

Synthetic sheet piling

the green alternative



Warranty

50 year

Economical and environmental sheet piling solutions







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Synthetic (vinyl and composite) Shoreguard® sea walls are a successful alternative, especially for the widely-used wooden shoring walls.

Shoreguard® sea walls have as many advantages as applications.

The sheet piles are available in Z- and Omega formats in widths from 305 to 914 mm and in heights from 127 to 432 mm. Also a flatpanel profile as well as corner profiles are available. Shoreguard® sheet piles are currently used in more than 56 countries around the globe.

Synthetic sheet piles

are the



APPLICATIONS

Bank/shore protection

Dike heightening / reinforcement

(Rail)Road stabilization

Wave breakers

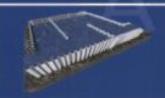
Partition walls

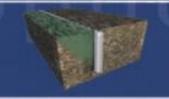
(Soil) retaining walls etc.

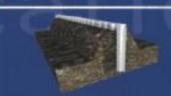


'Cradle to Cradle'

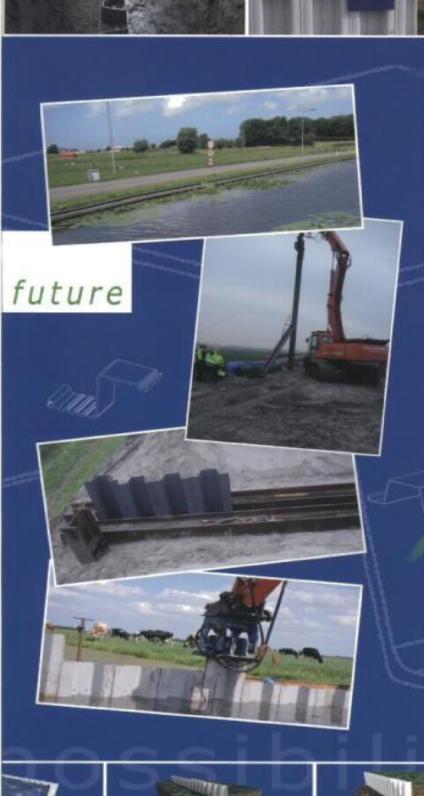
The synthetic sheet piles are made from recycled material, which is UV-resistant and can cope with huge differences in temperature. The 'cradle to cradle' concept of a recyclable product is in full effect here. The manufacturer is an advocate of the Carbon Footprint – environmentally-friendly production using strictly inspected (recyclable) raw materials. Tests guarantee the consistent quality.











To fully finish off our complete range of synthetic sheet piling walls, you can choose from a variety of attachments, including: corner piles (synthetic), capping (aluminum), wales (aluminum/composite/synthetic with wooden core) and bollards (synthetic with wooden core).

This way an aesthetically-pleasing structure is created where corrosion at the waterline doesn't stand a chance.

ADVANTAGES

Environmentally-friendly, "green"

UV resistant

Maintenance-free

Durable, long-lasting

Chemically resistant

Low installation costs

Emission-free

Low transport costs

Fully recyclable

Rust-proof, etc.

As far as the foundation goes, the application of the synthetic sheet piles knows no limits: where steel can reach, so can our synthetic sheet piles! In case the soil is particularly hard, a special technique can be used. We insert a supportive steel bar "mandrel" and the synthetic sheet pile into the ground.

The mandrel is removed after the positioning of the synthetic sheet pile.









Warranty 50 year

CORNER PROFILES

COLINE	IV I IVOITEED PERMIT
Profile	Fits on
CP 225 - 425	SG225, SG300, SG325, SG425, CL9000, CL9900, Flat panel, GG-20
CP 550	SG525, SG550, GG-30
CP 625/750	SG625, SG650, SG750, GG-50
CP 950	SG950
CP GG 75/95	GG-75, GG-95





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PALLI	NG		-			
			Measur	ements		
Profile	WX	IX	Outside	Inside	Height	Fits on
	cm ³	cm ⁴	mm	mm	mm	
AC-575	50	474	140	188	127	SG-225 / GG-20
AC-575 STR*	92	863	140	188	127	SG-225 / GG-20
AC-850	105	1.362	210	259	140	SG-300, SG-325, SG-425, SG-550, GG-30
AC-850 STR*	175	2.272	210	259	140	SG-300, SG-325, SG-425, SG-550, GG-30
AC-855	180	2.363	210	262	163	SG-300, SG-325, SG-425, SG-550, GG-30
AC-855 STR*	250	3.273	210	262	163	SG-300, SG-325, SG-425, SG-550, GG-30
AC-1075	184	2.873	258	312	155	SG-525, SG-625, SG-650, SG-750, CL-9000, CL-9900, Flat Panel, GG-50
AC-1075 STR*	341	5.320	258	312	155	SG-525, SG-625, SG-650, SG-750, CL-9000, CL-9900, Flat Panel, GG-50
AC-1500	383	8,129	368	425	152	SG-950
AC-1600	399	9.001	394	451	152	GG-70, GG-75
AC-1900	455	11.989	470	527	152	GG-95

^{*}Reinforced pile cap

WALES

Profile	WX	IX	Height	Width		
	cm ³	cm4	mm	mm		
AW-6 aluminum	104	899	152	152		
AW-6 STR* aluminum	139	1.165	152	152		
AW GG-6	167	1.374	152	152		
AW GG-6 STR*	200	1.632	152	152		













Timberguard® Marine Piling & Wales

Rotting bollards and wales.... no more!!

