Wagners Composite Fibre Technologies (CFT)

Trident Marine Pile

Waterfront moorings are set to be revolutionised with the new Trident Marine Pile designed to perform for 50-years and reduce impact to berthing vessels.

Manufactured in Australia from Fibre Reinforced Polymer (FRP) with an integrated HDPE sleeve, the dynamic properties of the Trident Marine Pile allows it to yield before returning to its original state, which significantly reduces the risk of impact damage to berthing craft.

Twice as strong as steel, Trident Marine Piles are also inert and will not rot, rust or corrode. And with no-electrolysis, boat and marina hardware is safe from damage.

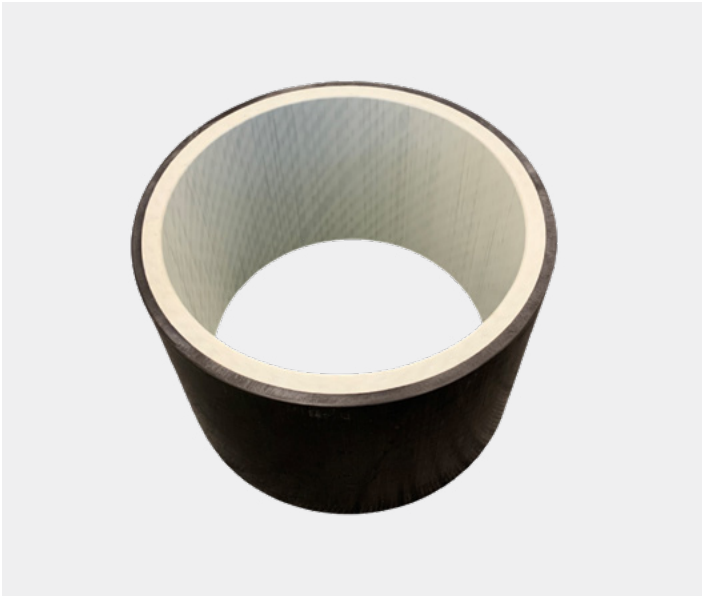
Acid sulfate soils, UV rays and marine borers are no match for the Trident Marine Pile which is non-toxic and non-leaching so safe for marine ecosystems. Plus, with less embodied carbon than traditional materials Trident Marine Piles will contribute towards cooling the planet.

Performance Advantages

- **Durable** - 50 year design life
- **Strong** - twice as tough as steel
- **Inert** - will not rot, rust or corrode
- **No-electrolysis** - no damage to boat & marine hardware
- **Resistant** - acid sulfate soils, UV rays & marine borers
- **Yield technology** - reduced risk of impact damage
- **Non-leaching & non-toxic** - safe for marine ecosystems
- **Reduced embodied carbon** - fight global warming
- **Low maintenance** - reduced inspection / replacement requirements
- **Australian manufactured**
- **Integrated HDPE sleeve** - one installation
- **Easy installation** - hammer or vibro-driven

Technical Data

Property	Notation	UOM	WGN - C500	WGN - C8000
Outer Dimension	D_o	mm	301	356
Wall Thickness	t	mm	13.5	13.5
Cross Sectional Areas	A	mm^2	12193	14526
Surface Area	SA	m^2/m	0.95	1.12
Moment of Inertia	I	mm^4	$126.26x10^6$	$213.33x10^6$
Weight	W	kg/m	24.64	29.49
Moment Capacity	M_u	kN.m	250#	384#
Tensile Strength (L)	F_{Lt}	MPa	635	635
Tensile Modulus (L)	E_{Lt}	MPa	35405	35405
Compressive Strength (L)	F_{Lc}	MPa	395	395
Compressive Modulus (L)	E_{Lc}	MPa	41178	41178
In Plane Shear Stress (L)	F_{Lv}	MPa	93	93



Wagners CFT meets the international management standards for:

Certified System Quality ISO 9001 SAI GLOBAL
Certified System Environment ISO 14001 SAI GLOBAL
Certified System OHS ISO 45001 SAI GLOBAL

AUSTRALASIA EPD®
ENVIRONMENTAL PRODUCT DECLARATION

T +61 7 4637 7777
E cftsales@wagnerscft.com.au

WAGNERS

Wagners Composite Fibre Technologies (CFT) wagnerscft.com.au