

PLATES

Specifications

(1) ABSTRACT FROM MAIN SPECIFICATION

(Classified by Standards Association)

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|--|--|-------------------------------------|-------|--------------------------|-------|------------------------------------|-------|---|-------|-----------------------------------|----|------------------------------|----|-----------------------------------|----|-----------------------------------|-----------|--|---------|------------------------------------|-----------|--|-----------|--|-------------|--|-----------|--------------------------------------|---------|--------------------------|---------------|--|----|--|----|--|------|--|------|--|------|--|------|---|------|---|------|---|------|--|------|--|------|---|--|------|-------------------------------------|------------|--|--------|--|--------|----------------------------------|----|--|----|---|-----------|--|-------|--|----|---------------------------------------|----|---|----|---|----|--|----|------------------------------|----|--|----|------------------------------|----|---|
| <p>1. JIS Specifications
(Japanese Industrial Standards)</p> <table border="0"><tr><td>G3101</td><td>Steel plates for general structures</td></tr><tr><td>G3103</td><td>Steel plates for boilers</td></tr><tr><td>G3106</td><td>Steel plates for welded structures</td></tr><tr><td>G3114</td><td>Hot-rolled atmospheric corrosion resisting steel plates for welded structures</td></tr><tr><td>G3115</td><td>Steel plates for pressure vessels</td></tr></table> <p>2. Kawasaki Specifications</p> <table border="0"><tr><td>VP</td><td>Steel plates for gas vessels</td></tr><tr><td>AG</td><td>Steel plates for galvanizing pots</td></tr><tr><td>PV</td><td>Steel plates for pressure vessels</td></tr><tr><td>RIVER ACE</td><td>Quenched and tempered high tensile strength steel plates</td></tr><tr><td>KH, HTP</td><td>High tensile strength steel plates</td></tr><tr><td>RIVER TEN</td><td>Atmospheric corrosion resisting steel plates</td></tr><tr><td>RIVER TEN</td><td>Atmospheric corrosion resisting steel plates for welded structures</td></tr><tr><td>RIVER TEN-R</td><td>Atmospheric corrosion resisting steel plates for rolling stock</td></tr><tr><td>RIVER TEN</td><td>Sulfuric-acid resisting steel plates</td></tr><tr><td>MARINER</td><td>Anti-marine steel plates</td></tr><tr><td>KL, RIVER ACE</td><td>Steel plates for low temperature service</td></tr></table> <p>3. AB Specifications
(American Bureau of Shipping Rules)</p> <table border="0"><tr><td>AB</td><td>Ordinary strength hull structural steel plates</td></tr><tr><td>AB</td><td>High strength hull structural steel plates</td></tr></table> <p>4. AAR Specifications
(Association of American Railroads)</p> <table border="0"><tr><td>M128</td><td>High tensile strength plates for tank car tanks and other pressure vessels</td></tr></table> <p>5. ASTM Specifications
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(British Standards Institution)</p> <table border="0"><tr><td>BS15</td><td>Steel plates for general structures</td></tr><tr><td>BS1501-151</td><td>Carbon steel plates for pressure vessels</td></tr><tr><td>BS2762</td><td>Notch ductile steel plates for bridges and general building construction</td></tr><tr><td>BS4360</td><td>Weldable structural steel plates</td></tr></table> <p>7. BV Specifications
(Bureau Veritas)</p> <table border="0"><tr><td>BV</td><td>Steel for construction of hulls and engine parts</td></tr></table> <p>8. CR Specifications
(China Corporation Register of Shipping)</p> <table border="0"><tr><td>CR</td><td>Quality and testing of materials of hull, equipment, boiler and machinery</td></tr></table> <p>9. DIN Specifications
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(Germanischer Lloyd)</p> <table border="0"><tr><td>GL</td><td>Hull structural steel plates</td></tr><tr><td>GL</td><td>High tensile hull structural steel plates</td></tr></table> | BS15 | Steel plates for general structures | BS1501-151 | Carbon steel plates for pressure vessels | BS2762 | Notch ductile steel plates for bridges and general building construction | BS4360 | Weldable structural steel plates | BV | Steel for construction of hulls and engine parts | CR | Quality and testing of materials of hull, equipment, boiler and machinery | DIN 17100 | Steel plates for general structural purposes | G40.8 | Structural steel plates with improved resistance to brittle fracture | LR | Mild steel plates for hull structures | LR | Higher tensile steel plates for hull structures | NK | Ordinary steel plates for hull construction | NK | High strength steel plates for hull construction | NV | Hull structural steel plates | NV | Shipbuilding steel plates with controlled yield strength | GL | Hull structural steel plates | GL | High tensile hull structural steel plates |
| G3101 | Steel plates for general structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G3103 | Steel plates for boilers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G3106 | Steel plates for welded structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G3114 | Hot-rolled atmospheric corrosion resisting steel plates for welded structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G3115 | Steel plates for pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VP | Steel plates for gas vessels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AG | Steel plates for galvanizing pots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PV | Steel plates for pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RIVER ACE | Quenched and tempered high tensile strength steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KH, HTP | High tensile strength steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RIVER TEN | Atmospheric corrosion resisting steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RIVER TEN | Atmospheric corrosion resisting steel plates for welded structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RIVER TEN-R | Atmospheric corrosion resisting steel plates for rolling stock | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RIVER TEN | Sulfuric-acid resisting steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MARINER | Anti-marine steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KL, RIVER ACE | Steel plates for low temperature service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AB | Ordinary strength hull structural steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AB | High strength hull structural steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M128 | High tensile strength plates for tank car tanks and other pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A113 | Structural steel plates for locomotives and cars | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A131 | Structural carbon steel plates for ships | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A242 | High strength low alloy structural steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A283 | Low and intermediate tensile strength carbon-steel plates of structural quality | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A387 | Chromium-molybdenum alloy steel plates for pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A455 | Carbon-manganese steel plates for pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A515 | Carbon steel plates for pressure vessels for intermediate and higher temperature service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A516 | Carbon steel plates for pressure vessels for moderate and lower temperature service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BS15 | Steel plates for general structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BS1501-151 | Carbon steel plates for pressure vessels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BS2762 | Notch ductile steel plates for bridges and general building construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BS4360 | Weldable structural steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BV | Steel for construction of hulls and engine parts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR | Quality and testing of materials of hull, equipment, boiler and machinery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIN 17100 | Steel plates for general structural purposes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G40.8 | Structural steel plates with improved resistance to brittle fracture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LR | Mild steel plates for hull structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LR | Higher tensile steel plates for hull structures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NK | Ordinary steel plates for hull construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NK | High strength steel plates for hull construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NV | Hull structural steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NV | Shipbuilding steel plates with controlled yield strength | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GL | Hull structural steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GL | High tensile hull structural steel plates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(2) LIST OF SPECIFICATIONS

