



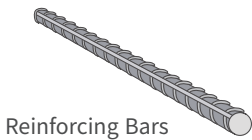
1954	1961	1966	1993	2011	2019	2021	2024
Founded Dongkuk Steel	Began steel production	Launched Korea's first electric-furnace steel mill	Introduced Korea's first DC electric furnace	Established Korea's first KS standard for seismic rebars	Obtained the steel industry's first environmental permit	Launched steelshop, Korea's first online platform for steel	UL-Verified EPD for reinforcing bars, sections, and plates

A Leading Global Steel Company

We create better life with steel



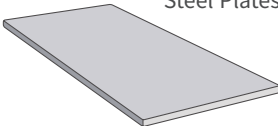
Incheon



Reinforcing Bars



Dangjin



Steel Plates

Overview of Incheon Works

- ✓ **Total Floor Area**
141,550m²
- ✓ **2 Electric Arc Furnaces (EAF) / 2 Rebar Rolling Mills**
- ✓ **Products**
Seismic Resistant Bars, Nuclear Bars, DK CryoFlex Bar(Cryogenic Bars), Threaded Bars



Annual production capacity	
Steel making	Reinforcing Bars
2.2	2.2

[Unit : million tons/yr]

Overview of Dangjin Works

- ✓ **Total Floor Area**
687,600m²
- ✓ **1 Steel Plate Rolling Mill**
- ✓ **Products**
Steel Plates for Shipbuilding and Industrial Applications, TMCP Steel Plates, DK-LP Plates, CLAD Plates

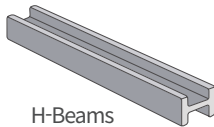


Annual production capacity
Steel Plates
1.5

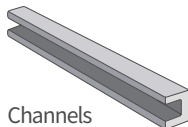
[Unit : million tons/yr]



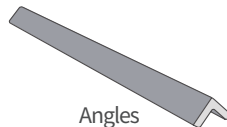
Pohang



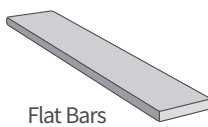
H-Beams



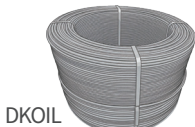
Channels



Angles



Flat Bars



DKOIL



R&D Center

Overview of Pohang Works

- ✓ **Total Floor Area**
837,860m²
- ✓ **1 Electric Arc Furnace (EAF) / 1 Section Rolling Mill / 1 Rebar Rolling Mill**
- ✓ **Products**
Seismic Resistant H Beams, Patterned H Beams, DKOIL, Seismic Resistant Rebars in Coils



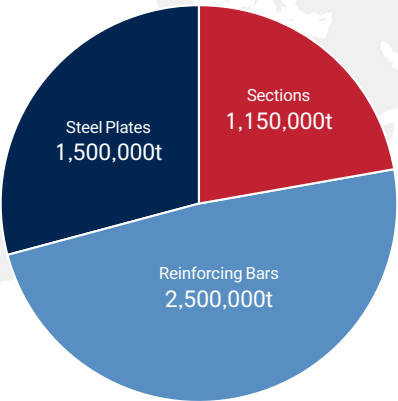
Annual production capacity		
Steel making	Sections	Reinforcing Bars
1.4	1.15	0.3

[Unit : million tons/yr]

Overview of R&D Center

- ✓ **Key Facilities of the Central Research Institute of Technology**
Steelmaking & Refining, Hot Rolling, Mechanical Testing, Welding Testing, Analytical Equipment

DONGKUK STEEL GROUP
STEEL CAPACITY
5,150,000t



Reinforcing Bars

Reinforcing bars are widely used in buildings and civil engineering projects. Dongkuk Steel produces general-purpose, high-tensile, and ultra-high-tensile reinforcing bars in sizes ranging from D10 (10 mm) to D57 (57 mm) at its Incheon and Pohang works. In addition, Dongkuk Steel was the first company in Korea to obtain KS certification for seismic-resistant reinforcing bars, reinforcing its leadership in the domestic market.



Seismic Resistant Bars

Seismic-resistant bars are specially designed to withstand impacts and vibrations caused by earthquakes. They improve the structural stability of buildings, helping prevent sudden collapse in emergency situations and providing more time for evacuation.



Threaded Bars

Threaded bars are connected using couplers, enabling efficient bar joining on site. Compared with conventional reinforcing bars, they can reduce construction costs and improve workability.
Available Size : D22, D25, D29



DKOIL

DKOIL is Dongkuk Steel’s brand of bar in coil. Manufactured by processing steel bar of up to 6.2 km in length into coil form, DKOIL offers advantages in loading, processing, and material yield. Dongkuk Steel further strengthened its market position by becoming the first company in Korea to develop and commercialize seismic-resistant coiled reinforcing bars.

