



# PRODUCT CATALOGUE



# Together We Develop A Better Future

PT Gunung Raja Paksi Tbk





# Table of contents

---

**3 Who we are**

**5 Production Workflow**

---

**9 Flat Products**

11 Steel Plate

23 Hot Rolled Coil (HRC)

29 Coil Plate

---

**34 Downstream Products**

35 Cold Roll Coil (CRC)

37 Welded Beam

39 Lipped Channel

41 ERW Pipe

51 Spiral Pipe

---

**52 Service Center**

**56 Steel Application**

**60 Certification**

---

We Are



# Who We Are

**A to Z Under One Roof, our company was established in 1970 under the name PT Gunung Raja Paksi Tbk (GRP)**

PT Gunung Raja Paksi Tbk has proven its capabilities by expanding into a wider range of steel products and this has PT Gunung Raja Paksi, as one of leading steel producers in Indonesia.

The Commissioning of our first Hot Rolled Steel Machine was in the last quarter of the year 2000. GRP always emphasize foremost on professional performances through the in-Depth experience & accompanied by comprehensive approach in our efforts to provide the best services and the best possible value-added products. This ensures that we are able to meet the needs of our customer no matter how complicate it may be. Among the products range consist of Flat, Coils, Welded Pipe, and Decking Products.

GRP has ability to process the basic materials further and expands its products line into a variety of light fabricated products to suit specific requirement.

**The services we provide are:**

Forming Services Center  
Plate Services Center  
Coil Services Center





# Production Workflow

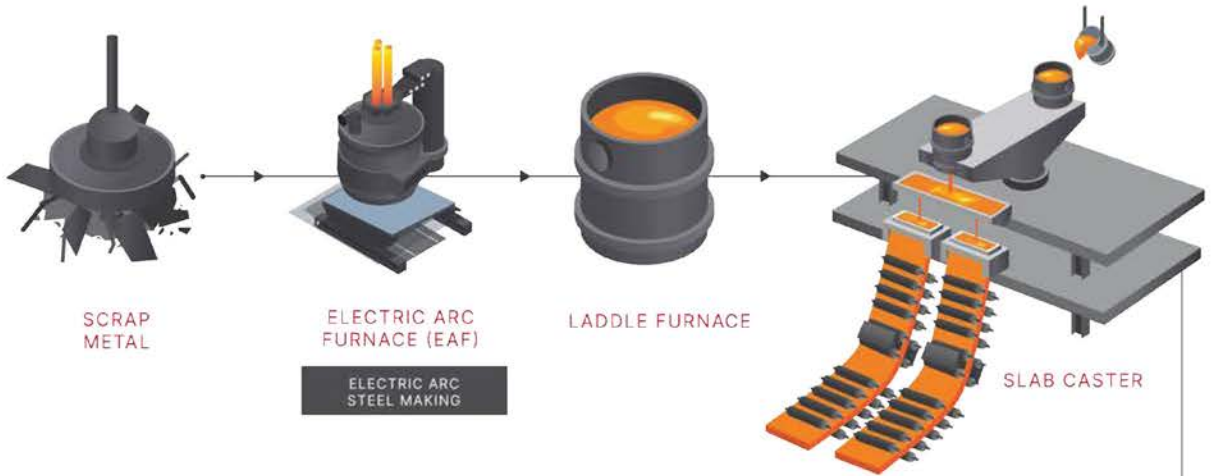
# Production Workflow

## Integrated Workflow of PT Gunung Raja Paksi Tbk

RAW MATERIAL & PREPARATION

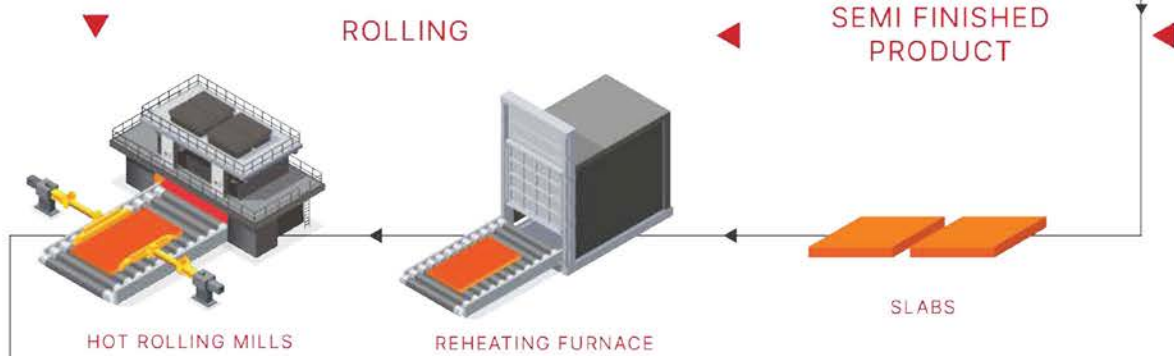
STEEL MAKING

CONTINUOUS CASTING



ROLLING

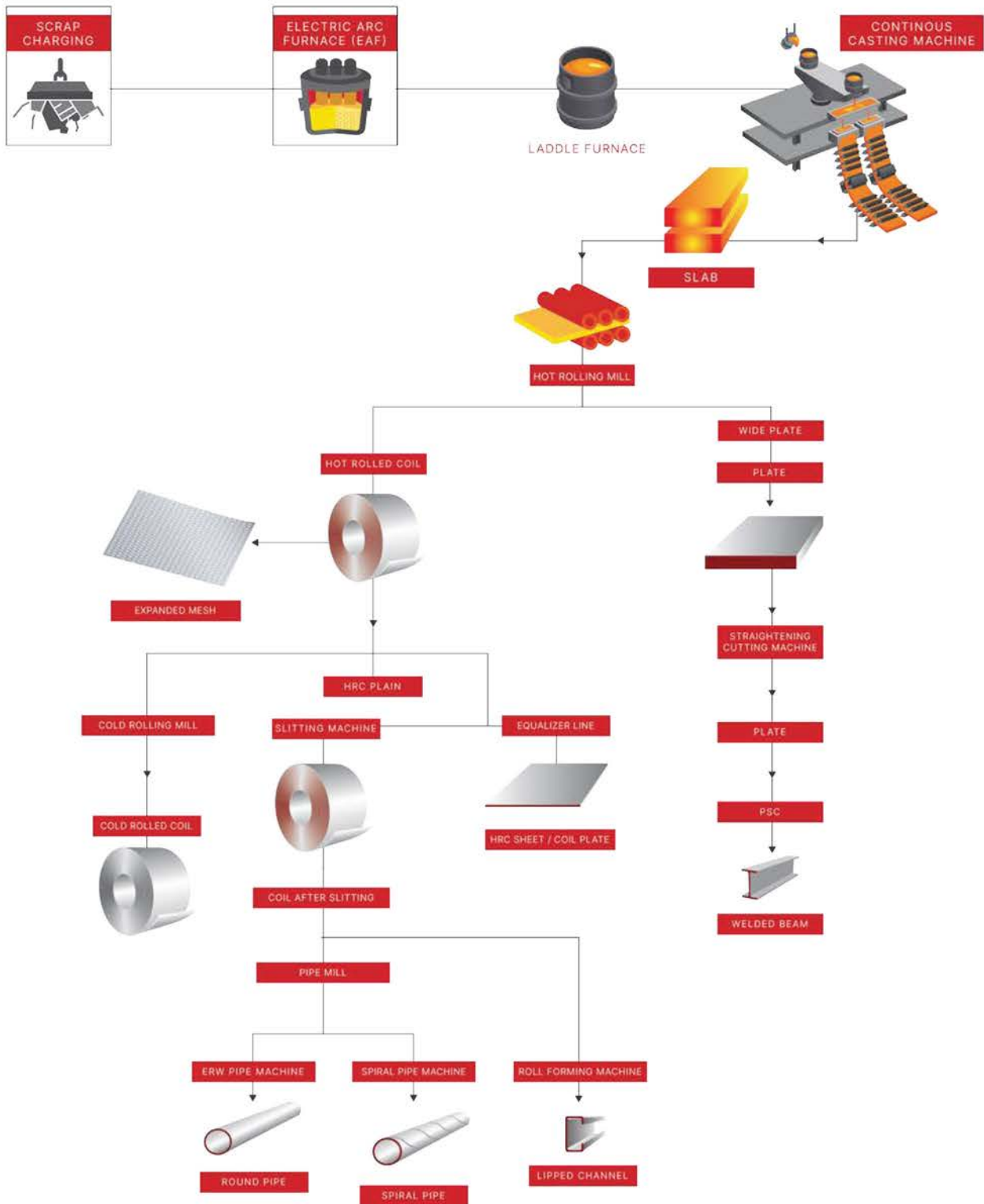
SEMI FINISHED PRODUCT



STEEL CONSTRUCTION PRODUCTS









Various end products covering all types of Hot and Cold Plates, Hot and Cold Rolled Coils, as well as various types of downstream plates and other coils.

**Steel Plate**

**Hot Rolled Coil (HRC)**

**Coil Plate**



# Flat Products



## Steel Plate

PT Gunung Raja Paksi (GRP) understands the diverse demand for this form of flat steel as we produce steel plates from Mild Steel, High-Strength Low Alloy, pressure Vessel, Ship Building Plates, and for general purpose uses.

We also understand the various uses and applications of steel plates, and as one of the leading steel mill, we can produce the majority of plate grades and standards as issued by the world's major third party certification entities such as ABS, BKI, DNV, LR, GL, TUV, NK & CE Marked and each with their different sub grades.

To further enhance the performance of our steel product, we have a heat treatment facility for normalizing. This process is to accommodate with a minimum thickness of 6 mm steel plate and will provide the additional performance enhancement to our high tensile plate range. Combining our broad experience in steel industry and extensive range of cutting machines, we are able to fulfill various dimensions and grades required by our customers.



Annual Capacity: 480,000 MT/year

Thickness: 6 - 150 mm, Width: 1200 - 3050 mm Max

Grade: ASTM, JIS, EN, DIN, AS/NZS, BS, API 5L PSL 1; PSL 2, API 2H, API 2W, BKI, ABS, LR,

World class steel plates are manufactured at Gunung Raja Paksi Plate Mill with state-of-the-art technology to ensure their quality. These plates come in various standards, grades, and sizes to meet your requirement for direct use, rolling, or fabricating. Ranging from mild steel to high strength steel, our products are subjected to stringent quality control protocols.

Application	Standard & Specification	Grade
General Structural and Weldable Structural Steel	ASTM	A36, A283, A131, A529, A572, A573, A633, A709,
	JIS	SS400, SS490, SS540, SM400, SM490, SM520, SM570
	EN	S235JR/J0/J2, S275JR/J0/J2/N/NL, S355JR/J0/J2/K2/N/NL/M/ML, S420M/ML, S460M/ML
	DIN	ST 37.2, ST 44.2, ST 52.3
	AS/NZS	200, 250, 300, 350, 400, 450
Pressure Vessel Steel	BS	40, 43, 50, 55
	ASTM	A285, A516
Line pipe Steel	EN	P235GH, P265GH, P275NH/NL1, P295GH, P355GH/N/NH/NL1/M/ML1
	API 5L PSL 1; PSL 2	A, B, X42, X46, X52, X56, X60, X65, X70
Offshore Structural Steel	API 2H	42, 50
	API 2W	50, 60
	ASTM	A388
Weather Resistant Steel	JIS	SMA 400, SMA 490,
	EN	S235 J0W/J2W, S355 J0W/J2W/K2W
	AS/NZS	WR 250
High Carbon Steel	ASTM	1042 - 1050
	JIS	S 45 - S 50
	AS/NZS	K1042
	EN	C 45
Ship Building Quality	BKI, ABS, LR, DNVGL, BV, NK	A, B, D, E, AH/DH/EH 32/36/40
Gas Cylinders Steel	JIS	SG 255, SG 295
Forming and Drawing Steel	ASTM	A1006, A1008, A1011CS/DS,
	JIS	SAPH 400/440, SPHC, SPHD, SPHT-1/2/3

