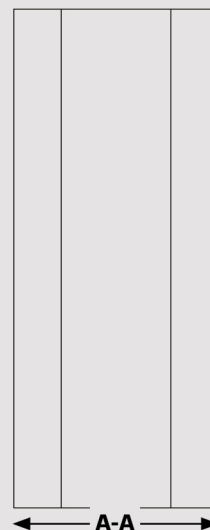
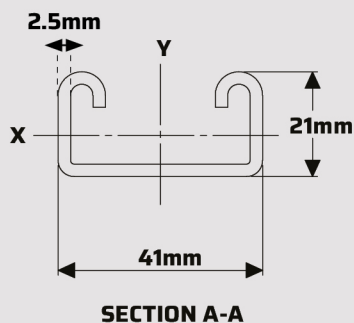
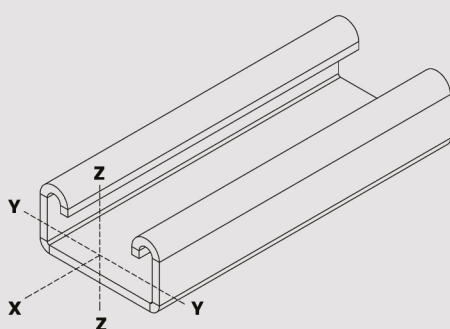
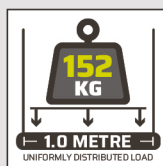


41 x 21 x 2.5 - Plain Channel


TECHNICAL DATA

Product Weight:	1.83 kg/m
Minimum Yield Stress:	280N/mm ²
Uniformly distributed load for 1M (Fmax):	152.19 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
2.34 cm ²	1.25cm ⁴	5.40cm ⁴	0.89cm ³	2.63cm ³	0.73cm	1.52cm

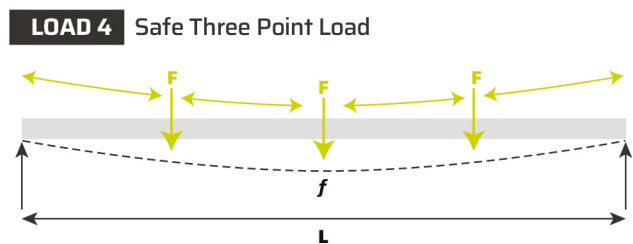
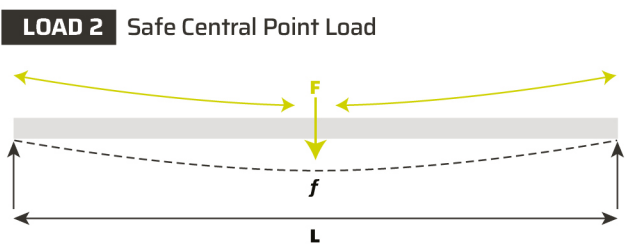
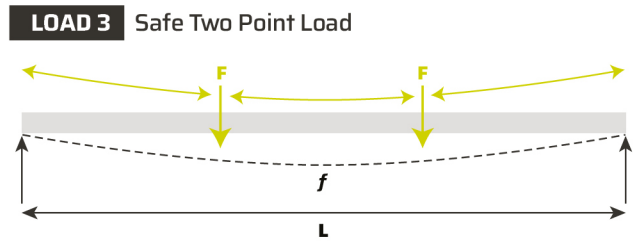
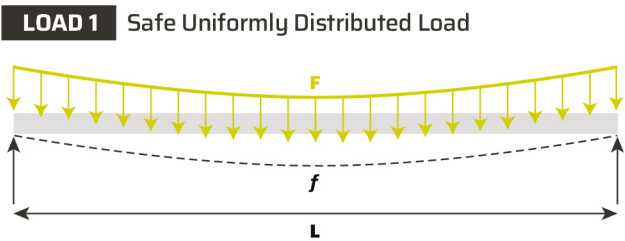
FINISH DATA
PRE-GALVANISED CHANNELS (PG)

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

41 x 21 x 2.5 - Plain Channel

LOAD DATA

CODE	FINISH HDG / PG	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
PRE-GALVANISED								
2011 01000	PG	3000	0.967	24.34	0.569	0.421	0.360	0.129
2011 11955	PG	6000	0.475	95.6	0.279	0.210	0.108	0.064



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)