



Data Sheet

# Dual Grade C350/C450L0 RHS

## Hollow Sections

Revision: 31/1/2012

### GENERAL DESCRIPTION

New Zealand Steel Just Black Dual Grade C350/C450 RHS is a range of structural and general-purpose cold formed electric resistance welded square and rectangular hollow sections.

These products are manufactured to meet the mechanical property requirements of both C350 and C450 and are suitable for welding and limited bending.

### APPLICATIONS

- Agricultural implement frames
- Trailers
- Pallets and stock crates
- Sign gantries
- Service bridges
- Railings
- Columns and trusses

### STANDARDS

- AS1163:2009 Grade C350/C450L0 Galvanizing
- AS/NZS 4792:2006

MECHANICAL PROPERTIES	
Minimum Yield strength, MPa	450 MPa
Minimum Tensile strength, MPa	500 MPa

MINIMUM ELONGATION (g.l. $5.65 \sqrt{S_0}$ ) %			
	RHS (width ÷ thickness)		
GRADE	≤15	>15 ≤30	>30
C350/ C450	12	14	16

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

AVAILABLE FORMS
Black (Mill Finish)
Galvanised (limited size range)
Pre-primed

AVAILABLE DIMENSIONS	
THICKNESS (mm)	WIDTH (mm)
Thickness	2 – 6mm
Squares	25x25 to 100x100
RHS	25x50 to 125x75

AVAILABLE LENGTHS		
	LENGTH RANGE	CUT TOLERANCE
Normal	4.5 – 9.0	-0 to +20mm
Exact	1.5 – 9.0	-0 to +6.0mm

Just Black Dual Grade C350/C450L0 hollow sections are suited to load bearing applications, have good torsional strength, impact strength and a high strength to weight ratio.

Typical applications include agricultural, architectural, general engineering, mechanical handling and structural uses.

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RECTANGULAR HOLLOW SECTIONS			
Nominal size	Wall Thickness	Mass Kg/m	
		Black	Galv
mm	mm		
50x25	2.0	2.15	2.22
	2.5	2.62	2.71
	3.0	3.07	3.17
65x35	2.0	2.93	3.03
	2.5	3.60	3.73
	3.0	4.25	4.41
	4.0	5.35	5.52
75x40	2.5	4.18	4.33
	3.0	4.95	5.13
	4.0	6.29	6.49
75x50	2.0	3.72	3.84
	2.5	4.58	4.74
	3.0	5.42	5.62
	4.0	6.92	7.14
	5.0	8.35	8.62
100x50	2.5	5.56	
	3.0	6.60	
	3.5	7.53	
	4.0	8.49	
	5.0	10.30	
102x76	3.5	9.09	
	5.0	12.50	
125x75	3.0	8.96	
	4.0	11.60	
	5.0	14.20	
127x51	3.5	9.09	
	5.0	12.50	

STANDARD LENGTHS	
FINISH	LENGTH (m)
Black	8.0
Galvanised	6.5 max
Pre-primed	8.0

SQUARE HOLLOW SECTIONS			
Nominal size	Wall Thickness	Mass Kg/m	
		Black	Galv
mm	mm		
25x25	2.0	1.36	1.41
	2.5	1.64	1.70
	3.0	1.89	1.96
35x35	2.5	2.42	2.51
	3.0	2.83	2.93
	4.0	3.46	3.58
40x40	2.0	2.31	2.39
	2.5	2.82	2.92
	3.0	3.30	3.41
	4.0	4.09	4.24
50x50	2.0	2.93	3.03
	2.5	3.60	3.73
	3.0	4.25	4.41
	4.0	5.35	5.52
	5.0	6.39	6.62
65x65	2.5	4.78	4.95
	3.0	5.66	5.85
	4.0	7.23	7.46
	5.0	8.75	9.09
75x75	2.5	5.56	5.75
	3.0	6.60	6.85
	3.5	7.53	7.81
	4.0	8.49	8.77
	5.0	10.30	10.60
89x89	6.0	12.00	12.30
	3.5	9.07	
	5.0	12.50	
100x100	6.0	14.70	
	2.5	7.53	
	3.0	8.96	
	4.0	11.6	
	5.0	14.2	
	6.0	16.7	

## PACKING

Despatched material will be packed appropriately providing protection against weather and transit damage.

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