### Calculated Plate Weight (From Thickness & Size)

Width x Length (in mm)	1219 x 2438	1219 x 6096	1524 x 3048	1524 x 6096	1524 x 9144	1524 x 12192	1829 x 6096	1829 x 12192	2133 x 6096	2133 x 12192	2438 x 6096	2438 x 12192	2743 x 6096	2743 x 12192	3048 x 6096	3048 x 12192
Width x Length (in ft)	4' x 8'	4' x 20'	5' x 10'	5' x 20'	5' x 30'	5' x 40'	6' x 20'	6' x 40'	7' x 20'	7' x 40'	8' x 20'	8' x 40'	9' x 20'	9' x 40'	10' x 20'	10' x 40'
Width x Length (in inch)	48 x 96	48 x 240	60 x 120	60 x 240	60 x 360	60 x 480	72 x 240	72 x 480	84 x 240	84 x 480	96 x 240	96 x 480	108 x 240	108 x 480	120 x 240	120 x 480
Thickness (mm)																
8	187	467	292	583	875	1.167	700	1.400	817	1.633	933	1.867	1.050	2.100	1.167	2.334
9	210	525	328	656	985	1.313	788	1.575	919	1.837	1.050	2.100	1.181	2.363	1.313	2.625
10	233	583	365	729	1.094	1.459	875	1.750	1.021	2.041	1.167	2.333	1.313	2.625	1.459	2.917
12	280	700	438	875	1.313	1.750	1.050	2.101	1.225	2.450	1.400	2.800	1.575	3.150	1.750	3.501
12.7	296	741	463	926	1.389	1.852	1.112	2.223	1.296	2.593	1.482	2.963	1.667	3.334	1.852	3.705
14	327	817	511	1.021	1.532	2.042	1.225	2.451	1.429	2.858	1.633	3.267	1.838	3.675	2.042	4.084
15	350	875	547	1.094	1.641	2.188	1.313	2.626	1.531	3.062	1.750	3.500	1.969	3.938	2.188	4.376
16	373	933	583	1.167	1.750	2.334	1.400	2.801	1.633	3.266	1.867	3.733	2.100	4.200	2.334	4.667
18	420	1.050	656	1.313	1.969	2.625	1.575	3.151	1.837	3.675	2.100	4.200	2.363	4.725	2.625	5.251
19	443	1.108	693	1.386	2.078	2.771	1.663	3.326	1.939	3.879	2.217	4.433	2.494	4.988	2.771	5.543
20	467	1.167	729	1.459	2.188	2.917	1.750	3.501	2.041	4.083	2.333	4.667	2.625	5.250	2.917	5.834
22	513	1.283	802	1.604	2.407	3.209	1.926	3.851	2.246	4.491	2.567	5.133	2.888	5.776	3.209	6.418
24	560	1.400	875	1.750	2.625	3.501	2.101	4.201	2.450	4.899	2.800	5.600	3.150	6.301	3.501	7.001
25	583	1.458	912	1.823	2.735	3.646	2.188	4.376	2.552	5.104	2.917	5.833	3.282	6.563	3.646	7.293
25.4	593	1.482	926	1.852	2.779	3.705	2.223	4.446	2.593	5.185	2.963	5.927	3.334	6.668	3.705	7.410
26	607	1.517	948	1.896	2.844	3.792	2.276	4.551	2.654	5.308	3.033	6.067	3.413	6.826	3.792	7.585
28	653	1.633	1.021	2.042	3.063	4.084	2.451	4.901	2.858	5.716	3.267	6.533	3.675	7.351	4.084	8.168
30	700	1.750	1.094	2.188	3.282	4.376	2.626	4.251	3.062	6.124	3.500	7.000	3.938	7.876	4.376	8.751
32	747	1.867	1.167	2.334	3.501	4.667	2.801	5.602	3.266	6.533	3.733	7.467	4.200	8.401	4.667	9.335
36	840	2.100	1.313	2.625	3.938	5.251	3.151	6.302	3.675	7.349	4.200	8.400	4.725	9.451	5.251	10.502
38	887	2.217	1.386	2.771	4.157	5.543	3.326	6.652	3.879	7.757	4.433	8.867	4.988	4.976	5.543	11.085
40	933	2.333	1.459	2.917	4.376	5.834	3.501	7.002	4.083	8.166	4.667	9.333	5.250	10.501	5.834	11.669
45	1.050	2.625	1.641	3.282	4.923	6.564	3.939	7.877	4.593	9.186	5.250	10.500	5.907	11.814	6.564	13.127
50	1.166	2.917	1.823	3.646	5.470	7.293	4.376	8.752	5.104	10.207	5.833	11.667	6.563	13.126	7.293	14.586
55	1.283	3.208	2.006	4.011	6.017	8.022	4.814	9.628	5.614	11.228	6.417	12.833	7.219	14.439	8.022	16.044
60	1.400	3.500	2.188	4.376	6.564	8.751	5.251	10.503	6.124	12.249	7.000	14.000	7.876	15.751	8.751	17.503
65	1.516	3.792	2.370	4.740	7.111	9.481	5.689	11.378	6.635	13.269	7.583	15.167	8.532	17.064	9.481	18.962
70	1.633	4.083	2.553	5.105	7.658	10.210	6.127	12.253	7.145	14.290	8.167	16.333	9.188	18.377	10.210	20.420
75	1.750	4.375	2.735	5.470	8.204	10.939	6.564	13.129	7.655	15.311	8.750	17.500	9.845	19.689	10.939	21.879
80	1.866	4.667	2.917	5.834	8.751	11.669	7.002	14.004	8.166	16.331	9.333	18.667	10.501	21.002	11.669	23.337
85	1.983	4.958	3.099	6.199	9.298	12.398	7.440	14.879	8.676	17.352	9.917	19.833	11.157	22.315	12.398	24.796
90	2.100	5.250	3.282	6.564	9.845	13.127	7.877	15.754	9.186	18.373	10.500	21.500	11.814	23.627	13.127	26.254
95	2.216	5.542	3.464	6.928	10.392	13.856	8.315	16.630	9.697	19.394	11.083	22.167	12.470	24.940	13.856	27.713
100	2.333	5.833	3.646	7.293	10.939	14.586	8.752	17.505	10.207	20.414	11.667	23.333	13.126	26.252	14.586	29.172

Conculated considering specific gravity of steel as 7.85 Kg/mm2, and dimension in mm.   Not Available Size





General & Weldable Structural Steel - High Strength Steel (Yield Strength ± 320 - 400 Mpa)

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES														GENERAL PURPOSE
				TENSILE TEST							IMPACT TEST							
				YS (N/mm <sup>2</sup> )			TR		EL (%)		LG				TR			
				Min	Min	Max	200	80	50	5.65 <sub>So</sub>	+20	0	-20	-40	+20	0	-20	
ASTM A 131	AH32	6-80	>6.4 ≤ 12.5	315	440	590	19	-	22	-	-	-	31	-	-	22	-	
			>12.5 ≤ 20	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>20 ≤ 25	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>25 ≤ 35	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>35 ≤ 50	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>50 ≤ 70	315	440	590	19	-	22	-	-	28	-	-	26	-		
	DH32	6-80	>6.4 ≤ 12.5	315	440	590	19	-	22	-	-	-	31	-	-	22	-	
			>12.5 ≤ 20	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>20 ≤ 25	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>25 ≤ 35	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>35 ≤ 50	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>50 ≤ 70	315	440	590	19	-	22	-	-	28	-	-	26	-		
	EH32	8-60	>6.4 ≤ 12.5	315	440	590	19	-	22	-	-	-	31	-	-	22	-	
			>12.5 ≤ 20	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>20 ≤ 25	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>25 ≤ 35	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>35 ≤ 50	315	440	590	19	-	22	-	-	31	-	-	22	-		
			>50 ≤ 70	315	440	590	19	-	22	-	-	28	-	-	26	-		
	AH36	6-80	>6.4 ≤ 12.5	355	490	620	19	-	22	-	-	-	34	-	-	24	-	
			>12.5 ≤ 20	355	490	620	19	-	22	-	-	34	-	-	24	-		
			>20 ≤ 25	355	490	620	19	-	22	-	-	34	-	-	24	-		
			>25 ≤ 35	355	490	620	19	-	22	-	-	34	-	-	24	-		
			>35 ≤ 50	355	490	620	19	-	22	-	-	41	-	-	27	-		
			>50 ≤ 70	355	490	620	19	-	22	-	-	50	-	-	34	-		
DH36	6-80	>6.4 ≤ 12.5	355	490	620	19	-	22	-	-	-	34	-	-	24	-		
		>12.5 ≤ 20	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>20 ≤ 25	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>25 ≤ 35	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>35 ≤ 50	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>50 ≤ 70	355	490	620	19	-	22	-	-	41	-	-	24	-			
EH36	8-60	>6.4 ≤ 12.5	355	490	620	19	-	22	-	-	-	34	-	-	24	-		
		>12.5 ≤ 20	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>20 ≤ 25	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>25 ≤ 35	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>35 ≤ 50	355	490	620	19	-	22	-	-	34	-	-	24	-			
		>50 ≤ 70	355	490	620	19	-	22	-	-	41	-	-	24	-			
ASTM A529	50	8-25	≥25	345	450	690	18	-	21	-	-	-	-	-	-	-		
	55	8-25	≥25	380	485	690	17	-	20	-	-	-	-	-	-	-		
ASTM A 572 / ASME SA 572	42	6-120	≤ 40	290	415	-	-	20 <sup>1</sup>	-	-	-	-	-	-	-	-		
			> 40	290	415	-	-	20 <sup>1</sup>	-	-	-	-	-	-	-	-		
	50	8-120	≤ 40	345	450	-	-	18 <sup>1</sup>	-	-	-	-	-	-	-	-		
			> 40	345	450	-	-	18 <sup>1</sup>	-	-	-	-	-	-	-	-		
55	8-120	≤ 40	380	485	-	-	17 <sup>1</sup>	-	-	-	-	-	-	-	-			
		> 40	380	485	-	-	17 <sup>1</sup>	-	-	-	-	-	-	-	-			
ASTM A 573	65	6-40	≤ 13	240	450	530	20 <sup>P</sup>	-	23 <sup>P</sup>	-	-	-	-	-	-			
			> 13 ≤ 40	240	450	530	20 <sup>P</sup>	-	23 <sup>P</sup>	-	-	-	-	-	-			
	70	6-40	≤ 13	290	485	620	18 <sup>P</sup>	-	21 <sup>P</sup>	-	-	-	-	-				
ASTM A 709	50	8-50	≤ 40	345	450	-	-	18 <sup>S</sup>	-	-	-	-	-	-	-			
			> 40	345	450	-	-	18 <sup>S</sup>	-	-	-	-	-	-	-			
JIS G 3101	SS-490	6-120	≤ 5	285	490	610	-	-	19	-	-	-	-	-	-			
			> 5 < 16	285	490	610	15	-	-	-	-	-	-	-				
			> 16 < 40	275	490	610	19	-	-	-	-	-	-	-				
			> 40 ≤ 100	255	490	610	-	-	-	-	-	-	-	-				
			> 100	245	490	610	-	-	-	-	-	-	-	-				
JIS G 3106	SM 490 YA	5-120	≤ 5	365	490	610	-	-	19	-	-	-	-	-				
			> 5 < 16	365	490	610	15	-	-	-	-	-	-					
			> 16 < 40	355	490	610	19	-	-	-	-	-	-					
	SM 490 YB	5-120	> 40 < 75	335	490	610	-	-	21	-	-	-	-					
			> 75 < 100	325	490	610	-	-	21	-	-	-						
			> 100	325	490	610	-	-	21	-	-	-						
JIS G 3106	SM 520 B	8-120	≤ 5	365	520	640	15	-	-	-	-	-	-					
			> 5 < 12	365	520	640	15	-	-	-	-	-						
			> 12 < 16	365	520	640	15	-	-	-	-	-						
	SM 520 C	8-120	> 16 < 40	355	520	640	19	-	-	-	-	-						
			> 40 < 75	335	520	640	-	-	21	-	-	-						
			> 75 < 100	325	520	640	-	-	21	-	-	-						



General & Weldable Structural Steel - High Strength Steel (Yield Strength ± 320 - 400 Mpa)

Table with columns: SPECIFICATION, GRADE, Prod. Thick (mm), Thick. Range (mm), TENSILE TEST (YS, TR, EL), MECHANICAL PROPERTIES (AVG, TR), IMPACT TEST (AVG, TR), GENERAL PURPOSE. Rows include grades like S 355 JR + AR, S 355 JO + AR, S 355 J2 + N, S 355 K2 + N, S 355 N, S 355 NL, S 355 M, S 355 ML, S 50 A, S 50 B, S 50 C, S 50 D, S 50 DD.



### Pressure Vessel - Mild Steel

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES																GENERAL PURPOSE
				TENSILE TEST								IMPACT TEST								
				YS (N/mm <sup>2</sup> )	TS (N/mm <sup>2</sup> )			EL (%)		S.65+5o	LG				TR					
Min	Min	Max	200		80	50	+20	0	-20		-40	+20	0	-20	-40					
ASTM A 285 / ASME SA 285	A	5 - 50	-	165	310	450	27	-	90	-	-	-	-	-	-	-	-	LOW AND INTERMEDIATE TENSILE STRENGTH PRESSURE VESSEL PLATES		
	B	5 - 50	-	185	345	485	25	-	28	-	-	-	-	-	-	-	-			
	C	5 - 50	-	205	380	515	23	-	27	-	-	-	-	-	-	-	-			
ASME SA 516	55	5 - 80	≤ 12.5	205	380	515	23	-	27	-	-	-	-	-	-	-	-	PRESSURE VESSEL PLATES, CARBON STEEL FOR MODERATE AND LOW TEMPERATURE SERVICE		
			> 12.5 ≤ 50	205	380	515	23	-	27	-	-	-	-	-	-	-				
			> 50 ≤ 100	205	380	515	23	-	27	-	-	-	-	-	-	-				
			> 100 ≤ 200	205	380	515	23	-	27	-	-	-	-	-	-	-				
	60	5 - 80	≤ 12.5	220	415	550	21	-	25	-	-	-	-	-	-	-				
			> 12.5 ≤ 50 > 50 ≤ 100 > 100 ≤ 200	220 220 220	415 415 415	550 550 550	21 21 21	- - -	25 25 25	- - -	- - -	- - -	- - -	- - -	- - -					
EN 10028	P 235 GH	6 - 80	≤ 16	235	360	480	-	-	-	24	40	34	27	-	-	-	-	WELDABLE FINE GRAIN STEELS FOR PRESSURE PURPOSES		
			> 16 ≤ 40	225	360	480	-	-	-	24	40	34	27	-	-	-				
			> 40 ≤ 60	215	360	480	-	-	-	24	40	34	27	-	-	-				
			> 60 ≤ 100	200	360	480	-	-	-	24	40	34	27	-	-	-				
			> 100 ≤ 150	185	350	480	-	-	-	24	40	34	27	-	-	-				
			> 150 ≤ 250	170	340	480	-	-	-	24	40	34	27	-	-	-				
	P 265 GH	6 - 80	≤ 16	265	410	530	-	-	-	22	40	34	27	-	-	-	-	WELDABLE FINE GRAIN STEELS FOR PRESSURE PURPOSES		
			> 16 ≤ 40	255	410	530	-	-	-	22	40	34	27	-	-	-				
			> 40 ≤ 60	245	410	530	-	-	-	22	40	34	27	-	-	-				
			> 60 ≤ 100	215	410	530	-	-	-	22	40	34	27	-	-	-				
			> 100 ≤ 150	200	400	530	-	-	-	22	40	34	27	-	-	-				
			> 150 ≤ 250	185	390	530	-	-	-	22	40	34	27	-	-	-				
EN 10028-3 (2009)	P 275 NH	6 - 80	≤ 16	275	390	510	-	-	-	24	75	65	45	-	50	40	30	-	WELDABLE FINE GRAIN STEELS FOR PRESSURE PURPOSES	
			> 16 ≤ 40	265	390	510	-	-	-	24	75	65	45	-	50	40	30	-		
			> 40 ≤ 60	255	390	510	-	-	-	24	-	-	-	-	50	40	30	-		
	P 275 NL1	6 - 80	> 60 ≤ 100	235	370	490	-	-	-	23	-	-	-	-	50	40	30	-		
			≤ 16	275	390	510	-	-	-	24	80	70	50	40	60	50	35	27		
			> 16 ≤ 40	265	390	510	-	-	-	24	80	70	50	40	60	50	35	27		