Rebar and Billet

[Unit : mm]

Rebar (Incheon Works)			
Spec.	Grade	Min. Diameter	Max. Diameter
KS D 3504	SD300	D10	D41
	SD400	D10	D41
	SD500	D10	D51
	SD600	D10	D41
	SD400W	D10	D41
	SD500W	D10	D41
	SD400S	D10	D41
	SD500S	D10	D41
	SD600S	D16	D41
JIS G 3112	SD300	D10	D32
	SD345	D10	D32
	SD390	D10	D32
	SD490	D10	D32
BS4449, SS 560	B500B	D10	D40
	B500C	D10	D40
CS 2	500B	D10	D40
	500C	D10	D40
AS/NZS 4671	500N	D10	D40
	500E	D10	D40
ASTM A615	Grade 40	D10	D19
	Grade 60	D10	D57
	Grade 80	D10	D41
ASTM A706	Grade 60	D10	D41

Rebar-In-Coil (Pohang Works)				
Spec.	Grade	Min. Diameter	Max. Diameter	Weight per coil
KS D 3504	SD300	D10	D16	Max. in Coil : 3.5 t
	SD400	D10	D16	
	SD500	D10	D16	
	SD600	D10	D16	
	SD400W	D10	D16	
	SD500W	D10	D16	
	SD400S	D10	D16	
	SD500S	D10	D16	
	SD600S	-	D16	
BS 4449, SS 560	B500B	D10	D16	Max. in Coil : 3.5 t
CS 2	500B	D10	D16	
AS/NZS 4671	500N	D10	D20	
ASTM A615	Grade 40	D10	D16	
	Grade 60	D10	D16	
ASTM A706	Grade 60	D10	D16	

Billet			
Spec.	Size	Min. Length	Max. Length
KS D 3504, JIS G 3112 BS 4449, SS 560, CS 2 AS/NZS 4671 ASTM A615, A706	130 × 130 150 × 150	8,000	13,400

Sections

Sections such as H-beams, angles, and channels are structural steel products widely used in construction, civil engineering, machinery, and steel tower manufacturing. Dongkuk Steel produces a wide range of section products, including H-beams, angles, channels, flat bars, and profiles at its Pohang Works. By supplying high-tensile section products with excellent durability and long service life, Dongkuk Steel helps reduce environmental impact associated with replacement and reprocessing.



Channels

JIS G 3101 SS400, ASTM A36/A36M				ASTM A36, A572-50, A992, CSA 300W, 350W			
Designation	kg/m	t ₁	t ₂	Designation	lb/ft	t _w (mm)	t _r (mm)
75 × 40	6.92	5.0	7.0	C6	8.2	5.1	8.7
100 × 50	9.36	5.0	7.5		10.5	8.0	8.7
125 × 65	13.4	6.0	8.0	C8	11.5	5.6	9.9
150 × 75	18.6	6.5	10.0		13.75	7.7	9.9
200 × 80	24.6	7.5	11.0	C10	15.3	6.1	11.1
200 × 90	30.3	8.0	13.5		20.0	9.6	11.1
250 × 90	34.6	9.0	13.0	C12	20.7	7.2	12.7
300 × 90	38.1	9.0	13.0		25.0	9.8	12.7
380 × 100	54.5	10.5	16.0				

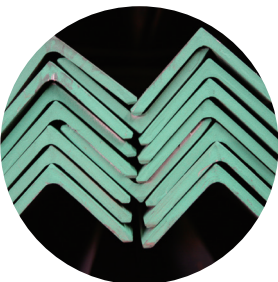
* Dimensions: JIS G 3192 / Grades: JIS G 3101 SS400 or ASTM A36/A36M



Sheet Piles

JIS A 5528 (SY295, SY390)				
Designation	kg/m	W	H	T
SP-III A(D)	60.0	400	150	13.0
SP-IV	76.1	400	170	15.5

[Unit : mm]



Equal Angles

JIS G 3101 SS400, ASTM A36/A36M			
A40 × 3	A65 × 6	A75 × 12	A100 × 10
A40 × 5	A65 × 8	A90 × 7	A100 × 13
A50 × 4	A75 × 6	A90 × 10	
A50 × 6	A75 × 9	A100 × 7	

* Non-standard sizes available upon request.

[Unit : mm]



Flat Bars

[Unit : mm]

JIS G 3101 SS400 , ASTM A36/A36M			
F38 × 4.5	F50 × 9	F75 × 6	F100 × 6
F38 × 6	F50 × 12	F75 × 9	F100 × 9
F38 × 9	F65 × 6	F75 × 12	F100 × 12
F50 × 4.5	F65 × 9	F90 × 6	F125 × 9
F50 × 6	F65 × 12	F90 × 9	F125 × 12

* Dimensions: JIS G 3194 / Grades: JIS G 3101 SS400 or ASTM A36/A36M



Round Bars

[Unit : mm]

JIS G 3101 SS400 , ASTM A36/A36M	
R16	R22
R19	R25

* Dimensions: JIS G 3191 / Grades: JIS G 3101 SS400 or ASTM A36/A36M



H-Beams

European Standard (EN 10025)

[Unit : mm]

Grade	
EN 10025	S235JR, S235J0
	S275JR, S275J0
	S355JR, S355J0

H Sections (wide flanged beams)					
Designation	kg/m	h	b	s	t
HE 200 A	42.3	190	200	6.5	10.0
HE 200 B	61.3	200	200	9.0	15.0
HE 300 A	88.3	290	300	8.5	14.0
HE 300 B	117	300	300	11.0	19.0
HE 400 A	125	390	300	11.0	19.0
HE 400 B	155	400	300	13.5	24.0
HE 450 A	140	440	300	11.5	21.0
HE 450 B	171	450	300	14.0	26.0
HE 500 A	155	490	300	12.0	23.0
HE 500 B	187	500	300	14.5	28.0
HE 600 A	178	590	300	13.0	25.0
HE 600 B	212	600	300	15.5	30.0

