

Metal Plates - Overview

■ Metal Plate Products - Overview

● **Configurable Plates** [Features] Surface finish methods, dimensions and dimension tolerance can be specified.

- ① Surface Finish Method (Please refer to the finished surface comparison on the right.)
② 0.5mm Increment Dimension Specified (Length, Width, Plate Thickness).
③ Dimension Tolerance Select (length, width and plate thickness can be selected from: ++Tolerance, +Tolerance, ±Tolerance and -Tolerance.)

■ **Comparison of Upper-Lower Surface Finish** (Sample Material: EN 1.0038 Equiv.)
The photos are magnified.



Classification		Structural Steel		Carbon Steel		Special Steel				Pre-Hardened Steel						
Material		SS400	SS400 Annealed Material	S50C	S55CN	SKS93	SKS3 SKD11 DC53	SKH51	SKD61	SCM440	PX5	G-STAR	NAK55	NAK80	GO40F	DH2F S-STAR HPM38 STA1A(X)(PH)
Page		P.1729~	P.1737~	P.1739~	P.1743~	P.1745~	P.1747~	P.1753~	Material Shop 24 Exclusive	P.1751~	P.1755~	P.1755~	P.1755~	Material Shop 24 Exclusive	Material Shop 24 Exclusive	Material Shop 24 Exclusive
Finish Method	Finishing Code	Size(mm) Values in * () are available in Material Shop 24 only.														
Upper-Lower Surface Milled (4-Side Not Finished)	2F	Length (A)	20~2500 (20~2500)	20~500 (20~2500)	(20~2500)	(20~500)	(20~500)	(20~500)	-	-	-	-	-	-	-	-
		Width (B)	10~1500 (10~1500)	10~300 (10~1500)	(10~1500)	(20~300)	(20~300)	(20~300)	-	-	-	-	-	-	-	-
		Thickness (T)	5~50 (3~160)	5~50 (3~160)	(3~120)	(8~30)	(5~30)	(5~30)	-	-	-	-	-	-	-	-
Upper-Lower Surface Rotary Grinding (4-Side Not Finished)	2RG	Length (A)	(15~1800)	(20~1400)	(20~1400)	-	-	-	-	-	-	-	-	-	-	-
		Width (B)	(10~1200)	(10~1000)	(20~1000)	-	-	-	-	-	-	-	-	-	-	-
		Thickness (T)	(5~50)	(5~50)	(5~50)	-	-	-	-	-	-	-	-	-	-	-
6-Surface Milled	6F	Length (A)	20~2500 (10~2500)	20~500 (15~2500)	10~2000 (10~2500)	20~500 (15~1000)	20~500 (10~1000)	20~500 (15~1000)	20~300 (20~300)	(20~300)	20~300 (20~300)	50~500 (20~500)	50~500 (50~500)	50~300 (20~500)	(20~500)	(20~300)