### Pressure Vessel - High Strength Steel (Yield Strength ± 320 - 400 Mpa)

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES																GENERAL PURPOSE
				TENSILE TEST								IMPACT TEST								
				YS (N/mm <sup>2</sup> )	TS (N/mm <sup>2</sup> )			EL (%)		S.65+5o	LG				TR					
Min	Min	Max	200		80	50	+20	0	-20		-40	+20	0	-20	-40					
ASME SA 537	Class 1	8 - 60	≤ 40	345	485	620	18	-	22	-	-	-	-	-	-	-	-	PRESSURE VESSEL PLATES, HEAT TREATED, CARBON-MANGANESE-SILICON STEEL		
			> 40 ≤ 65	345	485	620	18	-	22	-	-	-	-	-	-	-				
			> 65 ≤ 100	310	450	585	18	-	22	-	-	-	-	-	-	-	-			
ASME SA 516 / ASTM A 516	65	6 - 80	≤ 12.5	240	450	585	19	-	23	-	-	-	-	-	-	-	-	PRESSURE VESSEL PLATES, CARBON STEEL FOR MODERATE AND LOW TEMPERATURE SERVICE		
			> 12.5 ≤ 50	240	450	585	19	-	23	-	-	-	-	-	-	-				
			> 50 ≤ 100	240	450	585	19	-	23	-	-	-	-	-	-	-				
			> 100 ≤ 200	240	450	585	19	-	23	-	-	-	-	-	-	-				
	70	7 - 80	≤ 12.5	260	485	620	17	-	21	-	-	-	-	-	-	-				
			> 12.5 ≤ 50 > 50 ≤ 100 > 100 ≤ 200	260 260 260	485 485 485	620 620 620	17 17 17	- - -	21 21 21	- - -	- - -	- - -	- - -	- - -	- - -					
EN 10028-2 (2003)	P 295 GH	6 - 80	≤ 16	295	460	580	-	-	-	21	-	-	-	-	-	-	40	NON ALLOY STEELS WITH SPECIFIED ELEVATED TEMPERATURE PROPERTIES		
			> 16 ≤ 40	290	460	580	-	-	-	21	-	-	-	-	-	-	40			
			> 40 ≤ 60	285	460	580	-	-	-	21	-	-	-	-	-	-	40			
			> 60 ≤ 100	260	460	580	-	-	-	21	-	-	-	-	-	-	40			
			> 100 ≤ 150	235	440	570	-	-	-	21	-	-	-	-	-	-	40			
			> 150 ≤ 250	220	430	570	-	-	-	21	-	-	-	-	-	-	40			
P 355 GH	6 - 80	≤ 16	355	510	650	-	-	-	20	40	34	27	-	-	-	-	NON ALLOY STEELS WITH SPECIFIED ELEVATED TEMPERATURE PROPERTIES			
		> 16 ≤ 40	345	510	650	-	-	-	20	40	34	27	-	-	-					
		> 40 ≤ 60	335	510	650	-	-	-	20	40	34	27	-	-	-					
		> 60 ≤ 100	315	490	630	-	-	-	20	40	34	27	-	-	-					
		≤ 16	355	490	630	-	-	-	22	75	65	45	-	50	40	30		-		
		> 16 ≤ 40	345	490	630	-	-	-	22	75	65	45	-	50	40	30		-		
EN 10028-3 (2009)	P 355 NH	8 - 80	> 40 ≤ 60	335	490	630	-	-	-	22	-	-	-	50	40	30	-			
			> 60 ≤ 100	315	470	610	-	-	-	21	-	-	-	50	40	30	-			
	P 355 NL1	8 - 80	≤ 16	355	490	630	-	-	-	22	80	70	50	40	60	50	35	27		
			> 16 ≤ 40	345	490	630	-	-	-	22	80	70	50	40	60	50	35	27		
EN 10028-5 (2009)	P 355 M	8 - 63	≤ 16	355	450	610	-	-	-	22	-	-	-	-	60	40	27	-		
			> 16 ≤ 40	355	450	610	-	-	-	22	-	-	-	-	60	40	27	-		
			> 40 ≤ 63	345	450	610	-	-	-	22	-	-	-	-	60	40	27	-		
	P 355 ML1	8 - 63	≤ 16	355	450	610	-	-	-	22	-	-	-	-	60	40	27			
> 16 ≤ 40	355	450	610	-	-	-	22	-	-	-	-	-	60	40	27					
> 40 ≤ 63	345	450	610	-	-	-	22	-	-	-	-	-	60	40	27					







**Offshore Structure - Mild Steel**

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES												GENERAL PURPOSE			
				TENSILE TEST						IMPACT TEST									
				TR			LG			TR			TR						
				YS (N/mm <sup>2</sup> ) Min	TS (N/mm <sup>2</sup> ) Min Max		EL (%) 200 80 50			5.69V50	+20	0	-20	-40	+20		0	-20	-40
API 2H	42	8-80	≤ 63.5	289	427	565	18	-	22	-	-	-	-	-	-	-	-	34	NORMALIZED PLATE FOR OFFSHORE STRUCTURE
			> 63.5	289	427	565	18	-	22	-	-	-	-	-	-	-	-	34	

**Offshore Structure - High Strength Steel (Yield Strength ± 320 - 400 Mpa)**

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES												GENERAL PURPOSE			
				TENSILE TEST						IMPACT TEST									
				TR			LG			TR			TR						
				YS (N/mm <sup>2</sup> ) Min	TS (N/mm <sup>2</sup> ) Min Max		EL (%) 200 80 50			5.69V50	+20	0	-20	-40	+20		0	-20	-40
API 2H	50	6-80	≤ 63.5	345	483	620	16	-	21	-	-	-	-	-	-	-	-	41	NORMALIZED PLATE FOR OFFSHORE STRUCTURES
			> 63.5	324	483	620	16	-	21	-	-	-	-	-	-	-	-	41	
API 2W	50	6-80	≤ 40	448	-	18	-	23	-	-	-	-	-	-	-	-	-	41	STEEL PLATES FOR OFFSHORE STRUCTURES PRODUCED BY TMCP
			> 40 ≤ 90	448	-	18	-	23	-	-	-	-	-	-	-	-	-	41	

**Offshore Structure - High Strength Steel (Yield Strength ± 400 - 500 Mpa)**

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES												GENERAL PURPOSE			
				TENSILE TEST						IMPACT TEST									
				TR			LG			TR			TR						
				YS (N/mm <sup>2</sup> ) Min	TS (N/mm <sup>2</sup> ) Min Max		EL (%) 200 80 50			5.69V50	+20	0	-20	-40	+20		0	-20	-40
API 2W	60	6-40	≤ 40	414	517	-	16	22	-	-	-	-	-	-	-	-	-	48	STRUCTURAL STEEL FOR OFFSHORE
			> 40 ≤ 100	414	517	-	16	22	-	-	-	-	-	-	-	-	-	48	

**High Carbon - Steel Plate**

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES												GENERAL PURPOSE		
				TENSILE TEST						IMPACT TEST								
				TR			LG			TR			TR					
				YS (N/mm <sup>2</sup> ) Min	TS (N/mm <sup>2</sup> ) Min Max		EL (%) 200 80 50			5.69V50	+20	0	-20	-40	+20		0	-20
ASTM A830	1042	≤ 120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CARBON STEEL, STRUCTURAL QUALITY
	1045	≤ 120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JIS G 4051:2009	S45C	≤ 120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Carbon Steel
	C45	≤ 120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NON ALLOY STEELS
EN 10083-2	C45 + N	≤ 120	≤ 16	340	620	-	-	-	-	-	14	-	-	-	-	-	-	NON ALLOY STEELS
	C45 + N	≤ 120	<16 ≤ 100	305	580	-	-	-	-	-	16	-	-	-	-	-	-	NON ALLOY STEELS
AS 3678: 2011	E1042	≤ 120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot Rolled Steels - Plates



**Normalizing Furnace**

As a result of continual expansion, Gunung Raja Paksi are pleased to announce that we are capable of producing normalized plates, which includes pressure vessel grades such as ASTM A516 and A537 Cl-1 plates. This grade requires heat treatment (normalizing) to achieve better plate quality.

**Shotblasting Painting**

We also have a shotblasting and painting facility which is commonly applied to steel for shipbuilding purposes, or as per customer requirement.



## Hot Rolled Coil

We can also supply flat products in coil form, whether it is hot-rolled or cold-rolled. Our hot rolled coils have excellent formability and weldability. On the other hand, our cold rolled coils offer superior surface quality, mechanical property, and precise dimensions.

Our hot rolled coils are produced by heating the best steel slabs we can source over the recrystallization temperature, rolled into desired thickness, and coiled at high temperature.

Applications of our hot rolled coils include welded steel structural beams, forming application, storage tanks, boilers, flanges, gas cylinders, and welded pipe.



**Standard & Specification:**  
 ASTM A-36  
 ASTM A-572  
 JIS G 3101  
 JIS G 3131

**Available Size:**  
 Thickness 2mm - 25mm  
 Width 900mm - 1524mm  
 Maximum 25 MT/Coil

**Annual Capacity:**  
 720.000 MT/Year  
 (for coil production only)



**Forming** (Commercial Or Drawing Quality)

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES														GENERAL PURPOSE		
				TENSILE TEST							IMPACT TEST									
				TR			EL (%)				LG			TR						
				YS (N/mm <sup>2</sup> )	TS (N/mm <sup>2</sup> )		200		80	90	5.09WCo	+20	0	-20	-40	+20	0		-20	-40
Min	Min	Max						AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG					
ASTM A830	1006 1008	≤ 25 ≤ 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CARBON STEEL		
A1011 CS	Type A	≤ 6	≤ 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled steel sheet and strip, Commercial Steel		
	Type B	≤ 6	≤ 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Type C	≤ 6	≤ 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Type D	≤ 6	≤ 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
A1011 DS	Type A	≤ 6	≤ 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled steel sheet and strip, Drawing Steel		
	Type B	≤ 6	≤ 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SAPH 400 (43)	2 - 14	≥ 1.6 < 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled steel plate, sheet and strip for automobile structural uses		
		≥ 2 < 2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		≥ 2.5 < 3.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 3.15 < 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 4 < 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 6 < 6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
SAPH 440 (48)	4 - 14	≥ 6.3 < 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled mild steel plates, sheet and strip		
		≥ 8 < 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 1.6 < 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 2 < 2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 2.5 < 3.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 3.15 < 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
SPHC	2 - 14	≥ 4 < 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled mild steel plates, sheet and strip		
		≥ 6 < 6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 6.3 < 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 8 < 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 1.2 < 1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 1.6 < 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
SPHD	2 - 14	≥ 2 < 2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled carbon steel strip for pipes and tubes		
		≥ 2.5 < 3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 3.2 < 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 1.2 < 1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		≥ 1.6 < 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
SPHT - 1	2 - 13	≥ 2 < 2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled carbon steel strip for pipes and tubes		
		≥ 2.5 < 3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 3.2 < 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
SPHT - 2	2 - 13	≥ 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled carbon steel strip for pipes and tubes		
		≥ 1.2 < 1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 1.6 < 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
SPHT - 3	5 - 13	≥ 3 < 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hot rolled carbon steel strip for pipes and tubes		
		≥ 6 < 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
		≥ 1.2 < 1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	







### Line Pipe Mild Steel

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES														GENERAL PURPOSE
				TENSILE TEST							IMPACT TEST							
				TR							LG							
				YS (N/mm <sup>2</sup> )		TS (N/mm <sup>2</sup> )		EL (%)			+20		0		-20		-40	
Min	Max	Min	Max	200	80	50	5.60r50	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG		
API SL PSL 1	BF	8-25	≤ 25	245 - 4504	15	750	---	---	---	---	---	---	---	---	---	---	---	LINE PIPE STEEL
	X 42	8-25	≤ 25	290 - 4954	15	750	---	---	---	---	---	---	---	---	---	---	---	
API SL PSL 2	BM	8-25	≤ 25	245 - 4504	15	750	---	---	---	---	---	---	---	---	---	---	---	LINE PIPE STEEL
	X 42MS	8-25	≤ 25	290 - 4954	15	750	---	---	---	---	---	---	---	---	---	---	---	

### Line Pipe High Strength Steel

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES														GENERAL PURPOSE	
				TENSILE TEST							IMPACT TEST								
				TR							LG								
				YS (N/mm <sup>2</sup> )		TS (N/mm <sup>2</sup> )		EL (%)			+20		0		-20		-40		TR
Min	Max	Min	Max	200	80	50	5.60r50	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG			
API SL PSL 1 Welded Pipe	X 46	8-20	≤ 25	320 - 525	435	750	-	-	-	-	-	-	40	-	-	-	-	-	LINE PIPE STEEL
	X 52	8-20	≤ 25	360 - 530	450	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 56	8-20	≤ 25	390 - 545	480	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 60	8-16	≤ 25	415 - 565	520	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 65	8-16	≤ 25	450 - 600	535	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 70	6	≤ 25	485 - 625	570	750	-	-	-	-	-	-	40	-	-	-	-	-	
API SL PSL 2 Welded Pipe	X 49M	8-20	≤ 25	320 - 525	435	750	-	-	-	-	-	-	40	-	-	-	-	-	LINE PIPE STEEL
	X 52M	8-20	≤ 25	360 - 530	450	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 56M	8-20	≤ 25	390 - 545	490	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 60M	8-16	≤ 25	415 - 565	520	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 65M	8-16	≤ 25	450 - 600	535	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 70M	6	≤ 25	485 - 625	570	750	-	-	-	-	-	-	40	-	-	-	-	-	
API SL PSL 2 Offshore Service	X 42MO	8-20	≤ 25	290 - 495	415	750	-	-	-	-	-	-	40	-	-	-	-	-	LINE PIPE STEEL FOR OFFSHORE SERVICES
	X 40MO	8-20	≤ 25	320 - 520	435	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 52MO	8-20	≤ 25	360 - 525	450	750	-	-	-	-	-	-	40	-	-	-	-	-	
	X 56MO	8-20	≤ 25	390 - 540	480	750	-	-	-	-	-	-	40	-	-	-	-	-	

### Gas Cylinder Steel

SPECIFICATION	GRADE	Prod. Thick (mm)	Thick. Range (mm)	MECHANICAL PROPERTIES														GENERAL PURPOSE	
				TENSILE TEST							IMPACT TEST								
				TR							LG								
				YS (N/mm <sup>2</sup> )		TS (N/mm <sup>2</sup> )		EL (%)			+20		0		-20		-40		TR
Min	Max	Min	Max	200	80	50	5.60r50	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG			
IS 6 3116	SG 255		≥ 1.6 ≤ 6.0	2554	90	---	---	2	1-	---	---	---	---	---	---	---	---	---	GAS CYLINDER STEEL
	SG 285		≥ 1.6 ≤ 6.0	2954	90	---	---	2	1-	---	---	---	---	---	---	---	---	---	
	SG 325		≥ 1.6 ≤ 6.0	3254	90	---	---	2	2-	---	---	---	---	---	---	---	---	---	







## Coil Plate

We produce Steel Coil Plate with our proprietary technology to guarantee the best quality product results. Our Coil Plate comes with a variety of standards and sizes that can be tailored to your needs.