I Sections with Parallel Flange					
Designation	kg/m	h	b	s	t
IPE 200	22.4	200	100	5.6	8.5
IPE 220	26.2	220	110	5.9	9.2
IPE 240	30.7	240	120	6.2	9.8
IPE 270	36.1	270	135	6.6	10.2
IPE 300	42.2	300	150	7.1	10.7

ASTM / CSA Standard

Grade			
ASTM	A36, A572-50, A992		
CSA	CSA 300W, CSA 350W		
Wide Flange Beams			
Designation	lb/ft	t_w (mm)	t_f (mm)
W6 × 6	15	5.8	6.6
	20	6.6	9.3
	25	8.1	11.6
W8 × 5¼	18	5.8	8.4
	21	6.4	10.2
W8 × 8	31	7.2	11.0
	35	7.9	12.6
	40	9.1	14.2
	48	10.2	17.4
	58	13.0	20.6
W10 × 10	49	8.6	14.2
	54	9.4	15.6
	60	10.7	17.3
	68	11.9	19.6
	77	13.5	22.1
	88	15.4	25.1
	100	17.3	28.4
W12 × 8	112	19.2	31.8
	40	7.5	13.1
	45	8.5	14.6
W12 × 12	50	9.4	16.3
	65	9.9	15.4
	72	10.9	17.0
	79	11.9	18.7
	87	13.1	20.6
	96	14.0	22.9
	106	15.5	25.1
	120	18.0	28.1
	136	20.1	31.8
W14 × 6¾	152	22.1	35.6
	30	6.9	9.8
	34	7.2	11.6
	38	7.9	13.1
W14 × 14½	90	11.2	18.0
	99	12.3	19.8
	109	13.3	21.8
	120	15.0	23.9
	132	16.4	26.2
W16 × 7	36	7.5	10.9
	40	7.7	12.8
	45	8.8	14.4
	50	9.7	16.0
	57	10.9	18.2
W18 × 7½	50	9.0	14.5
	55	9.9	16.0
	60	10.5	17.7
	65	11.4	19.0
	71	12.6	20.6

HP Shapes			
Designation	lb/ft	t_w (mm)	t_f (mm)
HP8	36	11.3	11.3
	42	10.5	10.7
HP10	57	14.4	14.4
	53	11.0	11.0
	63	13.1	13.1
HP12	74	15.4	15.5
	84	17.4	17.4
	89	18.3	18.3
HP14	73	12.8	12.8
	89	15.6	15.6
	102	17.9	17.9
	117	20.4	20.4

European Standard (EN 10025)

[Unit : mm]

Grade		
EN 10025	S235JR, S235J0	
	S275JR, S275J0	
	S355JR, S355J0	
Universal Columns (UC)		
Designation	s	t
152 × 152 × 23	5.8	6.8
152 × 152 × 30	6.5	9.4
152 × 152 × 37	8.0	11.5
203 × 203 × 46	7.2	11.0
203 × 203 × 52	7.9	12.5
203 × 203 × 60	9.4	14.2
203 × 203 × 71	10.0	17.3
203 × 203 × 86	12.7	20.5
254 × 254 × 73	8.6	14.2
254 × 254 × 89	10.3	17.3
254 × 254 × 107	12.8	20.5
254 × 254 × 132	15.3	25.3
305 × 305 × 97	9.9	15.4
305 × 305 × 118	11.9	18.7
305 × 305 × 137	13.8	21.7
305 × 305 × 158	15.8	25.0
368 × 368 × 129	10.4	17.5
368 × 368 × 153	12.3	20.7
368 × 368 × 177	14.4	23.8
Universal Beams (UB)		
Designation	s	t
203 × 133 × 25	5.7	7.8
203 × 133 × 30	6.4	9.6
356 × 171 × 45	7.0	9.7
356 × 171 × 51	7.4	11.5
356 × 171 × 57	8.1	13.0
356 × 171 × 67	9.1	15.7
Universal Bearing Pile (UBP)		
Designation	s	t
305 × 305 × 79	11.0	11.1
305 × 305 × 88	12.4	12.3
305 × 305 × 95	13.3	13.3
305 × 305 × 110	15.3	15.4
305 × 305 × 126	17.5	17.6

AS/NZS Standard

Grade					
AS/NZS 3679.1 300					
Universal Columns (UC)					
Designation	kg/m	h	b	t_w	t_f
100 UC	14.8	97.0	99.0	5.0	7.0
	23.4	152.4	152.0	6.1	6.8
	30.0	157.6	153.0	6.6	9.4
150 UC	37.2	161.8	154.0	8.1	11.5
	46.2	203.4	203.0	7.3	11.0
	52.2	206.4	204.0	8.0	12.5
200 UC	59.5	209.8	205.0	9.3	14.2
	72.9	253.8	254.0	8.6	14.2
250 UC	89.5	260.0	256.0	10.5	17.3
	96.8	308.0	305.0	9.9	15.4
310 UC	118	314.6	307.0	11.9	18.7
	137	320.6	309.0	13.8	21.7
	158	327.2	311.0	15.7	25.0
Universal Beams (UB)					
Designation	kg/m	h	b	t_w	t_f
150 UB	14.0	150.0	75.0	5.0	7.0
	18.0	155.0	75.0	6.0	8.0
200 UB	18.2	198.0	99.0	4.5	7.0
	22.3	201.6	133.0	5.0	7.0
	25.4	203.2	133.0	5.8	7.8
	29.8	207.0	134.0	6.3	9.6
250 UB	25.7	248.0	124.0	5.0	8.0
	32.0	298.0	149.0	5.5	8.0
310 UB	40.4	304.0	165.0	6.1	10.2
	46.2	307.2	166.0	6.7	11.8
360 UB	44.7	352.0	171.0	6.9	9.7
	50.7	355.6	171.0	7.3	11.5
	56.7	358.6	172.0	8.0	13.0
410 UB	53.7	402.6	178.0	7.6	10.9
	59.7	406.4	178.0	7.8	12.8
460 UB	67.1	453.8	190.0	8.5	12.7
	74.6	457.4	190.0	9.1	14.5
	82.1	460.4	191.0	9.9	16.1

