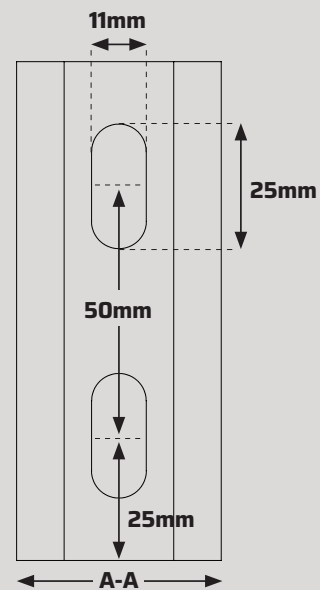
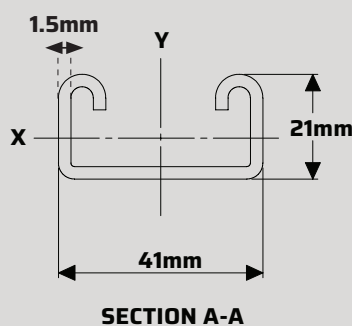
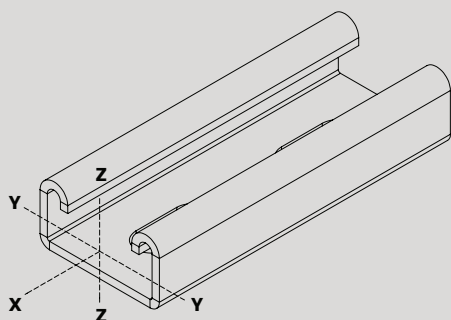
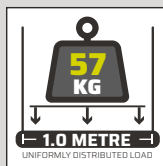


41 x 21 x 1.5 - Slotted Channel



TECHNICAL DATA

Product Weight:	1.11 kg/m
Minimum Yield Stress:	280N/mm ²
Uniformly distributed load for 1M (Fmax):	57.90kg/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
1.32 cm ²	0.77cm ⁴	3.56cm ⁴	0.55cm ³	1.74cm ³	0.76cm	1.64cm

FINISH DATA

PRE-GALVANISED CHANNELS (PG)

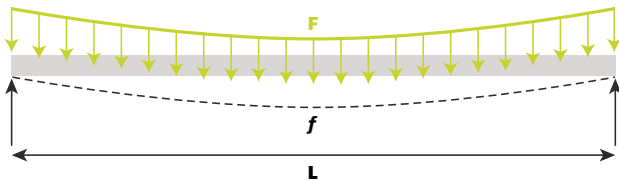
Material Standard:	BS EN 10346 / BS 6946
Material Specification:	S280GD + Z275
Minimum Yield Stress:	280N/mm ²
PG Minimum Zinc Coating Mass:	275g/m ²
PG Typical Zinc Coating Thickness:	20µm

41 x 21 x 1.5 - Slotted Channel

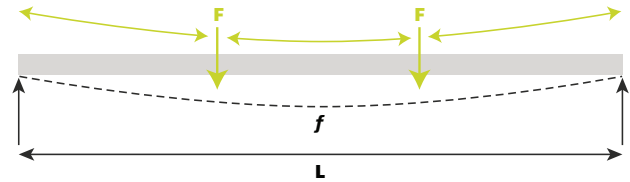
LOAD DATA

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
			F_{max} kN	f_{max} mm	F kN	F kN	F kN	F kN
PRE-GALVANISED								
2011 01004	PG	3000	0.554	21.42	0.251	0.200	0.139	0.083
2011 05973	PG	6000	0.272	84.13	0.123	0.12	0.069	0.041

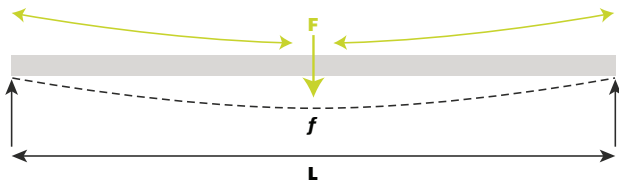
LOAD 1 Safe Uniformly Distributed Load



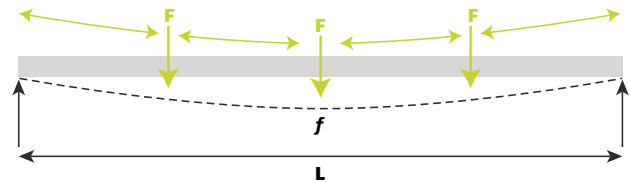
LOAD 3 Safe Two Point Load



LOAD 2 Safe Central Point Load



LOAD 4 Safe Three Point Load



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)