GRP uses equalizing process to produce highest standard of coil plate, this industry leading standard produces a quality steel plate that is consistently flat.

### Standard & Specification:

A36, SS400, A283,  
EN 10025 Gr.235 JR,  
A572Gr50.

### Available Size:

Thickness 2.0mm – 12mm  
Width 900 – 1524 mm

### Annual Capacity:

360.000 MT/Year



## High Strength Steel YS&gt;300 Mpa

SPECIFICATION	GRADE	Prod. Thick (mm)	MECHANICAL PROPERTIES				
			Tensile Testing			Impact Testing (CVN)	
			YS (MPa)	TS (MPa)	EL (%)	LG	TR
ASTM A 131 / ASME SA 131	AH36	6 - 10	355	490 - 620	19	0°C (27 Joule)	0°C (24 Joule)
	DH36	6 - 10	355	490 - 620	19	-20°C (27 Joule)	-20°C (24 Joule)
	EH36	6 - 10	355	490 - 620	19	-40°C (27 Joule)	-40°C (24 Joule)
	AH40	6 - 10	390	510 - 650	19	0°C (39 Joule)	0°C (26 Joule)
	DH40	6 - 10	390	510 - 650	19	-20°C (39 Joule)	-20°C (26 Joule)
	EH40	6 - 10	390	510 - 650	19	-40°C (39 Joule)	-40°C (26 Joule)
ASTM A 572 / ASME SA 572	50	6 - 10	345	450	18M	-	-
	55	6 - 10	380	485	17M	-	-
	60	6 - 10	415	520	16M	-	-
ASTM A 573 / ASME SA 573	70	6 - 10	290	485 - 620	18R	-	-
JIS G 3101	SS 490	6 - 10	285	490 - 610	15	-	-
	SS 540	6 - 10	400	540	13	-	-
JIS G 3106	SM 490 A	6 - 10	325	490 - 610	17	-	-
	SM 490 B	6 - 10	325	490 - 610	17	0°C (27 Joule)	-
	SM 490 C	6 - 10	325	490 - 610	17	0°C (47 Joule)	-
	SM 490 YA	6 - 10	365	490 - 610	15	-	-
	SM 490 YB	6 - 10	365	490 - 610	15	0°C (27 Joule)	-
	SM 520 B	6 - 10	365	520 - 640	15	0°C (27 Joule)	-
	SM 520 C	6 - 10	365	520 - 640	15	0°C (47 Joule)	-
BS 4360	50 B	6 - 10	355	490 - 640	18C	+20°C (27 Joule)	-
	50 C	6 - 10	355	490 - 640	18C	0°C (27 Joule)	-
	50 D	6 - 10	355	490 - 640	18C	-20°C (47 Joule)	-
	50 DD	6 - 10	355	490 - 640	18C	-30°C (47 Joule)	-
EN 10025-2 / MS EN 10025-2	S 355 JR	6 - 10	355	470 - 630	20	+20°C (27 Joule)	-
	S 355 JO	6 - 10	355	470 - 630	20	0°C (27 Joule)	-
	S 355 J2	6 - 10	355	470 - 630	20	-20°C (47 Joule)	-
CSA G40.21 (1998)	350 W (50 W)	6 - 10	350	450 - 650	17	-	-
	400 W (60 W)	6 - 10	400	520 - 690	13	-	-
	1E-1863	6-100	345-500	450	16	-29°C (11 Joule)	-

**PRESSURE VESSEL STEEL**

SPECIFICATION	GRADE	Prod. Thick (mm)	MECHANICAL		
			Tensile Testing		
			YS (MPa)	TS (MPa)	EL (%)
ASTM A 516 / ASME SA 516	55	6 - 10	205	380 - 515	23
	60	6 - 10	220	415 - 550	21
	65	6 - 10	240	450 - 585	19
	70	6 - 10	260	485 - 620	17
ASTM A 572 / ASME SA 527	B	4 - 12	185	345 - 485	25
	C	4 - 12	205	380 - 515	23
JIS G 3101	SG 255	2 - 4	255	400	28
	SG 295	2 - 3	295	440	26

**WEATHER RESISTANT STEEL / Atmospheric Corrosion Resistance**

SPECIFICATION	GRADE	Prod. Thick (mm)	MECHANICAL		
			Tensile Testing		
			YS (MPa)	TS (MPa)	EL (%)
ASTM A 242 / ASME SA 242	-	6 - 10	345	480	18

**SHIP-BUILDING STEEL**

SPECIFICATION	GRADE	Prod. Thick (mm)	MECHANICAL PROPERTIES				
			Tensile Testing			Impact Testing (CVN)	
			YS (MPa)	TS (MPa)	EL (%)	LG	TR
Certified by LR, ABS, BV, BKI, & DNV GL	AH36	6 - 10	355	490 - 620	19	0°C (27 Joule)	0°C (24 Joule)
	DH36	6 - 10	355	490 - 620	19	-20°C (27 Joule)	-20°C (24 Joule)
	EH36	6 - 10	355	490 - 620	19	-40°C (27 Joule)	-40°C (24 Joule)
	AH40	6 - 10	390	510 - 650	19	0°C (39 Joule)	0°C (26 Joule)
	DH40	6 - 10	390	510 - 650	19	-20°C (39 Joule)	-20°C (26 Joule)
	EH40	6 - 10	390	510 - 650	19	-40°C (39 Joule)	-40°C (26 Joule)
	A	5-12	235	400 - 520	21	-	-
	B	5-12	235	400 - 520	21	0°C (27 Joule)	0°C (20 Joule)
	D	5-12	235	400 - 520	21	-20°C (27 Joule)	-20°C (20 Joule)
	E	5-12	235	400 - 520	21	-40°C (27 Joule)	-40°C (20 Joule)



AVAILABLE SIZE

		Maximum Length (mm)		
		Width Range (mm)		
Thickness Range (mm)		900 - 1070	1070 - 1219	1219 - 1524
MILD STEEL (YS < 300 MPa)	2 - 3	4000	4000	-
	3 - 4.5	6000	6000	-
	4.5 - 6	12000	12000	12000
	6 - 8	12000	12000	12000
	8 - 9	12000	12000	12000
	9 - 12	12000	12000	12000

\*Minimum Length 2000 mm

		Maximum Length (mm)		
		Width Range (mm)		
Thickness Range (mm)		900 - 1070	1070 - 1219	1219 - 1524
HIGH STRENGTH STEEL (YS > 300 MPa)	6 - 8	12000	12000	12000
	8 - 9	12000	12000	12000
	9 - 10	12000	12000	12000

\*Minimum Length 2000 mm





The strength, flexibility, and affordability of the steel bar make it one of the most widely used construction / construction materials in the world. We offer steel bars in various shapes and sizes.

**Cold Rolled Coil (CRC)**

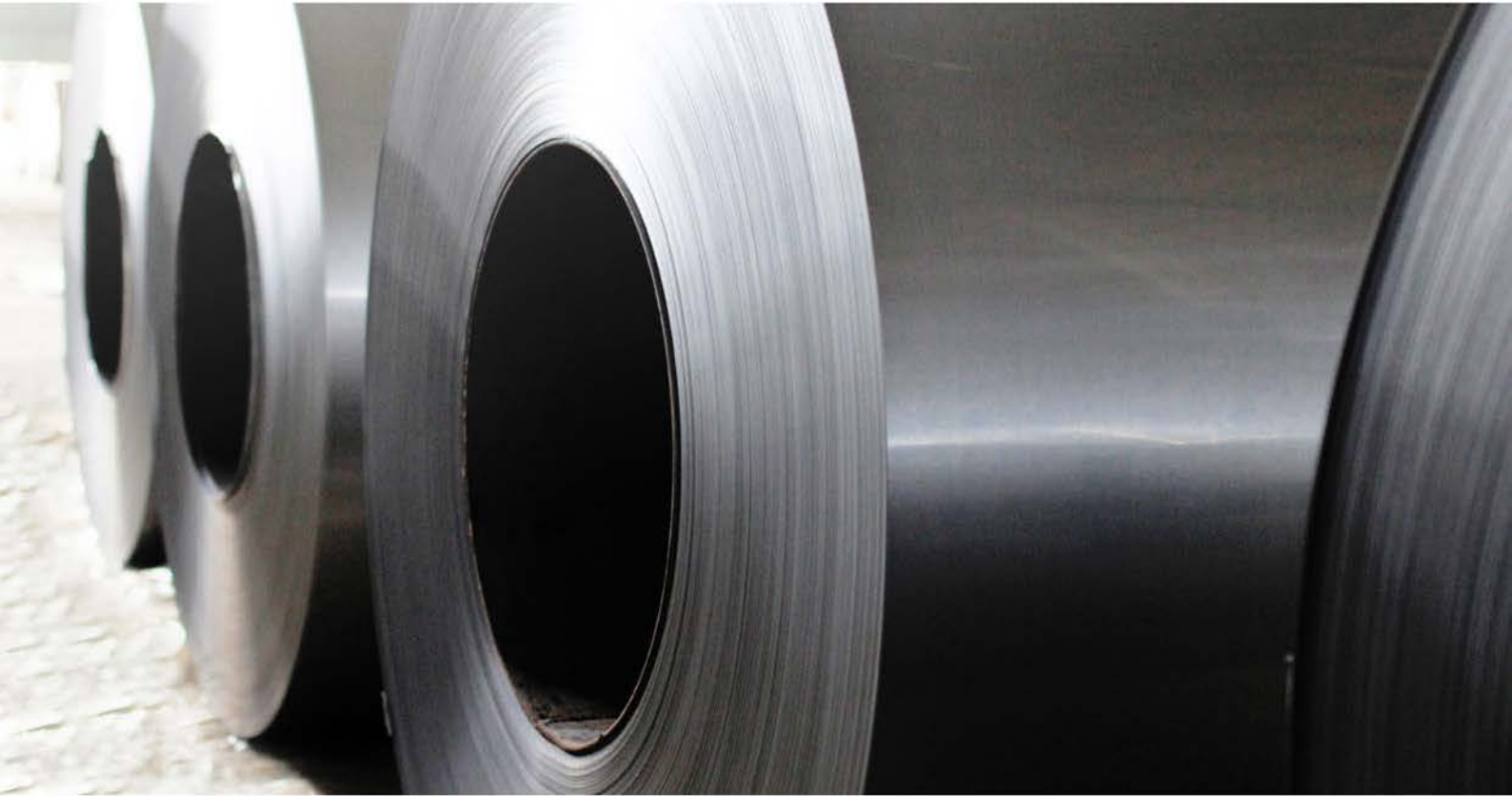
**Welded Beam**

**CNP (Lipped Channel)**

**ERW Pipe**

**Spiral Pipe**

# Downstream Products



## Cold Rolled Coil

GRP also produces our coil products in cold rolled form to cater to specific materials requirement for that unique product application.

This flat steel product rolled into thinner sizes while it is in normal room temperature to the exact thickness requirement and rolled into coils. The resulting of cold rolled coils is that they have a better surface quality, thinner profiles, and excellent finishes, and can be made into different type of products by means of cold forming.

**Standard & Specification:**

JIS G 3141 spec 1B  
JIS G 3141 spec SB  
JIS G 3141 spec SD

**Available Size:**

Thickness 0.2mm – 2.5mm  
Width 700mm – 1270mm  
Maximum 27 MT/Coil

**Annual Capacity:**

500.000 MT/Year



QAC 07  
05/01/2011

QAC 07  
05/01/2011

QAC  
05/01



## Welded Beam



**EPD**<sup>®</sup>  
THE INTERNATIONAL EPD<sup>®</sup> SYSTEM

Functioned similar to the mass produced H and I beam, the welded beams are made by joining together different plates to form a single beam.

Welded beam serves as the alternatives for construction projects that require beams that are not able to be produced in hot rolled form. Our welded beam products are machine welded and are closely supervised by our qualified technician and engineers to ensure the quality of the welding and the final products.

At GRP, we produce our welded beam in compliance with the JIS G 3192 standard sizes and dimensions. We also provide the services to tailor-made the beam sizes and dimension to suit the unique and challenging construction project as required by our customers.

### Standard & Specification:

Supply various specification / international standard like JIS , ASTM , EN , BS , AS , ABS, AS/NZS 3679.2 etc.

### Annual Capacity:

60.000 MT/Year

### Available Size:

As per customer Requirement  
Flange Width Range: 200 - 1,000 mm  
Web Height Range: 200 - 3,000 mm  
Thickness Flange Range: 8 - 100 mm  
Maximum Length: 25,000 mm

According JIS G 3192

Welded Beam Standard Specification

Standard Sectional Dimension				Section Area A	Unit Weight	Unit Weight	Informative Reference					
H x B	t1	t2	r				Geometrical Moment of Inertia		Radius of Gyration of Area		Modulus of Section	
mm	mm	mm	mm				Ix cm <sup>4</sup>	Iy cm <sup>4</sup>	ix cm	iy cm	Zx cm <sup>3</sup>	Zy cm <sup>3</sup>
600 x 300	12	20	28	192.5	151.00	1812	118,000	9,020	24.80	6.85	4,020.00	601.00
700 x 300	13	24	28	235.5	181.00	2171	201,000	10,800	29.30	6.78	5,760.00	722.00
800 x 300	14	26	28	267.4	207.00	2474	292,000	11,700	33.00	6.62	7,290.00	782.00
900 x 300	16	28	28	309.8	240.00	2878	411,000	12,600	36.00	6.39	9,140.00	843.00
350 x 350	12	19	20	173.9	137	1644	40,300	13,600	15.2	8.84	2,300.00	776.00
400 x 400	13	21	22	218.7	172	-	66,600	22,400	17.5	10.1	3,330.00	1,120.00

NOTE: Non standard sizes are available upon request and subject to minimum quantity.

