

DAFTAR ISI

Hai

1. Besi Assental (ST41) Shafting Bar @ 6M	5
2. Besi Assental (S45C) Shafting Bar @ 6M	6
3. Besi Beton Round Bar @ 12 M	7
4. Besi Spiral Deformed Round Bar @ 12 M	8
5. Besi Empat Persegi / Ass Kotak	9-10
6. Besi Plat Streep / Mild Steel Flat Bar	11-14
7. Besi Plat Putih / Cold Rolled Steel Sheets	15
8. Besi Plat Hitam / Hot Rolled Steel Sheets	16-17
9. Plat Bordest / Plat Kembang	18
10. Besi Plat Kapal / Ship Plate (Metric Size)	19-20
11. Besi Siku / Equal Angle Bar	21-22
12. Besi UNP / Channel Bar	23
13. Besi IWF / Wide Flange Beam	24
14. Besi Balak INP / I Beam	25
15. Besi H Beam / Wide Flange H Beam	26
16. CNP - Lip Channel	27-29
17. Sheet Pile	30
18. Besi Rail	31
19. Pipa Baja Hitam - Bos Ex. Bakrie	32-33
20. Pipa Hitam & Putih Medium SNI Ex. Bakrie	34
21. Pipa Schedule 40, ASTM-A120, Ex. Bakrie	35-36
22. Pipa Stall / Square Hollow Section	37-39
23. Expanded Metal Mesh	40-41
24. Superdeck Sheet	42
25. Guard Rail	43
26. Gambar Tiang PJU	44
Spesifikasi Teknis	45
27. Double - T	46
Spesifikasi Teknis	47
28. Single Parabole	48
Spesifikasi Teknis	49
29. Double Parabole	50
Spesifikasi Teknis	51
30. Wire Mesh	52

BESI ASSENTAL (ST 41) SHAFTING BAR @ 6M



SIZE			WEIGHT
D			
1/4"	(6 mm)	- 6 M	1.50 Kg
5/16"	(8 mm)	- 6 M	2.50 Kg
3/8"	(10 mm)	- 6 M	3.50 Kg
1/2"	(13 mm)	- 6 M	6.00 Kg
5/8"	(16 mm)	- 6 M	9.50 Kg
3/4"	(19 mm)	- 6 M	13.50 Kg
7/8"	(22 mm)	- 6 M	18.50 Kg
1"	(25 mm)	- 6 M	24.00 Kg
1 1/8"	(29 mm)	- 6 M	30.50 Kg
1 1/4"	(31 mm)	- 6 M	38.00 Kg
1 3/8"	(35 mm)	- 6 M	48.00 Kg
1 1/2"	(38 mm)	- 6 M	54.00 Kg
1 3/4"	(44 mm)	- 6 M	74.50 Kg
2"	(50 mm)	- 6 M	96.00 Kg
2 1/4"	(57 mm)	- 6 M	122.00 Kg
2 1/2"	(65 mm)	- 6 M	152.00 Kg
2 3/4"	(70 mm)	- 6 M	183.00 Kg
3"	(75 mm)	- 6 M	216.00 Kg
3 1/2"	(92 mm)	- 6 M	295.00 Kg
4"	(100 mm)	- 6 M	385.00 Kg
4 1/2"	(113 mm)	- 6 M	486.00 Kg
5"	(125 mm)	- 6 M	597.00 Kg
6"	(150 mm)	- 6 M	860.00 Kg

BESI ASSENTAL (S45C)
SHAFTING BAR @ 6m



SIZE			WEIGHT
D			
1/4"	(6 mm)	- 6 M	1.50 Kg
5/16"	(8 mm)	- 6 M	2.50 Kg
3/8"	(10 mm)	- 6 M	3.50 Kg
1/2"	(13 mm)	- 6 M	6.00 Kg
5/8"	(16 mm)	- 6 M	9.50 Kg
3/4"	(19 mm)	- 6 M	13.50 Kg
7/8"	(22 mm)	- 6 M	18.50 Kg
1"	(25 mm)	- 6 M	24.00 Kg
1 1/4"	(29 mm)	- 6 M	38.00 Kg
1 1/2"	(31 mm)	- 6 M	54.50 Kg
1 3/4"	(35 mm)	- 6 M	74.50 Kg
2"	(50 mm)	- 6 M	97.00 Kg
2 1/4"	(56 mm)	- 6 M	123.00 Kg
2 1/2"	(63 mm)	- 6 M	156.00 Kg
2 3/4"	(69 mm)	- 6 M	183.00 Kg
3"	(75 mm)	- 6 M	220.00 Kg
3 1/2"	(85 mm)	- 6 M	313.00 Kg
4"	(100 mm)	- 6 M	390.00 Kg
4 1/2"	(113 mm)	- 6 M	497.00 Kg
5"	(125 mm)	- 6 M	603.00 Kg

BESI BETON
ROUND BAR @ 12 M



SIZE		WEIGHT
1/4"	2 mm	1.50 Kg
	5 mm	1.85 Kg
	5.7 mm	2.40 Kg
	6 mm	2.66 Kg
5/16"	6.5 mm	3.11 Kg
	7 mm	3.63 Kg
	7.5 mm	4.18 Kg
	8 mm	4.74 Kg
3/8"	8.5 mm	5.35 Kg
	9 mm	6.00 Kg
1/2"	10 mm	7.40 Kg
	10.5 mm	8.20 Kg
	12 mm	10.70 Kg
	13 mm	12.50 Kg
5/8"	14 mm	14.50 Kg
	15 mm	16.65 Kg
	16 mm	18.00 Kg
4"	17.5 mm	22.50 Kg
	19 mm	26.76 Kg
7/8"	20.5 mm	31.00 Kg
	22 mm	35.76 Kg
1"	23.5 mm	40.85 Kg
	25 mm	46.20 Kg
1 1/8"	28 mm	58.00 Kg
1 1/4"	32 mm	75.75 Kg

**BESI SPIRAL
DEFORMED ROUND BAR @ 12 M**

[illegible]

**BESI EMPAT PERSEGI / ASS KOTAK
MILD STEEL SQUARE BAR**

SIZE			WEIGHT
A	x	B	
3/8"	x	3/8" - 6 M	4 Kg
(9 mm	x	9 mm)	
1/2"	x	1/2" - 6 M	7 Kg
(12 mm	x	12 mm)	
5/8"	x	5/8" - 6 M	12 Kg
(16 mm	x	16 mm)	
3/4"	x	3/4" - 6 M	15 Kg
(18 mm	x	18 mm)	
3/4"	x	3/4" - 6 M	17.1 Kg
(19 mm	x	19 mm)	
3/4"	x	3/4" - 6 M	19 Kg
(20 mm	x	20 mm)	
7/8"	x	7/8" - 6 M	22.8 Kg
(22 mm	x	22 mm)	
1"	x	1" - 6 M	30 Kg
(25 mm	x	25 mm)	
1 1/8"	x	1 1/8" - 6 M	37 Kg
(28 mm	x	28 mm)	
1 1/4"	x	1 1/4" - 6 M	48.5 Kg
(32 mm	x	32 mm)	
1 1/2"	x	1 1/2" - 6 M	68 Kg
(38 mm	x	38 mm)	
1 1/2"	x	1 1/2" - 6 M	75.5 Kg
(40 mm	x	40 mm)	
1 3/4"	x	1 3/4" - 6 M	96 Kg
(44 mm	x	44 mm)	
2"	x	2" - 6 M	116.5Kg
(50 mm	x	50 mm)	
2 1/2"	x	2 1/2" - 6 M	170 Kg
(60 mm	x	60 mm)	

[illegible]

SIZE				WEIGHT	
T	x	W			
1/8"	x	5/8"	- 4 M	2.3	Kg
(3 mm	x	16 mm)			
1/8"	x	3/4"	- 4 M	2.71	Kg
(3 mm	x	19 mm)			
1/8"	x	1"	- 4 M	3.56	Kg
(3 mm	x	25 mm)			
1/8"	x	1 1/4"	- 4 M	4.28	Kg
(3 mm	x	30 mm)			
1/8"	x	1 1/2"	- 6 M	5.37	Kg
(3 mm	x	38 mm)			
3/16"	x	3/4"	- 6 M	4.03	Kg
(4.5 mm	x	19 mm)			
3/16"	x	1"	- 6 M	5.4	Kg
(4.5 mm	x	25 mm)			
3/16"	x	1 1/4"	- 6 M	6.8	Kg
(4.5 mm	x	32 mm)			
3/16"	x	1 1/2"	- 6 M	8.3	Kg
(4.5 mm	x	38 mm)			
3/16"	x	2"	- 6 M	10.6	Kg
(4.5 mm	x	50 mm)			
1/4"	x	3/4"	- 6 M	5.4	Kg
(6 mm	x	19 mm)			
1/4"	x	1"	- 6 M	7.13	Kg
(6 mm	x	25 mm)			