(Classified by tensile strength)

Tensile strength class	Uses	Specifications	Tensile strength kg/mm ²	Yield point kg/mm ²
41	General structures	JIS G3101 SS41	41	$t \leq 16$ 25 $16 < t \leq 40$ 24 $40 < t$ 22
	Welded structures	JIS G3106 SM41 A,B,C	41	$t \leq 16$ 25 $16 < t \leq 40$ 24 $40 < t$ 22
		BS4360-40A.B.C.D.E	41	$t \leq 16$ 23 $16 < t \leq 38$ 22
				$38 < t \leq 64$ 22 $38 < t \leq 102$ 21
	Structures	ASTM A36	41	25
	Bridges, general structures	BS 2762 ND IA, IIA, IIIA	41	$10 < t \leq 19$ 24 $19 \leq t$ 22
	Atmospheric corrosion resist steel	RIVER TEN 41	41	$t \leq 16$ 25 $16 < t \leq 40$ 24 $40 < t$ 22
		RIVER TEN 41S	41	$t \leq 16$ 25
	Atmospheric corrosion resist steel, welded structures	JIS G3114 SMA41 A,B,C	41	$t \leq 16$ 19 $16 < t$ 22 $40 < t$ 24
		RIVER TEN 41 A,B,C	41	$t \leq 16$ 25 $16 < t \leq 40$ 24 $40 < t$ 22
	Boilers	NV2-0, 1, 2, 3	41	--
		BV BP41	41	--
		CR Grade CRI	41	--
		DIN 17155 HII	41	$t \leq 16$ 26 $16 < t \leq 40$ 25
	Pressure vessels			$40 < t \leq 60$ 24
		JIS G3115 SPV24	41	$t \leq 40$ 24 $40 < t$ 22
		BS 1501-151-26 A,B	41	$t \leq 16$ 23 $16 < t \leq 32$ 23
				$32 < t \leq 64$ 22
		BS 1501-211-26A, 221-26A.B	41	$t \leq 16$ 24.1 $16 < t \leq 32$ 23.5
	Gas vessels			$32 < t \leq 64$ 22.7
		BS 1501-224-26	41	$t \leq 16$ 26.8 $16 < t \leq 32$ 25.2
				$32 < t \leq 64$ 23.6
		RIVER TEN VP41	41	28
		NK KT35	41	--
	Low temperature service	RIVER TEN KL33 A,B	41	33
	Automobiles	RIVER TEN KFR41	41	$t \leq 6$ 26 $t = 8$ 24
	Wheels	RIVER TEN WH41	41	--
	Hull structures	NK Grade A, B, C, D, E	41	--
		AB Grade A, R, B, C, CS, D, E	41	--
		LR Grade A, B, C, D, E	41	--
		NV Grade A, W, C, D, E	41	--
		BV Grade A, B, C, D	41	--
		CR Grade A, B, C, D, E	41	--
		NDS XXG3101	41	23
		GL	41	--
		ASTM A131A	41	22
42	General structures	DIN 17100 USt 42-1, 2 RSt	42	$t \leq 16$ 26 $16 < t \leq 40$ 25
		42-1, 2 St 42-3		$40 < t \leq 100$ 24
	Locomotives, cars	ASTM A113A	42	23
	Structures	ASTM A283D	42	23
	Machine structures	ASTM A284C	42	21
		ASTM A284D	42	23
	Structures	ASTM A441 ($101.6 < t \leq 203$)	42	28
	Structures	IS 226, IS 2062	42	$t < 6$ $6 < t \leq 20$ 26
				$20 < t \leq 40$ 24 $40 < t$ 23
	Structures	LR LM42	42	$t \leq 16$ 23.5 $16 < t \leq 40$ 22.5
				$40 < t \leq 63$ 21.5