H×B Size Designation and Unit Weights

[Unit : mm]

Grade					
JIS	SS400, SS490, SM400A/B, SM490A/B, SM490YA/YB, SN400A/B, SN490B				
CNS	SS400, SM400A(-A), SM490A, SN400B, SN490B				
TIS	SS400				
H-Beams					
Nominal dimension	$H \times B$	t_1	t_2	JIS kg/m	TIS kg/m
100 × 100	100 × 100	6.0	8.0	16.9	17.2
125 × 125	125 × 125	6.5	9.0	23.6	23.8
150 × 75	150 × 75	5.0	7.0	14.0	14.0
150 × 100	148 × 100	6.0	9.0	20.7	21.1
150 × 150	150 × 150	7.0	10.0	31.1	31.5
200 × 100	*198 × 99	4.5	7.0	17.8	18.2
	200 × 100	5.5	8.0	20.9	21.3
200 × 150	194 × 150	6.0	9.0	29.9	30.6
200 × 200	200 × 200	8.0	12.0	49.9	49.9
250 × 125	*248 × 124	5.0	8.0	25.1	25.7
	250 × 125	6.0	9.0	29.0	29.6
250 × 175	244 × 175	7.0	11.0	43.6	44.1
250 × 250	250 × 250	9.0	14.0	71.8	72.4
300 × 150	*298 × 149	5.5	8.0	32.0	32.0
	300 × 150	6.5	9.0	36.7	36.7
300 × 200	294 × 200	8.0	12.0	55.8	56.8
300 × 300	300 × 300	10.0	15.0	93.0	94.0
350 × 175	*346 × 174	6.0	9.0	41.2	41.4
	350 × 175	7.0	11.0	49.4	49.6
350 × 250	340 × 250	9.0	14.0	78.1	79.7
350 × 350	350 × 350	12.0	19.0	135.0	137.0
400 × 200	*396 × 199	7.0	11.0	56.1	56.6
	400 × 200	8.0	13.0	65.4	66.0
400 × 300	390 × 300	10.0	16.0	105.0	107.0
400 × 400	400 × 400	13.0	21.0	172.0	172.0
	414 × 405	18.0	28.0	232.0	232.0
	428 × 407	20.0	35.0	283.0	283.0
450 × 200	*446 × 199	8.0	12.0	65.1	66.2
	450 × 200	9.0	14.0	74.9	76.0
450 × 300	440 × 300	11.0	18.0	121.0	124.0
500 × 200	*496 × 199	9.0	14.0	77.9	79.5
	500 × 200	10.0	16.0	88.2	89.6
500 × 300	482 × 300	11.0	15.0	111.0	114.0
	488 × 300	11.0	18.0	125.0	128.0
600 × 200	*596 × 199	10.0	15.0	92.5	94.6
	600 × 200	11.0	17.0	103.0	106.0
600 × 300	582 × 300	12.0	17.0	133.0	137.0
	588 × 300	12.0	20.0	147.0	151.0
	*594 × 302	14.0	23.0	170.0	175.0
700 × 300	692 × 300	13.0	20.0	163.0	166.0
	700 × 300	13.0	24.0	182.0	185.0

*Family size MOQ 100mt

Steel Plates

Steel plates with a thickness of 6 mm or more are used in ships, buildings, bridges, pipes, boilers, and pressure vessels. As the first company in Korea to produce steel plates, Dongkuk Steel has built extensive expertise and technological capabilities over many years. The company manufactures a wide range of steel plates, including general, heat-treated, and TMCP products, in diverse specifications such as extra-thick, ultra-thin, and wide plates for shipbuilding.

Available Steel Grades and Sizes

General Dimensions

Thickness	Width	Length	Unit Weight
5 ~ 220 mm	Max. 4,800 mm	Max. 22,000 mm	Max. 22.6 tons

Structural Applications

Purpose	Standard	Grade	Thickness (mm)	
			Min.	Max.
General Structure	JIS	SS400	5	220
		A36	5	220
	ASTM, ASME	A283-C / A285-C	5	60
		A283-D	5	50
		G250 L0	5	90
	AS/NZS 3678	G350 L0	5	90
		G250 L15	5	110
		G300 L15	5	110
		G350 L15	5	110
		G400 L15	6	80
		G450 L15	6	50
	JIS	SM400A	5	160
		SM400B	5	165
		SM400C	5	130
		SM490A	5	200
		SM490B	5	155
		SM490C	5	100
		SM490YA / SM490YB	6	80
		SM520B / SM520C	6	86
		SM570	5	100
	ASTM, ASME	A572-42	8	150
		A572-50	6	100
		A572-60 / A572-65	6	32
		A573-70	6	40
Welded Structure	EN	S235JR / S235J0 / S235J2 S275JR / S275J0 / S275J2 S355JR / S355J0 / S355J2 / S355K2	5	100
		S275M / S355M / S355ML	6	130
		S420M / S420ML	6	80
		S460M / S460ML	6	83
	CSA	300W	6	101.6
		350W	6	101.6
	JIS	SN400A / SN400B	6	80
		SN490B	6	70
		SN490C	16	50
	ASTM, ASME	A709-50	6	100

