

Plate:→



Mild Steel Plate

Product Shortname: PL

Specifications:

NZ/Australia	AS1594-HA250
	AS1594-HA300
	AS3678-250
	AS1594-HU300
Japan	JIS G3101-SS400

Size Designation: Length (m) x Width (mm) x Thickness (mm)

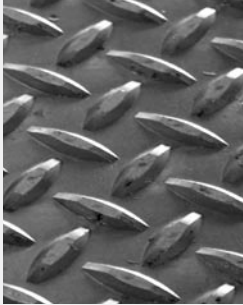
Sizes:

MILD STEEL PLATE (G250 & G300)																						
Length x width (mm)	Thickness (mm)																					
	3	4	5	6	8	10	12	16	20	25	32	40	50	60	65	80	100	120	130	150	200	
2400 x 1220	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
2700 x 2400																				✓		
3000 x 1520	✓	✓	✓	✓	✓	✓																
3100 x 2400																			✓			
3400 x 2400																		✓				
3600 x 1520	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
3600 x 1800	✓		✓	✓																		
4000 x 2400																		✓				
5200 x 2400																	✓				✓	
6000 x 1520			✓	✓																		
6000 x 1800		✓																				
6000 x 2400			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
7600 x 2400				✓																		
9000 x 2400			✓	✓	✓	✓	✓	✓	✓	✓												

Weight Calculation: kilograms per square metre = plate thickness (mm) x 7.85

Other sizes available on indent.

* Refer to page 89 for Easycut Profiling Service.



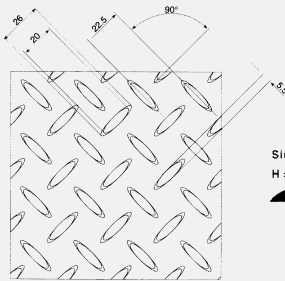
Mild Steel Chequer Plate

Product Shortname: CHEQ

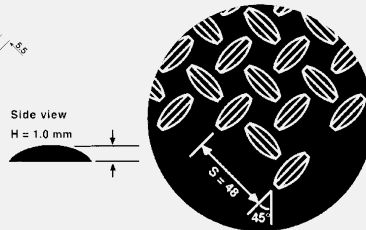
Specifications: NZ/Australia AS1594-HA250
AS3678-250
Japan JIS G3101-SS400

Size Designation: Length (m) x Width (mm) x Thickness (mm)

Plate Pattern: Two plate patterns are available depending on source



Bluescope Steel
(1800mm or 2100mm wide)



New Zealand Steel
(1220mm or 1520mm wide)

Length x width (mm)	Thickness (mm)				
	3	5	6	8	10
2400 x 1220	✓	✓	✓	✓	✓
3600 x 1520		✓	✓		

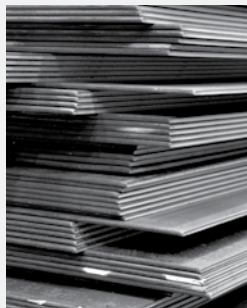
Weight Calculation: Extra weight of chequers length (m) x width (m) x 2.1 = kg/plate
Total weight: length (m) x width (m) x thickness (mm) x 7.85 + extra weight = kg/plate

Eg:
2400 x 1220 x 6mm Chequer Plate
Extra weight: $2.4 \times 1.22 \times 2.1 = 6.15$ kg/plate
Total weight: $2.4 \times 1.22 \times 6 \times 7.85 + 6.15 = 144.06$ kg/plate

Fletcher Easysteel offers a full range of flooring products including Plank (p 79),
Grating (p 76) and Gridmesh (p 72).

* Refer to page 89 for Easycut Profiling Service.

Plate:→



Atmospheric Corrosion Resistant Steel Plates (corten)

Product Shortname: PLME

Specifications: Korea JISG 3125 SPAH (Corten equivalent)
Australia AS1594-HW350

Size Designation:

Length (m) x Width (mm) x Thickness (mm)

Length x width (mm)	Thickness (mm)				
	2.5	3	4	5	6
2500 x 1250	✓	✓	✓	✓	✓
3600 x 1520		✓	✓	✓	

Atmospheric corrosion resistant steel plates are available on an ex-stock and indent basis.

