

TECHNICAL DATA SHEET

KFS Deep Channel Back to Back - Plain

82 x 41mm Heavy Gauge



Standards:

Manufactured in accordance with
BS 6946:1988

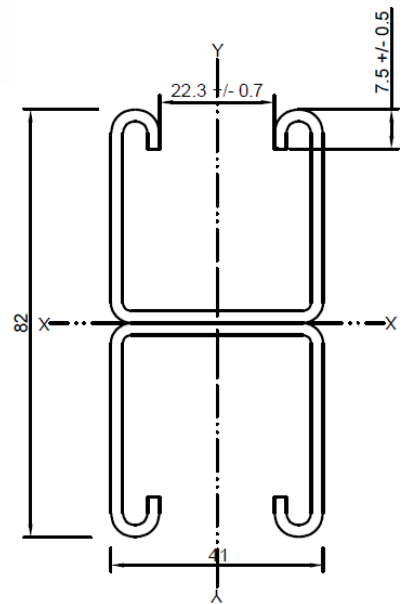
Material / Finishes:

Pre Galvanised (PG) Steel - BS EN 10346 2015,
S280 min. yield, Z275 NAC - BS EN 10346 Coating.

Hot Dipped Galvanised (HDG) - Plain Coil to
BS EN 10025 Pickled & Oiled min. yield 275 n/mm². Hot
Dip Galvanised - to BS EN ISO 1461: to a mean coating
thickness (average) of 55µm.

Gauge: 2.5mm

Weight: 5.22kg per metre

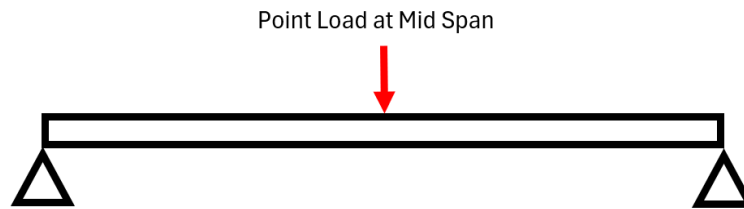
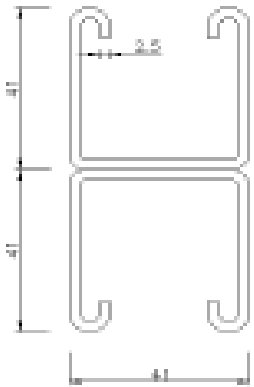


Stock Code	KFS Code	Gauge	Length	Finish	Bundle Qty
12010	KFS-082P	2.5mm	3m	PG	25
12011	KFS-082P	2.5mm	6m	PG	25
28010	KFS-182P	2.5mm	3m	HDG	25
28011	KFS-182P	2.5mm	6m	HDG	25

Section Properties				
Area cm ²	I _{xx} cm ⁴	r _{xx} cm	I _{yy} cm ⁴	Z _{yy} cm ³
6.67	36.1	2.33	18.13	8.9

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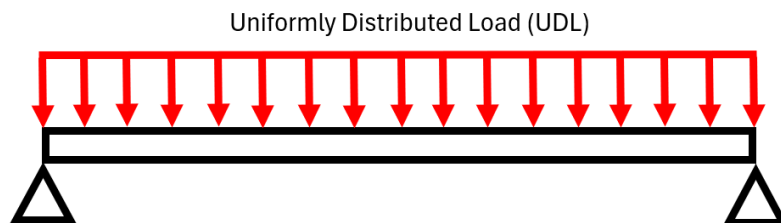
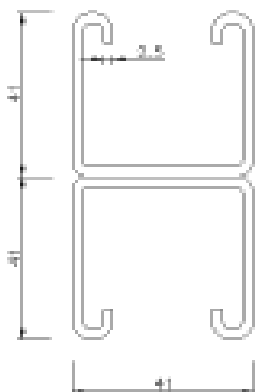
Loading Conditions: Point Load at Mid Span



Beam Span (mm)	Design Loads					
	Ultimate Loading		Limit Def. Span/200		Limit Def. Span/360	
	Central Point Load (kg)	Total Def. (mm)	Central Point Load (kg)	Total Def. (mm)	Central Point Load (kg)	Total Def. (mm)
250	2520	0.1	-	-	-	-
500	1290	0.4	-	-	-	-
750	900	1.0	-	-	-	-
1000	640	1.7	-	-	-	-
1250	498	2.6	-	-	-	-
1500	415	3.8	-	-	-	-
1750	355	5.2	-	-	330	4.9
2000	310	6.8	-	-	252	5.6
2250	273	8.6	-	-	196	6.3
2500	244	10.6	-	-	156	6.9
2750	220	12.9	-	-	126	7.6
3000	200	15.3	196	15.0	104	8.3
3250	185	18.1	165	16.3	87	9.0
3500	170	21.0	139.5	17.5	72.6	9.7
3750	158	24.2	119.5	18.8	61	10.4
4000	146.5	27.6	102.5	20.0	51	11.1
4250	136.8	31.2	88.9	21.3	42.9	11.8
4500	128	35.1	76.8	22.5	36.3	12.5
4750	120.3	39.3	66.6	23.8	30	13.2
5000	113	43.7	57.8	25.0	24.8	13.9
5250	106.8	48.4	50.2	26.3	20.3	14.6
5500	100.6	53.3	43.4	27.5	16.1	15.3
5750	95.2	58.5	37.4	28.8	12.5	16.0
6000	90.2	64.0	31.9	30.0	9.1	16.7

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Loading Conditions: Uniformly Distributed Load (UDL)



Beam Span (mm)	Design Loads					
	Ultimate Loading		Limit Def. Span/200		Limit Def. Span/360	
	Total Applied Load (kg)	Total Def. (mm)	Applied UDL (kg)	Total Def. (mm)	Applied UDL (kg)	Total Def. (mm)
250	4990	0.1	-	-	-	-
500	2550	0.5	-	-	-	-
750	1690	1.2	-	-	-	-
1000	1260	2.1	-	-	-	-
1250	1000	3.3	-	-	-	-
1500	825	4.7	-	-	725	4.2
1750	700	6.4	-	-	530	4.9
2000	610	8.4	-	-	401	5.6
2250	545	10.7	-	-	315	6.3
2500	485.5	13.2	459	12.5	247	6.9
2750	440	16.0	380	13.8	201	7.6
3000	402	19.0	314	15.0	167	8.3
3250	368	22.3	265	16.3	138	9.0
3500	340	25.9	223	17.5	116	9.7
3750	315	29.8	191.5	18.8	97	10.4
4000	293	33.9	164	20.0	82	11.1
4250	273	38.3	142	21.3	69	11.8
4500	256	43.0	123	22.5	58	12.5
4750	240.5	48.0	107	23.8	48	13.2
5000	226	53.2	92.5	25.0	40	13.9
5250	213.5	58.8	80.5	26.3	32.5	14.6
5500	201.5	64.6	69.4	27.5	26	15.3
5750	190.4	70.7	59.8	28.8	20	16.0
6000	180.2	77.1	51	30.0	14.5	16.7

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