Marine Piles

Duraspun® Marine Piles

Rocla Duraspun® marine piles are suitable for use in floating marinas and are designed primarily as cantilever elements with bending strengths typically increasing from the head of the pile to the toe. They are also suitable for jetties and structural applications.

The centrifugally spun manufacturing process produces a hollow, circular section of high density reinforced or pre-stressed concrete, resulting in a pile that is lighter and more economical for a given length and purpose than solid cast concrete piles of the same length and strength.

A large range of bending strengths is available, from 125 kNm up to 1200 kNm, as well as a range of fittings that allows the piles to be easily incorporated into fixed structural walkways, ramps and jetties.

Installation options

Duraspun® marine piles can be installed by driving, potting or jetting.

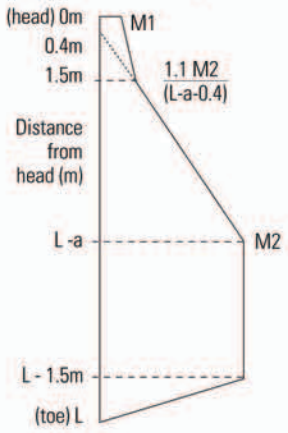
Contact Rocla Concrete Poles for more information

Duraspun® Marine Piles – Product range

Marine Piles – Bending Moment and Shear Force

Pile Type Dia/Strength (mm/kNm)	Pile Length (m)	Dimensions (m) L = Pile length		Bending Moment Strength (kNm)		Shear Strength (kNm)	
		a	b	M1	M2	S1	S2
285/100	6.0-12.0	L/2	2.0	40	100	80	120
350/10	6.0-12.0	L/2	2.5	40	150	100	150
400/175	8.0-12.5	L/2	n/a	50	175	140	140
	13.0-18.0	6.0	n/a	50	175	140	140
400/275	8.0-13.5	L/2	2.5	50	275	140	190
	14.0-24.0	7.0	2.5	50	275	140	190
400/375	8.0-13.5	L/2	3.0	50	375	160	220
	14.0-24.0	7.0	3.0	50	375	160	220
450/275	8.0-13.5	L/2	n/a	50	275	170	170
	14.0-24.0	7.0	n/a	50	275	170	170
450/425	8.0-13.5	L/2	3.5	50	425	170	220
	14.0-24.0	7.0	3.5	50	425	170	220
450/525	8.0-13.5	L/2	3.5	50	525	200	260
	14.0-24.0	7.0	3.5	50	525	200	260
585/750	8.0-15.5	L/2	4.0	150	750	250	380
	16.0-24.0	8.0	4.0	150	750	250	380
585/950	8.0-15.5	L/2	5.0	150	950	250	380
	16.0-24.0	8.0	5.0	150	950	250	380
585/1200	8.0-15.5	L/2	5.5	150	1200	270	400
	16.0-24.0	8.0	5.5	150	1200	270	400

Bending Moment Strength Mu



Shear Strength Vu