



Data Sheet

HA 1

Hot-Rolled - Formable

Revision: 3/12/2021

HR

GENERAL DESCRIPTION

Hot Rolled HA 1 steel is a commercial grade steel without guaranteed mechanical properties, suitable for simple forming and bending operations.

APPLICATIONS

- General fabrication
- Shelving
- Brackets

STANDARDS

- AS/NZS 1594
- AS/NZS 1365

CHEMICAL COMPOSITION	TYPICAL (wt %)	GUARANTEED MAXIMUM (wt %) ^[1]
Carbon (C)	0.05	0.13
Silicon (Si)	0.007	0.03
Manganese (Mn)	0.20	0.50
Sulphur (S)	0.018	0.030
Phosphorus (P)	0.011	0.040

^[1] Values shown refer to relevant Australian/ New Zealand standard unless tighter internal limits are applied.

MECHANICAL PROPERTIES	
180° Transverse bend	1t

Material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion and degradation.

Mechanical properties are guaranteed at ambient/room temperatures. Please consult technical representatives at New Zealand Steel for high/low temperature use.

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH (mm)
2.00 – 2.20	730 – 1290
2.21 – 2.49	730 – 1378
2.50 – 13.00	730 - 1540

Other dimensional combinations may be available by enquiry.

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent	
Method	Rating
Drawing	3
Pressing	3
Bending	4
Roll-forming	4
Welding	5

AVAILABLE FORMS	
DRY	PICKLED & OILED
Mill edge coil	Coil
Coil – Plate	Coil - Plate

STANDARD PLATE SIZES
1220 x 2400
1520 x 3600

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