Industrial Applications

Purpose	Standard	Grade	Thickness (mm)		
			Min.	Max.	
Shipbuilding	ABS, BV, CCS, DNV-GL, KR, LR, NK, RINA, RS	A / B / D	5	100	
		E AH32 / DH32 / EH32 AH36 / DH36 / EH36 AH40 / DH40 / EH40	5	83	
		FH32 / VH32-O60	8.5	50	
		FH36 / VH-O60	9	50	
Offshore	EN	S355G2+N	6	20	
		S355G7+M / S355G8+M S355G9+M / S355G10+M S420G1+M / S420G2+M / S460MLO	6	63	
		S355MLO / S420MLO	6	83	
		S460G1/2+M	10	62	
		S500G1/2+M	15	50	
	API	2W-50 / 2W-60 / 2H-50	6	83	
	DNV-GL	EW420	12	70	
	BV, DNV-GL, RS	A500 / D500 / E500	12	50	
	Boiler	JIS	SB410	6	50
			SB480	6	40
SPV235			6	80	
SPV315			6	50	
SPV355			6	50	
ASTM, ASME		A516-60 / A516-65 / A516-70	6	100	
		A537-CL1	6	70	
		A387-11 CL2 / A387-22 CL2	6	50	
Pipe		API 5L	B PSL 1	5	70
			BN(R) PSL 2	6	30
	BM PSL 2		6	55	
	X-42 PSL 1 / X-42M PSL 2		8.5	50	
	X-46 PSL 1 / X-46M PSL 2		8.5	50	
	X-52 PSL 1 / X-52M PSL 2		8.5	50	
	X-56 PSL 1 / X-56M PSL 2		8.5	50	
	X-60 PSL 1 / X-60M PSL 2		8.5	60	
	X-65 PSL 1 / X-65M PSL 2		8.5	50	
	X-70 PSL 1 / X-70M PSL 2		8.5	40	
	JIS	STK400	5	40	
		STK490 / STK500	6	60	
		STK540	8	40	

DK-CryoFlex Bar

Cryogenic rebar that meets international standards

• Satisfies room temperature properties of SD500 of KS D 3504(Korea) and B500B/B500C of EN 10080 (Europe) and BS 4449 (UK)

Name	Room temperature tensile test results			
	YS (MPa)	TS (MPa)	El. (%)	Agt (%)
KS D 3504	500~650	1.08 YS ↑	14 ↑	–
EN 10080, BS4449	500 ↑	550 ↑ & 1.08 × YS ↑	–	5 ↑
CryoFlex Bar	500 ↑	550 ↑ & 1.08 × YS ↑	14 ↑	5 ↑

• Satisfies the -105°C/-170°C tensile properties standard of EN 14620 Part.3

Name	Cryogenic tensile results (-170°C)			
	Un-notch		Notch	NSR (-)
	YS (MPa)	Agt (%)	Agt (%)	
BS EN 14620-3	1.15 × Design YS	3 ↑	–	1 ↑
CryoFlex Bar	1.15 × Design YS	3 ↑	1 ↑	1 ↑

Product Specificaitons

- Diameters from 10 to 35 mm are available according to project specifications.
- Various rib patterns, such as Bamboo and Fish Bone, can be provided based on project requirements.
- Various lengths are available according to project specifications.

Extract of Reference List

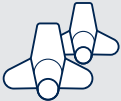
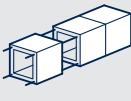
- POSCO Gwangyang LNG base storage tank units 7 and 8
- Thailand Gulf Map Ta Phut LNG Terminal 1 and 2

DK GREEN BAR

GFRP (Glass Fiber Reinforced Polymer) Rebar is a composite reinforcing bar made of glass fibers bonded with polymer resin. DK GREEN BAR offers high strength, ultra-lightweight, and corrosion resistance to enhance durability and extend the lifespan of structures.

High Strength	Ultra-Lightweight	Internal Corrosion Resistance	Non-conductive
More than twice the tensile strength of steel	1/4 the weight of steel	Extended structural lifespan and reduced maintenance costs	Enhanced safety in electromagnetic environments

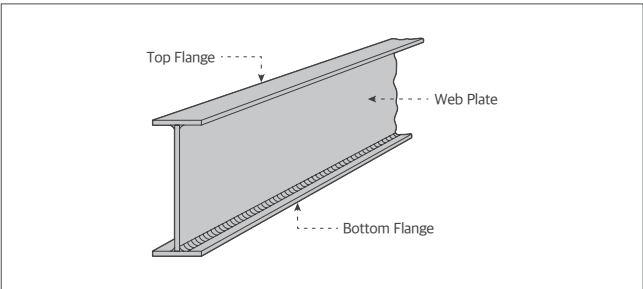
Applications of GREEN BAR

 Tetrapod	 Marine Plant	 Bridge	 Logistics Center	 Utility Tunnel
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D-MEGA BEAM