**BESI PLAT STREEP
MILD STEEL FLAT BAR**

SIZE				WEIGHT
T	x	W		
1/4"	x	1 1/4"	- 6 M	9.2 Kg
(6 mm	x	32 mm)		
1/4"	x	1 1/2"	- 6 M	10.63 Kg
(6 mm	x	38 mm)		
1/4"	x	2"	- 6 M	14.55 Kg
(6 mm	x	50 mm)		
1/4"	x	2 1/2"	- 6 M	18.53 Kg
(6 mm	x	65 mm)		
1/4"	x	3"	- 6 M	21.5 Kg
(6 mm	x	75 mm)		
1/4"	x	3 1/2"	- 6 M	25.5 Kg
(6 mm	x	85 mm)		
1/4"	x	4"	- 6 M	28.51 Kg
(6 mm	x	100 mm)		
1/4"	x	5"	- 6 M	35.63 Kg
(6 mm	x	125 mm)		
1/4"	x	6"	- 6 M	44.5 Kg
(6 mm	x	150 mm)		
3/8"	x	1"	- 6 M	10.7 Kg
(9 mm	x	25 mm)		
3/8"	x	1 1/4"	- 6 M	14 Kg
(9 mm	x	32 mm)		
3/8"	x	1 1/2"	- 6 M	16.25 Kg
(9 mm	x	38 mm)		
3/8"	x	2"	- 6 M	21.5 Kg
(9 mm	x	50 mm)		

**BESI PLAT STREEP
MILD STEEL FLAT BAR**

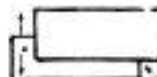
SIZE				WEIGHT
T	x	W		
3/8"	x	2 1/2"	- 6 M	27.8 Kg
(9 mm	x	65 mm)		
3/8"	x	3"	- 6 M	32.1 Kg
(9 mm	x	75 mm)		
3/8"	x	3 1/2"	- 6 M	36.3 Kg
(9 mm	x	85 mm)		
3/8"	x	4"	- 6 M	42.76 Kg
(9 mm	x	100 mm)		
3/8"	x	5"	- 6 M	53.45 Kg
(9 mm	x	125 mm)		
3/8"	x	6"	- 6 M	64.14 Kg
(9 mm	x	150 mm)		
3/8"	x	1 1/2"	- 6 M	15 Kg
(10 mm	x	38 mm)		
1/2"	x	1"	- 6 M	14.2 Kg
(12 mm	x	25 mm)		
1/2"	x	1 1/2"	- 6 M	21.66 Kg
(12 mm	x	38 mm)		
1/2"	x	2"	- 6 M	26.5 Kg
(12 mm	x	50 mm)		
1/2"	x	2 1/2"	- 6 M	37.1 Kg
(12 mm	x	65 mm)		
1/2"	x	3"	- 6 M	42.8 Kg
(12 mm	x	75 mm)		
1/2"	x	4"	- 6 M	57.01 Kg
(12 mm	x	100 mm)		
1/2"	x	6"	- 6 M	85 Kg
(12 mm	x	150 mm)		

BESI PLAT STREEP
MILD STEEL FLAT BAR



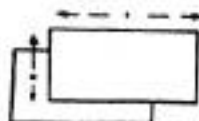
SIZE				WEIGHT
T	x	W		
5/8"	x	1 1/2"	- 6 M	29 Kg
(16 mm	x	38 mm)		
5/8"	x	2"	- 6 M	38 Kg
(16 mm	x	50 mm)		
5/8"	x	2 1/2"	- 6 M	49 Kg
(16 mm	x	65 mm)		
5/8"	x	3"	- 6 M	56,5 Kg
(16 mm	x	75 mm)		
5/8"	x	4"	- 6 M	76 Kg
(16 mm	x	100 mm)		
5/8"	x	6"	- 6 M	113 Kg
(16 mm	x	150 mm)		
3/4"	x	1 1/2"	- 6 M	34 Kg
(19 mm	x	38 mm)		
3/4"	x	2"	- 6 M	45 Kg
(19 mm	x	50 mm)		
3/4"	x	2 1/2"	- 6 M	58.5 Kg
(19 mm	x	65 mm)		
3/4"	x	3"	- 6 M	67.5 Kg
(19 mm	x	75 mm)		
3/4"	x	4"	- 6 M	89,5 Kg
(19 mm	x	100 mm)		
3/4"	x	5"	- 6 M	112 Kg
(19 mm	x	125 mm)		
3/4"	x	6"	- 6 M	134 Kg
(19 mm	x	150 mm)		

BESI PLAT PUTIH
COLD ROLLED STEEL SHEETS



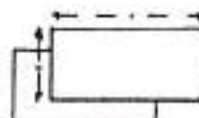
SIZE					WEIGHT
T	x	W	x	L	
0.35 mm	x	3'	x	6'	4.60 Kg
0.40 mm	x	3'	x	6'	5.26 Kg
0.50 mm	x	3'	x	6'	6.57 Kg
0.60 mm	x	3'	x	6'	7.88 Kg
0.65 mm	x	3'	x	6'	8.53 Kg
0.70 mm	x	3'	x	6'	9.20 Kg
0.80 mm	x	3'	x	6'	10.50 Kg
0.90 mm	x	3'	x	6'	11.82 Kg
1.00 mm	x	3'	x	6'	13.13 Kg
1.20 mm	x	3'	x	6'	15.80 Kg
1.50 mm	x	3'	x	6'	19.70 Kg
1.60 mm	x	3'	x	6'	21.00 Kg
2.00 mm	x	3'	x	6'	26.30 Kg
0.35 mm	x	4'	x	8'	8.16 Kg
0.40 mm	x	4'	x	8'	9.33 Kg
0.50 mm	x	4'	x	8'	11.80 Kg
0.60 mm	x	4'	x	8'	14.00 Kg
0.70 mm	x	4'	x	8'	16.33 Kg
0.80 mm	x	4'	x	8'	18.70 Kg
0.90 mm	x	4'	x	8'	21.00 Kg
1.00 mm	x	4'	x	8'	23.33 Kg
1.20 mm	x	4'	x	8'	28.00 Kg
1.35 mm	x	4'	x	8'	31.50 Kg
1.40 mm	x	4'	x	8'	32.70 Kg
1.50 mm	x	4'	x	8'	35.00 Kg
1.60 mm	x	4'	x	8'	37.30 Kg
1.80 mm	x	4'	x	8'	42.00 Kg
1.90 mm	x	4'	x	8'	45.00 Kg
2.00 mm	x	4'	x	8'	46.70 Kg

**BESI PLAT HITAM
HOT ROLLED STEEL SHEETS**



SIZE					WEIGHT
T	x	W	x	L	
1.20 mm	x	4'	x	8'	28.00 Kg
1.35 mm	x	4'	x	8'	31.50 Kg
1.40 mm	x	4'	x	8'	33.00 Kg
1.50 mm	x	4'	x	8'	35.00 Kg
1.60 mm	x	4'	x	8'	37.30 Kg
1.80 mm	x	4'	x	8'	42.00 Kg
1.90 mm	x	4'	x	8'	45.00 Kg
2.00 mm	x	4'	x	8'	46.70 Kg
2.10 mm	x	4'	x	8'	49.00 Kg
2.30 mm	x	4'	x	8'	54.00 Kg
2.50 mm	x	4'	x	8'	58.30 Kg
2.60 mm	x	4'	x	8'	60.70 Kg
2.80 mm	x	4'	x	8'	65.30 Kg
2.90 mm	x	4'	x	8'	67.70 Kg
3.00 mm	x	4'	x	8'	70.00 Kg
3.20 mm	x	4'	x	8'	74.70 Kg
3.60 mm	x	4'	x	8'	84.00 Kg
3.80 mm	x	4'	x	8'	88.70 Kg
4.00 mm	x	4'	x	8'	93.32 Kg
4.50 mm	x	4'	x	8'	105.00 Kg
4.80 mm	x	4'	x	8'	112.00 Kg
5.00 mm	x	4'	x	8'	117.00 Kg
5.80 mm	x	4'	x	8'	135.32 Kg
6.00 mm	x	4'	x	8'	140.00 Kg
6.00 mm	x	4'	x	8'	187.00 Kg
9.00 mm	x	4'	x	8'	210.00 Kg
10.00 mm	x	4'	x	8'	233.30 Kg
11.00 mm	x	4'	x	8'	256.65 Kg
12.00 mm	x	4'	x	8'	280.00 Kg
13.00 mm	x	4'	x	8'	303.30 Kg
14.00 mm	x	4'	x	8'	326.62 Kg
15.00 mm	x	4'	x	8'	350.00 Kg
16.00 mm	x	4'	x	8'	373.00 Kg
18.00 mm	x	4'	x	8'	420.00 Kg

**BESI PLAT HITAM
HOT ROLLED STEEL SHEETS**



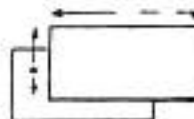
SIZE					WEIGHT
T	x	W	x	L	
19.00 mm	x	4'	x	8'	443.30 Kg
20.00 mm	x	4'	x	8'	467.00 Kg
21.00 mm	x	4'	x	8'	490.00 Kg
22.00 mm	x	4'	x	8'	513.30 Kg
24.00 mm	x	4'	x	8'	560.00 Kg
25.00 mm	x	4'	x	8'	583.30 Kg
28.00 mm	x	4'	x	8'	653.24 Kg
30.00 mm	x	4'	x	8'	700.00 Kg
31.00 mm	x	4'	x	8'	723.30 Kg
32.00 mm	x	4'	x	8'	747.00 Kg
38.00 mm	x	4'	x	8'	887.00 Kg
40.00 mm	x	4'	x	8'	933.20 Kg
42.00 mm	x	4'	x	8'	980.00 Kg
45.00 mm	x	4'	x	8'	1,050.00 Kg
50.00 mm	x	4'	x	8'	1,167.00 Kg
55.00 mm	x	4'	x	8'	1,516.50 Kg
75.00 mm	x	4'	x	8'	1,750.00 Kg
80.00 mm	x	4'	x	8'	1,870.00 Kg
85.00 mm	x	4'	x	8'	1,983.10 Kg
90.00 mm	x	4'	x	8'	2,100.00 Kg
100.00 mm	x	4'	x	8'	2,333.00 Kg