Weight Calculation: kilograms per square metre = plate thickness (mm) x 7.85

* Note: Not all thicknesses are available in all widths and lengths.

* Refer to page 89 for Easycut Profiling Service.



Medium Strength Plate

Product Shortname: PLME

Specifications: NZ/Australia AS1594-HA350 AS3678-350
 Japan JIS G3106-SM50YA JIS G3101 55490
 UK EN10025 Grade FE510B (355JR)
 Korea JISG 3125 SPAH (Corten)

Supplied Conditions: Tensile Strength: 490 ~ 620 MPa, 350MPa Yield Strength
 (compared with Mild Steel Plate: 430-540MPa, 250MPa Yield Strength)

Size Designation: Length (m) x Width (mm) x Thickness (mm)

Length x width (mm)											
	5	6	8	10	12	16	20	25	32	40	50
6000 x 2000		✓	✓	✓	✓	✓	✓	✓	✓	✓	
6000 x 2400	✓	✓									✓

Weight Calculation: kilograms per square metre = plate thickness (mm) x 7.85.

Medium strength plate is available on an ex-stock and indent basis.
 We offer a cut to size service through our service centres.

* Note: Not all thicknesses are available in all widths and lengths.

* Refer to page 89 for Easycut Profiling Service.



Boiler Quality Plate

Product Shortname: PLB0

Specifications: Australia AS 1548-7-460R

Size Designation: Length (m) x Width (mm) x Thickness (mm)

Length x width (mm)	Thickness (mm)												
	6	8	10	12	16	20	25	32	40	50	60	80	100
5200 x 2400													✓
5400 x 2400									✓				
6000 x 2400	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	

* Note: Not all thicknesses are available in all widths and lengths.

Other grades available on indent.

Plate:→



High Strength Plate Grade 80

Product Shortname: PLHI

Description:

A high strength quenched and tempered plate, Grade 80 is approximately three times stronger than mild steel.

Supplied Conditions:

	Domex 650	Bisalloy 80	JFE HI780S	Sumiten 780S
Yield Strength	630-650	690	685	686
Tensile Strength	700-880	790 - 930	780 - 930	785 - 932
Elongation (16mm)	14%	18%	24%	24%

Size Designation: Length (m) x Width (mm) x Thickness (mm)

Size Range Available:

Thicknesses 3mm to 100mm

Widths 1500mm to 2500mm

Length 6000mm

Weight Calculation: kilograms per square metre = plate thickness (mm) x 7.85

Note: When fabricating high strength and wear resistant plate special procedures must be followed. Please contact your local Fletcher Easysteel branch for further information.

* Refer to page 89 for Easycut Profiling Service.



Wear Resistant Plate Grade 400, Grade 500

Product Shortname: PLWE

Description:

Abrasion resistant steel plate which has a longer life expectancy than mild steel. Abrasion resistant plate offers high resistance to both wear and impact applications. This can be a cost effective choice for equipment subjected to high levels of impact wear.

Supplied Conditions:

GRADE 400	Bisalloy 400	JFE EH400	Sumihard K400
Tensile	1320	1316	1325
Elongation	14%	19.8%	25%
Hardness (HB)	360 - 430	401 min	360 -440

GRADE 500	Bisalloy 500	JFE EH500	Sumihard K500
Tensile	1640	1449	1552
Elongation	10%	17.7%	21%
Hardness (HB)	477 - 534	477 min	450 - 550

Size Designation: Length (m) x Width (mm) x Thickness (mm)

Size Range Available:








Thickness: 6mm to 80mm
Widths: 1500mm to 2500mm
Length: 6000mm

Weight Calculation: kilograms per square metre = plate thickness (mm) x 7.85

Note: When fabricating high strength and wear resistant plate special procedures must be followed. Please contact your local Fletcher Easysteel branch for further information.