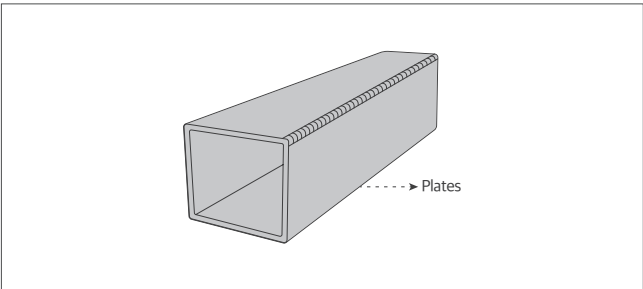
Available Specifications and Sizes

• KS D 3503 SS275 • KS D 3515 SM275 / SM355 / SM460 • KS D 3681 SN275 / SN355 • KS D 3868 HSB380 / HSB360



H BEAM	Size
MT/pcs.	Max. 25MT
Length	5,000 ~ 25,000
Flange (B)	Width : 150 ~ 1,250 / Thick. : 6 ~ 80T
Web (H)	Width : 300 ~ 3,000 / Thick. : 6 ~ 60T

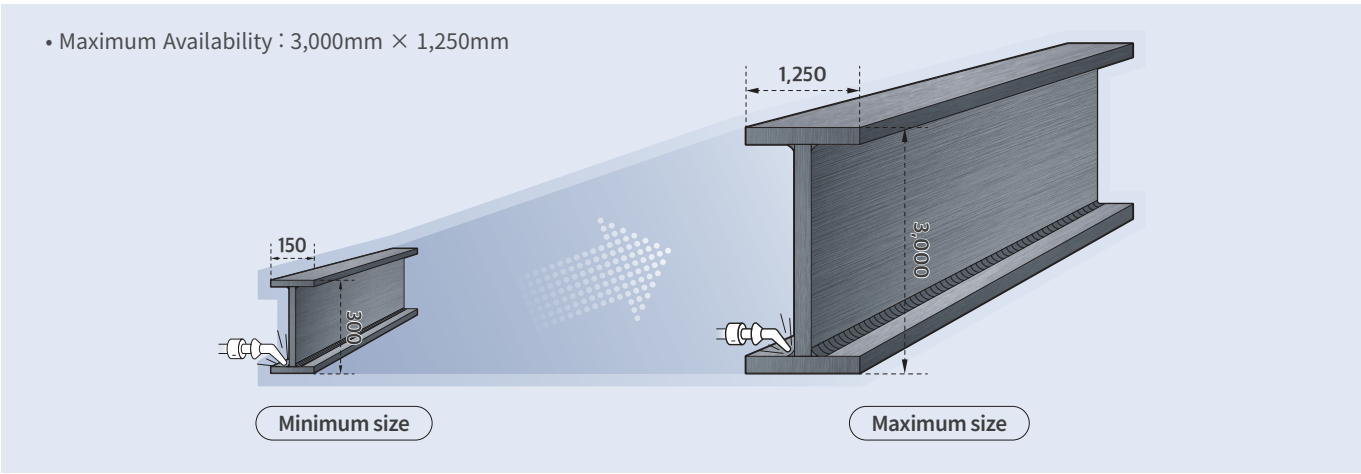
[Unit: ton, mm]



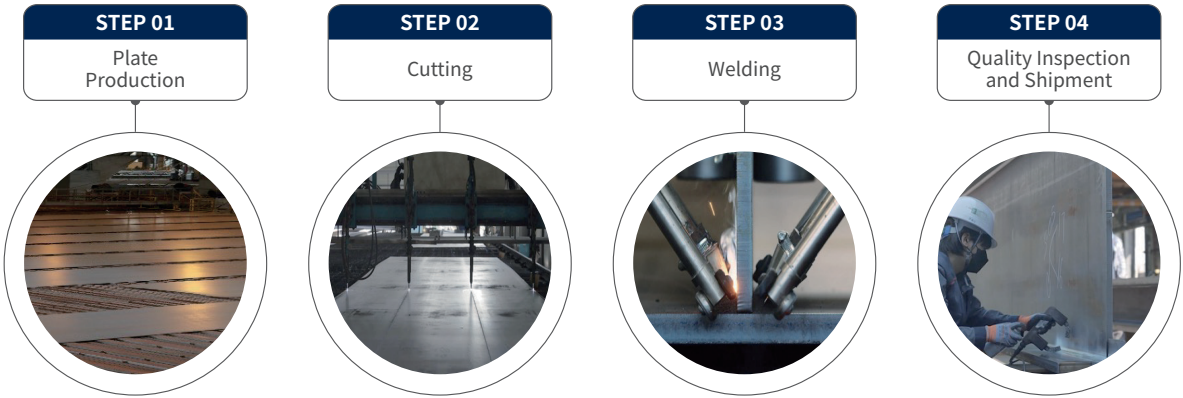
CFT* (Box Type)	Size
MT/pcs.	Max. 25MT
Length	5,000 ~ 25,000
Web	Width : 300 ~ 600 / Thick. : 8 ~ 80T

