

Data Sheet

HA 3 Hot-Rolled - Formable

Revision: 31/1/2012

GENERAL DESCRIPTION

Hot Rolled HA 3 steel is a commercial grade steel with an increased guaranteed minimum elongation suitable for moderate pressing and drawing operations.

APPLICATIONS

- Automotive parts
- Brackets
- Furniture

STANDARDS

- AS/NZS 1594
- AS/NZS 1365

CHEMICAL COMPOSITION	TYPICAL (wt %)	GUARANTEED MAXIMUM (wt %) [1]
Carbon (C)	0.03	0.08
Silicon (Si)	0.007	0.03
Manganese (Mn)	0.18	0.40
Sulphur (S)	0.016	0.025
Phosphorus (P)	0.011	0.030

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

	2.0 – 3.00mm	3.00 – 13.0mm	2.0 – 3.00mm	3.00 – 13.0mm
MECHANICAL PROPERTIES	TYPICAL		GUARANTE	ED MINIMUM
Yield strength, MPa	280	270	200	200
Tensile strength, MPa	360	350	300	300
Elongation, % on L _o = 200mm	30	31	22	24

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)	
2.0 – 2.2	730 – 1290	
2.2 - 2.5	730 – 1378	
2.5 - 13.00	730 - 1540	

Other dimensional combinations may be available by enquiry.

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

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

STANDARD PLATE SIZES	
1220 x 2400	
1520 x 3600	

New Zealand Steel Limited