



APE Plastic Piling

## Harborpile

### Composite Tubular Pilings

The next generation of piling designs

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# HarborPile Specifications

- Pilings available up to 30 metres long and in diameters up to 60 cm.
- Custom sizing available upon request.
- Can be custom engineered to the requirements of a specific project.
- HarborPiles are manufactured, shipped and driven hollow with or without Driving tip. Driving tips and caps available upon request.
- Depending on the final application, customer may fill the piling with an appropriate core material (crushed gravel, concrete, foam etc).
- Standard colour is light grey or black. Other colour options available.



## Advantages of Composite Pilings

- Light weight
- High strength-to- weight ratio
- Directional strength
- Corrosion & weather resistance
- Dimensional stability
- Low thermal conductivity
- Low coefficient of thermal expansion
- Non- magnetic
- High impact strength
- Low maintenance
- Long term durability
- Tailored surface finish



HarborPiles are designed to resist tensile, compressive, shear and torsional stresses. Use of appropriate core materials can be used to increase compressive loads and to enhance the bending performance.. Some examples are shown below, please note that alternate wall thickness are available.

An HDPE outer sleeve is also available on the entire or partial part of the pile for extra abrasion and impact resistance. Also a fibreglass pultruded compression tube is available for field installation providing additional crush resistance for through bolting situations.



HarborPile Size (cm) & Style	Ultimate Compression (KN short column)	Ultimate Moment (KN-M)	Ultimate Shear (KN)	Wall Thickness (mm)	Weight Per Meter (kg)	EI Values (N cm <sup>2</sup> )
20 cm Standard	622	30	196	6.50	7.5	4.170E+09
25 cm Standard	650	38	240	6.50	9	8.300E+09
30 cm Standard	1272	92	364	10.00	15.5	2.111E+10
35 cm Standard	1308	112	428	10.00	18.5	3.398E+10
40 cm Standard	1334	130	490	10.00	21	5.124E+10
45 cm Standard	2624	284	1006	13.00	31.25	9.600E+10
60 cm Standard	2758	404	1352	13.00	41.75	2.324E+11
20 cm Heavy Duty	2242	100	428	13.00	14	7.585E+09
25 cm Heavy Duty	2348	136	542	13.00	17.5	1.539E+10
30 cm Heavy Duty	2428	170	658	13.00	21	2.727E+10
35 cm Heavy Duty	3764	306	952	16.00	31.25	5.365E+10
40 cm Heavy Duty	5382	498	1298	19.00	41.75	9.545E+10
45 cm Heavy Duty	5506	580	1468	19.00	47	1.381E+11
60 cm Heavy Duty	5810	832	1984	19.00	62.5	3.378E+11