* Refer to page 89 for Easycut Profiling Service.

Structural Steel Plate INTERNATIONAL STANDARDS COMPARISON






							
AUSTRALIAN AS 3678	EUROPEAN* EN10025	BRITISH* BS 4360	GERMAN* DIN 17100	JAPANESE JIS	AMERICAN ASTM	INTER- NATIONAL ISO 630	Tensile Strength (MPa)
							290
			St33				300
200					A283A	Fe310-0	310
				G3101-SS330			330
	S235JR	40A,B C,D	St37-2 St37-3		A2383B	Fe360 A, B, C, D	360
					A283C		380
				G3101-SS400 G3106-SM400 A, B, C	A36 A573-400		400
250 250L15	S275JR S275J0 S275J2G3 S275J254		St44-2 St44-3		A283D A284C A529 A572-290		410
300, 300L15	Fe430B, C, D1, D2	43A, B, C, D			A633A	Fe430A, B, C, D	430
350 350L15					A573-450 A572-345		450
400, 400L15					A573-485		480
		50A, B, C, D	St52-3	G3101-SS490 G3106-SM490 A, B, C G3106-SM490 YA, YB		Fe510 B, C, D	490
450 450L15	S355JR S355J0 S355J2G3 S355J2G4			G3106-SM520 B,C G3101-SS540	A572-415	Fe510 B,C,D	520
							540

- This table indicates the approximate relationship between Australian grades and their international counterparts.
- Grades are shown in their increasing tensile strength order. In the case of American ASTM Standards some grades are also shown in the increasing yield strength (YS) order, as their position in the hierarchy is different when based on the yield strength compare to tensile strength (TS).

* EN10025 has replaced BS4360 and DIN17100 Standards.

- For grades with **BOLD** suffix letters C, D on British, European and International Standards, B, C on Japanese Standards and suffix numbers 2 and 3 on German Standards, the appropriate Australian alternative is the nearest L15 grade of the equivalent strength level (ie High or Medium).
- Grades readily available are highlighted in black.
- The grade/s within the same colour band show generally acceptable alternatives, provided relevant design factors are considered. Refer to your Fletcher EasySteel representative.

Boiler Quality Plate INTERNATIONAL STANDARDS COMPARISON

					
Tensile Strength (MPa)	AUSTRALIAN AS 1548	JAPANESE JIS	EUROPEAN EN 10028	AMERICAN ASTM	INTERNATIONAL ISO 9328.2
310				A285-A	
340				A285-B	
360			2-P235GH		P235
380				A285-C A516-55	
390			3-P275N		
400		G3115-SPV235 G3126-SLA235		A662-A	
410		G3103-SB410	2P265GH G3118-SGV410		P265
415				A515-60 A516-60	
430	7-430				
440		G3126-SLA325			
450		G3108-SB450 G3118-SGC450		A515-65 A516-65	
460	7-460		2-P295GH	A662-B	P290
480		G3103-SB480 G3118-SGV480			
490	7-490	G3115-SPV315 G3126-SLA360	3-P355N	A515-70 A516-70 A662-C A537-C11 A737-B A841	P315
	5-490				
510			2-P355GH		
520		G3115-SPV355		A299 A738-A	

- This table indicates the approximate relationship between Australian grades and their international counterparts. More detailed comparisons of these Standards/grades can be obtained by contacting your Fletcher Steel representative.
- Grades are shown in their increasing tensile strength order. AS1548-5-490 and equivalent grades have a higher minimum yield strength requirement than the corresponding AS1548-7-490 and equivalent grades.
- Grade equivalence shown is based on room temperature tensile properties only.
- Grades readily available are highlighted in black.
- It may be possible to substitute readily available grades for international grades outside the designated strength band shown, provided relevant design factors are considered. Refer to your Fletcher Easy Steel representative for further information.