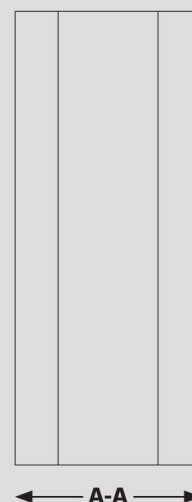
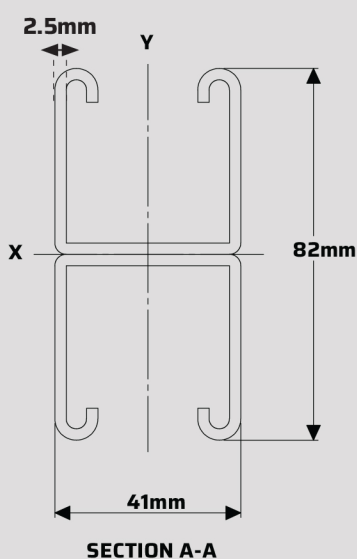
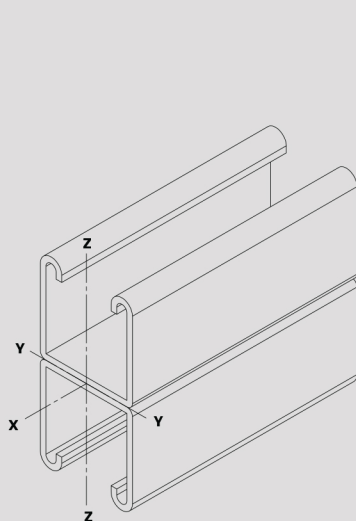
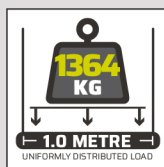


41 x 41 x 2.5 - Plain Channel Back to Back


TECHNICAL DATA

Product Weight:	5.25 kg/m
Minimum Yield Stress:	280N/mm ²
Uniformly distributed load for 1M (Fmax):	1364.17 kg/m



Area	MOMENT OF INERTIA		SECTION MODULUS		RADIUS OF GYRATION	
	I y-y	I z-z	S y-y	S z-z	R y-y	R z-z
6.71 cm ²	35.18cm ⁴	18.34cm ⁴	17.16cm ³	8.73cm ³	2.29cm	1.65cm

FINISH DATA
PRE-GALVANISED CHANNELS (PG)

Material Standard:	BS EN 10346 / BS 6946
Material Specification:	S280GD + Z275
Minimum Yield Stress:	280N/mm ²
PG Minimum Zinc Coating Mass:	275g/m ²
PG Typical Zinc Coating Thickness:	20µm

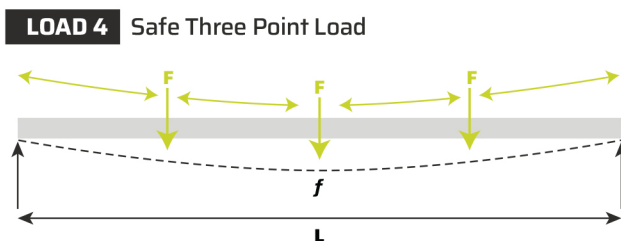
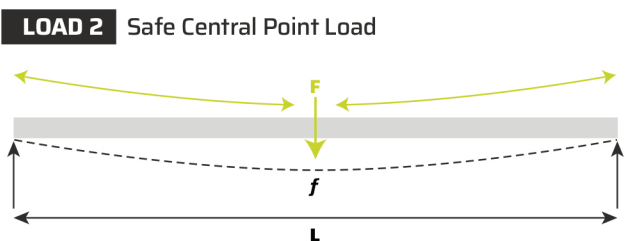
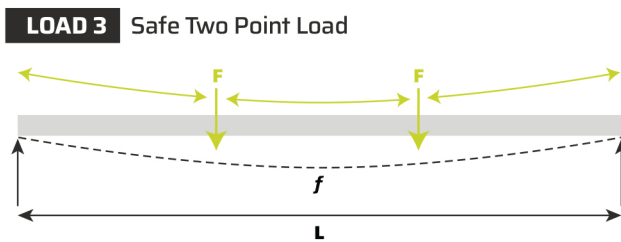
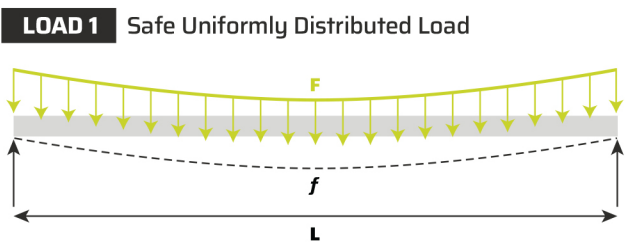
HOT-DIP GALVANISED CHANNELS (HDG)

Material Standard:	BS EN 10346 / BS 6946
Material Specification:	S280GD + BS EN 1461
Minimum Yield Strength:	280N/mm ²
Hot Dip Galvanising to:	BS EN 1461:2009
Minimum Average Coating Thickness:	55µm

41 x 41 x 2.5 - Plain Channel Back to Back

LOAD DATA

CODE	FINISH	LENGTH (L) mm	ULTIMATE LOADS - LOAD 1		DESIGN LOADS			
			ULTIMATE UNIFORMLY DISTRIBUTED LOAD	MAX DEFLECTION	LOAD 1 - SAFE UNIFORMLY DISTRIBUTED LOAD	LOAD 2 - SAFE CENTRAL POINT LOAD	LOAD 3 - SAFE TWO POINT LOAD	LOAD 4 - SAFE THREE POINT LOAD
			Fmax kN	<i>f</i> max mm	F kN	F kN	F kN	F kN
HOT-DIP GALVANISED								
2011 11232	HDG	3000	4.09	19.37	2.406	1.522	1.212	0.854
2011 11231	HDG	6000	1.363	34.1	0.802	0.507	0.403	0.285
PRE-GALVANISED								
2011 12165	PG	3000	4.09	19.37	2.406	1.522	1.212	0.854
2011 05976	PG	6000	1.363	34.1	0.802	0.507	0.403	0.285



Notes to Beam Loads data:

- Yield Stress = 280N/mm²
- Modulus of elasticity: E = 210kN/mm²
- All beam loads are for simply supported beams
- All load data is for applied loads. The channel self-weight is already deducted.
- Ultimate Loads - maximum uniformly distributed load limited by stress using safety coefficient = 1.7
- Design Loads - maximum loads limited by deflection: $f = L/200$. (Values in italics are limited by stress not deflection)