**PLAT BORDEST / KEMBANG
CHECKERED PLATE**



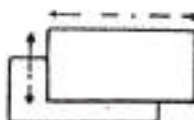
SIZE					WEIGHT
T	x	W	x	L	
2.30 mm	x	4'	x	8'	59.00 Kg
2.60 mm	x	4'	x	8'	65.70 Kg
2.80 mm	x	4'	x	8'	70.40 Kg
2.90 mm	x	4'	x	8'	72.70 Kg
3.00 mm	x	4'	x	8'	75.00 Kg
3.20 mm	x	4'	x	8'	80.00 Kg
3.60 mm	x	4'	x	8'	89.00 Kg
4.00 mm	x	4'	x	8'	98.40 Kg
4.20 mm	x	4'	x	8'	103.00 Kg
4.30 mm	x	4'	x	8'	105.30 Kg
4.50 mm	x	4'	x	8'	110.00 Kg
5.60 mm	x	4'	x	8'	137.70 Kg
5.70 mm	x	4'	x	8'	138.00 Kg
5.80 mm	x	4'	x	8'	140.30 Kg
6.00 mm	x	4'	x	8'	145.00 Kg
7.60 mm	x	4'	x	8'	182.30 Kg
7.80 mm	x	4'	x	8'	187.00 Kg
8.00 mm	x	4'	x	8'	192.00 Kg
9.00 mm	x	4'	x	8'	215.00 Kg

**BESI PLAT KAPAL
SHIP PLATE (METRIC SIZE)**



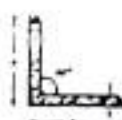
SIZE					WEIGHT
T	x	W	x	L	
4.50 mm	x	5'	x	20'	328.10 Kg
6.00 mm	x	5'	x	20'	438.00 Kg
8.00 mm	x	5'	x	20'	583.20 Kg
9.00 mm	x	5'	x	20'	656.10 Kg
10.00 mm	x	5'	x	20'	729.00 Kg
11.00 mm	x	5'	x	20'	801.90 Kg
12.00 mm	x	5'	x	20'	875.00 Kg
13.00 mm	x	5'	x	20'	947.70 Kg
14.00 mm	x	5'	x	20'	1,021.00 Kg
15.00 mm	x	5'	x	20'	1,094.00 Kg
16.00 mm	x	5'	x	20'	1,167.00 Kg
18.00 mm	x	5'	x	20'	1,313.00 Kg
19.00 mm	x	5'	x	20'	1,386.00 Kg
20.00 mm	x	5'	x	20'	1,458.00 Kg
21.00 mm	x	5'	x	20'	1,531.00 Kg
22.00 mm	x	5'	x	20'	1,604.00 Kg
24.00 mm	x	5'	x	20'	1,749.60 Kg
25.00 mm	x	5'	x	20'	1,823.00 Kg
28.00 mm	x	5'	x	20'	2,042.20 Kg
30.00 mm	x	5'	x	20'	2,187.00 Kg
31.00 mm	x	5'	x	20'	2,260.00 Kg
32.00 mm	x	5'	x	20'	2,333.00 Kg
38.00 mm	x	5'	x	20'	2,770.20 Kg
40.00 mm	x	5'	x	20'	2,916.00 Kg
42.00 mm	x	5'	x	20'	3,062.00 Kg
45.00 mm	x	5'	x	20'	3,281.00 Kg
50.00 mm	x	5'	x	20'	3,645.00 Kg
60.00 mm	x	5'	x	20'	4,374.00 Kg
65.00 mm	x	5'	x	20'	4,739.00 Kg
75.00 mm	x	5'	x	20'	5,487.50 Kg
80.00 mm	x	5'	x	20'	5,832.00 Kg
90.00 mm	x	5'	x	20'	6,561.00 Kg
100.00 mm	x	5'	x	20'	7,290.00 Kg

**BESI PLAT KAPAL
SHIP PLATE (METRIC SIZE)**



SIZE					WEIGHT
t	x	w	x	L	
4.50 mm	x	6'	x	20'	394.00 Kg
6.00 mm	x	6'	x	20'	525.00 Kg
8.00 mm	x	6'	x	20'	700.00 Kg
9.00 mm	x	6'	x	20'	788.00 Kg
10.00 mm	x	6'	x	20'	875.00 Kg
11.00 mm	x	6'	x	20'	962.50 Kg
12.00 mm	x	6'	x	20'	1,050.50 Kg
13.00 mm	x	6'	x	20'	1,137.50 Kg
14.00 mm	x	6'	x	20'	1,225.00 Kg
15.00 mm	x	6'	x	20'	1,313.00 Kg
16.00 mm	x	6'	x	20'	1,400.00 Kg
18.00 mm	x	6'	x	20'	1,575.00 Kg
19.00 mm	x	6'	x	20'	1,664.00 Kg
20.00 mm	x	6'	x	20'	1,750.00 Kg
21.00 mm	x	6'	x	20'	1,838.00 Kg
22.00 mm	x	6'	x	20'	1,925.00 Kg
24.00 mm	x	6'	x	20'	2,100.00 Kg
25.00 mm	x	6'	x	20'	2,188.00 Kg
28.00 mm	x	6'	x	20'	2,450.00 Kg
30.00 mm	x	6'	x	20'	2,625.00 Kg
31.00 mm	x	6'	x	20'	2,713.00 Kg
32.00 mm	x	6'	x	20'	2,800.00 Kg
38.00 mm	x	6'	x	20'	3,325.00 Kg
40.00 mm	x	6'	x	20'	3,500.00 Kg
42.00 mm	x	6'	x	20'	3,675.00 Kg
45.00 mm	x	6'	x	20'	3,938.00 Kg
50.00 mm	x	6'	x	20'	4,375.00 Kg
60.00 mm	x	6'	x	20'	5,250.00 Kg
65.00 mm	x	6'	x	20'	5,687.50 Kg
75.00 mm	x	6'	x	20'	6,562.50 Kg
80.00 mm	x	6'	x	20'	7,000.00 Kg
90.00 mm	x	6'	x	20'	7,875.00 Kg
100.00 mm	x	6'	x	20'	8,750.00 Kg

**BESI SIKU
EQUAL ANGLE BAR**



SIZE					WEIGHT
A	x	B	x	T mm	
20	x	20	x	3 mm - 6 M	5.31 Kg
25	x	25	x	3 mm - 6 M	8.72 Kg
25	x	25	x	5 mm - 6 M	10.60 Kg
30	x	30	x	3 mm - 6 M	8.16 Kg
40	x	40	x	3 mm - 6 M	11.00 Kg
40	x	40	x	4 mm - 6 M	14.50 Kg
40	x	40	x	5 mm - 6 M	18.00 Kg
45	x	45	x	4 mm - 6 M	16.44 Kg
45	x	45	x	5 mm - 6 M	20.50 Kg
50	x	50	x	4 mm - 6 M	18.40 Kg
50	x	50	x	5 mm - 6 M	22.70 Kg
50	x	50	x	6 mm - 6 M	27.58 Kg
60	x	60	x	5 mm - 6 M	27.42 Kg
60	x	60	x	6 mm - 6 M	32.52 Kg
65	x	65	x	6 mm - 6 M	35.46 Kg
70	x	70	x	6 mm - 6 M	38.28 Kg
70	x	70	x	7 mm - 6 M	44.28 Kg
75	x	75	x	6 mm - 6 M	41.22 Kg
75	x	75	x	7 mm - 6 M	47.64 Kg
75	x	75	x	8 mm - 6 M	54.18 Kg
75	x	75	x	9 mm - 6 M	59.80 Kg
80	x	80	x	8 mm - 6 M	57.96 Kg

**BESI SIKU
EQUAL ANGLE BAR**



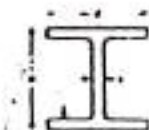
SIZE				WEIGHT
A	x	B	x	T mm
90	x	90	x	7 mm - 6 M
90	x	90	x	9 mm - 6 M
90	x	90	x	10 mm - 6 M
100	x	100	x	7 mm - 6 M
100	x	100	x	10 mm - 6 M
120	x	120	x	8 mm - 6 M
120	x	120	x	10 mm - 6 M
120	x	120	x	11 mm - 6 M
120	x	120	x	12 mm - 6 M
125	x	125	x	12 mm - 6 M
130	x	130	x	9 mm - 6 M
130	x	130	x	12 mm - 6 M
150	x	150	x	10 mm - 6 M
150	x	150	x	12 mm - 6 M
150	x	150	x	15 mm - 6 M
200	x	200	x	15 mm - 6 M
200	x	200	x	16 mm - 6 M
200	x	200	x	20 mm - 6 M
200	x	200	x	25 mm - 6 M
250	x	250	x	25 mm - 6 M

**BESI KANAL UNP
MILD STEEL CHANNEL BAR**



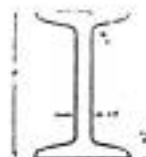
SIZE				WEIGHT
A	x	B	x	T
50	x	38	x	5.00 mm - 6 M
65	x	42	x	5.50 mm - 6 M
75	x	40	x	5.00 mm - 6 M
80	x	45	x	5.00 mm - 6 M
100	x	50	x	5.00 mm - 6 M
120	x	55	x	7.00 mm - 6 M
125	x	65	x	6.00 mm - 6 M
140	x	55	x	7.00 mm - 6 M
150	x	75	x	8.50 mm - 6 M
160	x	66	x	7.00 mm - 6 M
180	x	75	x	7.00 mm - 6 M
200	x	75	x	7.50 mm - 6 M
200	x	80	x	7.50 mm - 6 M
220	x	80	x	9.00 mm - 6 M
240	x	85	x	9.50 mm - 6 M
250	x	80	x	7.10 mm - 6 M
250	x	80	x	7.10 mm - 12 M
250	x	90	x	9.00 mm - 12 M
250	x	90	x	9.00 mm - 6 M
260	x	90	x	10.00 mm - 12 M
300	x	90	x	9.00 mm - 6 M
300	x	90	x	9.00 mm - 12 M
300	x	100	x	10.00 mm - 6 M
380	x	100	x	10.50 mm - 12 M