		Width (B)	10~1500 (10~1500)	20~300 (10~1500)	10~800 (10~1500)	20~300 (10~500)	20~300 (10~300)	20~300 (10~300)	20~200 (20~200)	(20~200)	20~200 (20~200)	20~200 (20~300)	20~200 (20~200)	20~200 (20~300)	(20~300)	(20~200)
		Thickness (T)	4~100 (1.5~160)	4~50 (3~160)	15~100 (1.5~120)	8~30 (8~80)	5~35 (5~60)	5~35 (5~60)	5~60 (5~60)	(5~60)	5~60 (5~60)	5~40 (5~100)	5~40 (5~40)	5~40 (5~100)	(5~60)	(5~60)
Upper-Lower Surface Rotary Grinding (4-Side Milled)	4F2RG	Length (A)	20~1600 (15~1800)	20~500 (15~2000)	20~2000 (15~2000)	20~500 (15~1000)	20~500 (10~1000)	20~500 (15~1000)	-	(20~300)	20~300 (20~300)	-	-	-	(20~300)	-
		Width (B)	10~1200 (10~1200)	20~300 (10~1200)	20~800 (10~1200)	20~300 (10~500)	20~300 (10~300)	20~300 (10~300)	-	(20~200)	20~200 (20~200)	-	-	-	(20~200)	-
		Thickness (T)	4~50 (4~160)	4~50 (4~160)	4~50 (4~160)	8~30 (8~80)	5~35 (5~60)	5~35 (5~60)	-	(5~60)	5~60 (5~60)	-	-	-	(5~60)	-
Upper-Lower Surface Grinding (4-Side Milled)	4F2G	Length (A)	10~800 (10~1000)	20~500 (15~800)	10~800 (10~1000)	20~500 (15~1000)	20~500 (15~1000)	20~500 (15~1000)	20~300 (20~300)	-	-	(10~500)	-	(10~500)	(10~500)	(20~300)
		Width (B)	10~500 (10~500)	20~300 (10~500)	10~500 (10~500)	20~300 (10~500)	20~300 (10~300)	20~300 (10~300)	-	-	(10~300)	-	(10~300)	(10~300)	-	(20~200)
		Thickness (T)	4~50 (4~160)	4~50 (4~160)	3~60 (3~160)	8~30 (8~80)	5~35 (5~60)	(5~60)	5~60 (5~60)	-	-	(3~100)	-	(3~100)	(3~100)	(5~60)
6-Surface Grinding	6G	Length (A)	(15~400)	(15~400)	(15~400)	(20~100)	(20~100)	(20~100)	(20~300)	-	-	(10~500)	-	(10~500)	(10~500)	(20~300)
		Width (B)	(10~400)	(10~400)	(10~400)	(20~100)	(20~100)	(20~100)	(20~200)	-	-	(10~300)	-	(10~300)	(10~300)	(20~200)
		Thickness (T)	(5~160)	(5~160)	(5~160)	(8~30)	(5~30)	(5~30)	(5~60)	-	-	(3~100)	-	(3~100)	(3~100)	(5~60)