Where wood can sustain damage from for example termites and other parasites, UVradiation and ice damage, Timberguard® can offer a permanent solution.

Timberguard® is also the solution when it comes to conforming to the strict environmental regulations regarding the use of specially-treated wood.

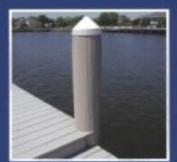
Timberguard® is fabricated by enveloping wood in a synthetic (pvc) casing.

This is the same material used for the production of Sheet piles and is quite aesthetically-pleasing. Fabrication occurs by a specially-patented technology so that quality is consistently maintained.

Enclosed within the synthetic layer, the wood is immune to outside influences - making this product a very worthwhile investment.











Reference guidelines for vinyl – composite sheet piles

	Co	mp	os	ite							Vi	ny	1	ı		1								
UC-95	UC-75	UC-50	UC-30		FP-575	FP-475	CL-9900	CL-9000	SG-950	SG-850	SG-750	SG-650	SG-625	SG-550	SG-525	SG-425	SG-325	SG-300	SG-225					Туре
20	13	76	46	0,= N/r	73,84	48,64	44,76	36,54	131,44	88,24	83,32	68,36	54,10	45,54	37,98	31,20	24,54	26,54	15,62	kNm/m	M	0 = 44,12 N/mm2		Allo Mo
201,88	136,59	76,57	46,38	o _s = 68,95 N/mm2	36,92	24,32	22,38	18,27	65,72	44,12	41,66	34,18	27,05	22,77	18,99	15,60	12,27	13,27	7,81	kNm/m	design	o _d = 22,06 N/mm2		Allowable Moment
2.928	1.981	1.110	673		1.673	1.102	1.015	828	2.979	2,000	1.888	1.549	1.226	1.032	198	707	556	602	354	cm³/m	xw			Section Modulus
67.577	36.313	14.236	7.063	E _s = 0,27579 *10° N/mm2	12,399	6.145	12.337	10,038	46.527	25,400	24.870	20.184	16,710	10.691	10.758	7,798	5.333	5.541	2.417	cm*/m	lx	E _d = 0,02620 *10° N/mm2		Moment of Inertia
1770,52	951,41	372,99	185,06		324,85	161,00	323,23	262,99	1.219,02	665,48	651,61	528,82	437,80	280,11	281,85	204,30	139,72	145,17	63,32	kNm ²	E+1			Stiffness
13,7	10,2/10,9	8,3/9,0	6,4/6,7		7,4/12.1	6,4/6,1	8,9	7,1	16,5	13,1	11,7	10,2	8,6	9,4	7,4	- 72	6,4	6,4	5,7	mm				Thickness
432	356	254	203		229	178	229	229	305	254	254	254	254	203	229	203	178	178	127	mm	0			Height
762	610	914	457		610	610	610	610	457	457	305	457	762	305	610	610	610	50E	457	mm	W			width
7	2	Ω	2		T	F	Ω	0	Z	- 2	2	7	Ω	7	Q	ŭ	ŭ	7	Ω					Shape
31,37	19,88	22,99	9,20		14,31	6,99	13,31	10,72	20,76	15,44	10,86	11,80	17,86	7,42	11,62	10,38	8,99	4,82	6,02	kg/m		76 10	V.	Weight
41,17	32,59	25,15	20,13		23,46	11,45	21,82	17,57	45,43	33,78	35,61	25,82	23,44	24,33	19,05	17,02	14,74	15,80	13,17	kg/m²				Weight
218,70	173,13	130,39	99,58		163,00	79,57	151,62	121,39	315,60	231,00	247,48	179,45	162,86	169,05	132,34	118,26	102,41	109,77	91,47	cm ¹ /m				Section
1,56	1,60	1,48	1,44		2,06	2,03	1,72	1,70	1,99	1,80	2,17	1,80	1,67	1,83	1,77	1,64	1,57	1,66	1,60	m ^a m ^a	one side			surface
200,00	165,00	123,00	96,00		85,00	69,00	66,00	60,00	114,00	93,00	91,00	82,00	73,00	67,00	61,00	55,00	49,00	51,00	39,00	mm	thidaness	o _d = 30 N/mm2	on strength	Comparisor (Azob
146,00	118,00	86,00	68,00		83,00	65,00	82,00	77,00	129,00	106,00	104,00	97,00	91,00	79,00	79,00	71,00	62,00	63,00	48,00	mm	thickness	0,068*10* N/mm2	on stiffness	Comparison with wood (Azobe D60)





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