**BESI IWF
WIDE FLANGE BEAM**



SIZE				THICKNESS	LENGTH	WEIGHT
H	x	B	x	T1 x T2		
100	x	50	x	5 x 7	mm - 12 M	112.00 Kg
125	x	60	x	6 x 8	mm - 12 M	158.40 Kg
148	x	100	x	6 x 9	mm - 12 M	253.20 Kg
150	x	75	x	5 x 7	mm - 12 M	168.00 Kg
175	x	90	x	5 x 8	mm - 12 M	217.20 Kg
198	x	99	x	4,5 x 7	mm - 12 M	218.40 Kg
200	x	100	x	3,2 x 4,5	mm - 12 M	143.00 Kg
200	x	100	x	5,5 x 8	mm - 12 M	256.00 Kg
248	x	124	x	5 x 8	mm - 12 M	308.40 Kg
250	x	125	x	6 x 9	mm - 12 M	355.20 Kg
298	x	149	x	6 x 8	mm - 12 M	384.00 Kg
300	x	150	x	6,5 x 9	mm - 12 M	440.40 Kg
348	x	174	x	6 x 9	mm - 12 M	497.00 Kg
350	x	175	x	7 x 11	mm - 12 M	585.20 Kg
396	x	199	x	7 x 11	mm - 12 M	679.50 Kg
400	x	200	x	8 x 13	mm - 12 M	792.00 Kg
446	x	199	x	8 x 12	mm - 12 M	794.40 Kg
450	x	200	x	9 x 14	mm - 12 M	912.00 Kg
496	x	199	x	9 x 14	mm - 12 M	954.00 Kg
500	x	200	x	10 x 16	mm - 12 M	1.075.00 Kg
588	x	300	x	12 x 20	mm - 12 M	1.812.00 Kg
596	x	199	x	9 x 14	mm - 12 M	1.135.00 Kg
600	x	200	x	11 x 17	mm - 12 M	1.272.00 Kg
700	x	300	x	13 x 24	mm - 12 M	2.220.00 Kg
800	x	300	x	14 x 26	mm - 12 M	2.520.00 Kg

**BESI BALAK INP
I BEAM**



SIZE						WEIGHT
H	x	B	x	T1 x T2 x R		
80	x	42	x	3.90 x 5.90 x 2.30	- 6 mm	38.50 Kg
100	x	50	x	4.50 x 6.80 x 2.70	- 6 mm	50.60 Kg
120	x	58	x	5.10 x 7.70 x 3.10	- 6 mm	67.50 Kg
140	x	66	x	5.70 x 8.60 x 3.40	- 6 mm	87.50 Kg
150	x	73	x	6.00 x 7.00 x	- 6 mm	97.50 Kg
160	x	74	x	6.50 x 9.50 x 3.80	- 6 mm	106.50 Kg
180	x	82	x	6.90 x 10.40 x 4.10	- 12 mm	270.00 Kg
200	x	90	x	7.50 x 11.30 x 4.50	- 12 mm	315.00 Kg
220	x	98	x	8.10 x 12.20 x 4.90	- 12 mm	373.00 Kg
240	x	106	x	8.70 x 13.10 x 5.20	- 12 mm	435.00 Kg
250	x	125	x	7.50 x 12.50 x	- 12 mm	460.00 Kg
260	x	113	x	9.40 x 14.10 x 5.60	- 12 mm	503.00 Kg
280	x	119	x	10.10 x 15.20 x 6.10	- 12 mm	580.00 Kg
300	x	125	x	10.80 x 16.20 x 6.50	- 12 mm	661.00 Kg
320	x	131	x	11.30 x 17.30 x 6.90	- 12 mm	750.00 Kg
340	x	137	x	12.20 x 18.30 x 7.30	- 12 mm	833.00 Kg
360	x	143	x	13.00 x 19.50 x 7.80	- 12 mm	926.00 Kg
380	x	149	x	13.70 x 20.50 x 7.80	- 12 mm	1.026.00 Kg
400	x	155	x	14.00 x 22.00 x 8.60	- 12 mm	1.136.50 Kg
450	x	170	x	16.20 x 24.30 x 9.70	- 12 mm	1.400.00 Kg
500	x	185	x	18.00 x 27.00 x 10.80	- 12 mm	1.707.00 Kg

[illegible]

UKURAN	BERAT	UKURAN	BERAT
80 x 30 x 1.20 mm	7.47	75 x 35 x 2.40 mm	16.87
80 x 30 x 1.60 mm	9.78	75 x 35 x 2.50 mm	17.49
80 x 30 x 2.00 mm	11.95	75 x 35 x 2.60 mm	18.1
80 x 30 x 2.10 mm	12.48	75 x 35 x 2.70 mm	18.73
80 x 30 x 2.20 mm	13.01	75 x 35 x 2.80 mm	19.33
80 x 30 x 2.30 mm	13.53	75 x 35 x 2.90 mm	19.93
80 x 30 x 2.40 mm	14.04	75 x 35 x 3.00 mm	20.53
80 x 30 x 2.50 mm	14.55	75 x 35 x 3.10 mm	21.12
80 x 30 x 2.60 mm	15.05	75 x 35 x 3.20 mm	21.70
80 x 30 x 2.70 mm	15.55	75 x 45 x 1.20 mm	10.58
80 x 30 x 2.80 mm	16.04	75 x 45 x 1.60 mm	13.90
80 x 30 x 2.90 mm	16.52	75 x 45 x 2.00 mm	17.13
80 x 30 x 3.00 mm	17.00	75 x 45 x 2.10 mm	17.92
80 x 30 x 3.10 mm	17.47	75 x 45 x 2.20 mm	18.71
80 x 30 x 3.20 mm	17.93	75 x 45 x 2.30 mm	19.49
75 x 35 x 1.20 mm	8.88	75 x 45 x 2.40 mm	20.26
75 x 35 x 1.60 mm	11.64	75 x 45 x 2.50 mm	21.03
75 x 35 x 2.00 mm	14.30	75 x 45 x 2.60 mm	21.79
75 x 35 x 2.10 mm	14.95	75 x 45 x 2.70 mm	22.54
75 x 35 x 2.20 mm	15.60	75 x 45 x 2.80 mm	23.39
75 x 35 x 2.30 mm	16.24	75 x 45 x 2.90 mm	24.03

**CNP
LIP CHANNEL**



UKURAN	BERAT	UKURAN	BERAT
75 x 45 x 3.00 mm	24.77	125 x 50 x 2.10 mm	24.85
75 x 45 x 3.10 mm	25.50	125 x 50 x 2.15 mm	25.50
75 x 45 x 3.20 mm	26.22	125 x 50 x 2.20 mm	26.96
100 x 50 x 1.20 mm	13.12	125 x 50 x 2.30 mm	27.07
100 x 50 x 1.60 mm	17.29	125 x 50 x 2.40 mm	28.27
100 x 50 x 2.00 mm	21.37	125 x 50 x 2.50 mm	29.27
100 x 50 x 2.10 mm	22.37	125 x 50 x 2.60 mm	30.26
100 x 50 x 2.15 mm	22.97	125 x 50 x 2.70 mm	31.44
100 x 50 x 2.20 mm	23.37	125 x 50 x 2.80 mm	32.52
100 x 50 x 2.30 mm	24.36	125 x 50 x 2.90 mm	33.59
100 x 50 x 2.40 mm	25.35	125 x 50 x 3.00 mm	34.86
100 x 50 x 2.50 mm	26.32	125 x 50 x 3.10 mm	35.72
100 x 50 x 2.60 mm	27.30	125 x 50 x 3.20 mm	36.77
100 x 50 x 2.70 mm	28.26	150 x 50 x 1.20 mm	15.94
100 x 50 x 2.80 mm	29.22	150 x 50 x 1.60 mm	21.06
100 x 50 x 2.90 mm	30.18	150 x 50 x 2.00 mm	26.08
100 x 50 x 3.00 mm	31.13	150 x 50 x 2.10 mm	27.32
100 x 50 x 3.10 mm	32.07	150 x 50 x 2.15 mm	28.04
100 x 50 x 3.20 mm	33.00	150 x 50 x 2.20 mm	28.55
125 x 50 x 1.20 mm	14.53	150 x 50 x 2.30 mm	29.78
125 x 50 x 1.60 mm	19.18	150 x 50 x 2.40 mm	31.00
125 x 50 x 2.00 mm	23.72	150 x 50 x 2.50 mm	32.21

