

New Prolock Specifications 2024



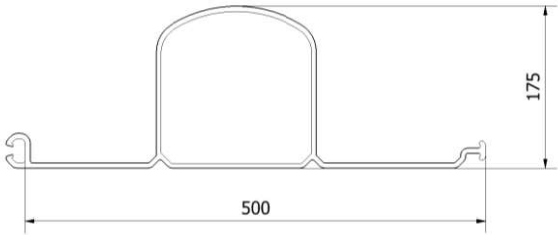
The Plastic Piling Company Limited
Unit 19 Cinder Road
Zone 3 Burntwood Business Park.
Burntwood Staffs WS7 3FS

Prolock sheet

PVC			
Stiffness	EI_{top}	120	[kNm ² /m]
Max. characteristic moment	M_{ch}	22.3	[kNm/m]
Max. representative moment (long/short term)	M_{rep}	10.0 / 11.2	[kNm/m]
Modification factor (long/short term)	k_{mod}	0.45 / 0.5	[-]
Material factor	γ_m	1.2	[-]
Height	h	175	[mm]
Width	b	500	[mm]
Section area	A	117	[cm ² /m]
Section modulus	W_{el}	372	[cm ³ /m]
Moment Inertia	I_y	4614	[cm ⁴ /m]
Characteristic yield strength	$f_{m,0rep}$	60	[N/mm ²]
Max. design moment (long/short term)	M_{edai}	8.4 / 9.3	[kNm/m]

PVC	Characteristic yield strength	f_{mch}	60 [N/mm ²]
	Material factor	γ_m	1.2 [-]
	Modification factor long term	k_{mod}	0.45 [-]
	Modification factor short term	k_{mod}	0.5 [-]
	Shrink factor	k_{del}	1.5 < 15j
		k_{del}	2.3 > 15j
	flexural strenght	f_{ed}	22.5 [N/mm ²]
		f_{ed}	25.0 [N/mm ²]
	E modulus	E_{rep}	2600 [N/mm ²]
	Weight (square meter)	G	17.5 [kg/m ²]
	Weight (meter)	G	8.8 [kg/m]

Capping beam available until end of 2025



New Omega/Epsilon Capping beam