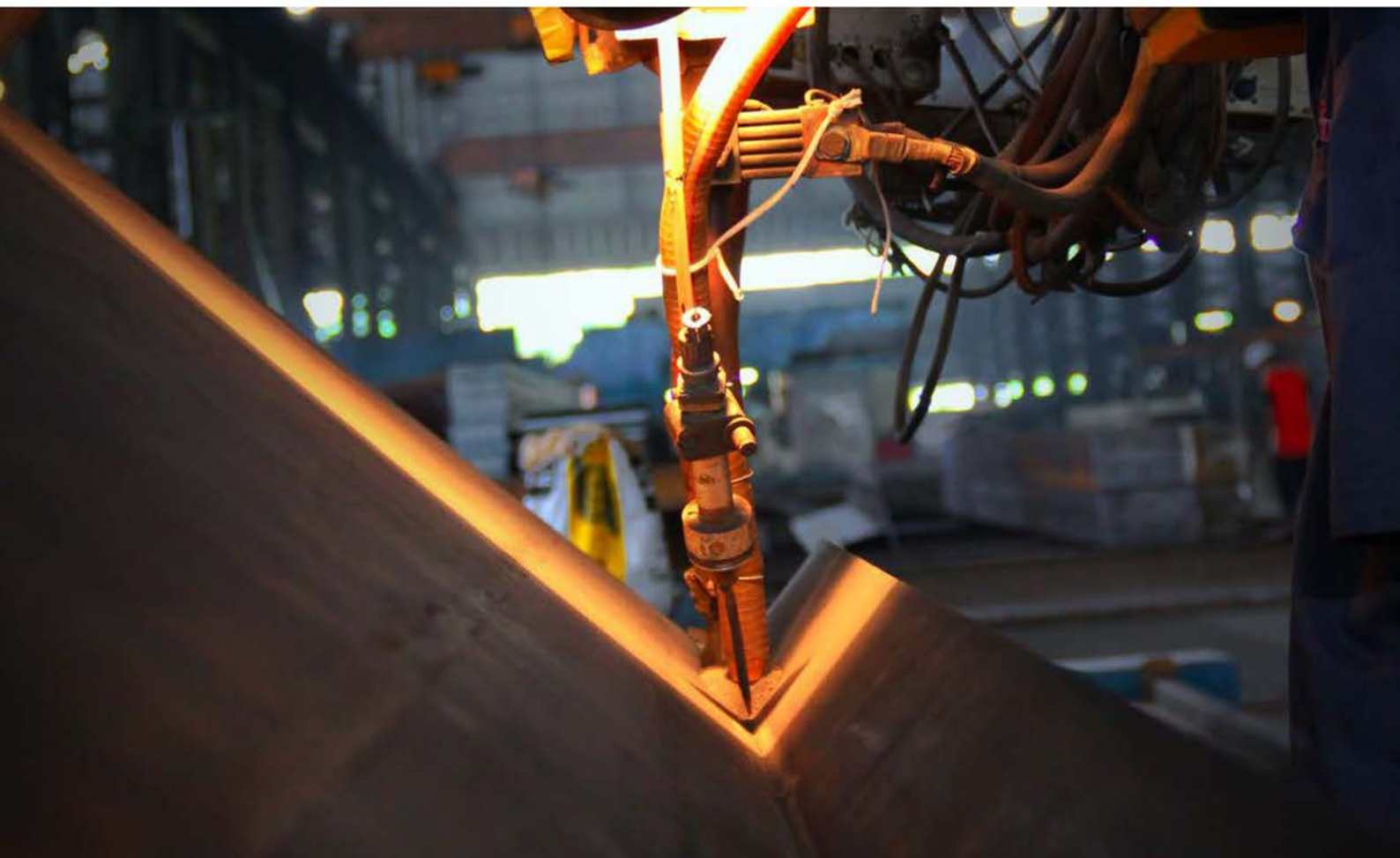
Structural steel, welded I-Sections to AS/NZS 3679.2

Structural Section	Range	300	300L15	400	400L15	350	350L15
		✓	✓	✓	✓	✓	✓
Beams	700WB to 1200WB with web thicknesses 10 to 16mm	✓	✓	✓	✓	✓	✓
Columns	350WC to 500WC with web thickness 16 to 40mm	✓	✓	✓	✓	✓	✓

Cert. No. 171203 T 1011

Designation	Depth of section (d) mm	Flange		Web Thickness (tw) mm	Depth between flanges (d1) mm
		Width (bf) mm	Thickness (tf) mm		
1200 WB	455	1200	500	40.0	16.0
	423	1192	500	36.0	16.0
	392	1184	500	32.0	16.0
	342	1184	400	32.0	16.0
	317	1176	400	28.0	16.0
	278	1170	350	25.0	16.0
	249	1170	275	25.0	16.0
1000 WB	322	1024	400	32.0	16.0
	296	1016	400	28.0	16.0
	258	1010	350	25.0	16.0
	215	1000	300	20.0	16.0
900 WB	282	924	400	32.0	12.0
	257	916	400	28.0	12.0
	218	910	350	25.0	12.0
	175	900	300	20.0	12.0
800 WB	192	816	300	28.0	10.0
	168	810	275	25.0	10.0
	146	800	275	20.0	10.0
	122	792	250	16.0	10.0
700 WB	172	716	275	28.0	10.0
	150	710	250	25.0	10.0
	130	700	250	20.0	10.0
	115	692	250	16.0	10.0

Designation	Depth of section (d) mm	Flange		Web Thickness (tw) mm	Depth between flanges (d1) mm
		Width (bf) mm	Thickness (tf) mm		
500 WC	440	480	500	40.0	40.0
	414	480	500	40.0	32.0
	383	472	500	36.0	32.0
	340	514	500	32.0	25.0
	290	506	500	28.0	20.0
	267	500	500	25.0	20.0
	228	490	500	20.0	20.0
400 WC	362	430	400	40.0	40.0
	328	430	400	40.0	28.0
	303	422	400	36.0	28.0
	270	414	400	32.0	25.0
	212	400	400	25.0	20.0
	181	390	400	20.0	20.0
	144	382	400	16.0	16.0
350 WC	280	355	350	40.0	28.0
	258	347	350	36.0	28.0
	230	339	350	32.0	25.0
	197	331	350	28.0	20.0





## Lipped Channel

### Standard Material:

JIS G 3131 SPHC,  
SAE 1006 / SAE 1008

### Std Dimensional Tolerances:

JIS G 3350

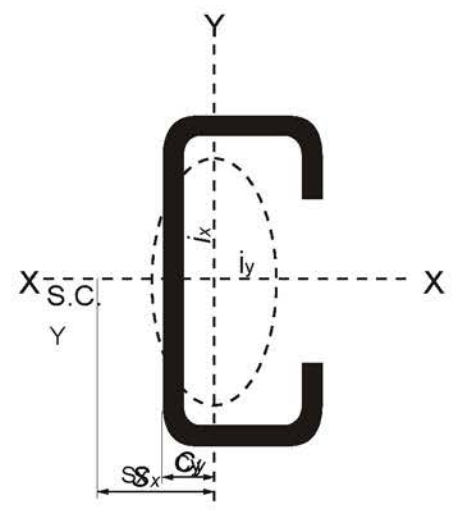
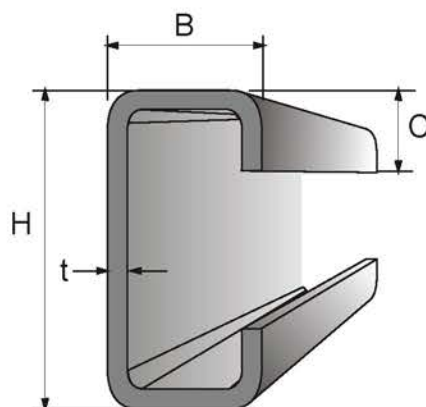
### Available Size:

CNP 100 x 50 x 2.0 mm up  
to CNP 200 x 75 x 3.2 mm

### Annual Capacity:

35.000 MT/Year

Lipped Channel is the ultimate alternative instead of Hot / Cold Rolled channel which has the same advantages such as reduced thickness and cost-effectiveness. Lipped Channels are often used for steel structures, storage areas, pollution control devices, and a variety of other architectural needs.





JIS G 3131 / ASTM 830

Metric Size

Dimension		Section Area	Unit Weight	Informative Reference									
				Geometrical Moment of Inertia		Modulus of Section		Modulus of Gyration		Center of Gravity	Shear Center	Torsion Constant	Warping Constant
H x B x C mm	t mm	A cm <sup>2</sup>	Kg /m	I <sub>x</sub> cm <sup>4</sup>	I <sub>y</sub> cm <sup>4</sup>	Z <sub>x</sub> cm <sup>3</sup>	Z <sub>y</sub> cm <sup>3</sup>	r <sub>x</sub> cm	r <sub>y</sub> cm	C <sub>y</sub> cm	X <sub>o</sub> cm	J cm <sup>4</sup>	C <sub>w</sub> cm <sup>6</sup>
C 100 x 50 x 20	2	4.54	3.56	71	17	14.3	5.4	3.97	1.93	1.87	4.48	605	444
	2.3	5.17	4.06	81	19	16.1	6	3.95	1.92	1.86	4.46	912	496
	2.5	5.59	4.39	87	20	17.3	6.5	3.94	1.9	1.86	4.45	1164	528
	2.8	6.2	4.87	95	22	19.1	7.1	3.92	1.89	1.86	4.42	1621	574
	3	6.61	5.19	101	23	20.2	7.4	3.91	1.88	1.86	4.41	1982	603
C 125 x 50 x 20	3.2	7.01	5.5	106	24	21.3	7.8	3.9	1.87	1.86	4.4	2392	630
	2	5.04	3.95	120	18	19.3	5.5	4.89	1.91	1.69	4.15	672	675
	2.3	5.75	4.51	136	21	21.8	6.2	4.87	1.89	1.69	4.12	1013	755
	2.5	6.21	4.88	147	22	23.5	6.6	4.86	1.88	1.69	4.11	1295	805
	2.8	6.9	5.42	162	24	25.9	7.2	4.84	1.86	1.69	4.08	1804	877
C 150 x 50 x 20	3	7.36	5.78	172	25	27.5	7.6	4.83	1.85	1.69	4.07	2207	922
	3.2	7.81	6.13	181	27	29	8	4.82	1.84	1.68	4.05	2665	965
	2	5.54	4.35	185	19	24.7	5.6	5.79	1.87	1.55	3.86	738	971
	2.3	6.32	4.96	210	22	28	6.3	5.77	1.86	1.55	3.84	1115	1088
	2.5	6.84	5.37	226	23	30.2	6.8	5.75	1.85	1.55	3.82	1425	1162
C 150 x 65 x 20	2.8	7.6	5.97	250	26	33.3	7.4	5.73	1.83	1.54	3.8	1987	1267
	3	8.11	6.37	265	27	35.4	7.8	5.72	1.82	1.54	3.78	2432	1334
	3.2	8.61	6.76	280	28	37.4	8.2	5.71	1.81	1.54	3.77	2938	1398
	2	6.14	4.82	218	36	29.1	8.3	5.96	2.43	2.12	5.19	818	1784
	2.3	7.01	5.5	248	41	33	9.4	5.94	2.42	2.12	5.16	1236	2006
C 200 x 75 x 20	2.5	7.59	5.96	267	44	35.6	10	5.93	2.41	2.12	5.15	1581	2148
	2.8	8.44	6.63	295	48	39.4	11	5.91	2.39	2.12	5.13	2207	2352
	3	9.01	7.07	314	51	41.8	11.6	5.9	2.38	2.11	5.11	2702	2482
	3.2	9.57	7.51	332	54	44.2	12.2	5.89	2.37	2.11	5.09	3265	2608
	2	7.54	5.92	467	56	46.7	10.6	7.87	2.73	2.2	5.49	1005	4571
C 200 x 75 x 20	2.3	8.62	6.77	531	64	53.1	12	7.85	2.72	2.2	5.47	1520	5159
	2.5	9.34	7.33	573	68	57.3	12.9	7.84	2.71	2.2	5.45	1946	5537
	2.8	10.4	8.17	636	75	63.6	14.2	7.82	2.69	2.2	5.42	2719	6085
	3	11.11	8.72	676	80	67.6	15	7.8	2.68	2.19	5.41	3332	6437
	3.2	11.81	9.27	716	84	71.6	15.8	7.79	2.67	2.19	5.39	4030	6779

Technical Specification Material : JIS G 3131 / ASTM 830, Symbol : SPHC/ SAE 1006/ SAE 1008  
Standard length : 6 Meters, Dimension Tolerance : JIS G 3350

Note: Non standard sizes are available upon request and subject to minimum quantity

SNI 07-0138-1987

Dimension		Section Area	Unit Weight	Informative Reference									
				Geometrical Moment of Inertia		Modulus of Section		Modulus of Gyration		Center of Gravity	Shear Center	Torsion Constant	Warping Constant
H x B x C mm	t mm	A cm <sup>2</sup>	Kg /m	I <sub>x</sub> cm <sup>4</sup>	I <sub>y</sub> cm <sup>4</sup>	Z <sub>x</sub> cm <sup>3</sup>	Z <sub>y</sub> cm <sup>3</sup>	r <sub>x</sub> cm	r <sub>y</sub> cm	C <sub>y</sub> cm	X <sub>o</sub> cm	J cm <sup>4</sup>	C <sub>w</sub> cm <sup>6</sup>
C 100 x 50 x 20	2.0	4.437	3.56	71	17	14.3	5.4	3.97	1.93	1.87	4.48	605	444
	2.3	5.172	4.06	81	19	16.1	6.0	3.95	1.92	1.86	4.46	912	496
	2.8	6.205	4.87	95	22	19.1	7.1	3.92	1.89	1.86	4.42	1621	574
	3.2	7.007	5.50	106	24	21.3	7.8	3.90	1.87	1.86	4.40	2392	630
C 125 x 50 x 20	2.3	5.747	4.51	136	21	21.8	6.2	4.87	1.89	1.69	4.12	1013	755
	3.2	7.807	6.13	181	27	29.0	8.0	4.82	1.84	1.68	4.05	2665	965
C 150 x 50 x 20	2.3	6.32	4.96	210	22	28.0	6.3	5.77	1.86	1.55	3.84	1115	1088
	3.2	8.607	6.76	280	28	37.4	8.2	5.71	1.81	1.54	3.77	2938	1398
C 150 x 65 x 20	2.3	7.01	5.50	248	41	33.0	9.4	5.94	2.42	2.12	5.16	1236	2006
	3.2	9.57	7.51	332	54	44.2	12.2	5.89	2.37	2.11	5.09	3265	2608
C 200 x 75 x 20	3.2	11.81	9.27	716	84	71.6	15.8	7.79	2.67	2.19	5.39	4030	6779

Chemical Composition		Mechanical Properties		Tolerance	
• Carbon (C)	: 0.25 % max	• Tensile Strength	: 176.4 N/mm <sup>2</sup> min	• Thickness ≤ 2.3 mm	: ± 0.24 mm
• Phosphor (p)	: 0.05 % max	• Yield Strength	: 333.2 N/mm <sup>2</sup> min	• Thickness > 2.3 mm	: ± 0.3 mm
• Sulfur (s)	: 0.05 % max	• Elongation	: 21 % min	• High (H) ≤ 125 mm	: ± 1.5 mm
				• High (H) > 125 mm	: ± 2.0 mm
				• Width (B) ≤ 75 mm	: ± 2.0 mm
				• Lip (C) ≤ 25 mm	: ± 2.0 mm
				• Length 6 - 7 M	: ± 40 mm



## ERW Pipe

(Electric Resistance  
Welded Pipe)



With many different application and uses that can be achieved from using round pipe products, at GRP we manufactured our pipe from 2 3/8" OD in a variety of length to over 100 feet using Electric Resistance Welding (ERW) methods.