**CNP
LIP CHANNEL**



UKURAN	BERAT	UKURAN	BERAT
150 x 50 x 2.50 mm	32.21	150 x 65 x 2.90 mm	41.10
150 x 50 x 2.60 mm	33.42	150 x 65 x 3.00 mm	42.43
150 x 50 x 2.70 mm	34.62	150 x 65 x 3.10 mm	43.75
150 x 50 x 2.80 mm	35.82	150 x 65 x 3.20 mm	45.06
150 x 50 x 2.90 mm	37.01	200 x 75 x 1.20 mm	21.60
150 x 50 x 3.00 mm	38.19	200 x 75 x 1.60 mm	28.60
150 x 50 x 3.10 mm	39.37	200 x 75 x 2.00 mm	35.50
150 x 50 x 3.20 mm	40.54	200 x 75 x 2.10 mm	37.21
150 x 65 x 1.20 mm	17.64	200 x 75 x 2.15 mm	38.17
150 x 65 x 1.60 mm	23.32	200 x 75 x 2.20 mm	38.91
150 x 65 x 2.00 mm	28.91	200 x 75 x 2.30 mm	40.61
150 x 65 x 2.10 mm	30.29	200 x 75 x 2.40 mm	42.30
150 x 65 x 2.15 mm	31.08	200 x 75 x 2.50 mm	43.99
150 x 65 x 2.20 mm	31.66	200 x 75 x 2.60 mm	45.67
150 x 65 x 2.30 mm	33.03	200 x 75 x 2.70 mm	47.34
150 x 65 x 2.40 mm	34.39	200 x 75 x 2.80 mm	49.01
150 x 65 x 2.50 mm	35.74	200 x 75 x 2.90 mm	50.67
150 x 65 x 2.60 mm	37.09	200 x 75 x 3.00 mm	52.32
150 x 65 x 2.70 mm	38.44	200 x 75 x 3.10 mm	53.97
150 x 65 x 2.80 mm	39.77	200 x 75 x 3.20 mm	55.61



SHEET PILE EX. JAPAN / KOREA

Section Type	Dimensions			Per Pile				Per Linear Meter of Wall				
	Width B	Height H	Average Coating Area *	Thickness T	Sectional Area A	Weight W	Moment of Inertia I _x	Section Modulus Z _x	Sectional Area A	Weight W	Moment of Inertia I _x	Section Modulus Z _x
	mm	mm	m ² /m	mm	cm ²	kg/m	cm ⁴	cm ³	cm ² /m	kg/m ²	cm ⁴ /m	cm ³ /m
I A	400	85	0.47	8.0	45.21	35.5	598	88	113.0	88.8	4,500	529
II	400	100	0.50	10.5	61.18	48.0	1,240	152	153.0	120	8,740	874
III A	400	120	0.52	9.2	55.01	43.2	1,480	180	137.5	108	10,600	880
III	400	125	0.55	13.0	76.42	60.0	2,220	223	191.0	150	18,800	1,340
III A	400	150	0.57	13.1	74.40	58.4	2,790	250	188.0	146	22,800	1,520
IV	400	170	0.63	15.5	96.99	76.1	4,870	362	242.5	190	38,600	2,270
IV A	400	185	0.62	16.1	94.21	74.0	5,300	400	235.1	185	41,600	2,250
III L	500	170	0.68	12.0	87.80	69.0	4,420	352	175.8	138	27,500	1,620
IV L	500	200	0.73	17.0	111.50	87.5	7,080	470	223.0	175	50,000	2,500
VL	500	200	0.71	24.3	133.80	105.9	7,960	520	267.8	210	63,000	3,150
VI L	500	225	0.75	27.6	153.00	120.9	11,400	680	306.0	240	86,000	3,820
C III	400	125		13.0		60.0						

* Mean value of front and back areas (common for polyurethane and polyethylene)

BESI RAIL

UKURAN (SIZE)				BERAT	
LEBAR KAKI (MM)	LEBAR ATAS (MM)	TINGGI (MM)	PANJANG (MTR)	/ MTR (KG)	/ PCS (KG)
50.8	25.4	50.8	5.5	6.0	33
63.5	32.1	63.5	5 / 5.5 / 7	9.0	45 / 50 / 63
69.8	38.1	69.8	9	12.2	110
70	38	70	9	12.2	110
79.37	42.86	79.37	10	15.2	152
82.55	44.45	85.73	5 / 8.5 / 9	18.0	90 / 153 / 165
92	51	107	10	24.4	244
107.95	60.33	107.95	10	30.2	302
90	53	115	10	24.4	244
122.24	61.91	128.59	12	37.4	450
125	67	149	12	50.0	600
132	70	152	12	52	624

PIPA BAJA HITAM BOS EX BAKRIE

Spesifikasi teknis

DIAMETER LUBANG NOMINAL		DIAMETER LUAR		TEBAL	BERAT TANPA ULIR
Inchi	mm	max (mm)	min (mm)	mm	Kg/m
1/2	15	21.4	21.0	1.80	0.870
3/4	20	26.9	26.4	1.80	1.114
1	25	33.8	33.2	1.80	1.420
1 1/4	32	42.5	41.9	1.80	1.807
1 1/2	40	48.4	47.8	1.80	2.068
2	50	60.2	59.6	1.80	2.592

• **KOMPOSISI KIMIA**

- Fosfor (P) 0.06% max
- Belerang (S) 0.06% max

• **SIFAT MEKANIS**

- Kuat tarik (Tensile Strength) = 33.7 Kg/mm² min
- Batas ulur (Yield Strength) = 21.1 Kg/mm² min
- Regang (Elongation) = 20% min

• **PANJANG PIPA = 6 m per batang**

• **TOLERANSI**

- Tebal = plus (+) tidak terbatas, min (-) 8%
- Panjang = ± 2%

PIPA BAJA HITAM DAN GALVANIS SIO EX BAKRIE

Spesifikasi teknis

DIAMETER LUBANG NOMINAL		DIAMETER LUAR		TEBAL	BERAT TANPA ULIR
inch	mm	max (mm)	min (mm)	mm	Kg/m
1/2	15	21.4	21.0	2.00	0.957
3/4	20	26.9	26.4	2.00	1.228
1	25	33.8	33.2	2.00	1.583
1 1/4	32	42.5	41.9	2.00	1.997
1 1/2	40	48.4	47.8	2.00	2.288
2	50	60.2	59.6	2.00	2.900
2 1/2	65	76.0	75.2	2.00	3.650
3	80	88.7	87.9	2.90	6.136
4	100	113.9	113.0	2.90	7.938
5	125	140.6	138.7	2.90	9.847
6	150	166.1	164.1	2.90	11.671
8	200	221.3	216.9	5.00	26.399
10	250	275.7	270.3	5.00	33.044
12	300	327.1	320.7	6.35	49.710
14	350	359.2	352.0	6.35	54.689
16	400	410.5	402.3	6.35	62.644

• **KOMPOSISI KIMIA**

- Fosfor (P) 0.06% max
- Belerang (S) 0.06% max

• **SIFAT MEKANIK**

- Kuat tarik (Tensile Strength) = 33.7 Kg/mm² min
- Batas ulur (Yield Strength) = 21.1 Kg/mm² min
- Regang (Elongation) = 20% min

• **TAHAN TEKAN AIR (HYDROSTATIC TEST PRESSURE) = 50 Kg/Cm²**

** Hydrostatic Test dapat diganti dengan Ultrasonic Test atau Eddy Current Examination

• **PANJANG PIPA = 6 meter per batang**

• **TOLERANSI**

- Tebal = plus (+) tidak terbatas, min (-) 10% maximum
- Panjang = plus/minus 2%

PIPA HITAM DAN PUTIH MEDIUM SNI EX. BAKRIE

Spesifikasi teknis

DIAMETER LUBANG NOMINAL		DIAMETER LUAR		TEBAL	BERAT	
inch	mm	max (mm)	min (mm)		tanpa ulir	t/c*
1/2	15	21.7	21.1	2.65	1.22	1.23
3/4	20	27.2	26.4	2.65	1.58	1.59
1	25	34.2	33.4	3.25	2.44	2.46
1 1/4	32	42.9	42.1	3.25	3.14	3.17
1 1/2	40	48.8	48.0	3.25	3.61	3.66
2	50	60.8	59.8	3.65	5.10	5.16
2 1/2	65	76.6	75.4	3.65	6.51	6.64
3	80	89.5	88.1	4.05	8.47	8.63
4	100	114.9	113.3	4.50	12.10	12.40
5	125	140.6	138.7	4.85	16.20	16.70
6	150	166.1	164.1	4.85	19.20	19.80

* Thread & Coupling

- KOMPOSISI KIMIA : Fosfor (P) 0.05% max
Belerang (S) 0.05% max
- SIFAT MEKANIK : Kuat Tarik (Tensile Strength) = 33 - 47 kgf/mm² min
Regang (Elongation) = 20% min.
- TOLERANSI : Tebal : + plus (+) tidak terbatas, minus (-) 10%
Pencetakan : + plus (+), minus (-) 2%

- TAHAN TEKAN AIR (HYDROSTATIC TEST PRESSURETM) : 90 Kg/cm²
** Hydrostatic Test dapat diganti dengan
Ultrasonic Test atau Eddy Current Examination
- PANJANG PIPA : 6 meter per batang

PIPA SCHEDULE 40, ASTM - A120, EX BAKRIE

MPS	OD (mm)		Thickness		Weight	Hydrostatic Test
inch	mm	inch	mm	inch	kg/m	pst
1/2	21.3	0.84	2.77	0.109	1.27	700
3/4	26.7	1.05	2.87	0.113	1.89	700
1	33.4	1.31	3.38	0.133	2.50	700
1 1/4	42.2	1.66	3.56	0.140	3.39	1000
1 1/2	48.3	1.90	3.68	0.145	4.05	1000
2	60.3	2.37	3.91	0.154	5.44	1000
2 1/2	73.0	2.87	5.16	0.203	8.63	1000
3	88.9	3.50	5.49	0.216	11.29	1000
4	114.3	4.50	6.02	0.237	16.07	1200
5	141.3	5.56	6.55	0.258	21.77	1200
6	168.3	6.63	7.11	0.280	28.26	1200
8	219.1	8.63	6.35	0.250	33.31	1100
	219.1	8.63	8.18	0.322	42.55	1300
10	273.0	10.75	9.27	0.365	60.29	1200