Specifications

Tensile strength class	Uses	Specifications	Tensile strength kg/mm ²	Yield point kg/mm ²
42	Boilers	JIS G3103-SB42	42	23
		LR LP421, 422	42	--
		NK KP42A, B	42	0.5T
		AB APE, APL	42	22.5
	Pressure vessels	ASTM A387C	42	25
		ASTM A387D	42	21
	Low temperature vessels	ASTM A410LT5	42	21
	Pressure vessels	ASTM A442-60	42	22
	Pressure vessels, intermediate and higher temperature	ASTM A515-60	42	22
	Pressure vessels, moderate and lower temperature	ASTM A516-60	42	22
	Pressure vessels	RIVER TEN PV42A	42	TSX0.5
44	Structures	ASTM A242 Type	44	29.5
	Structures	ASTM A440 (38.1<t≤101.6)	44	30
		ASTM A441 (38.1<t≤101.6)	44	30
	General structures	BS 15-2	44	9.53<t≤19.05 25 19.05<t≤38.1 24
		BS 15-3	44	38.1≤t 23
		BS 1449 En2D/A, 2D/B, 2D	44	25
	Railroads	BS 24-621, 631	44	--
	Bridges, general structures	BS 2762 ND1B, IIB, IIIB, IVB	44	10<t≤19 25 19<t 24
	Welded structures	BS4360-43A.B.C.D.E	44	t≤16 25 16<t≤38 24
				38<t≤64 23 64<t≤102 22
	Structures	DIN 17100 RSt46-2, St46-3	44	t≤16 29 16<t≤40 28 40≤t≤100 27
	Structures	IRS-M5	44	--
	Boilers	NV NV3-0, 1, 2	44	t≤16 28 16<t≤40 26 46<t≤100 25
		NV NV7-1	44	t≤16 28 16<t≤40 27 40<t≤100 27
		NV NV7-2	44	t≤16 31 16<t≤40 30 40<t≤100 30
	Pressure vessels	BS 1501-151-28A	44	t≤16 25 16<t≤32 24 32<t≤64 23
		BS 1501-151-28B	44	t≤16 25 16<t≤32 25 32<t≤64 24
		BS 1501-161-28A	44	t≤16 25.2 16<t≤32 23.6 32<t≤64 23.3
		BS 1501-161-28B	44	t≤16 25.2 16<t≤32 25.2 32<t≤64 23.9
		BS 1501-211-28A, 221-28A	44	t≤16 26 16<t≤32 25.2 32<t≤64 24.4
		BS 1501-211-28B, 221-28B	44	t≤16 26 16<t≤32 26 32<t≤64 24.7
		BS 1501-224-28	44	t≤16 29.1 16<t≤32 27.6 32<t≤64 26
	Boilers	DIN 17155 HIII	44	t≤16 28 16<t≤40 27 40<t≤60 26
		DIN 17155 15Mo3	44	t≤16 28 16<t≤40 27 40<t≤60 27

Specifications

Tensile strength class	Uses	Specifications	Tensile strength kg/mm ²	Yield point kg/mm ²
44	Boilers	DIN 17155 13CrMo44	44	$t \leq 16$ 31 $16 < t \leq 40$ 30 $40 < t \leq 60$ 30
45	Gas vessels	RIVER TEN VP45	45	30
	Wheels	RIVER TEN WH45	45	31
	Hull structures	GL-F32, G32	45	$t \leq 35$ 32 $35 < t \leq 50$ 31
	Hull structures	NDS XXG3102B NS30C	45	30
	Boilers	NV7-3	45	29
	Low temperature service	RIVER TEN KL36B	45	36
	Structures	CSA G40.8	45	$t \leq 15.9$ 28 $15.9 < t \leq 25.4$ 26 $25.4 < t \leq 38.1$ 25
	Vessels, intermediate and higher temperature	ASTM A515-65	45	24
46	Hull structures	NDS XXG3102B-NS30B	46	31
	Boilers	JIS G3103 SB46	46	25
	Boilers	JIS G3103 SB46M	46	25
		NK KP46	46	0.5T
		AB APF, APM	46	24.5
		AB APH	46	26
	Boilers, pressure vessels	ASTM A203A, A203D	46	26
		ASTM A204A	46	26
	Pressure vessels	ASTM A387B	46	28
	Boilers, pressure vessels, intermediate and higher temperature	ASTM A515-65	46	25
	Pressure vessels, moderate and lower temperature	ASTM A516-65	46	25
	Low temperature service	NK KT50N, 50Q	46	--
	Low temperature pressure vessels	ASTM A203ALT, DLT	46	26
	Rolling stock (Atmospheric corrosion resisting)	RIVER TEN-R (C)	46	32
47	Structures	ASTM A440 ($19 < t \leq 38$)	47	32
		ASTM A441 ($19 < t \leq 38$)	47	32
	Pressure vessels	BS 1501-211-30A, 221-30A	47	$t \leq 16$ 27.9 $16 < t \leq 32$ 26.9 $32 < t \leq 64$ 26.5
		BS 1501-211-30B, 221-30B	47	$t \leq 16$ 27.9 $16 < t \leq 32$ 27.9 $32 < t \leq 26.5$
		BS 1501-213-30	47	$t \leq 16$ 32.3 $16 < t \leq 32$ 31.5 $32 < t \leq 64$ 30.7
		BS 1501-224-30	47	$t \leq 16$ 31.5 $16 < t \leq 32$ 29.9 $32 < t \leq 64$ 28.3
	Boilers	LR LP471, 472	47	--
		NV Grade NV5-0, 1, 2	47	$t \leq 16$ 29 $16 < t \leq 40$ 28 $40 < t \leq 100$ 26
		DIN 17155 HIV	47	$t \leq 16$ 29 $16 < t \leq 40$ 28 $40 < t \leq 60$ 27
		DIN 17155 17Mn4	47	$t \leq 16$ 29 $16 < t \leq 40$ 28 $40 < t \leq 60$ 28

