

Hot Rolled - HR

Formable - F

GENERAL DESCRIPTION

Hot-rolled formable steel suitable when pickled for medium drawing and heavy pressing operations.

AUSTRALIAN STANDARDS

AS/NZS 1594: 2002
AS/NZS 1365: 1996

TYPICAL USES

- Agricultural machinery
- Automotive components
- Sealed unit housings
- Mower parts
- Brackets
- Furniture

NORMAL / OPTIONAL SUPPLY CONDITIONS

	Normal	Optional
Thickness Range	1.55mm – 8mm	
Width Range	751mm – 1550mm	
Surface Finish	Hot-rolled	Skin Passed Pickled and Oiled Pickled not Oiled
Edge Condition	Untrimmed (Mill Edge)	Trimmed
Tolerances	AS/NZS 1365: 1996	
Flatness	Class A	
Certification	BlueScope Steel – Analysis and Mechanical tests	

Optional supply conditions may be subject to dimensional restrictions.
Skin-passing will minimise coil break and improve flatness of this product.

Australia 1800 800 789

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CHEMICAL COMPOSITION

Element	Guaranteed Maximum %	Typical %
		1.55mm – 8mm
Carbon	0.08	0.06
Silicon	0.03*	0.004
Manganese	0.40	0.21
Phosphorus	0.030	0.011
Sulfur	0.025	0.012
Aluminium	0.10	0.036
CEQ (IIW)	-	0.098

All values shown refer to the relevant Australian Standard unless otherwise stated.

$$CEQ(IIW) = C + \frac{Mn}{6} + \frac{(Cr + Mo + V)}{5} + \frac{(Cu + Ni)}{15}$$

* Values refer to the BlueScope Steel internal standard, where the AS/NZS 1594 guaranteed maximum % is 0.35

MECHANICAL PROPERTIES

Tensile Properties (Longitudinal)	Guaranteed Minimum	Typical %		
		1.55mm – 3mm	>3mm – 6mm	>6mm – 8mm
Yield Strength (MPa)	200	240 – 315		
Tensile Strength (MPa)	300	335 - 365		
Elong. (%) on 80mm	32	35 – 43		
Elong. (%) on 80mm	34		35 – 45	
Elong. (%) on 200mm	24			37 – 47
180° Bend (Transverse)	0t	-		

DIMENSIONS

Width Range (mm)	Thickness Range (mm)
751 – 1550	1.55 - 8

Not all thickness and width combinations are available.

WELDABILITY GROUP

WTIA Group
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Refer to WTIA Technical Note 1 or AS/NZS 1554.1