



Data Sheet

NZCC-2D

Cold-Rolled

Revision: 31/1/2012

CR

GENERAL DESCRIPTION

Cold-rolled, annealed and temper rolled (re-rolled) steel of commercial quality, moderately stiff and capable of modest bending.

APPLICATIONS

- Industrial shelving systems
- Hinges
- Circular saw blades
- Automotive components

STANDARDS

- AS/NZS 1365:1996
- NZ Steel Standard

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) ^[1]
Carbon (C)	0.050	0.070
Silicon (Si)	0.003	0.030
Manganese (Mn)	0.200	0.250
Sulphur (S)	0.020	0.030
Phosphorus (P)	0.015	0.030

MECHANICAL PROPERTIES	TYPICAL	EXPECTED
0.2% Proof Stress, MPa	440	350 – 500
Tensile strength, MPa	460	400 – 530
Elongation, % on L ₀ = 50mm	13	8% Min
HRB Hardness	81	75 – 85

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

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

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent	
METHOD	RATING
Drawing	–
Pressing	–
Bending	2
Roll-forming	2
Welding	5

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH (mm)
0.5 - 2.0	660 - 1250

Other dimensional combinations may be available by enquiry.

AVAILABLE FORMS	
Coil	Mill Edge
Sheet	Trim Edge

SURFACE FINISHES
Semi-bright finish suitable for painting and exposed non-critical applications

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