Classification		Stainless Steel								Aluminum Alloy					Copper	Brass	Titanium		
		Austenite				Ferrite		Martensite											
Material		SUS303	SUS304	SUS303 Annealed Material	SUS304 Annealed Material	SUS316	SUS316L	SUS430	SUS440C	A5052P	A5052P High Precision	A2017P	A6061P	ANP79	A7075P	Tough Pitch Copper / Oxygen Free Copper / Chrome Copper	Brass Plate C2801	Titanium Class 2, TP340H	
Page		P.1757~	P.1761~	P.1765~	P.1765~	P.1767~	P.1767~	P.1769~	P.1771~	P.1773~	P.1779~	P.1783~	P.1781~	P.1788~	P.1789~	P.1793~	P.1793~	P.1792~	
Finish Method	Finishing Code	Size(mm) Values in * () are available in Material Shop 24 only.																	
4-Side Milled (Upper-Lower Surface Rolled)	4F	Length (A)	(15~1200)	(10~1200)	(10~1200)	(10~1200)	(15~500)	-	(15~500)	(15~500)	25~3000 (5~3000)	6~2500 (5~3000)	25~2500 (5~3000)	-	10~1000 (10~2500)	(5~2500)	6~300 (6~300)	6~300 (6~300)	-
		Width (B)	(8~1000)	(8~1000)	(8~1000)	(8~1000)	(10~200)	-	(20~200)	(20~200)	10~1500 (5~1500)	6~1000 (5~1500)	10~1250 (5~1250)	-	10~300 (10~1250)	(5~1250)	6~300 (6~300)	6~300 (6~300)	-
		Thickness (T)	(Select 4 ~ 65)	(Select 6 ~ 65)	(Select 4 ~ 65)	(Select 5 ~ 65)	(Select 9 ~ 28)	-	(Select 6 ~ 25)	(Select 8 ~ 28)	Select 3 ~ 50 (Select 1 ~ 85)	Select 4 ~ 50 (Select 4 ~ 50)	Select 3 ~ 50 (Select 3 ~ 100)	-	Select 8 ~ 50 (Select 8 ~ 50)	(5~81)	Select 5 ~ 30 (Select 5 ~ 30)	Select 5 ~ 30 (Select 5 ~ 30)	-
6-Surface Milled	6F	Length (A)	10~1200 (10~1200)	10~1200 (10~1200)	15~1200 (15~1200)	15~1200 (10~1200)	15~500 (15~500)	15~500 (15~500)	20~500 (15~500)	20~500 (15~500)	25~3000 (5~3000)	(5~3000)	25~2400 (5~3000)	25~500 (25~500)	10~700 (10~2495)	8~2400 (5~2497)	16~300 (16~300)	16~300 (16~300)	5~500 (5~500)
		Width (B)	10~1000 (8~1000)	10~1000 (8~1000)	10~1000 (8~1000)	10~1000 (8~1000)	10~200 (10~200)	10~200 (10~200)	20~200 (20~200)	10~800 (5~800)	(5~800)	8~800 (5~800)	10~300 (10~300)	10~300 (10~800)	8~800 (5~800)	8~800 (6~300)	6~300 (6~300)	6~300 (6~300)	5~300 (5~300)
		Thickness (T)	3~55 (3~100)	3~60 (3~60)	3~30 (3~60)	3~50 (3~60)	8~30 (8~30)	8~30 (8~30)	5~30 (5~30)	5~30 (5~30)	3~50 (2.5~150)	(3~50)	3~50 (2.5~98)	5~50 (5~50)	6~50 (6~50)	3~50 (2.5~100)	3~30 (3~30)	3~30 (3~30)	2~36 (2~36)
Upper-Lower Surface Rotary Grinding (4-Side Milled)	4F2RG	Length (A)	15~500 (15~500)	15~500 (15~500)	-	15~500 (15~500)	-	-	20~500 (20~500)	20~500 (20~500)	-	-	-	-	-	-	-	-	-
		Width (B)	10~200 (10~200)	10~200 (10~200)	-	10~200 (10~200)	-	-	20~200 (20~200)	20~200 (20~200)	-	-	-	-	-	-	-	-	-
		Thickness (T)	5~50 (5~50)	5~50 (5~50)	-	6.5~30 (6.5~30)	-	-	5~30 (5~30)	5~30 (5~30)	-	-	-	-	-	-	-	-	-
Upper-Lower Surface Grinding (4-Side Milled)	4F2G	Length (A)	15~500 (15~500)	-	15~500 (15~500)	-	15~500 (15~500)	-	20~500 (20~500)	20~500 (20~500)	25~500 (25~500)	-	25~500 (25~500)	-	25~500 (25~500)	25~500 (25~500)	-	-	-
		Width (B)	10~200 (10~200)	-	10~200 (10~200)	-	10~200 (10~200)	-	20~200 (20~200)	20~200 (20~200)	10~300 (10~300)	-	10~300 (10~300)	-	20~300 (20~300)	10~300 (10~300)	-	-	-
		Thickness (T)	5~50 (5~50)	-	6.5~30 (6.5~30)	-	8~30 (8~30)	-	5~30 (5~30)	5~30 (5~30)	5, 6, 7~49 (5~50)	-	5~49 (5~50)	-	7~50 (7~50)	5~50 (5~50)	-	-	-