12	323.8	12.75	9.52	0.375	73.78	1100
	323.8	12.75	10.31 @	0.406	79.70	1100
14	355.6	14.00	9.52	0.375	81.25	1000
	355.6	14.00	11.12 @	0.438	94.46	1100
	355.6	14.00	12.7	0.500	107.39	1300
16	406.4	16.00	6.35	0.250	62.64	700
	406.4	16.00	9.52	0.375	93.17	900
	406.4	16.00	12.7 @	0.500	123.30	1100
18	457.2	18.00	7.92	0.312	87.75	600
	457.2	18.00	9.52	0.375	105.10	750
	457.2	18.00	12.7	0.500	139.21	1000
20	508.0	20.00	6.35	0.250	78.55	450
	508.0	20.00	9.52	0.375	117.02	700
	508.0	20.00	12.7	0.500	155.12	900
24	609.6	24.00	6.35	0.250	94.46	400
	609.6	24.00	9.52	0.375	140.88	600
	609.6	24.00	12.7	0.500	186.94	750

THICKNESS TOLERANCE : PLUS (+) UNLIMITED

MINUS (-) 12.5 %

GALVANIZED PIPE : ZINC COATING = 550 GR/M2 (77 MM) MINIMUM

PANJANG : 6 METER

PIPA STALL - SENA SQUARE HOLLOW SECTION

Size		t Wall (nom)	Weight	Area	PROPERTIES			Plastic Modulus Z _{plx} = Z _{ply}	Torsional	
b	h				Moment Inertia	Section Modulus	Radius of Gyration		Inertia J	Modulus C
					I _x = I _y	Z _x = Z _y	I _x = I _y			
(mm)	(mm)	(mm)	(kg/m)	(cm ²)	(cm ⁴)	(cm ³)	(cm)	(cm ³)	(cm ⁴)	(cm ³)
38	38	1.8	1.98	2.52	5.4	2.850	1.465	3.39	8.78	4.29
38	38	2.0	2.18	2.78	5.9	3.096	1.456	3.70	9.60	4.67
38	38	2.3	2.51	3.20	6.6	3.484	1.439	4.21	10.95	5.27
38	38	2.8	2.94	3.74	7.5	3.950	1.417	4.48	12.66	5.99
38	38	3.0	3.11	3.97	7.9	4.132	1.407	5.10	13.35	6.28
40	40	1.8	2.09	2.67	6.4	3.191	1.547	3.78	10.29	4.80
40	40	2.0	2.31	2.94	6.9	3.470	1.537	4.13	11.28	5.23
40	40	2.3	2.62	3.33	7.7	3.863	1.523	4.64	12.70	5.83
40	40	2.8	3.11	3.96	8.9	4.449	1.498	5.43	14.92	6.74
40	40	3.0	3.30	4.21	9.3	4.661	1.488	5.71	15.75	7.07
45	45	2.0	2.82	3.34	10.1	4.497	1.741	5.32	16.30	6.77
45	45	2.3	2.98	3.76	11.3	5.026	1.727	6.00	18.41	7.58
45	45	2.8	3.55	4.52	13.1	5.829	1.703	7.05	21.73	8.81
45	45	3.0	3.77	4.81	13.8	6.124	1.693	7.44	22.99	9.27
45	45	3.2	3.99	5.09	14.4	6.404	1.683	7.82	24.20	9.71
48	48	2.0	2.81	3.58	12.4	5.178	1.864	6.11	19.33	7.79

48	48	2.3	3.19	4.07	13.9	5.798	1.849	6.89	22.54	8.74
48	48	2.8	3.82	4.86	16.2	6.747	1.825	8.12	26.66	10.19
48	48	3.0	4.06	5.17	17.0	7.097	1.816	8.58	28.23	10.73
48	48	3.2	4.29	5.47	17.8	7.432	1.806	9.03	29.76	11.25
50	50	2.0	2.93	3.74	14.0	5.658	1.946	6.66	22.63	8.51
50	50	2.3	3.34	4.25	15.9	6.343	1.931	7.52	25.61	9.55
50	50	2.8	3.99	5.08	18.5	7.395	1.907	8.87	30.33	11.16
50	50	3.0	4.25	5.41	19.5	7.786	1.897	9.39	32.31	11.76
50	50	3.2	4.50	5.73	20.4	8.160	1.887	9.89	33.89	12.34
60	60	2.0	3.56	4.54	25.1	8.380	2.354	9.79	39.79	12.59
60	60	2.3	4.06	5.17	28.3	9.437	2.340	11.09	45.16	14.19
60	60	2.8	4.87	6.20	33.3	11.088	2.315	13.16	53.77	16.70
60	60	3.0	5.19	6.61	35.1	11.711	2.306	13.95	57.09	17.65
60	60	3.2	5.50	7.01	36.9	12.313	2.296	14.73	60.34	18.57
70	70	2.0	4.19	5.34	40.7	11.635	2.762	13.52	63.96	17.48
70	70	2.3	4.66	6.19	46.7	13.340	2.746	15.59	73.90	20.05
70	70	2.8	5.75	7.32	54.3	15.527	2.724	16.28	86.92	23.36
70	70	3.0	6.13	7.81	57.5	16.435	2.714	19.41	92.42	24.74
70	70	3.2	6.50	8.29	60.6	17.318	2.705	20.53	97.83	26.08
70	70	4.0	7.97	10.15	72.0	20.604	2.666	24.75	118.52	31.11
70	70	4.5	8.85	11.27	78.6	22.463	2.642	27.22	130.67	33.98
75	75	2.0	4.50	5.74	50.5	13.463	2.967	15.61	79.05	20.22
75	75	2.3	5.23	6.66	58.0	15.458	2.950	18.01	91.42	23.20
75	75	2.8	6.19	7.88	67.6	18.026	2.928	21.16	107.66	27.11
75	75	3.0	6.60	8.41	71.6	19.097	2.919	22.48	114.54	28.73

Size		t Wall (nom)	Weight	Area	PROPERTIES			Plastic Modulus	Torsional	
b	h				Moment Inertia	Section Modulus	Radius of Gyration		Inertia	Modulus
					$I_x = I_y$	$Z_x = Z_y$	$r_x = r_y$			
(mm)	(mm)	(mm)	(kg/m)	(cm ²)	(cm ⁴)	(cm ³)	(cm)	(cm ³)	(cm ⁴)	(cm ³)
75	75	3.2	7.01	8.93	75.5	20.141	2.909	23.79	121.32	30.31
75	75	4.0	8.59	10.95	90.2	24.048	2.870	28.76	147.32	36.28
75	75	4.5	9.55	12.17	98.5	26.278	2.846	31.88	162.32	39.71
90	90	2.3	6.23	7.93	100.8	22.398	3.565	25.93	157.53	33.63
90	90	2.8	7.51	9.56	119.9	26.644	3.541	31.05	189.07	40.03
90	90	3.0	8.01	10.21	127.3	28.284	3.531	33.04	201.42	42.51
90	90	3.2	8.51	10.85	134.5	29.889	3.521	35.01	213.61	44.93
90	90	4.0	10.48	13.35	161.9	35.980	3.483	42.58	260.80	54.17
90	90	4.5	11.67	14.87	177.9	39.524	3.459	47.08	289.02	59.58
100	100	2.3	6.95	8.85	138.7	27.944	3.973	32.26	217.48	41.95
100	100	2.8	8.39	10.68	166.6	33.323	3.949	38.69	261.43	50.05
100	100	3.0	5.96	11.41	177.0	35.408	3.939	41.21	278.68	53.19
100	100	3.2	9.52	12.13	187.3	37.454	3.930	43.69	295.73	56.28
100	100	4.0	11.73	14.96	226.3	45.268	3.891	53.30	362.01	68.10
100	100	4.5	13.08	16.67	249.3	49.854	3.867	59.04	401.87	75.07

EXPANDED METAL MESH

JENIS PRODUK	BERAT PER LBR/K +/- 10%	UK. JARING/MM				
		SWM (P)	X	LWM (L)	P	X L
BALUSTRADE MESH						
B 3032	18,80	25	X	40	2400	X 1200
BA 3032 (ALM)	6,60	25	X	40	2400	X 1200
GRIDMESH						
GM 30080	27,00	30	X	75	2400	X 900
GM 30080	36,00	30	X	75	2400	X 1200
GM 50075	50,86	25	X	75	2400	X 900
GM 50075	68,90	25	X	75	2400	X 1200
GM 50075	84,00	25	X	75	2000	X 1200
GR 50080	32,80	42	X	135	2400	X 900
GR 50080	43,73	42	X	135	2400	X 1200
GR 50080	50,00	42	X	135	3000	X 1200
GM 50105	80,90	30	X	75	2400	X 1200
GM 50105	101,12	30	X	75	3000	X 1200
GR 50110	55,20	45	X	135	2400	X 1200
GR 50110	69,00	45	X	135	3000	X 1200