* CFT : Concrete Filled steel Tube

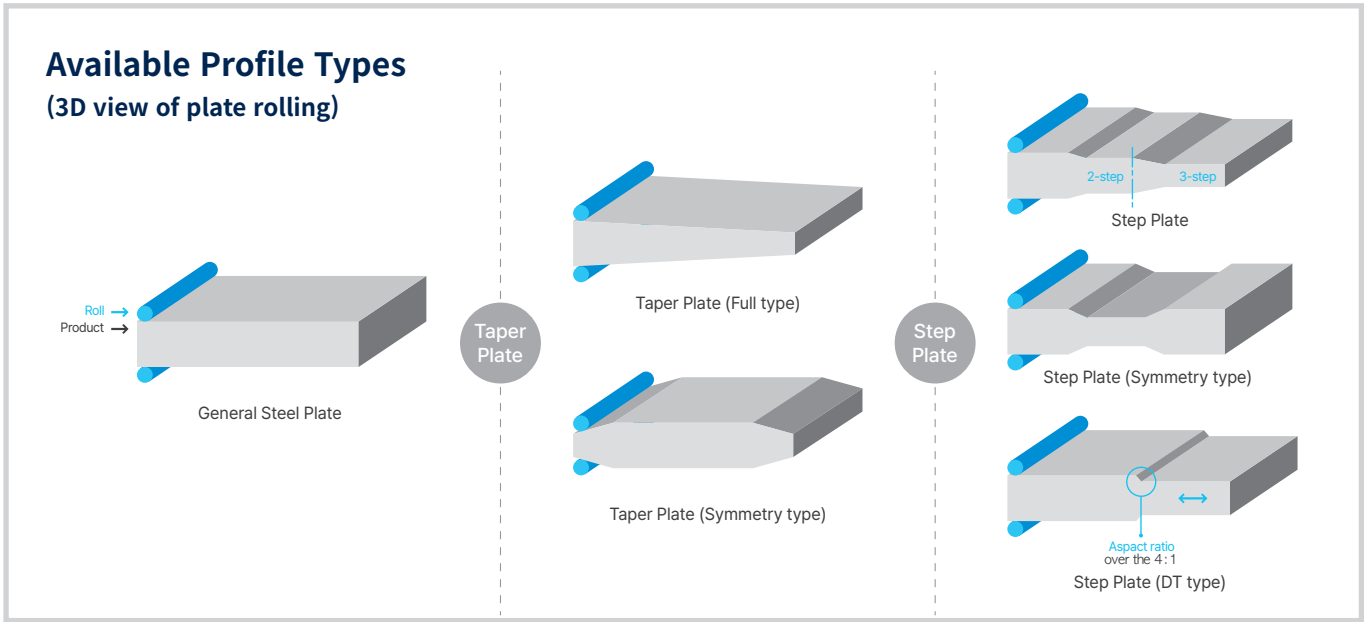
[Unit: ton, mm]



Manufacturing Process of D-MEGA BEAM

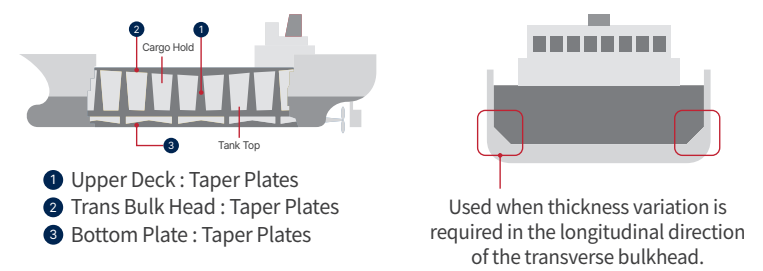


DK-LP Plate

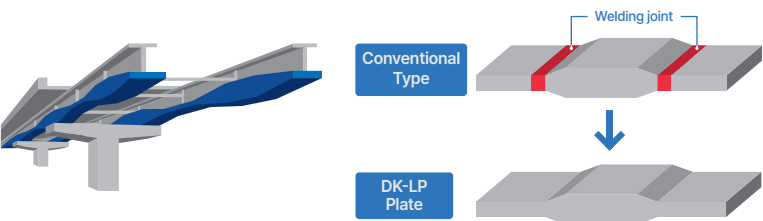


Applications of DK-LP Plate

1. Bulk carrier, container ship, VLOC, LNGC, PC tanker COT tanker, VLCC, ULCC



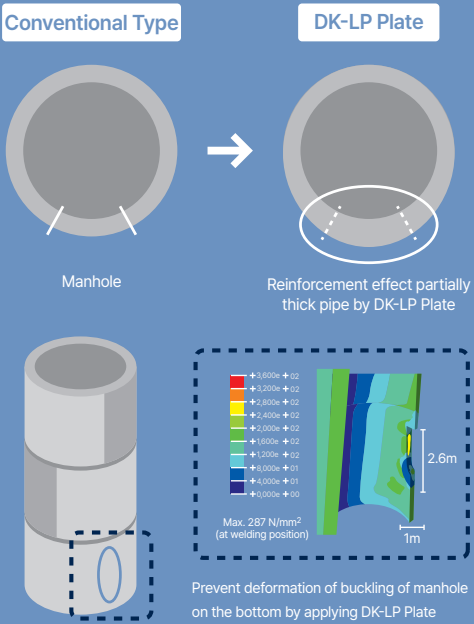
2. Bridges



Case Study : French High-Speed Railway

Bridge	Viaduc de la Haute-Colme (Haute Colme Viaduct)		
Structure	2-girder composite bridge	Extension	1.827km
Result of applying tapered section steel			
• Steel weight : 5,200 tons (including 1,270 tons of tapered section steel)			
• Weight reduction : 108 tons (2.1% of total structural weight)			
• Reduction in welding : 160 welds (equivalent to 6% of welding costs)			
• Construction cost reduction : 1.5% of total structural construction cost			

3. Offshore Wind Towers



Form of applied DK-LP Plate



DKLAD (Clad Plates)

DKLAD is Dongkuk Steel's clad plate brand, and was the first product of its kind to be developed, manufactured, and commercialized in Korea. It consists of two or more layers that are metallurgically bonded during the hot-rolling process under high temperature and pressure. A typical clad plate structure is formed by bonding a thin corrosion-resistant alloy (CRA) layer to a carbon steel base material.

