

角鋼 Angle

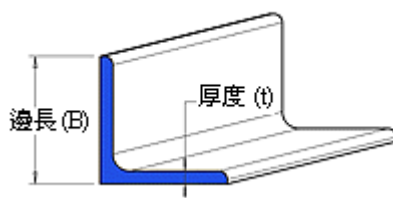
[可產製尺寸 Available Sizes](#)
[可產製鋼種 Available Grades](#)
[化學成份 Chemical Requirements](#)
[機械性質 Mechanical Requirements](#)
[產品用途 Products Use](#)

可產製尺寸 Available Sizes

邊長 Width (B) : 25mm ~ 100mm

厚度 Thickness (t) : 2.5mm ~ 13mm

長度 Length (L) : 6m ~ 12m



可產製鋼種 Available Grades

分類 Division	規格 Spec.	材質記號 Symbol
一般結構用 General Structure	CNS 2473	SS330,SS400,SS490,SS540
	JIS G3101	
	ASTM A36	A36
	AS 3679.1	GR300
焊接結構用 Welded Structure	CNS 2947	SM400A,SM490A
	JIS G3106	
	CNS 13812	SN490B
	JIS G3136	
	ASTM A572	Grade 50 type 2
	ASTM A709	Grade 50 type 2
結構用 Structure	EN 10025-2	S235JR,S235J0,S235J2
		S275JR,S275J0,S275J2
		S355JR,S355J0,S355J2,S355K2

化學成份 Chemical Requirements

規範鋼種 Spec.	材質記號 Symbol	化學成份 Chemical Composition (wt%)				
		C	Si	Mn	P	S
CNS 2473	SS330,SS400,SS490	-	-	-	0.050max	0.050max
JIS G3101	SS540	0.30max	-	1.60max	0.040max	0.040max

ASTM A36	A36	0.26max	0.40max	-	0.040max	0.050max
ASTM A572	Grade 50 type2	0.23max	0.40max	1.35max	0.040max	0.050max
ASTM A709	Grade 50 type2					
CNS 2947	SM400A	0.23max	-	2.5*Cmin	0.035max	0.035max
JIS G3106	SM490A	0.20max	0.55max	1.60max	0.035max	0.035max
CNS 13812	SN490B	0.18max	0.55max	1.60max	0.030max	0.015max
JIS G3136						
AS 3679.1	GR300	0.25max	0.50max	1.60max	0.040max	0.040max
EN 10025-2	S235JR	0.17max	-	1.40max	0.035max	0.035max
	S235J0	0.17max	-	1.40max	0.030max	0.030max
	S235J2	0.17max	-	1.40max	0.025max	0.025max
	S275JR	0.21max	-	1.50max	0.035max	0.035max
	S275J0	0.18max	-	1.50max	0.030max	0.030max
	S275J2	0.18max	-	1.50max	0.025max	0.025max
	S355JR	0.24max	0.55max	1.60max	0.035max	0.035max
	S355J0	0.20max	0.55max	1.60max	0.030max	0.030max
	S355J2	0.20max	0.55max	1.60max	0.025max	0.025max
	S355K2	0.20max	0.55max	1.60max	0.025max	0.025max

機械性質 Mechanical Requirements

分類 Spec.	種類記號 Symbol	拉 伸 試 驗				180° 彎曲試片,內側半徑 Bend Test 180° Inside Radius	衝擊 試驗 Impact test
		降伏強度 Yield Strength N/mm ² (ksi)		抗拉強度 Tensile Strength N/mm ² (ksi)	伸長率 Elongation (%)		
		直徑 mm					
		t ≤ 16	16 < t ≤ 40				
CNS 2473	SS330	205min	195min	330~430	26min[t ≤ 5]	0.5*t OK	-
					21min[5 < t ≤ 16]		
					26min[16 < t ≤ 50]		
JIS G3101	SS440	245min	235min	400~510	21min[t ≤ 5]	1.5*t OK	-
					17min[5 < t ≤ 16]		
					21min[16 < t ≤ 50]		
	SS490	285min	275min	490~610	19min[t ≤ 5]	2.0*t OK	-

	SS540	400min	390min	540min	15min[5<t≤16]	2.0*t OK	-
					19min[16<t≤50]		
					16min[t≤5]		
					13min[5<t≤16]		
					17min[16<t≤50]		
ASTM A36	A36	250(36)min		400-550(58-80)	20min[標距 (g.l)200mm]	-	-
ASTM A572	Grade 50 type 2	345(50)min		450(65)min	18min[標距 (g.l)200mm]	-	-
ASTM A709							
CNS 2947	SM400A	245min	235min	400~510	23min[t≤5]	-	-
					18min[5<t≤16]		
					22min[16<t≤50]		
JIS G3106	SM490A	325min	315min	490~610	22min[t≤5]	-	-
					17min[5<t≤16]		
					21min[16<t≤50]		
CNS 13812	SN490B	325~445(降伏比 80%以下)		490~610	17min[6≤t≤16]	-	依規格 Spec.
					21min[16<t≤50]		
EN 10025-2	S235JR,S235J0, S235J2	235min	225min	360~510	26min(g.l=5.65√S0)	-	依規格 Spec.
	S275JR,S275J0, S275J2	275min	265min	410~560	23min(g.l=5.65√S0)		
	S355JR,S355J0, S355J2,S355K2	355min	345min	470~630	22min(g.l=5.65√S0)		
AS 3679.1	GR300	t<11	11≤t≤17	440min	22min(g.l=5.65√S0)	-	-
		320min	300min				

產品用途 Products Use

角鋼：廠房架構、橋樑、輸電鐵塔，及一般構造用。

Angle bar : for use in building framing or bridges, structural uses for power transmission towers, or for general structural purposes.