

PLASTESTRIP

PROFILES

1-4 Enterprise Park, St Austell,
Cornwall, PL25 4EJ, UK
t: +44 (0)1726 74771
f: +44 (0)1726 69238
e: sales@plastestrip.com
w: www.plastestrip.com

General Manager
Patrick Hennelly: 07506 224144
Sales Manager
Mark Henderson: 07971 316106
Sales Office Manager
Claire Hemingway: 01726 74771

1050A H14 Sheet

Aluminium alloy 1050 is a popular grade of aluminium for general sheet metal work where moderate strength is required. Alloy 1050 is known for its excellent corrosion resistance, high ductility and highly reflective finish.

Applications - Alloy 1050 is typically used for:

- Chemical process plant equipment
- Food industry containers
- Pyrotechnic powder
- Architectural flashings
- Lamp reflectors
- Cable sheathing

Chemical Composition

Spec: BS EN 573-3:2009

Alloy 1050A

Chemical Element	% Present
Manganese (Mn)	0.0 - 0.05
Iron (Fe)	0.0 - 0.40
Copper (Cu)	0.0 - 0.05
Magnesium (Mg)	0.0 - 0.05
Silicon (Si)	0.0 - 0.25
Zinc (Zn)	0.0 - 0.07
Titanium (Ti)	0.0 - 0.05
Other (Each)	0.0 - 0.03
Aluminium (Al)	Balance

Properties

Physical Property	Value
Density	2.71 g/cm ³
Melting Point	650 °C
Thermal Expansion	24 x10 ⁻⁶ /K
Modulus of Elasticity	71 GPa
Thermal Conductivity	222 W/m.K
Electrical Resistivity	0.0282 x10 ⁻⁶ Ω .m

Spec: BS EN 485-2:2008

Sheet - 0.2mm to 6.00mm

Mechanical Property	Value
Tensile Strength	105 - 145 MPa
Proof Stress	85 Min MPa
Hardness Brinell	34 HB
Elongation A	12 Min %

Alloy Designations

Aluminium alloy 1050A also corresponds to the following standard designations and specifications **but may not be a direct equivalent:**

AA1050
S1B
A91050

Weldability

When welding 1050 to itself or an alloy from the same subgroup the recommended filler wire is 1100. For welding to alloys 5083 and 5086 or alloys from the 7XXX series, the recommend wire is 5356. For other alloys use 4043 filler wire.

Fabrication

Workability – Cold: Excellent
Machinability: Poor
Weldability – Gas: Excellent
Weldability – Arc: Excellent
Weldability – Resistance: Excellent
Brazability: Excellent
Solderability: Excellent

TOMORROWS CLADDING TECHNOLOGY TODAY

STOCKISTS & FABRICATORS

Façade support systems.
Aluminium & plastic extrusions.
Industrial & construction fixings i.e: screws,
nails & rivets etc.
Adhesive fixing systems.
Building Membranes.



SYSTEM TRADE NAMES

Amari Allface
FastFrame
PlastiClad
Plastestrip