Specifications

Tensile strength class	Uses	Specifications	Tensile strength kg/mm ²	Yield point kg/mm ²
49	Structures	ASTM A242 Type 1	49	35
	Structures	ASTM A440 (t≤19)	49	35
		ASTM A441 (t≤19)	49	35
	Boilers	JIS G3103 SB49, 49M	49	27
		NK KP49	49	27
	Boilers, pressure vessels	ASTM A203B, A203E	49	28
		ASTM A204B	49	28
		ASTM A225A	49	28
		AB APC, API	49.5	27
	Boilers, pressure vessels, intermediate and higher temperature	ASTM A515-70	49	26
	Boilers, pressure vessels, moderate and lower temperature	ASTM A516-70FR, F	49	27
	Low temperature pressure vessels	ASTM A203ELT	49	28
	Rolling stock (Atmospheric corrosion resisting)	RIVER TEN-R (H,P)	49	35
50	General structures	JIS G3101 SS50	50	t≤16 29 16<t≤40 28 40<t 26
	Welded structures	JIS G3106 SM50A,B,C	50	t≤16 33 16<t≤40 32 40<t 30
		JIS G3106 SM50YA, YB	50	t≤16 37 16<t≤40 36 40<t 34
		BS4360-50A.B.C.D.E	50	t≤16 36 16<t≤38 35
				39<t≤64 34 64<t≤102 33
	Gas vessels	RIVER TEN VP50	50	36
	High yield point structures	BS 968	50	t≤9.5 36 9.5<t≤16 36
				16<t≤31.7 35 31.7<t≤50.8 36
				50.8<t -
	Structures	DIN 17100 St50-1, 50-2	50	t≤16 30 16<t≤40 29
				40<t≤100 28
	Hull structures	NK Kind of No. 1 Grade A,D,E	50	32
		AB Grade AH,BH,CH,DHS,EH	50	32
		GL-F36, G36	50	t≤35 36 35<t≤50 35
	High tensile steel	RIVER TEN KH36A,B	50	t≤16 37 16<t≤40 36 40<t 34
	Atmospheric corrosion resist. steel	RIVER TEN 50M	50	t≤16 33 16<t≤40 32 40<t 30
	Atmospheric corrosion resist., welded structures	JIS G3114 SMA50A,B,C	50	t≤16 19 16<t 22 40<t 24
		RIVER TEN 50A,B,C	50	t≤16 37 16<t≤40 36 40<t 34
		RIVER TEN 50K	50	33
	Sulfuric-acid corrosion resisting steel			
	Anti-marine steel	RIVER TEN MARINER	50	36
	Boilers, pressure vessels	JIS G3115 SPV32	50	t≤40 32 40<t 30
		NV Grade NV4-0,1,2,3,4	50	t≤16 34 16<t≤40 33
				40<t≤100 32
	Pressure vessels	NV Grade NV25-1,2,3,4	50	22
		BS 1501-211-32A, 221-32A	50	t≤16 29.6 16<t≤32 29
				32<t≤64 27.9
		BS 1501-211-32B, 221-32B	50	t≤16 29.6 16<t≤32 29.6
				32<t≤64 28.8

Specifications

Tensile strength class	Uses	Specifications	Tensile strength kg/mm ²	Yield point kg/mm ²
50	Pressure vessels	BS 1501-213-32	50	$t \leq 16$ 34.6 $16 < t \leq 32$ 33.9 $32 < t \leq 64$ 33.1
		BS 1501-224-32	50	$t \leq 16$ 33.1 $16 < t \leq 32$ 31.5 $32 < t \leq 64$ 29.9
	Low temperature service Structures	NK Kind of No.2 K5T-50Q	50	--
		DIN 17100 St50, 50-2	50	$t \leq 16$ 30 $16 < t \leq 40$ 29 $40 < t \leq 100$ 28
52	Structures	DIN 17100 St52-3	52	$t \leq 16$ 36 $16 < t \leq 30$ 35 $30 < t \leq 50$ 34
	Boilers	LR LP521,522	52	--
		IS 2002-2B	52	T.S. x 0.50
		NV Grade NV6	52	$t \leq 16$ 33 $16 < t \leq 40$ 32 $40 < t \leq 100$ 31
	Pressure vessels	DIN 17155 19Mn5	52	$t \leq 16$ 33 $16 < t \leq 40$ 32 $46 < t \leq 60$ 32
		ASTM A302A	52	31
	Welded structures	JIS G3106 SM53B,C	53	$t \leq 16$ 37 $16 < t \leq 40$ 36 $40 < t$ 34
		WES (HPI) Kind of No.1 HW36	53	36
53	High tensile steel, welded structures	RIVER TEN 53B,C	53	$t \leq 16$ 37 $16 < t \leq 40$ 36 $40 < t$ 34
	Atmospheric corrosion resist, welded structures	AB APJ	53	30.5
	Boilers, pressure vessels	ASTM A204C	53	30
		ASTM A299	53	30
		ASTM A302A	53	32
		JIS G3115 SPV36	53	$t \leq 40$ 36 $40 < t$ 34
	Pressure vessels	ASTM A387D, A387E	53	32
	Unfired pressure vessel	ASTM A455A	53	26
55	General structures	JIS G3101 SS55	55	$t \leq 16$ 41 $16 < t \leq 40$ 40 $40 < t$ -
	Structures	IS 961 St 58-HT, HTC	55	$6 < t \leq 28$ 36 $28 < t \leq 45$ 35 $45 < t \leq 63$ 52 $63 < t$ 50
	Welded structures	BS4360-55C.E	55	$t \leq 16$ 45 $16 < t \leq 38$ 44 $38 < t \leq 64$ 42
	Railroads	BS24-632A, B	55	$t \leq 25.4$ 33 $t > 25.4$ 31
	Hull structures	GL-C42	55	$t \leq 35$ 42 $35 < t \leq 50$ 41
	Gas vessels	RIVER TEN VP55	55	38
	High tensile steel	RIVER TEN KH40A, B	55	$t \leq 16$ 41 $16 < t \leq 40$ 40 $40 < t$ 38
		RIVER TEN HP55W,WA,WB	55	36
	Abrasion resist steel	RIVER TEN CrMn55	55	34
56	Boilers	JIS G3103 SB56M	56	35
	Boilers, pressure vessels	ASTM A302B,C,D	56	35
57	Tank car tanks, pressure vessels	AAR M128	57	35
	High tensile steel, welded structures	RIVER TEN HTP57W,WA,WB	57	40
		WES (HPI) Kind of No.2 HW40	57	40
58	Welded structures	JIS G3106 SM58	58	$t \leq 16$ 47 $16 < t \leq 40$ 46 $40 < t$ 44
	Bridges, general structures	BS548	58	$6.4 < t \leq 31.8$ 36 $31.8 < t \leq 44.5$ 35 $44.5 < t \leq 57.1$ 33 $57.1 < t \leq 69.9$ 32 $69.9 < t$ 30

