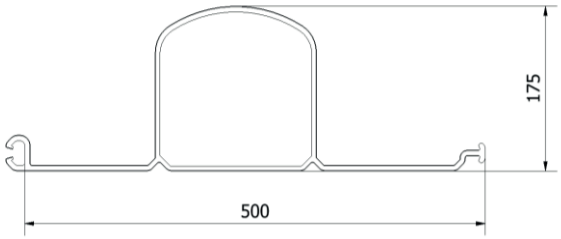
Prolock

sustainable bank protection



Prolock Omega

Prolock sheet

			PVC	
Stiffness	EI_{rep}	120	(kNm²/m')
Max. characteristic moment	$M_{r;k}$	22,3	(kNm/m')
Max. representative moment (long/short term)	$M_{r;rep}$	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	(cm²/m')
Section modulus	W_{el}	372	(cm³/m')
Moment Inertia	I_y	4614	(cm⁴/m')
Characteristic yield strength	$f_{m;0;rep}$	60	(N/mm²)
Max. design moment (long/short term)	$M_{r;d;el}$	8,4 / 9,3	(kNm/m')

PVC

Characteristic yield strength	$f_{m;k}$	60	(N/mm²)
Material factor	γ_m	1,2	(-)
Modificationfactor longtterm	k_{mod}	0,45	(-)
Modificationfactor shortterm	k_{mod}	0,5	(-)
Shrink factor	k_{def}	1,5	< 15j
	k_{def}	2,3	> 15j
flexural strenght	$f_{u;d}$	22,5	(N/mm²)
	$f_{u;d}$	25,0	(N/mm²)
E modulus	E_{rep}	2600	(N/mm²)
Weight (square meter)	**G**	17,5	(kg/m²)
Weight (meter)	**G**	8,8	(kg/m')

Piles

			Soft wood	Soft wood	Soft wood	Soft wood	Azobé	Cloeziana	Cloeziana	Steel 235	Steel 235	Steel 355	
Quality		c18	c18	c18	c18	D70	RD70	RD70	s235	s235	s355	
Form		●	●	●	●	■	●	●	O	O	O	
Dimension	D_{out}	130	140	150	160	120	150	160	139,7	139,7	139,7	(mm)
Wall thickness	**d**								3,6	5,6	5,6	(mm)
Quantity		2	2	2	2	2	2	2	2	2	2	(p/m')
Stiffness	EI_{rep}	252	339	447	579	691	994	1287	1498	2231	2231	(kNm²/m')
Max. characteristic moment	$M_{r;k}$	7,76	9,70	11,93	14,48	40,32	46,39	56,30	24,00	35,75	54,00	(kNm/m')
Max. representative moment (long/short term)	$M_{r;rep}$	4,39 / 5,59	5,41 / 6,88	6,56 / 8,35	7,96 / 10,13	22,18 / 28,22	25,51 / 32,47	30,96 / 39,41	24,00	35,75	54,00	(kNm/m')
Modification factor (long/short term)	k_{mod}	0,57 / 0,72	0,56 / 0,71	0,55 / 0,70	0,55 / 0,70	0,55 / 0,70	0,55 / 0,70	0,55 / 0,70	1,00	1,00	1,00	(-)
Material factor (long/short term)	γ_m	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1	1	1	(-)
Section area	**A**	265	308	353	402	288	353	402	31	47	47	(cm²/m')
Section modulus	W_{el}	431	539	663	804	576	663	804	102	152	152	(cm³/m')
Characteristic yield strength	$f_{m;0;rep}$	18	18	18	18	70	70	70	235	235	355	(N/mm²)
Max. design moment (long/short term)	$M_{r;d;el}$	**3,38 / 4,30**	**4,16 / 5,29**	**5,05 / 6,42**	**6,12 / 7,80**	**17,06 / 21,71**	**19,63 / 24,98**	**23,82 / 30,31**	**24,00**	**35,75**	**54,00**	**(kNm/m')**

Combined Sheet piles

Stiffness	EI_{rep}	372	459	567	699	811	1114	1407	1618	2351	2351	(kNm²/m')
Max. characteristic moment	$M_{r;k}$	30,07	32,00	34,23	36,78	62,62	68,69	78,60	46,30	58,05	76,30	(kNm/m')
Max. representative moment (long/short term)	$M_{r;rep}$	14,43 / 16,75	15,44 / 18,04	16,60 / 19,50	18,00 / 21,29	32,21 / 39,38	35,55 / 43,62	41,00 / 50,56	34,03 / 35,15	45,78 / 46,90	64,04 / 65,15	(kNm/m')
Modification factor (long/short term)	k_{mod}	0,48 / 0,56	0,48 / 0,56	0,48 / 0,57	0,49 / 0,58	0,51 / 0,63	0,52 / 0,64	0,52 / 0,64	0,74 / 0,76	0,79 / 0,81	0,84 / 0,85	(-)
Material factor (long/short term)	γ_m	1,23 / 1,23	1,23 / 1,24	1,24 / 1,24	1,24 / 1,25	1,27 / 1,27	1,27 / 1,27	1,27 / 1,28	1,05 / 1,06	1,04 / 1,04	1,03 / 1,03	(-)
Width	**b**	500	500	500	500	500	500	500	500	500	500	(mm)
Section area	**A**	382	425	470	519	405	470	519	148	164	164	(cm²/m')
Section modulus	W_{el}	803	911	1034	1176	948	1034	1176	474	524	524	(cm³/m')
Max. design moment (long/short term)	$M_{r;d;el}$	**11,74 / 13,60**	**12,52 / 14,59**	**13,41 / 15,72**	**14,49 / 17,09**	**25,42 / 31,00**	**27,99 / 34,27**	**32,18 / 39,61**	**32,36 / 33,29**	**44,11 / 45,04**	**62,36 / 63,29**	**(kNm/m')**

Prolock product by Profextru solutions that fit

feb/24

Subject to printing and typographical errors

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