EXPANDED METAL MESH

JENIS PRODUK	BERAT PER LBR/K +/- 10%	UK. JARING/MM				
		SWM	X	LWM	P	X L
METAL LATH						
T 0510	2,49	10	X	21	2600	X 1200
T 0715	4,80	10	X	21	2400	X 1200
ORNAMESEH						
C 1015	7,60	10	X	29	2400	X 1200
D 1020	5,50	16	X	38	2400	X 1200
D 1020	7,17	16	X	38	3000	X 1200
D 1620	11,48	16	X	38	3000	X 1200
D 1620	9,18	16	X	38	2400	X 1200
F 1620	9,35	22	X	57	2400	X 1200
F 2028	10,90	22	X	57	2400	X 1200
G 2020	11,48	35	X	76	3000	X 1200
G 207	9,18	35	X	76	2400	X 1200
G 2020	8,61	32	X	38	2400	X 1200
F 3035	21,00	22	X	57	2400	X 1200
G 3045	19,00	35	X	76	2400	X 1200
G 3075	15,00	75	X	200	2400	X 1200
DM 3030	13,80				2400	X 1200

SUPERDECK SHEET

TEBAL (MM)	Berat Superdeck	Berat Zinalume
0,35	2,38	2,31
0,40	2,73	2,67
0,45	3,09	3,03
0,50	3,45	3,38
0,55	3,81	

SUPERDECK KHUSUS TYPE HH

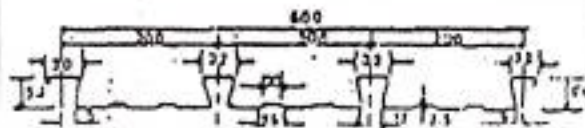
TEBAL (MM)	Berat Superdeck	Berat Zinalume
0,35	2,67	2,6
0,40	3,07	3,00
0,45	3,48	3,80
0,50		

Spec :

- Superdeck/Sheet adalah seng berwarna dengan standr coating JIS
- Zinalume adalah bahan coating Zinc dan Aluminium

Super floor deck

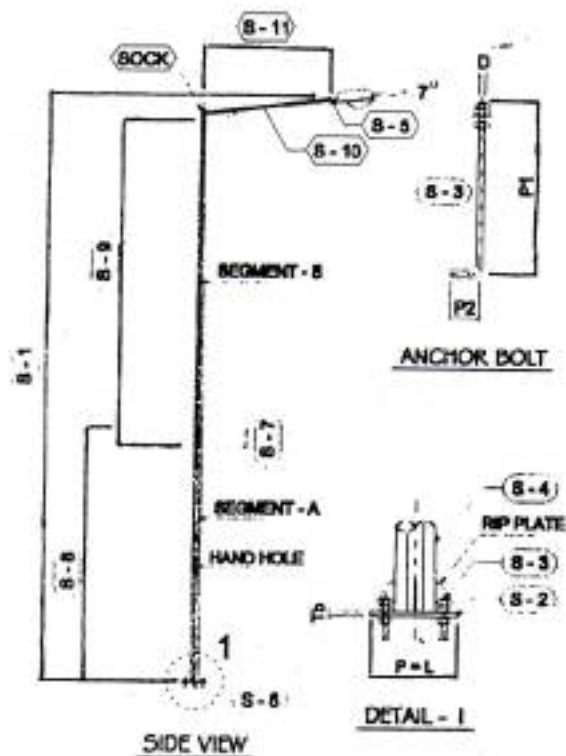
MODEL & BENTUK GELOMBANG



GUARD RAIL

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GAMBAR TIANG PJU

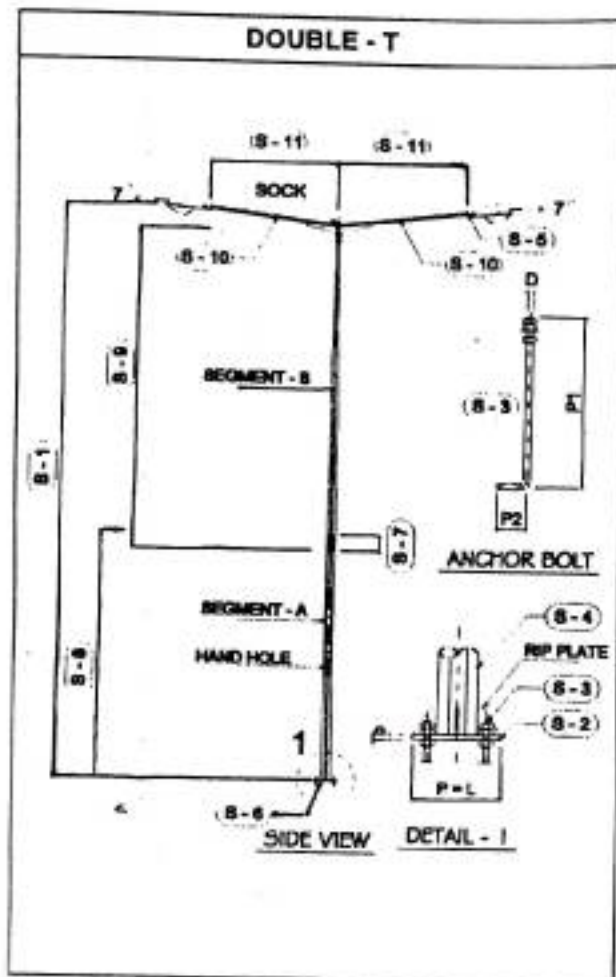


SPESIFIKASI TEKNIS

TYPE	S - 1	S - 2		S - 4	S - 5	S - 6	S - 7	S - 8	S - 9	S - 10 (Orn)	S - 11 (Arm)
		P x L x Tb	S - 3 D - P1 - P2								
H 07 ST	7000	300 x 300 x 16 16 - 500 - 100		3.2	63	135	300	4000	3000	1500	1500
H 08 ST	8000	300 x 500 x 16 19 - 500 - 100		3.2	63	145	300	5000	3000	1500	1500
H 09 ST	9000	300 x 300 x 16 19 - 500 - 100		3.2	63	148	300	6000	3000	1500	1500
H 10 ST	10000	400 x 400 x 19 22 - 600 - 100		3.2	63	157	300	4000	5935	2200	2200
H 11 ST	11000	400 x 400 x 19 22 - 600 - 100		3.2	63	167	300	5000	5935	2200	2200
H 12 ST	12000	400 x 400 x 19 22 - 600 - 100		3.2	63	176	300	6000	5935	2200	2200
H 13 ST	13000	400 x 400 x 19 22 - 600 - 100		3.2	63	185	300	7000	5935	2200	2200

Keterangan :

- D = Diameter
- P1 = Panjang pertama
- P2 = Panjang kedua
- P = Panjang
- L = Lebar
- Tb = Tebal
- Arm = Armature
- Orn = Ornament

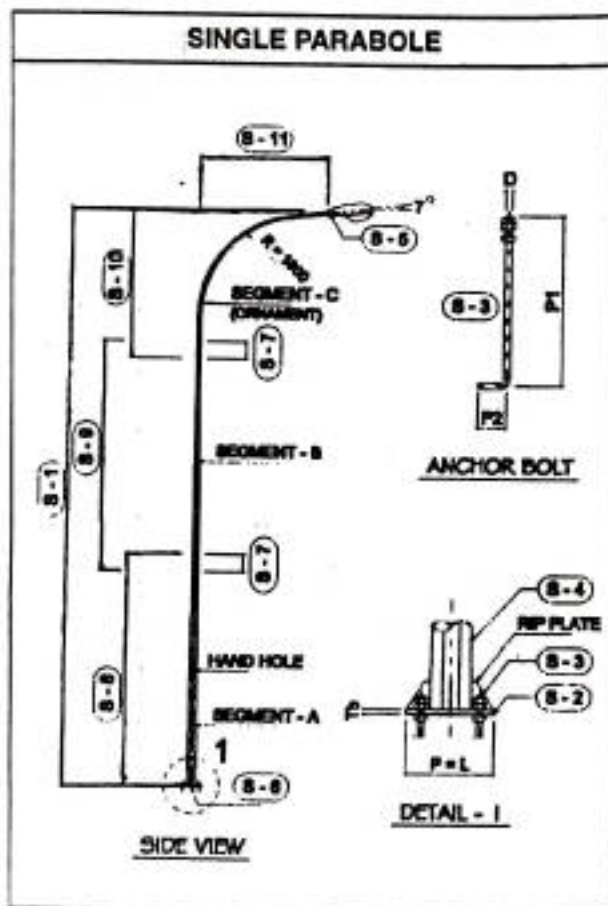


SPESIFIKASI TEKNIS											
TYPE	S-1	S-2 P x L x Tb S-3 D - P1 - P2	S-4	S-5	S-6	S-7	S-8	S-9	S-10 (Orn)	S-11 (Arm)	
H 07 DT	7000	300 x 300 x 16 15 - 500 - 100	3.2	63	135	300	4000	3000	1500	1500	
H 08 DT	8000	300 x 300 x 16 15 - 500 - 100	3.2	63	145	300	5000	3000	1500	1500	
H 09 DT	9000	300 x 300 x 16 15 - 530 - 100	3.2	63	148	300	6000	3000	1500	1500	
H 10 DT	10000	400 x 400 x 19 22 - 600 - 100	3.2	63	157	300	4000	5935	2200	2200	
H 11 DT	11000	400 x 400 x 19 22 - 600 - 100	3.2	63	167	300	5000	5935	2200	2200	
H 12 DT	12000	400 x 400 x 19 22 - 600 - 100	3.2	63	176	300	6000	5935	2200	2200	
H 13 DT	13000	400 x 400 x 19 22 - 600 - 100	3.2	63	185	300	7000	5935	2200	2200	

Keterangan :