Specifications

Tensile strength class	Uses	Specifications	Tensile strength kg/mm ²	Yield point kg/mm ²
58	Structures	IS 961 St55-HTW, HTWC	58	6<t≤16 36 16<t≤32 35 32<t≤63 34 63<t 29
	Hull structures	NDS XXG3103 NS46B, 46C	58	46
	Pressure vessels	JIS G3115 SPV 46	58	t≤40 46 40<t 46
	Atmospheric corrosion resist, welded structures	JIS G3114 SMA58	58	t≤16 19 16<t 26 40<t 20
		RIVER TEN 58	58	t≤16 47 16<t≤40 46 40<t 44
60	Structures	DIN 17100 St60-1, 2	60	t≤16 34 16<t≤40 33 40<t≤100 32
	Hull structures	NK Kind of No.2 Grade A,D,E	60	46
	Quenched and tempered high tensile steel	RIVER ACE 60	60	50
	Non-tempered high tensile steel	RIVER TEN HTP60W	60	45
	High tensile steel, welded structures	WES (HPI) Kind of No.3 HW45	60	45
	Abrasion resist steel	RIVER TEN Cr Mn60	60	40
62	Quenched and tempered high tensile steel	RIVER ACE 60H	62	50
	Atmospheric corrosion resist, high tensile, welded structures	WES (HPI) Kind of No.4 HW50	62	50
	Atmospheric corrosion resist., welded structures	RIVER TEN 62	62	t≤16 50 16<t≤40 50 40<t 50
	Low temperature pressure vessels	JIS G3115 SPV50	62	t≤40 50 40<t -
	Low temperature service	RIVER ACE 60L	62	50
68	High tensile steel, welded structures	WES (HPI) Kind of No.5 HW56	68	56
70	Structures	DIN 17100 St70-2	70	t≤16 37 16<t≤40 36 40<t≤100 35
	Quenched and tempered high tensile steel	RIVER ACE 70	70	60
	Low temperature pressure vessels	ASTM A353LT4	70	53
74	Quenched and tempered high tensile steel	RIVER ACE 70H	74	63
	High tensile steel, welded structures	WES (HPI) Kind of No.6 HW63	74	63
	Low temperature service	RIVER ACE 70L	74	63
80	Quenched and tempered high tensile steel	RIVER ACE K-O	80	70
	High tensile steel, welded structures	WES (HPI) Kind of No.7 HW70	80	70
88	High tensile steel, welded structures	WES (HPI) Kind of No. 8 HW80	88	80
97	High tensile steel, welded structures	WES (HPI) Kind of No.9 HW90	97	90

Imperial Units JIS (18.524 kg/in ft²)

Thickness		Unit weight	Width x Length, ft							
t		M	4 x 8	5 x 10	5 x 20	5 x 30	6 x 20	6 x 24	6 x 30	8 x 30
in	mm	kg/ft ²	32	50	100	150	120	144	180	240
1/16	1.59	1.158	37.1	57.9	116	174	139	167	208	278
1/8	3.18	2.316	74.1	116	232	347	278	334	417	556
3/16	4.76	3.473	111	174	347	521	417	500	625	834
1/4	6.35	4.631	148	232	463	695	556	667	834	1,111
5/16	7.94	5.789	185	289	579	868	695	834	1,042	1,389
3/8	9.53	6.946	222	347	695	1,042	834	1,000	1,250	1,667
7/16	11.11	8.104	259	405	810	1,256	972	1,167	1,459	1,945
1/2	12.70	9.262	296	463	926	1,389	1,111	1,334	1,667	2,223
9/16	14.24	10.42	333	521	1,042	1,563	1,250	1,500	1,876	2,501
5/8	15.88	11.58	371	579	1,158	1,737	1,390	1,668	2,084	2,779
11/16	17.46	12.74	408	637	1,274	1,911	1,529	1,835	2,293	3,058
3/4	19.05	13.89	444	694	1,389	2,084	1,667	2,000	2,500	3,334
13/16	20.64	15.05	482	752	1,505	2,254	1,806	2,167	2,709	3,612
7/8	22.23	16.21	519	810	1,621	2,432	1,945	2,334	2,918	3,890
15/16	23.81	17.37	556	868	1,737	2,606	2,084	2,501	3,127	4,169
1	25.40	18.52	593	926	1,852	2,778	2,222	2,667	3,334	4,445
1 1/8	28.58	20.84	667	1,042	2,084	3,126	2,501	3,001	3,751	5,002
1 1/4	31.75	23.16	741	1,158	2,316	3,474	2,779	3,335	4,169	5,558
1 3/8	34.93	25.47	815	1,274	2,547	3,820	3,056	3,668	4,585	6,113
1 1/2	38.10	27.79	889	1,390	2,779	4,168	3,335	4,002	5,002	6,670
1 5/8	41.28	30.10	963	1,505	3,010	4,515	3,612	4,334	5,418	7,224
1 3/4	44.45	32.42	1,037	1,621	3,242	4,863	3,890	4,668	5,836	7,781
1 7/8	47.63	34.73	1,111	1,736	3,473	5,210	4,168	5,001	6,251	8,335
2	50.80	37.05	1,186	1,852	3,705	5,558	4,446	5,335	6,669	8,892
2 1/2	63.50	46.31	1,482	2,316	4,631	6,946	5,557	6,669	8,336	11,114
3	76.20	55.57	1,778	2,778	5,557	8,336	6,668	8,002	10,003	13,337
4	101.60	74.10	2,371	3,705	7,410	11,115	8,892	10,670	13,338	17,784
5	127.00	92.62	2,964	4,631	9,262	13,893	11,114	13,337	16,672	22,229
6	152.40	111.1	3,557	5,558	11,114	16,672	13,338	16,005	20,006	26,675