● **Dimension Selectable Plates** [Features] Dimensions are fixed and more economical than Configurable Plates. (Excluding some sizes)

Classification	Structural Steel	Carbon Steel	Aluminum Alloy		
 Material	SS400	S50C	A5052P	A5052P High Precision	A2017P
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☞ 6F equivalent products are now available online.

● **A Dimension Configurable Plates** [Features] Dimensions of width and plate thickness are fixed, length can be specified in 1mm increment (0.1mm increment for Aluminum Cut Plates Standard / Precision Grade). Provided at more economical prices than Configurable Plates. (Excluding some sizes)

Classification		Structural Steel		Carbon Steel		Stainless Steel		Aluminum Alloy			Copper	
Material		SS400	*SS400 (6F Equiv.)	S50C	*S50C (6F Equiv.)	SUS303	SUS304	A5052P	A5052P High Precision	A2017P	Tough Pitch Copper	Oxygen Free Copper
Size (mm)	Length (A)	25~1200	15~1200	25~1200	15~1200	25~500	25~500	25~1200	100~1200	100~1200	25~300	25~300
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* EN 1.0038 Equiv. (6F Equiv.), EN 1.1206 Equiv. (6F Equiv.): Base material is milled on top, bottom, and side surfaces for cut by 1mm increment for shipments. Economical and short delivery time.

● **Blocks (Guaranteed Perpendicularity of All Angles)** [Features] 0.1mm/0.01mm Increment Dimension Configurable (Length, Width, Plate Thickness). Higher precision compared with Configurable Plates.

Product Name	Finish Method	Precision Standards				Structural Steel		Carbon Steel		Pre-Hardened Steel	Stainless Steel	Aluminum Alloy
		Dimension Increment	Tolerance	Thickness Flatness (per 100mm)	Perpendicularity (per 100mm)	EN 1.0038 Equiv.	EN 1.1206 Equiv.	EN 1.1206 Equiv.	EN 1.206 Equiv.	PX5® (Daido) NAK55® (Daido)	EN 1.4305 Equiv. EN 1.4301 Equiv.	EN AW-5052 Equiv. EN AW-2017 Equiv. EN AW-7075 Equiv.
Metal Plates		0.1mm	±0.10	0.04*	0.02 (Each Plane)	P.1797 P.1799	P.1797 P.1799	P.1797	-	-	P.1797	P.1800
High Precision Plates		0.01mm~	±0.01	0.01	0.02 (Each Plane)	P.1796	P.1796	-	-	P.1796	-	-

* For stainless steel, guaranteed value of flatness varies depending on thickness.

● **Flat Bar / Square Steel**

Product Name	Structural Steel	Stainless Steel	Stainless Steel	Aluminum Alloy	Copper, Brass
	Cold-Rolled	Cold-Rolled	Hot-Rolled	Cold-Rolled	Cold-Rolled
	EN 1.0038 Equiv. EN 1.1191 (cold drawn) Equiv.	EN 1.4301 Equiv.	EN 1.4301 Equiv. EN 1.4305 Equiv. EN 1.4401 Equiv. EN 1.4404 Equiv.	A6063S	Free-Cutting Brass (cadmium-free) Tough Pitch Copper
Flat Bar	P.1801	P.1801	Material Shop 24 Exclusive	P.1801	Material Shop 24 Exclusive
Square Steel	Available online.	Available online.	Material Shop 24 Exclusive	Available online.	Material Shop 24 Exclusive

☞ 6F equivalent products are now available online.

● **Shape Machining**

Product Name	Features	Structural Steel	Carbon Steel	Special Steel	Stainless Steel	Aluminum Alloy
		EN 1.0038 Equiv.	EN 1.1206 Equiv.	JIS-SKS93 EN 1.2379 Equiv.	EN 1.4305 Equiv.	EN AW-5052 Equiv. *EN AW-2017 Equiv.
L, concave and convex shaped, Inclined Blocks	Finished in L, concave, convex or trapezoid shape in 0.1mm increment.	P.1805~1809	P.1805~1809	Available online.	P.1805~1808	P.1805~1808
Machined Circular Plates	Finished in flat, concave or convex shape.	P.1810~1812	P.1810~1812	-	P.1810~1812	P.1810~1812