
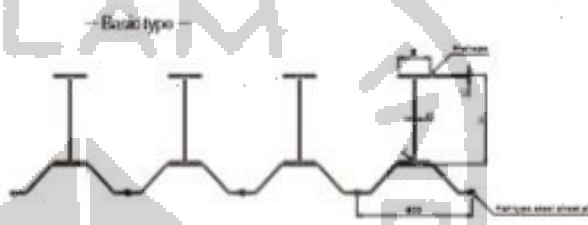


Lampiran 5.1 Data Steel Sheet Pile.

Products

■ Sectional properties

Flat type sheet pile	NIPPON BEAM™					Mass per m ² of web	Sectional area	Section modulus	Radius of inertia	Flat type sheet pile	NIPPON BEAM™					Mass per m ² of web	Sectional area	Section modulus	Moment of inertia																																																																																																																																																																																																																																																																																																																																																																																																																																				
	H	B	t1	t2	r						H	B	t1	t2	r					H	B	t1	t2	r																																																																																																																																																																																																																																																																																																																																																																																																																															
1000	400	200	9	22	13	202	257	3,240	113,400	1000	700	250	34	25	18	257	396	2,580	383,000	1000	700	250	34	25	18	257	396	2,580	383,000	1000	750	250	32	18	18	256	326	6,770	378,300	1000	750	250	32	22	18	268	347	7,330	403,600	1000	750	250	32	25	18	281	359	7,990	428,900	1000	750	250	34	22	18	280	357	7,040	414,700	1000	750	250	34	25	18	293	375	8,200	438,900	1000	750	250	34	28	18	306	388	8,730	461,700	1000	750	250	36	28	18	317	394	9,000	470,800	1000	750	250	36	32	18	324	425	9,710	500,700	1000	800	250	32	22	18	273	348	7,030	468,700	1000	800	250	34	22	18	287	357	8,240	471,700	1000	800	250	34	25	18	296	361	8,630	488,600	1000	800	250	34	28	18	311	387	9,370	523,600	1000	800	250	36	22	18	300	382	8,570	484,200	1000	800	250	36	25	18	312	386	9,140	515,500	1000	800	250	36	28	18	324	413	9,690	535,400	1000	800	250	36	30	18	341	434	10,440	568,900	1000	850	250	34	22	18	293	373	8,840	532,300	1000	850	250	36	22	18	307	391	9,220	542,800	1000	850	250	36	25	18	319	402	9,810	576,400	1000	850	250	34	18	18	286	387	8,810	563,300	1000	850	250	36	18	18	300	394	9,240	582,000	1000	850	250	36	22	18	314	420	9,880	615,000	1000	850	250	36	25	18	326	435	10,520	648,000	1000	850	250	38	28	18	336	451	11,140	680,000	1000	9000	250	36	22	18	308	418	11,270	766,300	1000	9000	250	38	215	18	340	433	11,880	806,700	1000	9000	250	34	15	18	286	406	12,690	838,000	1000	9000	250	36	15	18	296	416	13,300	872,300	1000	9000	250	38	22	18	328	436	12,240	892,400	1000	9000	250	36	25	18	337	471	12,880	938,900	1000	9000	250	38	25	18	346	500	13,770	973,700	1000	9000	250	38	28	18	407	518	14,670	1,014,600	1000	9000	300	36	22	18	327	480	13,620	962,300	1000	9000	300	38	25	18	332	499	14,310	1,014,300	1000	9000	300	36	28	18	407	518	15,180	1,064,500	1000	9000	300	38	30	18	426	543	16,330	1,126,900	1000	9000	300	38	32	18	431	549	16,940	1,089,800	1000	9000	300	38	35	18	451	578	17,880	1,164,000	1000	9000	300	38	38	18	471	599	18,180	1,225,200	1000	9000	300	38	40	18	480	624	18,880	1,288,900	1000	9000	300	32	40	18	514	655	19,670	1,316,500

Lampiran 5.2 Data Geotekstil.

UnggulTex

POLYPROPYLENE WOVEN GEOTEXTILES

TECHNICAL SPECIFICATIONS

PROPERTIES	UNIT	TEST METHOD	UW - 150	UW - 200	UW - 250
Physical Properties					
Mass	g/m ²	ASTM D 5261-92	150	200	250
Thickness	mm	ASTM D 5199-91	0.5	0.6	0.7
Colour	-	-	Black	Black	Black
Mechanical Properties					
Stap Tensile Strength (Wrb/Weft)	kN/m	ASTM D 4595-94	37/35	42/39	52/52
Elongation at Max. Load (Wrb/Weft)	%	ASTM D 4595-94	19/18	20/20	20/20
Grasp Tensile Strength (Wrb/Weft)	N	ASTM D 4632-91	1210/1200	1600/1600	1750/1750
Elongation at Max. Load (Wrb/Weft)	%	ASTM D 4632-91	14/13	22/22	22/22
Trapezoidal Tear Strength (Wrb/Weft)	N	ASTM D 4533-91	615/615	700/700	800/800
Hydraulic Properties					
Pore Size O ₉₅	µm	ASTM D 4751-95	320	275	250
Water Permeability	l/m ² /sec	100 mm water head	28	16	7.5
Environmental Properties					
Effect of soil Alkalinity	-	-	nil	nil	nil
Effect of soil Acidity	-	-	nil	nil	nil
Effect of Bacteria	-	-	nil	nil	nil
Effect of UV Light	-	-	Stabilized	Stabilized	Stabilized
Packaging					
Roll Length	m	-	150 - 200	150 - 200	150 - 200
Roll Width	m	-	3 - 4	3 - 4	3 - 4
Roll Area	m ²	-	640 - 760	640 - 760	640 - 760
Roll Diameter (Approx)	m	-	0.4 - 0.5	0.4 - 0.5	0.4 - 0.5
Roll Weight (Approx)	kg	-	96 - 114	128 - 152	160 - 190

All information, illustration and specification are based on the latest product information available at the time of printing. The right is reserved to make changes at any time without notice.

Distributed by :

PT. TEKNINDO GEOSISTEM UNGGUL
 Wisma SIER Building, 1st Floor, J. Rungkut Industri Raya 10, Surabaya 60230
 Tel. 031-6473062 Fax. 031-6473063