Metric units (7.85 kg/mm m² - 0.7293 kg/mm ft²)

Thickness	Unit weight	Width x Length, ft										
t	M	3 x 6	4 x 8	4 x 10	4 x 16	4 x 20	5 x 10	5 x 20	6 x 20	6 x 30	8 x 20	8 x 30
in	kg	18	32	40	64	80	50	100	120	180	160	240
1.2	0.8752	15.8	28.0	35.0	56.0	70.0	43.8	87.5	105	157.5	140	210
1.6	1.167	21.0	37.3	46.7	74.7	93.4	58.4	117	140	210	186.7	280
1.9	1.386	24.9	44.4	55.4	88.7	111	69.3	139	166.3	249.4	221.7	332.5
2.3	1.677	30.2	53.7	67.1	107	134	83.9	168	201.3	301.9	268	402.5
2.6	1.896	34.1	60.7	75.8	121	152	94.8	190	227.6	341	303	455
3.0	2.188	39.4	70.0	87.5	140	175	109	219	262.6	393.8	350	525
3.2	2.334	42.0	74.7	93.4	148	187	117	233	280	420	373	560
4.5	3.282	59.1	105	131	210	263	164	328	393.9	590.8	525	787.5
5.0	3.646	65.6	117	146	233	292	182	365	437.6	656.4	583	875
6	4.376	78.8	140	175	280	350	219	438	525	787.7	700	1,050
6.35	4.629	83.32	148	185	296	370	231.5	463	555.8	833.7	740.8	1,111
7	5.105	91.9	163	204	327	408	255	510	612.7	919	817	1,225
8	5.834	105	187	233	373	467	292	583	700	1,050	933	1,400
9	6.564	118	210	263	420	525	328	656	787.7	1,181	1,050	1,575
10	7.293	131	233	292	467	583	365	729	875	1,313	1,167	1,750
11	8.022	144	257	321	513	642	401	802	962.8	1,444	1,283	1,925
12	8.752	158	280	350	560	700	438	875	1,050	1,575	1,400	2,100
12.7	9.262	167	296	370	593	741	463	926	1,111	1,667	1,482	2,222
13	9.481	171	303	379	607	758	474	948	1,137	1,706	1,517	2,275
14	10.21	184	327	408	653	817	510	1,021	1,225	1,838	1,633	2,450
15	10.94	197	350	438	700	875	547	1,094	1,312	1,969	1,750	2,625
16	11.67	210	373	467	747	934	584	1,167	1,400	2,100	1,867	2,800
17	12.40	223	397	496	794	992	620	1,240	1,488	2,231	1,983	2,975
18	13.13	236	420	525	840	1,050	656	1,313	1,575	2,363	2,100	3,150
19	13.86	249	444	554	887	1,109	693	1,386	1,663	2,494	2,217	3,325
20	14.59	263	467	584	934	1,167	730	1,459	1,750	2,626	2,333	3,500
21	15.32	276	490	613	980	1,226	766	1,532	1,838	2,757	2,450	3,675
22	16.04	289	513	642	1,027	1,283	802	1,604	1,925	2,888	2,567	3,850
23	16.77	302	537	671	1,073	1,342	838	1,677	2,013	3,019	2,683	4,025
24	17.50	315	560	700	1,120	1,400	875	1,750	2,100	3,150	2,800	4,200
25	18.23	328	583	729	1,167	1,458	912	1,823	2,188	3,282	2,916	4,375
25.4	18.52	333	593	741	1,185	1,482	926	1,852	2,223	3,334	2,963	4,445
26	18.96	341	607	758	1,213	1,517	948	1,896	2,275	3,413	3,033	4,550
27	19.69	354	630	788	1,260	1,575	984	1,969	2,363	3,544	3,150	4,725
28	20.42	368	653	817	1,307	1,634	1,021	2,042	2,450	3,676	3,267	4,900
29	21.15	381	677	846	1,354	1,692	1,058	2,115	2,538	3,807	3,383	5,075
30	21.88	394	700	875	1,400	1,750	1,094	2,188	2,626	3,938	3,500	5,250
32	23.34	420	747	934	1,494	1,867	1,167	2,334	2,800	4,201	3,733	5,600
34	24.80	446	794	992	1,587	1,984	1,240	2,480	2,976	4,463	3,967	5,950
36	26.25	472	840	1,050	1,680	2,100	1,312	2,625	3,150	4,726	4,200	6,300
38	27.71	499	887	1,108	1,773	2,217	1,386	2,771	3,326	4,989	4,433	6,650
40	29.17	525	933	1,167	1,867	2,334	1,458	2,917	3,500	5,251	4,667	7,000
45	32.82	591	1,050	1,313	2,100	2,626	1,641	3,282	3,938	5,908	5,250	7,875
50	36.46	656	1,167	1,458	2,334	2,917	1,823	3,646	4,376	6,564	5,833	8,750
55	40.11	722	1,284	1,604	2,567	3,209	2,006	4,011	4,813	7,220	6,417	9,625
60	43.76	788	1,400	1,750	2,801	3,501	2,188	4,376	5,251	7,877	7,000	10,500
65	47.40	853	1,517	1,896	3,034	3,792	2,370	4,740	5,689	8,533	7,583	11,375
70	51.05	919	1,634	2,042	3,267	4,084	2,552	5,105	6,127	9,190	8,166	12,250
80	58.34	1,050	1,867	2,334	3,734	4,667	2,917	5,834	7,002	10,502	9,333	14,000
90	65.64	1,182	2,100	2,626	4,201	5,251	3,282	6,564	7,877	11,815	10,500	15,750
100	72.93	1,313	2,334	2,917	4,668	5,834	3,647	7,293	8,752	13,286	11,666	17,500
110	80.22	1,444	2,567	3,209	5,134	6,418	4,011	8,022	9,627	14,441	12,833	19,250
120	87.52	1,575	2,801	3,501	5,601	7,002	4,376	8,752	10,505	15,543	14,000	21,000
125	91.16	1,640	2,916	3,646	5,832	7,292	4,558	9,116	10,940	16,410	14,583	21,875
130	94.81	1,707	3,034	3,792	6,080	7,585	4,741	9,481	11,378	17,067	15,166	22,750
140	102.1	1,838	3,267	4,084	6,534	8,168	5,105	10,210	12,253	18,380	16,333	24,500
150	109.4	1,969	3,501	4,376	7,002	8,752	5,470	10,940	13,128	19,692	17,500	26,250

