

# **NEW PLYMOUTH STEEL SUPPLIES LTD**

## **Alloy Characteristics & Specifications**

<b>Rolled Products &amp; Steel Plate</b>			<b>Tensile Strength</b>			
<b>Alloy</b>	<b>Description</b>	<b>Temper</b>	<b>Size</b>	<b>Ultimate</b>		<b>Yield Min</b>
				<b>Min</b>	<b>Max</b>	
5005	General Purpose Suitable for welding. Uses include sheet metal work and appliances.	H34	0.7 – 3.0mm	137	180	105
5052	Marine Grade A medium strength alloy with good ductility and high corrosion resistance. Suitable for welding. Uses include marine applications, panelling & pressing for transport, boxes and containers.	H32	0.5 - 12mm	213	263	158
		H34	0.3 - 6.0mm	234	283	179
5083	Marine Grade Certified Used in high strength structural applications, welded marine applications, aircraft, and road transport vehicles.	H321	5.0 - 40mm	303	387	213
		H116	3.0 - 30mm	305		215
6061	Engineering Grade Used in structural applications where corrosion resistance is required. Transport, marine, aviation. Heat treatable.	T651	12.5 - 100mm	290		240
			100 - 150mm	275		240
			150 - 175mm	265		230

<b>Extruded Products - Rod, Bar, Solid &amp; Hollow Shapes, Tube</b>			<b>Tensile Strength</b>			
<b>Alloy</b>	<b>Description</b>	<b>Temper</b>	<b>Size</b>	<b>Ultimate</b>		<b>Yield Min</b>
				<b>Min</b>	<b>Max</b>	
6060/ 6063	Architectural & General Purpose Light to medium strength with good surface finish and high corrosion resistance. Anodises well Medium weld strength. Used in light structural and architectural applications such as glazing bars, and window frames	T5	up to 12mm	150		110
			12 - 25mm	145		105
		T6	up to 25mm	205		170
			25 - 150mm	185		160
6061	Structural Alloy. Medium weld strength, good corrosion resistance	T6	all	262		241
6261	Commercial Machining Alloy Structural Alloy, good surface finish & corrosion resistance. Suitable for welding. Good anodising. Used in applications where finish is important. Yacht masts, road transport, ladders	T5 & T6	all	260		240

**All grades above can be welded & folded, see sales staff for info & advice**