



Data Sheet

# NZCD-SD

Cold-Rolled

Revision: 31/1/2012

CR

## GENERAL DESCRIPTION

Cold-rolled annealed and skin-passed steel of commercial quality, capable of deep drawing operations, with a surface finish suitable for exposed non-critical applications

## APPLICATIONS

- Automotive parts
- Drawing applications

## STANDARDS

- AS/NZS 1365:1996
- NZ Steel Standard

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) <sup>[1]</sup>
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	180	150 – 225
Tensile strength, MPa	320	285 – 350
Elongation, % on L <sub>0</sub> = 50mm	50	39% Min
HRB Hardness	44	35 - 55

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	4
Pressing	4
Bending	5
Roll-forming	5
Welding	5

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH (mm)
0.45 – 0.49	900 – 1250 (Mill edge only)
0.50 – 0.59	900 – 1250
0.60 – 0.79	900 – 1350
0.80 – 2.00	612 – 1350
2.00 – 2.50	612 – 1350
2.50 – 3.00 <sup>[1]</sup>	900 – 1250

<sup>[1]</sup> Thickness greater than 2.500 mm is only available as mill edge.

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

AVAILABLE FORMS	
Coil	Mill Edge
Sheet	Trim Edge

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

## New Zealand Steel Limited

Auckland  
Tel. +64 9 375 8999  
Fax. +64 9 375 8213  
A BlueScope Steel Company

www.nzsteel.co.nz  
nzsteel@bluescopesteel.com  
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