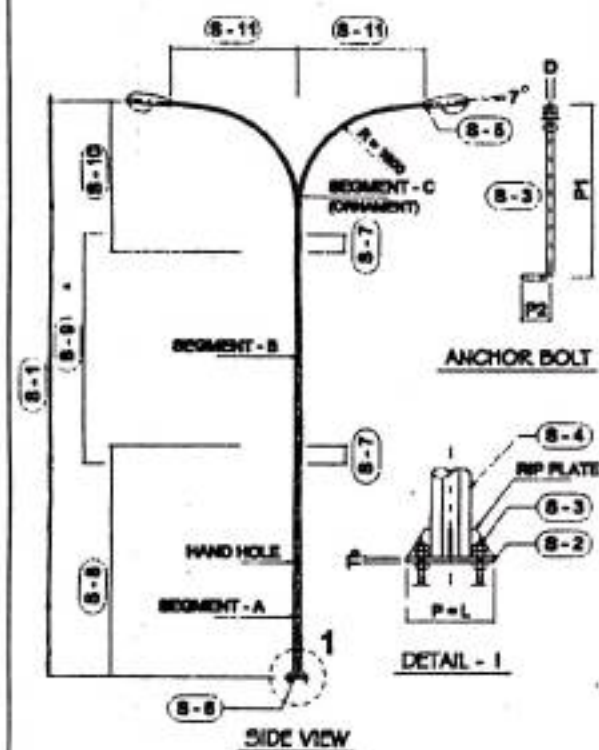
- D = Diameter
- P1 = Panjang pertama
- P2 = Panjang kedua
- P = Panjang
- L = Lebar
- Tb = Tebal
- Arm = Armature
- Orn = Ornament

GAMBAR TIANG PJU



SPESIFIKASI TEKNIS											
TYPE	S-1	S-2 P x L x Tb S-3 D - P1 - P2	S-4	S-5	S-6	S-7	S-8	S-9	S-10 (Orn)	S-11 (Arm)	
H 07 SP	7000	300 x 300 x 16 16 - 500 - 100	3.2	63	135	300	5000	-	3000	1500	
H 08 SP	8000	300 x 300 x 16 19 - 500 - 100	3.2	63	145	300	6000	-	3000	1500	
H 09 SP	9000	300 x 300 x 16 19 - 500 - 100	3.2	63	148	300	6000	-	4000	1500	
H 10 SP	10000	400 x 400 x 19 22 - 600 - 100	3.2	63	157	300	4000	4000	4000	2200	
H 11 SP	11000	400 x 400 x 19 22 - 600 - 100	3.2	63	167	300	5000	4000	4000	2200	
H 12 SP	12000	400 x 400 x 19 22 - 600 - 100	3.2	63	176	300	6000	4000	4000	2200	
H 13 SP	13000	400 x 400 x 19 22 - 600 - 100	3.2	63	185	300	5000	6000	4000	2200	
Keterangan :											
-D	= Diameter					-L	= Lebar				
-P1	= Panjang pertama					-Tb	= Tebal				
-P2	= Panjang kedua					-Arm	= Armature				
-P	= Panjang					-Orn	= Ornament				

DOUBLE PARABOLE



SPESIFIKASI TEKNIS

TYPE	S - 1	S - 2		S - 4	S - 5	S - 6	S - 7	S - 8	S - 9	S - 10	S - 11
		P x L x Tb	S - 3								
		D - P1 - P2								(Orn) (Arm)	
H 07 DP	7000	300 x 300 x 16 16 - 500 - 100	3.2	63	135	300	5000	-	3000	1500	
H 08 DP	8000	300 x 300 x 16 19 - 500 - 100	3.2	63	145	300	6000	-	3000	1500	
H 09 DP	9000	300 x 300 x 16 19 - 500 - 100	3.2	63	148	300	6000	-	4000	1500	
H 10 DP	10000	400 x 400 x 19 22 - 600 - 100	3.2	63	157	300	4000	4000	4000	2200	
H 11 DP	11000	400 x 400 x 19 22 - 600 - 100	3.2	63	167	300	5000	4000	4000	2200	
H 12 DP	12000	400 x 400 x 19 22 - 600 - 100	3.2	63	176	300	6000	4000	4000	2200	
H 13 DP	13000	400 x 400 x 19 22 - 600 - 100	3.2	63	185	300	5000	6000	4000	2200	

Keterangan :

- D = Diameter
- P1 = Panjang pertama
- P2 = Panjang kedua
- P = Panjang

- L = Lebar
- Tb = Tebal
- Arm = Armature
- Orn = Ornament

WIRE MESH LION

JARING POLOS (PLAIN FABRIC)

TYPE	UKURAN (SIZE)				BERAT (WEIGHT)	
	DIA. (MM)	SPASI (MM)	LEMBAR (MTR)	ROLL (MTR)	LEMBAR (KG)	ROLL (KG)
M - 4	4 x 4	150 x 150	5,4 x 2,1	5,4 x 2,1	15,46	154,60
M - 5	5 x 5	150 x 150	5,4 x 2,1	5,4 x 2,1	24,14	241,40
M - 6	6 x 6	150 x 150	5,4 x 2,1	5,4 x 2,1	34,78	347,60
M - 7	7 x 7	150 x 150	5,4 x 2,1		47,31	
M - 8	8 x 8	150 x 150	5,4 x 2,1		61,79	
M - 9	9 x 9	150 x 150	5,4 x 2,1		78,21	
M - 10	10 x 10	150 x 150	5,4 x 2,1		96,55	

WIRE MESH LION

JARING ULIR (DEFORMED FABRIC)

TYPE	UKURAN (SIZE)				BERAT (WEIGHT)	
	DIA. (MM)	SPASI (MM)	LEMBAR (MTR)	ROLL (MTR)	LEMBAR (KG)	ROLL (KG)
DM - 5	5 x 5	150 x 150	5,4 x 2,1	5,4 x 2,1	24,14	241,40
DM - 6	6 x 6	150 x 150	5,4 x 2,1	5,4 x 2,1	34,78	347,60
DM - 7	7 x 7	150 x 150	5,4 x 2,1		47,31	473,10
DM - 8	8 x 8	150 x 150	5,4 x 2,1		61,79	
DM - 9	9 x 9	150 x 150	5,4 x 2,1		78,21	

GALVANIZE WIRE MESH (Kawat Ayam)

Type Jenis	Patern Gambar	Mesh Kotak	Roll Size Ukuran Per Roll (meter)	Diameter (mm)	Weight Berat (kg)	Application Aplikasi Pemakaian
BM2015		50 x 15	60 x 1,00	1,63	82,75	Antary (Dinding luar kandang ayam dan burung)
BM1115		25 x 25	30 x 0,90	1,63	35,87	Antary (Dinding luar kandang ayam dan burung)
BM3315		75 x 75	60 x 1,20	1,63	31,13	Insulation / Roofmesh (Atap / Penutup Glass Wool)
BM2215		50 x 50	30 x 1,20	1,63	24,50	Insulation / Roofmesh (Atap / Penutup Glass Wool)
BM2114		50 x 25	30 x 1,80	2,03	78,43	Partition, Antary, Rack (Partisi, Kandang ayam/burung dan Rak Bungas)
BM2214		50 x 50	30 x 1,80	2,03	52,58	Partition, Corral, Rack, Coop (Partisi, Kandang ayam, Rak Bungas, Jaring/Bulu Ayam)
BM1114		25 x 25	30 x 0,90	2,03	67,21	Antary (Dinding luar kandang ayam dan burung)
BM2212		50 x 50	30 x 1,80	2,70	88,80	Partition Wall, Rack (Dinding Partisi Plastik, Rak Bungas)
BM2210		50 x 50	30 x 1,80	3,00	130,85	Partition Wall, Trolly, Fence, Rack (Dinding Partisi Trolly, Pagar, Rak Bungas)
BM2210s		50 x 50	30 x 0,90	3,00	73,00	Partition Wall, Trolly, Fence, Rack (Dinding Partisi Trolly, Pagar, Rak Bungas)
BM4410		160 x 160	30 x 1,80	3,00	72,26	Fencing, Partition and Packed Galton (Pagar, Partisi dan Bungkusan)

GALVANIZE WIRE MESH (Kawat Ayam)

Type Jenis	Pattern Gambar	Mesh Kotak	Roll Size Ukuran Per Roll (meter)	Diameter (mm)	Weight Berat (kg)	Application Aplikasi Pemakaian
BM4210		100 x 50	30 x 1,80	3,00	101,56	Fencing, Partition and Walled Garden (Pagar, Partisi dan Berjong)
BM228		50 x 50	30 x 1,80	4,06	204,62	Partition Wall, Trellis, Fence, Rack (Dividing Parts) Terah, Pagar, Rak Baking ()
BM228s		50 x 50	30 x 0,90	4,06	111,50	Partition Wall, Trellis, Fence, Rack (Dividing Parts) Terah, Pagar, Rak Baking ()
BM448		100 x 100	30 x 1,80	4,06	113,93	Fencing, Partition and Walled Garden (Pagar, Partisi dan Berjong)

An specification can be changed without prior notice (Spesifikasi dapat berubah sewaktu-waktu bila diperlukan)
 Special Order can be made for special application (Pesanan khusus dapat dibuat sesuai dengan kebutuhan)

Typical Lives of Galvanized Coating in Different Environments

Description	Typical Coat Weight g/m ²	Typical Life (Years)	
		Inland Non-polluted	Coastal Polluted
Standard Galvanizing / Commercial	60 - 90	4,5	1
Heavy Galvanizing / British Standard 443:1982	260 - 300	13,5	4