As we strive to maintain to the highest standard quality, our ERW tubular pipe complied with different local and international standard specifications for its varying application requirements.

The surface finish for this product is available in bare or in coated form and the processing will be carried out in our facility. For the application carrying flow of water / liquid material, we can also perform hydrostatic testing on the products to ensure leakage-proof in its operations.

### Standard & Specification:

ASTM A53 (A), BS 1387 : 1985  
Heavy Series (H)  
Medium Series (M)  
Light Series (L)  
BS EN 10255 : 2004 (E)  
JIS G 3444 STK 290,

JIS G 3444 STK 400,  
JIS G 3445 STKM 11 A, STKM 12 A  
JIS G 3452 SGP Black And Galvanized Pipe,  
JIS G 3454 STPG 370,  
SNI 07 – 0068 – 2007 PKB 30,  
SNI 07 – 0068 2007 PKB 41

### Available Size:

1 inch OD to 6 inch OD  
(Outside Diameter)  
Thickness 2mm-6mm

### Annual Capacity:

70.000 MT/Year

**ASTM A 53 (A)**

Normal Size		Outside Diameter (mm)	Thickness (mm)	Sch	Test Pressure	
DN	NPS				Psi	Kg/cm <sup>2</sup>
25	1"	33,4	3,38	40	700	49
32	1 1/4"	42,2	3,56	40	1200	85
40	1 1/2"	48,3	3,68	40	1200	85
50	2"	60,3	3,91	40	2300	161
65	12/2"	73	5,16	40	2500	175
80	3"	88,9	3,18	-	1290	91
			3,96	-	1600	112
			4,78	-	1930	136
			5,49	40	2220	156
100	4"	114,3	3,18	-	1000	70
			3,96	-	1250	88
			4,78	-	1500	105
			5,56	-	1750	123
			6,02	40	1900	134

**Chemical composition**

Carbon (C)	: 0.25 % max
Phosphor (p)	: 0.05 % max
Sulphur (s)	: 0.045 % max

**Mechanical properties**

Tensile Strength	: 330 N/mm <sup>2</sup> Min
Yield Strength	: 205 N/mm <sup>2</sup> Min
Elongation	: 22% min

**tolerance**

Thickness	: ± 12.5%
Outside Diameter	
OD ≤ 48.3 mm	: ± 0.4 mm
OD ≥ 60.3 mm	: ± 1 %

**BS 1387:1985**

Light (L)

Normal Size		Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R	Max (mm)	Min (mm)		Psi	BAR
25	1	33,8	33,2	2,6	730	50
32	1 1/4	42,5	41,9	2,6	730	50

**Chemical composition**

Carbon (C)	: 0.20 % max
Phosphor (p)	: 0.045 % max
Sulphur (s)	: 0.045 % max

**Mechanical properties**

Tensile Strength	: 320 ~ 460 N/mm <sup>2</sup>
Yield Strength	: 195 N/mm <sup>2</sup> Min
Elongation	: 20% min

**Tolerance**

Thickness light tubes	: - 8%
Medium and heavy tubes	: - 10%

**BS 1387:1985**

Medium Series (M)

Normal Size		Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R	Max (mm)	Min (mm)		Psi	BAR
32	1 1/4	42,9	42,1	3,2	730	50
40	1 1/2	48,8	48	3,2	730	50
50	2	60,8	59,8	3,6	730	50
65	2 1/2	76,6	75,4	3,6	730	50
80	3	89,5	88,1	4,0	730	50
100	4	114,9	113,3	4,5	730	50
125	5	140,6	138,7	5,0	730	50
150	6	166,1	164,1	5,0	730	50

**BS 1387:1985**

Heavy (H)

Normal Size		Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R	Max (mm)	Min (mm)		Psi	BAR
65	2 1/2	76,6	75,4	4,5	730	50
80	3	89,5	88,1	5,0	730	50
100	4	114,9	113,3	5,4	730	50
125	5	140,6	138,7	5,4	730	50
150	6	166,1	164,1	5,4	730	50

**BS EN 10255:2004 (E)**

Type L

Nominal Size		Specified Outside Diameter (mm)	Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R		Max (mm)	Min (mm)		Psi	BAR
25	1	33.7	34.2	33.3	2.9	730	50
32	1 1/4	42.4	42.9	42	2.9	730	50
40	1 1/2	48.3	48.8	47.9	2.9	730	50
50	2	60.3	60.8	59.7	3.2	730	50
65	2 1/2	76.1	76.6	75.3	3.2	730	50
80	3	88.9	89.5	88	3.2	730	50
100	4	114.3	115	113.1	3.6	730	50
125	5	139.7	140.8	138.5	4.5	730	50
150	6	165.1	166.5	163.9	4.5	730	50

Type L2

Nominal Size		Specified Outside Diameter (mm)	Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R		Max (mm)	Min (mm)		Psi	BAR
25	1	33.7	34.2	33.3	2.6	730	50
32	1 1/4	42.4	42.9	42	2.6	730	50
40	1 1/2	48.3	48.8	47.9	2.9	730	50
50	2	60.3	60.8	59.7	2.9	5	50
65	2 1/2	76.1	76.6	75.3	3.2	730	50
80	3	88.9	89.5	88	3.2	730	50
100	4	114.3	115	113.1	3.6	730	50

Type LI

Nominal Size		Specified Outside Diameter (mm)	Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R		Max (mm)	Min (mm)		Psi	BAR
25	1	33.7	34.2	33.3	2.9	730	50
32	1 1/4	42.4	42.9	42	2.9	730	50
40	1 1/2	48.3	48.8	47.9	2.9	730	50
50	2	60.3	60.8	59.7	3.2	730	50
65	2 1/2	76.1	76.6	75.3	3.2	730	50
80	3	88.9	89.5	88	3.6	730	50
100	4	114.3	115	113.1	4.0	730	50

Heavy Series (H)

Nominal Size		Specified Outside Diameter (mm)	Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R		Max (mm)	Min (mm)		Psi	BAR
50	2	60.3	60.8	59.7	4.5	730	50
65	2 1/2	76.1	76.6	75.3	4.5	730	50
80	3	88.9	89.5	88	5.0	730	50
100	4	114.3	115	113.1	5.4	730	50
125	5	139.7	140.8	138.5	5.4	730	50
150	6	165.1	166.5	163.9	5.4	730	50

**BS EN 10255:2004 (E)**

Medium Series (M)

Nominal Size		Specified Outside Diameter (mm)	Outside Diameter		Wall Thickness T (mm)	Hydrostatic Test	
DN (mm)	Thread Size R		Max (mm)	Min (mm)		Psi	Bar
25	1	33.7	34.2	33.3	3.2	730	50
32	1 1/4	42.4	42.9	42	3.2	730	50
40	1 1/2	48.3	48.8	47.9	3.2	730	50
50	2	60.3	60.8	59.7	3.6	730	50
65	2 1/2	76.1	76.6	75.3	3.6	730	50
80	3	88.9	89.5	88	4.0	730	50
100	4	114.3	115	113.1	4.5	730	50
125	5	139.7	140.8	138.5	5.0	730	50
150	6	165.1	166.5	163.9	5.0	730	50



**JIS G 3444 STK 290**

Outside Diameter (mm)	Thickness (mm)	Cros Sectional Area cm <sup>2</sup>
34	2,3	2,291
42,7	2,3	2,919
	2,5	3,157
48,6	2,3	3,345
	2,5	3,621
	2,8	4,029
60,5	3,2	4,564
	2,3	4,205
	3,2	5,760
76,3	4,0	7,100
	2,8	6,495
	3,2	7,349
89,1	4,0	9,085
	2,8	7,591
114,3	3,2	8,636
	3,2	11,17
139,8	3,5	12,18
	4,5	15,52
	3,6	15,4
165,2	4,0	17,07
	4,5	19,13
	6,0	25,22
	4,5	22,72
165,2	5,0	25,16
	6,0	30,01
	7,1	35,26

NOTE : Non standard sizes are available upon request and subject to minimum quantity.

**Chemical composition**

Posphor (p)	: 0.05 % max
Sulphur (s)	: 0.05 % max

**Mechanical properties**

Tensile Strength	: 290 N/mm <sup>2</sup> Min
Yield Strength	: -
Elongation	:
>1mm to 2mm	: 21%
>2mm to 3mm	: 22%
>3mm to 4mm	: 24%
>4mm to 5mm	: 26%
>5mm to 6mm	: 27%
>6mm to 7mm	: 28%

**Tolerance**

Thickness < 4 mm	: + 0.6%
	- 0.5 mm
4 mm to 12 mm	: + 15 %
	- 12.5 %
Length	: + Not specified
	- 0 mm
Outside Diameter	:
OD < 50 mm	: ± 0.5 mm
OD ≥ 50mm	: ± 1 %



**JIS G 3444 STK 400**

Outside Diameter (mm)	Thickness (mm)	Cros Sectional Area cm <sup>2</sup>
48,6	2,3	3,345
	2,5	3,621
	2,8	4,029
60,5	2,3	4,205
	3,2	5,760
76,3	2,8	6,495
	3,2	7,349
	2,8	7,591
89,1	2,8	7,591
	3,2	8,636
	3,2	11,17
114,3	3,2	11,17
	3,5	12,18
	4,5	15,52
139,8	3,6	15,4
	4,0	17,07
	4,5	19,13
165,2	4,5	22,72
	5,0	25,16
	6,0	30,01

NOTE : Non standard sizes are available upon request and subject to minimum quantity.

**SNI 07-0068-1987 PKB 30**

Nominal Size		Outside Diameter (mm)	Thickness (mm)	Cross Sectional Area cm <sup>2</sup>
A	B			
25	1"	34	2.3	2.291
32	1 1/4"		2.3	2.919
40	1 1/2"	42.7	2.8	3.157
			2.3	3.345
			2.8	4.029
50	2"	48.6	3.2	4.564
			2.3	4.205
			3.2	5.760
			4.0	7.100
65	2 1/2"	60.5	2.8	6.465
			3.2	7.439
			4.0	9.085
80	3"	76.3	2.8	7.591
			3.2	8.936
			4.0	10.690
100	4"	89.1	3.2	11.170
			3.6	12.520
			4.5	15.520
125	5"	114.3	3.6	15.400
			4.0	17.070
			4.5	19.130
			6.0	25.220
150	6"	139.8	4.5	22.720
			5.0	25.160
			6.0	30.010
			7.0	34.790

NOTE : Non standard sizes are available upon request and subject to minimum quantity.

**Chemical composition**

Carbon (C)	: 0.25 % max
Phosphor (p)	: 0.04 % max
Sulphur (s)	: 0.04 % max

**Mechanical properties**

Tensile Strength	: 400 N/mm <sup>2</sup> Min
Yield Strength	: 235 N/mm <sup>2</sup> Min
Elongation	:
>1mm to 2mm	: 14%
>2mm to 3mm	: 16%
>3mm to 4mm	: 17%
>4mm to 5mm	: 18%
>5mm to 6mm	: 20%
>6mm to 7mm	: 22%

**Tolerance**

Thickness <4mm	: + 0,6 mm - 0,5 mm
4 mm to 12 mm	: + 15 % - 12,5 %
Length	: + 50 mm - 0 mm
Outside Diameter	
OD < 50 mm	: + Not specified ± 0,5 mm
OD ≥ 50mm	: ± 1 %

**Chemical Composition**

• Phosphor (p)	: 0.05 % max
• Sulfur (s)	: 0.05 % max

**Mechanical Properties**

• Tensile Strength	: 294 N/mm <sup>2</sup> min
• Yield Strength	: -
• Elongation	: 21 % min

**Tolerance**

• Thickness < 3 mm	: ± 0.3mm
3 mm s/d 12 mm	: ± 10 %
• Length	: ± 2 %
• Outside Diameter	
OD ≤ 50 mm	: ± 0.5 mm
OD ≥ 50 mm	: ± 1 %
Standard length of pipe	: 6000 mm

## SNI 07-0039-1987 (Medium)

## Galvanized Pipe

Nominal Size		Outside Diameter (mm)	Thickness (mm)	Cross Sectional Area cm <sup>2</sup>
A	B			
32	1 1/4"	42.7	2.8	3.510
40	1 1/2"	48.6	2.8	4.029
			3.2	4.564
50	2"	60.5	2.3	4.205
			3.2	5.760
65	2 1/2"	76.3	2.8	6.465
			3.2	7.349
80	3"	89.1	2.8	7.591
			3.2	8.936
100	4"	114.3	3.2	11.170
			3.6	12.520
			3.6	15.400
125	5"	139.8	4.0	17.070
			4.5	19.130
			6.0	23.600
150	6"	165.2	4.5	22.720
			5.0	25.160
			6.0	30.010
			7.0	34.790

## Chemical Composition

- Carbon (C) : 0.25 % max
- Phosphor (p) : 0.04 % max
- Sulfur (s) : 0.04 % max

## Mechanical Properties

- Tensile Strength : 402 N/mm<sup>2</sup> min
- Yield Strength : 235 N/mm<sup>2</sup> min
- Elongation : 14 % min

## Tolerance

- Thickness < 3 mm : ± 0.3mm
- 3 mm s/d 12 mm : ± 10 %
- Length : ± 2 %
- Outside Diameter
  - OD ≤ 50 mm : ± 0.5 mm
  - OD ≥ 50 mm : ± 1 %
- Standard length of pipe : 6000 mm