Chequered (Floor) Plates

WEIGHT TABLE

Thickness	Unit weight	Width x Length							
		(mm)							
mm	kg/m ²	914 x 1,829	914 x 3,658	1,219 x 2,438	1,219 x 3,048	1,219 x 4,877	1,219 x 6,096	1,524 x 3,048	1,524 x 6,096
2.3	19.73	33.0	66.0	58.6	73.3	117	147	91.6	183
3.0	25.26	42.2	84.5	75.1	93.9	150.2	187.7	117.3	235
3.2	26.79	44.8	89.6	79.6	99.6	159	199	124	249
4.5	36.99	61.8	124	110	137	220	275	172	344
6.0	48.77	81.5	163	145	181	290	362	227	453
8.0	64.47	108	216	192	240	383	479	299	599
9.0	72.32	121	242	215	269	430	537	336	672
10	80.17	134	268	238	298	477	596	372	745
12	95.87	167	320	285	356	570	712	445	891

WEIGHT TABLE

Thickness	Unit weight	Width x Length							
		(inch)							
in	lb/ft ²	3 x 6	3 x 12	4 x 8	4 x 10	4 x 16	4 x 20	5 x 10	5 x 20
0.091	4.04	72.75	145.5	129.2	161.6	257.9	324.1	201.9	403.4
0.118	5.17	93.09	186.2	165.5	206.9	331.0	413.7	258.6	517.2
0.126	5.49	98.77	197.5	175.5	219.6	350.5	438.7	273.4	549
0.177	7.58	136.2	273.4	242.5	302	485	606.3	379.2	758.4
0.236	9.99	179.7	359.4	319.7	399	639.3	798.1	500.4	998.7
0.315	13.2	238.1	476.2	423.3	529.1	844.4	1,056	659.2	1,321
0.354	14.8	266.8	533.5	474	593.9	948	1,184	740.8	1,482
0.394	16.4	295.4	590.8	524.7	657	1,052	1,314	820.1	1,642
0.472	19.6	368.2	705.5	628.3	748.8	1,257	1,570	981.1	1,964

Cold Rolled Steel Sheets (JIS G3141)

