

H321 – 5/6/16/20/25

6061 ALUMINIUM – MAGNESIUM SILICON PLATE, FLAT, SQUARE AND ROUND

RELATED SPECIFICATIONS:

Australia - Plate	AS1734:1997
Australia – Round, Square & Flat	AS1866:1997

DESCRIPTION:

6061 is of the magnesium silicide group with an addition of copper and it is heat treatable. It has medium strength and medium extrudability. Known for excellent joining characteristics, good acceptance of applied coatings and high resistance to corrosion.

APPLICATIONS:

Couplings, hinge pins, brake and hydraulic pistonos, valve & valve parts, marine and aircraft fittings.

MECHANICAL PROPERTIES:

Temper	Thickness mm	Yield stress Rp0.2,N/nn ² , min	Ultimate tensile Stress, Rm,N/nn ²	Elongation A ₅ ,%, min.
ROUND & SHAPES-T6	ALL	260	240	8
PLATE-T6	.25 - .50	290	240	8
	.50 – 12.0	290	240	10
	12 – 25	290	240	7

T6 – Solution heat treated and cooled from an elevated temperature shaping process and **artificially** aged to a substantially stable condition – applies to products that are not cold worked after solution heat treatment.

PLATE T6(51) - Stress relieved temper by stretching material after heat treatment solution and cooling – 1.5% to 3% permanent set

ROUND & SHAPES T6(511) - Stress relieved temper by stretching material after heat treatment solution and cooling – 1% to 3% permanent set

SIZE RANGE MM AVAILABLE:

FLATS (Length 4000mm) T6:

20X12/40X10/40X20/40X25/50X20/50X25/60X121/80X20/80X25/100X20/100X25/100X40/152.4X12.7

SQUARE T6511: 19.05/25.4/31.7/38.1/50.8/63.5/76.2/88.9/101.6/114.3/127/152.4

ROUND T6 & T6511:

6.35/9.53/12.7/15.88/19.05/22.23/25.4/31.75/38.1/44.45/50/50.8/60.33/63.5/69.85/76.2/80/82.5/88.9/95.2

/101.6/107.95/114.3/120.65/127/133.35/139.7/152.4/165.1/177.8/180/190.5/203.2/215.9/225/228.6/250/2

54/280/304.8/355.6/406.4

PLATE T6 & T651:

3.18/4.06/4.8/6.3/7.95/9.53/12.7/15.88/19.05/25.4/31.7/38.1/50.8/63.5/76.2/101.6/127/152.4/203.2

COLOUR CODE: BLUEBELL