## SNI - 07 - 0039 - 1987 (Medium)

## Galvanized Pipe

Nominal Size		Outside Diameter (mm)		Thickness (mm)	Test Pressure	
A	B	Max	Min		Psi	Kgf/cm <sup>2</sup>
25	1"	34.2	33.4	3.25	710	50
32	1 1/4"	42.9	42.1	3.25	710	50
40	1 1/2"	48.80	48.0	3.25	710	50
50	2"	60.8	59.8	3.65	710	50
65	2 1/2"	76.6	75.4	3.65	710	50
80	3"	89.5	88.1	4.05	710	50
100	4"	114.9	113.3	4.5	710	50
125	5"	140.6	138.7	4.85	710	50
250	6"	166.1	164.1	4.9	710	50

## Chemical Composition

- Phosphor (p) : 0.05 % max
- Sulfur (s) : 0.05 % max

## Mechanical Properties

- Tensile Strength : 33 Kgf/mm<sup>2</sup> min
- Elongation : 20 % min

## Tolerance

- Thickness : + Unlimited  
: - 10%
- Length : ± 2 %
- Weight with zinc : 300 gr/m<sup>2</sup>  
Standard length of pipe : 6000 mm

## JIS G3452 SGP

## Black Galvanized Pipe

Normal Size		Outside Diameter (mm)	Thickness (mm)	Test Pressure	
A	B			Psi	Kgf/cm <sup>2</sup>
25	1"	34	3,2	365	25
32	1 1/4"	42,7	3,5	365	25
40	1 1/2"	48,6	3,5	365	25
50	2"	60,5	3,8	365	25
65	2 1/2"	76,3	4,2	365	25
80	3"	89,1	4,2	365	25
100	4"	114,3	4,5	365	25
125	5"	139,8	4,5	365	25
150	6"	165,2	5,0	365	25

## Chemical composition

- Phosphor (p) : 0.04 % max
- Sulphur (s) : 0.04 % max

## Mechanical properties

- Tensile Strength : 290 N/mm<sup>2</sup> Min
- Elongation :
- Over 3mm up to and incl 4mm : 24%
- Over 3mm up to and incl 4mm : 26%

## Tolerance

- Thickness : + Not specified  
: - 12.5%
- Outside Diameter :
- OD < 50 mm : ± 0.5 mm
- OD ≥ 50mm : ± 1 %
- Weight with Zinc 400 gr/m<sup>2</sup>

NOTE : Non standard sizes are available upon request and subject to minimum quantity.

## JIS G 3445

## Carbon Steel Tube For Machine Structural Purposes

Outside Diameter (mm)	STKM 11 A	STKM 13 A	STKM 14 A
	Tch (mm)	Tch (mm)	Tch (mm)
33,4	2 sd 3.2	2 sd 3.2	2 sd 2.2
42,2	2 sd 3.4	2 sd 3.4	2 sd 2.5
48,3	2 sd 3.6	2 sd 3.6	2 sd 2.8
60,3	2 sd 4.0	2 sd 4.0	2 sd 3.2
73	2 sd 4.85	2 sd 4.85	2 sd 3.4
76	2 sd 4.85	2 sd 4.85	2 sd 3.4
88,9	2 sd 5.2	2 sd 5.2	2 sd 3.6
114,3	2.5 sd 5.8	2.5 sd 5.8	2.5 sd 4.5
139,8	3.6 sd 6.5	3.6 sd 6.5	3.6 sd 6.0
165,2	3.6 sd 7.0	3.6 sd 7.0	3.6 sd 6.5

Note: Non standard sizes are available upon request and subject to minimum quantity.

Grade	Designation	Chemical composition %					Mechanical Property						
		C Max	Si Max	Mn Max	P Max	S Max	Tensile test				Flatning test (D:Outside diameter)	Bending test	
							Ts Min N/mm <sup>2</sup>	Ys Min N/mm <sup>2</sup>	El Min (%)			Bending angle	Inside radius
									Test no 12	Test no 5			
Grade 11	A STKM 11 A	0,12	0,35	0,6	0,04	0,04	290	-	35	30	¼ D	180°	4 D
Grade 13	A STKM 13 A	0,25	0,35	0.3 to 0.9	0,04	0,04	370	215	30	25	¼ D	90°	6 D
Grade 14	A STKM 14 A	0,3	0,35	0.3 to 1.0	0,04	0,04	410	245	25	20	¼ D	90°	6 D

## Elongation of tubes with a wall thickness under 8mm

Grade	Symbol of grade	Test piece	Wall Thickness						
			>1mm to 2mm	>2mm to 3mm	>3mm to 4mm	>4mm to 5mm	>5mm to 6mm	>6mm to 7mm	
Grade 11	A	STKM 11 A	Test piece no.5	21 Min	22 Min	24 Min	26 Min	27 Min	28 Min
			Test piece no.12	26 Min	28 Min	29 Min	30 Min	32 Min	34 Min
Grade 13	A	STKM 13 A	Test piece no.5	16 Min	18 Min	19 Min	20 Min	22 Min	24 Min
			Test piece no.12	21 Min	22 Min	24 Min	26 Min	27 Min	28 Min
Grade 14	A	STKM 14 A	Test piece no.5	11 Min	12 Min	14 Min	16 Min	17 Min	18 Min
			Test piece no.12	16 Min	18 Min	19 Min	20 Min	22 Min	24 Min

## Standar Tolerances

Division	Tolerances on outside diameter	Division	Tolerances on wall thickness
1	Under 50 mm	1	Under 4 mm
	50 mm or ofer		+ 0.6 mm
2	Under 50 mm	1	4 mm or over
	50 mm or ofer		- 0.5 mm
3	Under 25mm	2	Under 3 mm
	25 mm or over to and excl. 40mm		+ 15 %
	40 mm or over to and excl. 50 mm		- 12.5 %
	50 mm or over to and excl. 60 mm		± 0.12 mm
	60 mm or over to and excl. 70 mm		± 0.15 mm
	70 mm or over to and excl. 80 mm		± 0.18 mm
	80 mm or over to and excl. 90 mm		± 0.2 mm
	90 mm or over to and excl. 100 mm		± 0.23 mm
	100 mm or over		± 0.25 mm
	Tolerances		± 0.3 mm
3	Under 2 mm	3	Under 2 mm
	2 mm or over		± 0.15 mm
			± 8 %
			+50
			-0

\* If there are no found special agreement between the order and manufacturer while processing the order, Then for the tolerance outside the diameter will be applied the rule no. 1, and the tolerance of wall thickness would be the rule no. 2.



**SNI 0039 2013**

## Galvanized Pipe &amp; Black Pipe ( Tipes )

Diameter dalam Normal		Diameter luar (mm)			Thickness (mm)	Test Pressure	
(mm)	(inci)	Normal	Max	Min		Psi	Kgf/cm <sup>2</sup>
25	1"	33,6	34	33,2	2,6	710	50
32	1 1/4"	42,3	42,7	41,9	2,6	710	50
40	1 1/2"	48,20	48,60	47,8	2,9	710	50
50	2"	60,2	60,8	59,6	2,9	710	50
65	2 1/2"	76	76,7	75,2	3,2	710	50
80	3"	88,8	89,7	87,9	3,2	710	50
100	4"	114,1	115,3	113	3,6	710	50
125	5"	139,7	140,5	137,7	3,6	710	50
150	6"	165,1	166,8	163,4	3,6	710	50

## Chemical Composition

Carbon (C)	: 0.2 % max
Mangan (Mn)	: 1.4 % max
Posphor (p)	: 0.035 % max
Belerang (s)	: 0.03 % max

## Mechanical properties

Tensile Strength	: 33 sd 47 kgf/mm <sup>2</sup>
Yield Strength	: 20 kgf/mm <sup>2</sup> min
Elongation	: 20% min

## Tolerance

Pipe Standard Length	: 6000 mm
	: 12000 mm
Length 6 m	: + 100
	: - 0
Length 12 m	: + 100
	: - 0
Weight with Zinc 300 gr/m <sup>2</sup>	:

**SNI 0039 2013**

## Galvanized Pipe &amp; Black Pipe ( Medium )

Diameter dalam Normal		Diameter luar (mm)			Thickness (mm)	Test Pressure	
(mm)	(inci)	Normal	Max	Min		Psi	Kgf/cm <sup>2</sup>
25	1"	33,7	34,2	33,3	3,2	710	50
32	1 1/4"	42,4	42,9	42	3,2	710	50
40	1 1/2"	48,30	48,80	47,9	3,2	710	50
50	2"	60,3	60,8	59,7	3,6	710	50
65	2 1/2"	76,1	76,6	75,3	3,6	710	50
80	3"	88,9	89,5	88	4	710	50
100	4"	114,3	115	113,1	4,5	710	50
125	5"	139,7	140,8	138,5	5	710	50
150	6"	165,1	166,5	163,9	5	710	50

Pipa Tipes		
• Tebal	:	+ 10%
	:	- 8%
Pipa Medium		
• Tebal	:	+ 15%
	:	- 10%
Pipa Medium		
• Tebal	:	+ 15%
	:	- 12.5%

**SNI 0039 2013**

## Galvanized Pipe &amp; Black Pipe ( Tebal )

Diameter dalam Normal		Diameter luar (mm)			Thickness (mm)	Test Pressure	
(mm)	(inci)	Normal	Max	Min		Psi	Kgf/cm <sup>2</sup>
65	2 1/2"	76	76,6	75,4	4,5	710	50
80	3"	88,8	89,5	88,1	5	710	50
100	4"	114,1	114,9	113,3	6,0	710	50
125	5"	139,7	142,7	138,7	6,6	710	50

**SNI 0068 : 2013 PKB ( STK ) - 290**

Outside Diameter (mm)	Thickness (mm)	Cros Sectional Area cm <sup>2</sup>
34	2,3	2,291
42,7	2,3	2,919
	2,5	3,157
48,6	2,3	3,345
	2,8	4,029
60,5	3,2	4,564
	2,3	4,205
60,5	3,2	5,760
	4,0	7,100
76,3	2,8	6,465
	3,2	7,349
76,3	4,0	9,085
	2,8	7,591
89,1	3,2	8,636
	4,0	10,690
114,3	3,2	11,170
	3,6	12,520
114,3	4,5	15,520
	5,6	19,120
139,8	3,6	15,400
	4,0	17,070
139,8	4,5	19,130
	6,0	25,220
165,2	4,5	22,720
	5,0	25,160
165,2	6,0	30,010
	7,0	34,790

**Chemical Composition**

Posphor (p)	: 0.05 % max
Belerang (s)	: 0.05 % max

**Mechanical properties**

Tensile Strength	: 294 n/mm <sup>2</sup> Min
Yield Strength	: -
Elongation	: 30 % Min

Uji tarik untuk pipa dengan tebal kurang dari 8mm di lakukan dengan batang uji No.12 atau No.5, nilai minimum elongasi dapat di hitung dengan mengurangi elongasi tersebut dengan laju pengurangan 1.5% per 1mm

**Tolerance**

Thickness < 4 mm	: ± 0.6 mm - 0.5 mm
4 mm s/d 12 mm	: + 15 % - 12.5 %
Length	: + 50 mm - 0 mm
Outside Diamentor	:
OD < 50 mm	: ± 0.5 mm
OD ≥ 50mm	: ± 1 %

Panjang Standard Pipa = 6000 mm dan 12000 mm

**SNI 0068 : 2013 PKB ( STK ) - 400**

Outside Diameter (mm)	Thickness (mm)	Cros Sectional Area cm <sup>2</sup>
48,6	2,3	3,345
	2,8	4,029
60,5	2,3	4,205
	3,2	5,760
76,3	2,8	6,465
	3,2	7,349
89,1	2,8	7,591
	3,2	8,636
114,3	3,2	11,170
	3,6	12,520
114,3	4,5	15,520
	3,6	15,400
139,8	4,0	17,070
	4,5	19,130
165,2	4,5	22,720
	5,0	25,160
165,2	6,0	30,010

**Chemical Composition**

Posphor (p)	: 0.05 % max
Belerang (s)	: 0.05 % max

**Mechanical properties**

Tensile Strength	: 294 n/mm <sup>2</sup> Min
Yield Strength	: -
Elongation	: 30 % Min

Uji tarik untuk pipa dengan tebal kurang dari 8mm di lakukan dengan batang uji No.12 atau No.5, nilai minimum elongasi dapat di hitung dengan mengurangi elongasi tersebut dengan laju pengurangan 1.5% per 1mm

**Tolerance**

Thickness < 4 mm	: ± 0.6 mm - 0.5 mm
4 mm s/d 12 mm	: + 15 % - 12.5 %
Length	: + 50 mm - 0 mm
Outside Diamentor	:
OD < 50 mm	: ± 0.5 mm
OD ≥ 50mm	: ± 1 %

Panjang Standard Pipa = 6000 mm  
12000 mm





## Spiral Pipe



**EPD**<sup>®</sup>  
THE INTERNATIONAL EPD<sup>®</sup> SYSTEM

**Spiral Pipe** Our products are developed with advanced technology. We developed this product specifically for use on air systems with high speed and pressure. In addition, our Spiral Pipe is resistant to any wind pressure, either from the top or from the bottom. Our products have grain, crush, carbon monoxide drainage, and double wall for sound and heat insulation.

GRP produces our pipe with the automatic double-sided Submerged Arc Welding (S.A.W) technology to ensure the great consistency of our welding and the quality of our final product.

For a specific work project, we are able produce the spiral-welded steel pipes to suit different thickness and the diameter of up to 120" OD. In addition, we are able to provide additional coating services with different type of material to the pipe depending on the project's requirement.