DIMENSIONS AND WEIGHTS

For Reference only		Thickness	Sizes	lb/pce	kg/pce	Pcs/M. Ton
Gauge No.	mm	mm	ft			
30 SWG	0.315	0.3	3 x 6	8.6821	3.9382	253.9231
30 BG	0.3124		3 x 8	11.5762	5.2509	190.4435
30 USC	0.318		4 x 8	15.4349	7.0012	142.8327
30 SWG	0.300					
28 BWG	0.360	0.35	3 x 6	10.1292	4.5946	217.6468
29 SWG	0.3454		3 x 8	13.5056	6.1261	163.2360
29 USC	0.357		4 x 8	18.0075	8.1682	122.4260
29 BG	0.3531					
26 BWG	0.460	0.45	3 x 6	13.0233	5.9074	169.2792
26 SWG	0.457		3 x 8	17.3644	7.8765	126.9600
27 BG	0.4432		4 x 8	23.1525	10.5019	95.2209
25 BWG	0.510	0.5	3 x 6	14.4703	6.5637	152.3531
25 SWG	0.508		3 x 8	19.2938	8.7517	114.2636
26 BG	0.4981		4 x 8	25.7250	11.6688	85.6986
24 BWG	0.560	0.55	3 x 6	15.9174	7.2201	138.5023
24 SWG	0.559		3 x 8	21.2231	9.6268	103.8767
25 BG	0.5598		4 x 8	28.2975	12.8357	77.9078
23 SWG	0.610	0.6	3 x 6	17.3644	7.8765	126.9600
23 BWG	0.640		3 x 8	23.1525	10.5019	95.2209
24 USC	0.635		4 x 8	30.8700	14.0026	72.5624
24 BG	0.6298					
22 SWG	0.711	0.7	3 x 6	20.2584	9.1892	108.8234
22 BWG	0.710		3 x 8	27.0112	12.2522	81.6180
23 USC	0.714		4 x 8	36.0150	16.3363	61.2134
23 BG	0.7066					
21 BWG	0.810	0.8	3 x 6	23.1525	10.5019	95.2209
21 SWG	0.813		3 x 8	30.8700	14.0026	71.4153
22 USC	0.794		4 x 8	41.1600	18.6701	53.5616
20 BWG	0.890	0.89	3 x 6	25.7572	11.6834	85.5916
21 BG	0.8865		3 x 8	34.3429	15.5779	64.1935
			4 x 8	45.7905	20.7705	48.1452
			4 x 10	57.2400	25.9639	38.5046
20 SWG	0.914	0.914	3 x 6	26.4517	11.9985	83.3438
			3 x 8	35.2690	15.9980	62.5079
			4 x 8	47.0253	21.3306	46.8810
19 BWG	1.070	1.0	3 x 6	28.9406	13.1274	76.1765
19 SWG	1.016		3 x 8	38.5875	17.5032	57.1325
20 USC	0.952		4 x 8	51.4500	23.3376	42.8493
20 BG	0.9957					
18 SWG	1.219	1.2	3 x 6	34.7287	15.7529	63.4804
18 BG	1.257		3 x 8	46.3050	21.0039	47.6102
18 BWG	1.240		4 x 8	61.7399	28.0051	35.7078
18 USC	1.270					
16 USC	1.588	1.5	3 x 6	43.4109	19.6911	50.7844
17 BWG	1.470		3 x 8	57.8812	26.2548	38.0883
			4 x 8	77.1749	35.0063	28.5663
14 SWG	2.032	2.0	3 x 6	57.8812	26.2548	38.0883
14 USC	1.984		3 x 8	77.1749	35.0063	28.5663
14 BG	1.994		4 x 8	102.8999	46.6751	21.4247
12 SWG	2.642	2.6	3 x 6	75.2454	34.1311	29.2908
10 BG	2.590		3 x 8	100.3272	45.5081	21.9681
			4 x 8	133.7696	60.6775	16.4761

Galvanized Steel Sheets

JIS G3302 - 1987 SGCC

JIS G3302 - 1987 SGHC

Thickness	Width x Length								
	4' x 8'								
	1219 mm x 2438 mm								
	Z 18			Z 22 / Z 25			Z 27		
Calculated Weight									
mm	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt
0.30	7.724	17.028	129.5	7.905	17.428	126.5	8.131	17.926	123.0
0.35	8.891	19.600	112.5	9.072	20.000	110.2	9.298	20.498	107.6
0.36	9.124	20.114	109.6	9.305	20.514	107.5	9.531	21.012	104.9
0.40	10.057	22.172	99.4	10.238	22.571	97.7	10.464	23.069	95.6
0.45	11.223	24.743	89.1	11.405	25.143	87.7	11.631	25.641	86.0
0.50	12.390	27.315	80.7	12.571	27.715	79.5	12.797	28.212	78.1
0.55	13.556	29.886	73.8	13.738	30.286	72.8	13.964	30.784	71.6
0.60	14.723	32.458	67.9	14.904	32.858	67.1	15.130	33.356	66.1
0.65	15.889	35.030	62.9	16.071	35.429	62.2	16.297	35.927	61.4
0.70	17.056	37.601	58.6	17.237	38.001	58.0	17.463	38.499	57.3
0.75	18.222	40.173	54.9	18.404	40.573	54.3	18.629	41.071	53.7
0.80	19.389	42.745	51.6	19.570	43.144	51.1	19.796	43.642	50.5
0.85	20.555	45.316	48.6	20.737	45.716	48.2	20.962	46.214	47.7
0.90	21.722	47.888	46.0	21.903	48.287	45.7	22.129	48.785	45.2
1.00	24.055	53.031	41.6	24.236	53.431	41.3	24.462	53.929	40.9
1.10	26.388	58.174	37.9	26.569	58.574	37.6	26.795	59.072	37.3
1.20	28.721	63.318	34.8	28.902	63.717	34.6	29.128	64.215	34.3
1.40	33.387	73.604	30.0	33.568	74.004	29.8	33.794	74.502	29.6
1.45	34.553	76.176	28.9	34.734	76.575	28.8	34.960	77.073	28.6
1.50	35.720	78.747	28.0	35.901	79.147	27.9	36.127	79.645	27.7
1.55	36.886	81.319	27.1	37.067	81.719	27.0	37.293	82.217	26.8
1.60	38.052	83.891	26.3	38.234	84.290	26.2	38.460	84.788	26.0
1.80	42.718	94.177	23.4	42.900	94.577	23.3	43.126	95.075	23.2
1.90	45.051	99.320	22.2	45.233	99.720	22.1	45.459	100.218	22.0
2.00	47.384	104.463	21.1	47.566	104.863	21.0	47.791	105.361	20.9
2.20	52.050	114.750	19.2	52.232	115.150	19.1	52.457	115.648	19.1
2.30	54.383	119.893	18.4	54.564	120.293	18.3	54.790	120.791	18.3
2.50	59.049	130.180	16.9	59.230	130.579	16.9	59.456	131.077	16.8
2.60	61.382	135.323	16.3	61.563	135.723	16.2	61.789	136.221	16.2
2.80	66.048	145.609	15.1	66.229	146.009	15.1	66.455	146.507	15.0
2.90	68.381	150.753	14.6	68.562	151.152	14.6	68.788	151.650	14.5
3.00	70.714	155.896	14.1	70.895	156.296	14.1	71.121	156.794	14.1