Available Specifications and Sizes

Clad Steel Plate Grades			
Commercial Production		Research & Development	
ASTM A516-60/65/70(N)+A240 304(L) ASTM A516-60/65/70(N)+A240 316(L) ASTM A36+A240 304(L) ASTM A36+A240 316(L) KS SS275 / JIS SS400 + ASTM A240 304(L) KS SS275 / JIS SS400 + ASTM A240 316(L)		API X60M/65M+ASTM A240 304(L) API X60M/65M+ASTM A240 316(L) API X60M/65M+UNS N08825 API X60M/65M+UNS N06625	
Thickness		Width	Length
CRA : 2~5mm + Base Metal			
Commercial Production		Max. 80mm	Max. 12,000mm

※ Production range may be expanded upon request, and detailed dimensions can be discussed separately at the time of ordering.

Clad Plates Supply Record

PJT Name	PJT Site	Usage	Spec.	Thickness	Quantity (MT)	Delivery
Undisclosed	JAPAN	Undisclosed	A36 + 304L	CS : 20mm CRA : 2mm	19	Jun., 2021
Lotte Chemical ABS Capa Up Project	KOREA (Yeosu)	Pressure Vessel	A516-70N + 304L	CS : 24 / 27 / 37mm CRA : 3mm	30	Jan., 2022
CCL3 Project	USA (Texas Gulf Coast)	Pressure Vessel	SA516-70N + 304L	CS : 7 ~ 23mm CRA : 3 ~ 3.6mm	178	Dec., 2022
LG Chemical Yeosu Plant ABS SUS SAN Capa Up PJT (Reactor & Stripper - 3 Set)	KOREA (Yeosu)	Reactor Vessel	A516-70N + 304/304L	CS : 20mm CRA : 3 ~ 4mm	38	Mar., 2023
SAL REACTOR	KOREA (Seosan)	Reactor Vessel	SA516-70N + 304/304L	CS : 17mm CRA : 3 ~ 3.5mm	22	Dec., 2023
Undisclosed	USA	Pressure Vessel	SA516-70N + 316/316L	CS : 12.7 ~ 15.9mm CRA : 3.2 ~ 4.8mm	20	Jan., 2024
Basrah Oil Refinery Maintenance	IRAQ	Tower	SA516-70N + 316L	CS : 10 ~ 14mm CRA : 3mm	7	Apr., 2024
CGN DAESAN CCPP Project	KOREA (Seosan)	Tube Sheet for Condenser	A516-70N + 316L	CS : 35mm CRA : 5mm	16	Apr., 2024
for API 5L D Approval	KOREA (Suncheon)	for API 5L D Cert. Approval	API 5L X65M + STS 316L	CS : 17mm CRA : 3mm	5	May, 2024
NFS LNG PJT	Qatar North Field	Tower / Pressure Vessel	SA516-60N + 316L / SA516-65N + 316L / SA516-70N + 304L / SA516-70N + 316L	CS : 11 ~ 34mm CRA : 3 ~ 3.5mm	918	Dec., 2024
HANJU Salt Manufacturing Plant Repair	KOREA (Ulsan)	Heat Exchanger	A516-70 + 304	CS : 6mm CRA : 3mm	2	Jan., 2025
Debutanizer Tower, Vessel Expansion for Daesan Plant	KOREA (Seosan)	Tower / Pressure Vessel	SA516-70N + 316L	CS : 22 ~ 24mm CRA : 3mm	27	Mar., 2025
HANJU Salt Manufacturing Plant Repair	KOREA (Ulsan)	Heat Exchanger	SA283-C + 316L	CS : 9mm CRA : 3mm	3	Jul., 2025
Vietnam Block B Gas Project	Vietnam	Dished Head & Shell	SA516-70N + 316L	CS : 19.5 ~ 24mm CRA : 3mm	34	Aug., 2025
CCL3 Project	USA (Texas Gulf Coast)	Pressure Vessel	SA516-70N + 304L	CS : 7 ~ 23mm CRA : 3 ~ 3.6mm	52	Sep., 2025
LOUISIANA PJT	USA	Pressure Vessel	SA516-70N + SA240 304L	CS : 12 ~ 21.5mm CRA : 3.2 ~ 3.8mm	54	Dec., 2025
NFS LNG PJT	Qatar North Field	Dished Head & Shell	SA516-70N + SA240 316L	CS : 10 ~ 30mm CRA : 3 ~ 3.5mm	20	Jan., 2026
EMI System	-	Heat Exchanger	SA516-70 + SA240 316L	CS : 24 ~ 30mm CRA : 5mm	55	Mar., 2026
					1,498	