**Standard & Specification:**

ASTM A-252 Gr.2

**Available Size:**

Ø 8" - Ø 120"

(Outside Diameter)

Thickness 6 - 22 mm

**Annual Capacity:**

89,400 MT/Year

**Standard & Specification:**

ASTM A-252 Gr.2

Outside Diameter		Thickness														
inch	mm	6	8	9	10	11	12	12.7	13	14	15	16	17	18	19	20
8	203.2	29.18	38.51	43.10	47.64	52.14	56.58	59.66	60.97	65.32	69.62	73.86	78.06	82.21	86.31	90.35
10	254	36.69	48.53	54.38	60.17	65.92	71.61	75.57	77.26	82.86	88.41	93.91	99.36	104.21	110.11	115.41
12	304.8	44.21	58.55	65.65	72.70	79.70	86.61	91.48	93.55	100.40	107.2	113.95	120.65	127.30	133.91	140.46
14	355.6	51.73	68.57	76.92	85.22	93.48	101.68	107.39	109.83	117.93	125.99	133.99	141.95	149.85	157.71	165.52
16	406.4	59.24	78.60	88.20	97.75	107.26	116.71	123.30	126.12	135.47	144.78	154.04	163.24	172.40	181.51	190.57
18	457.2	66.76	88.62	99.47	110.28	121.04	131.74	139.21	142.40	153.01	163.57	174.08	184.54	194.95	205.31	215.63
20	508	74.28	98.64	110.75	122.81	134.82	146.78	155.12	158.69	170.55	182.36	194.12	205.84	217.50	229.12	240.68
22	558.8	81.79	108.66	122.02	135.33	148.60	161.81	171.03	174.97	188.09	201.15	214.17	227.13	240.05	252.92	265.74
24	609.6	89.31	118.68	133.30	147.86	162.38	176.84	186.94	191.26	205.62	219.94	234.21	248.43	262.60	276.72	290.79
26	660.4	96.83	128.71	144.57	160.39	176.16	191.87	202.85	207.54	223.16	238.73	254.25	269.73	285.15	300.52	315.85
28	711.2	104.34	138.73	155.85	172.92	189.94	206.91	218.76	223.83	240.70	257.52	274.30	291.02	307.70	324.32	340.90
30	762	111.86	148.75	167.12	185.44	203.72	221.94	234.67	240.11	258.24	276.32	294.34	312.32	330.25	348.13	365.95
32	812.8	119.37	158.77	178.40	197.97	217.50	236.97	250.58	256.40	275.78	295.11	314.39	333.62	352.80	371.93	391.01
34	863.6	126.89	168.79	189.67	210.50	231.28	252.01	266.49	272.69	293.32	313.90	334.43	354.91	375.34	395.73	416.06
36	914.4	134.41	178.81	200.94	223.03	245.06	267.04	282.40	288.97	310.85	332.69	354.44	376.21	397.89	419.53	441.12
38	965.2	141.92	188.84	212.22	235.55	258.84	282.07	298.31	305.26	328.38	351.48	374.52	397.50	420.44	443.33	466.17
40	10116	149.44	198.86	223.49	248.08	272.62	297.10	314.22	321.54	345.93	370.27	394.56	418.80	442.99	467.13	491.23
42	1066.8	156.96	208.88	234.77	260.61	286.40	312.15	330.13	337.83	363.47	389.06	414.60	440.10	465.54	490.94	516.28
44	1117.6	164.47	218.9	246.04	273.13	300.18	327.17	346.03	354.11	381.01	407.85	434.65	461.39	488.09	514.74	541.34
46	1168.4	171.99	228.92	257.32	285.66	313.96	342.2	361.94	370.40	398.55	426.64	454.69	482.69	510.64	538.54	566.39
48	1219.2	179.51	238.95	268.59	298.19	327.74	357.23	377.85	386.68	416.08	445.43	474.74	503.99	533.19	562.34	591.45





With our ability to process materials that are assisted by the latest technology machines and qualified employees, proving that we can do all your requests.

**Plate Services Center (PSC)**

**Forming Services Center (FSC)**

**Coil Services Center (CSC)**

A large industrial machine, likely a metal processing or forming machine, is shown in a factory setting. The machine is complex, with various rollers, guides, and structural components. The background is a bright, clean industrial environment. The machine is partially obscured by a large, dark, diagonal shape that cuts across the image, creating a sense of depth and focus on the machinery.

# Service Center

With facilities spanning over 51.428 sqm, the Plate Service Center (PSC) brings to you the highest quality of service in steel manufacturing and fabrication with the an advanced and precise computerized machines such as CNC sawing machines, CNC drilling, cutting, punching, bending machines, machines for galvanizing & shotblasting etc.

Together with Gunung Raja Paksi's mainstream products and experienced engineers of EFC, our customers are able to buy cut-to-length / cut-to-shape or custom steel fabrication to their requirement and international quality standards.

**Products Serviced:**

King Cross,  
Queen Cross,  
Welded Beam,  
Box Beam

**Service Provided:**

**Angle Line :**

Cutting, Punching,  
Stamping Angle Line

**Special Operations :** Bending,  
Chamfering, Nothing

**Beam Line :** Bending, Cutting  
(90o&45o), Drilling Copying  
(Honey Comb) Painting  
Shot Blasting

**Welded Beam Line :** Build Up  
Beam, Tackling, Welding

**Straightening Plate Service Center (PSC)**

**Forming Service Center (FSC)**

**Coil Service Center (CSC).**



Coil Services Center



Forming Services Center

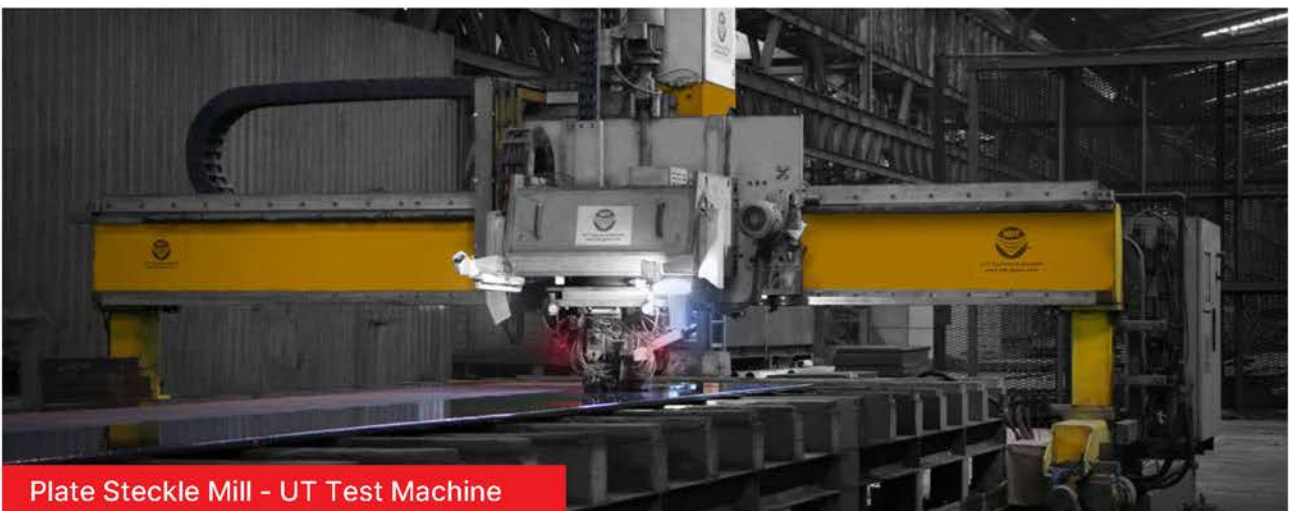


Plate Stockle Mill - UT Test Machine









# **Steel Applications**



#### Industrial Buildings:

Air Pollution Control  
Equipment  
Cement Plants  
Chemical &  
Petrochemical Plants  
Factory  
Iron & Steel Mills &  
Wood Process  
Warehouse  
Workshop

#### Towers:

Pole Tower  
Monumental Tower  
Billboard  
Monitoring Tower  
Wtertank Tower

#### High Rise Buildings:

Apartment  
Hotel  
Office Building  
Landmark  
Gas Processing & Distribution  
Terminal & Cargo Handling System

#### Bridges:

Girdes Bridging  
Truss Bridging  
Cantilever Bridging  
Arch Bridging  
Suspension Bridging  
Cable-stayed Bridging  
Railway Bridging

#### Low Rise Buildings:

Housing / Residence  
Hospital  
Office Building  
Airport / Hangar  
School

#### Commercial Buildings:

Show Room  
Supermarket & Hypermarket





GRP is very concerned about the quality of products and management system. This is evident from the many international certifications obtained such as **ISO 9001**, **ISO 14001**, **OHSAS 18001**, **SNI**, **ABS**, **JIS Marking**, **Lloyd Register (LR)**, **BKI**, **Germanischer Lloyd (GL)**, **Det Norske Veritas (DNV)**, **Nippon Kaiji Kyokai (NK)**, and others.



# Certifications









**EPD** Environmental Product Declaration  
 In accordance with ISO 14025:2006 and EN 15804:2014+A2:2019/AC:2021 for

## HOT ROLLED COIL & SHEET ASTM/ASME

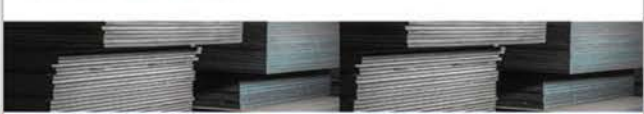


**GRP**  
 PT Gunung Raja Paksi Tbk  
 Jl. Pengembang Industri Paksi, Kawasan Industri Paksi, Desa Paksi, Kecamatan Paksi, Kabupaten Karangasem, Bali 80812, Indonesia

**Programme:** The International EPD System  
**EPD registered through the fully aligned regional EPD:** Indonesia  
**EPD Declaration Number:** 271-2023  
**Registration Date:** 2023-09-26  
**Valid until:** 2026-09-26  
**EPD Declaration:** This EPD is a third-party verified declaration of the environmental impacts of the product, based on the ISO 14025:2006 and EN 15804:2014+A2:2019/AC:2021 standards. It is based on the product's environmental data and is subject to periodic review and update.

**EPD** Environmental Product Declaration  
 In accordance with ISO 14025:2006 and EN 15804:2014+A2:2019/AC:2021 for

## Hot Rolled Plate ASTM/ASME



**GRP**  
 PT Gunung Raja Paksi Tbk  
 Jl. Pengembang Industri Paksi, Kawasan Industri Paksi, Desa Paksi, Kecamatan Paksi, Kabupaten Karangasem, Bali 80812, Indonesia

**Programme:** The International EPD System  
**EPD registered through the fully aligned regional EPD:** Indonesia  
**EPD Declaration Number:** 271-2023  
**Registration Date:** 2023-09-26  
**Valid until:** 2026-09-26  
**EPD Declaration:** This EPD is a third-party verified declaration of the environmental impacts of the product, based on the ISO 14025:2006 and EN 15804:2014+A2:2019/AC:2021 standards. It is based on the product's environmental data and is subject to periodic review and update.

**EPD** Environmental Product Declaration  
 In accordance with ISO 14025:2006 and EN 15804:2014+A2:2019/AC:2021 for

## Hot Rolled Structural Steel Shapes ASTM/ASME



**GRP**  
 PT Gunung Raja Paksi Tbk  
 Jl. Pengembang Industri Paksi, Kawasan Industri Paksi, Desa Paksi, Kecamatan Paksi, Kabupaten Karangasem, Bali 80812, Indonesia

**Programme:** The International EPD System  
**EPD registered through the fully aligned regional EPD:** Indonesia  
**EPD Declaration Number:** 271-2023  
**Registration Date:** 2023-09-26  
**Valid until:** 2026-09-26  
**EPD Declaration:** This EPD is a third-party verified declaration of the environmental impacts of the product, based on the ISO 14025:2006 and EN 15804:2014+A2:2019/AC:2021 standards. It is based on the product's environmental data and is subject to periodic review and update.

**SERTIFIKAT**  
 Kementerian Perindustrian  
 Lembaga Sertifikasi Industri Hijau  
 Balai Besar Standardisasi dan Pelayanan Jasa Industri Logam dan Mesin  
 Nomor: 04.2424101.01.2024/LSH-HBSPJUMXII/2024

Dengan ini Lembaga Sertifikasi Industri Hijau - LSH Balai Besar Standardisasi dan Pelayanan Jasa Industri Logam dan Mesin memberikan sertifikat kepada

## PT Gunung Raja Paksi, Tbk

JALAN PERJUANGAN NOMOR 15, KAMPUNG TANGSI, DesaKulurahan Sukadana, Kec. Cikarang Barat, Kab. Bekasi, Provinsi Jawa Barat

Sebagai Perusahaan yang dalam proses produksinya telah memenuhi Standar Industri Hijau  
 No. **SIH 24101.01.2024** Industri Baja Lemparan Produk Slab



Ditandatangani pada tanggal: 31 Desember 2024  
 Berakhir pada tanggal: 30 Desember 2028

**SERTIFIKAT**  
 Kementerian Perindustrian  
 Lembaga Sertifikasi Industri Hijau  
 Balai Besar Standardisasi dan Pelayanan Jasa Industri Logam dan Mesin  
 Nomor: 05.2424102.04.2024/LSH-HBSPJUMXII/2024

Dengan ini Lembaga Sertifikasi Industri Hijau - LSH Balai Besar Standardisasi dan Pelayanan Jasa Industri Logam dan Mesin memberikan sertifikat kepada

## PT Gunung Raja Paksi, Tbk

JALAN PERJUANGAN NOMOR 15, KAMPUNG TANGSI, DesaKulurahan Sukadana, Kec. Cikarang Barat, Kab. Bekasi, Provinsi Jawa Barat

Sebagai Perusahaan yang dalam proses produksinya telah memenuhi Standar Industri Hijau  
 No. **SIH 24102.04.2024** Industri Baja Lemparan Produk Hot Rolled Coil



Ditandatangani pada tanggal: 31 Desember 2024  
 Berakhir pada tanggal: 30 Desember 2028

**DNV**  
 APPROVAL OF MANUFACTURER  
 CERTIFICATE

This is to certify that  
**PT. Gunung Raja Paksi (Tbk)**  
 A Perumahan Paksi 2  
 Sukadana, Cikarang Barat,  
 Bekasi 17136 Indonesia  
 is an approved manufacturer of  
**Hot Rolled Products**  
 as approved by the DNV Group  
 and the following conditions:

Approval date: 2024-09-26  
 Product: Hot Rolled Plate  
 Approval number: 2024-09-26  
 Approval Engineer: HANIKHA SIBUHAN

Valid until: 2028-09-26  
 Issued at: Cikarang, Indonesia  
 Approved Engineer: HANIKHA SIBUHAN

# Thank you for choosing GRP as a solutions to your steel requirements.

We are confident that our products and services excellence shall satisfy your requirements and our partnership will continue to grow.



Website GRP

Member of





**GRP**



SHAPING TOMORROW

**PT Gunung Raja Paksi Tbk**

Jl. Perjuangan No.15  
Sukadanau, Cikarang Barat  
Bekasi 17530  
West Java, Indonesia

Phone: +62 21 890-0111

Fax: +62 21 890-0555

Email: [gsg@gunungsteel.com](mailto:gsg@gunungsteel.com)

