



Data Sheet

NZCC-SD

Cold-Rolled

Revision: 31/1/2012

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GENERAL DESCRIPTION

Cold-rolled annealed and skin-passed steel of commercial quality, capable of moderate forming and pressing and with a surface finish suitable for exposed non-critical applications

APPLICATIONS

- General sheet metal work
- Office furniture
- Fabrication

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	190	160 – 240
Tensile strength, MPa	340	290 – 365
Elongation, % on L ₀ = 50mm	45	34% min
HRB Hardness	52	40 – 60

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	3
Pressing	3
Bending	4
Roll-forming	4
Welding	5

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH (mm)
0.40 – 0.50	840 – 1250 (Mill edge only)
0.50 – 0.60	612 – 1350
0.60 – 0.70	612 – 1400
0.70 – 2.00	612 – 1530
2.00 – 2.50	622 - 1350
2.50 – 3.00 ^[1]	900(M) – 1250(M)

^[1] Thickness greater than 2.500mm is only available as mill edge

(T) = Trim edge, (M) = Mill edge.

AVAILABLE FORMS	
Coil only	Mill Edge
	Trim Edge

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

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