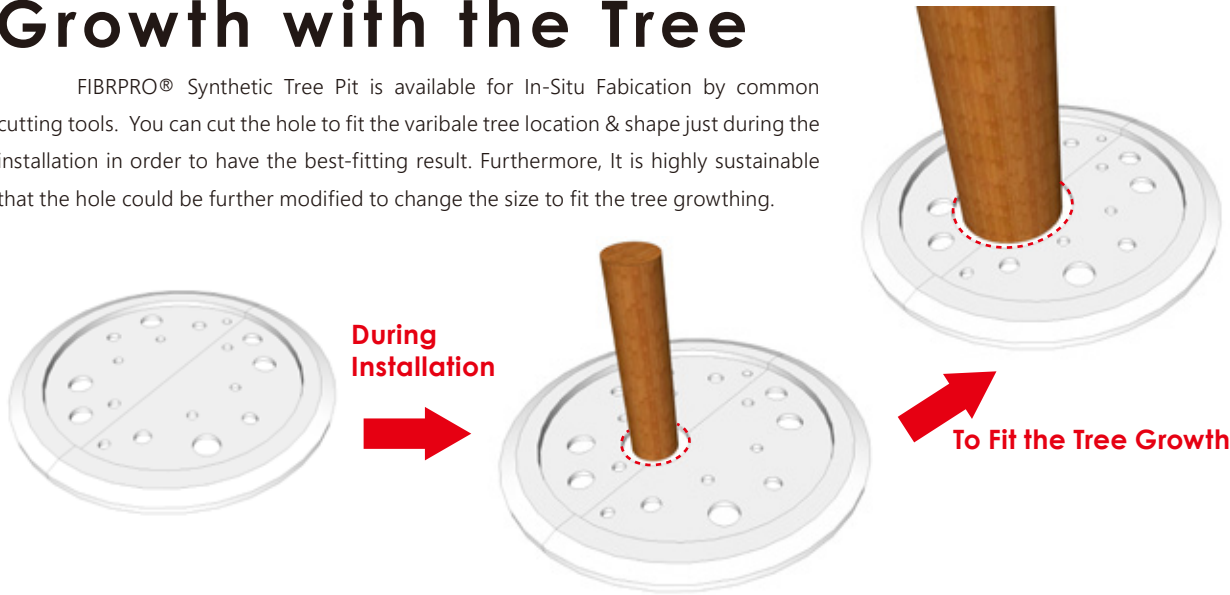


Product Advantages

 Absolutely Corrosion Resistant	 Fire Retardant	 Chemical Resistance	 Aging Resistance	 Impact Resistance
 Non-slip Surface	 Loading Sustainable	 Light-Weight	 Insulation Properties	 Low Noise Nuisance
 Low Maintenance Cost	 Indoor & Outdoor Suitable	 Cost Effective	 Low Potential of Stealing	 Design Freely

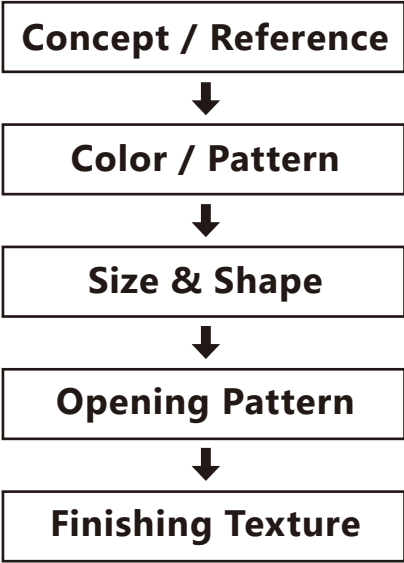
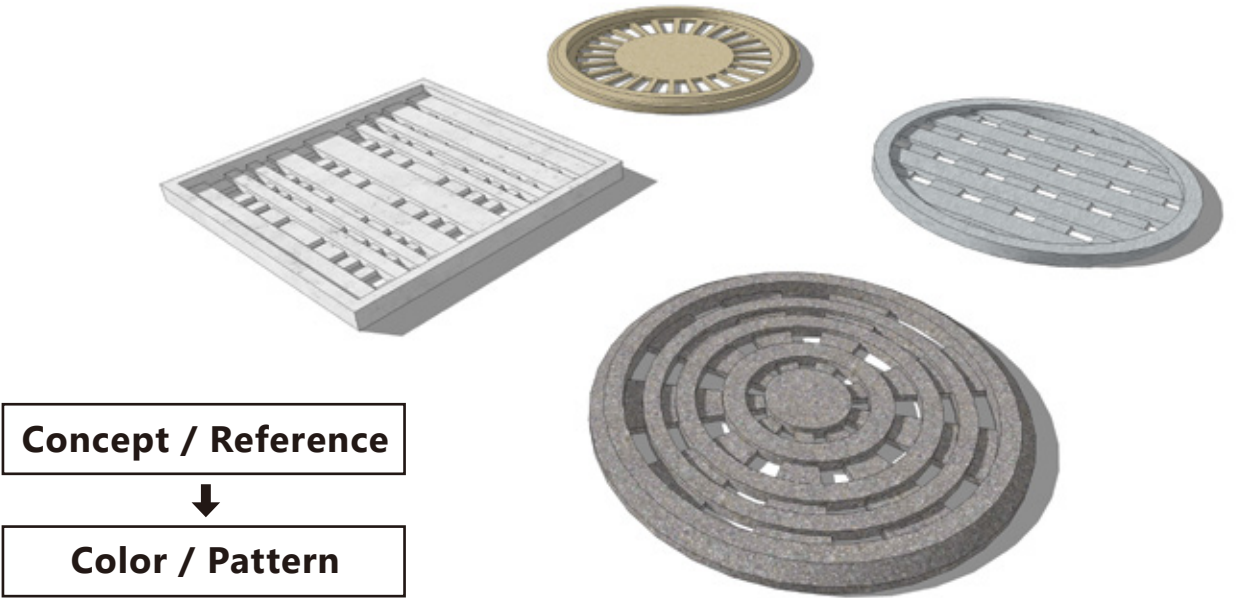
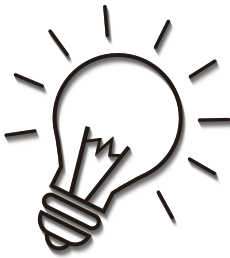
Growth with the Tree

FIBRPRO® Synthetic Tree Pit is available for In-Situ Fabrication 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 growing.

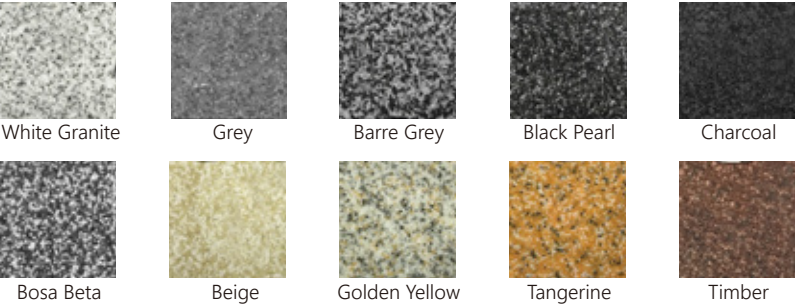


Custom Made Service

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.



















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

	<div>FIBRPRO[®] precast</div> <div>Synthetic Tree Pit</div>	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