

TECHNICAL DATA SHEET

KFS Deep Back to Back Channel - Slotted

82 x 41mm Heavy Gauge

Standards:

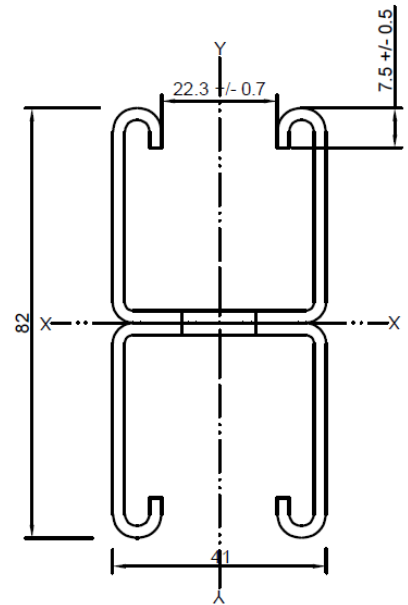
Manufactured in accordance with
BS 6946:1988



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

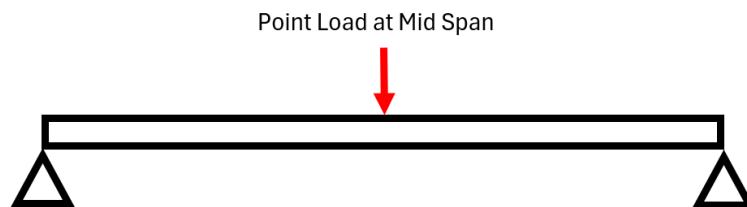
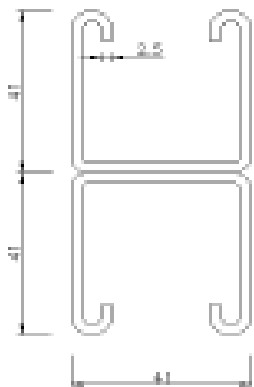
Weight: 5.0kg per metre

Stock Code	KFS Code	Gauge	Length	Finish	Bundle Qty
12014	KFS-082S	2.5mm	3m	PG	25
12022	KFS-082S	2.5mm	6m	PG	25
28014	KFS-182S	2.5mm	3m	HDG	25
28022	KFS-182S	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
6.15	35.8	2.41	17.92	8.68

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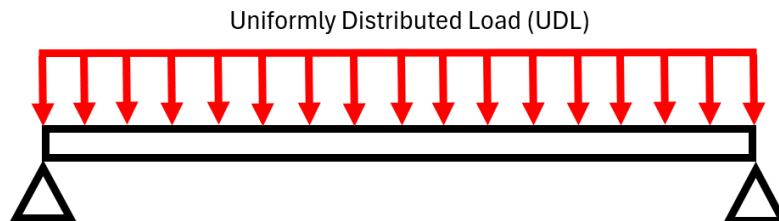
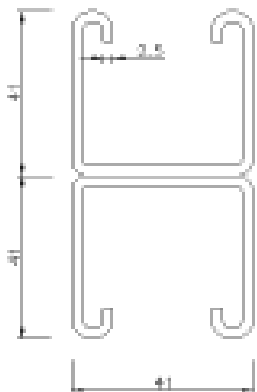
Loading Conditions: Point Load at Mid Span



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	2480	0.1	-	-	-	-
500	1235	0.4	-	-	-	-
750	822	1.0	-	-	-	-
1000	614	1.7	-	-	-	-
1250	485	2.6	-	-	-	-
1500	400	3.8	-	-	-	-
1750	345	5.2	-	-	325	4.9
2000	301	6.8	-	-	248	5.6
2250	265	8.6	-	-	193	6.3
2500	238	10.6	-	-	151	6.9
2750	215	12.9	-	-	123	7.6
3000	195	15.3	191	15.0	101	8.3
3250	180	18.1	161	16.3	84.5	9.0
3500	165.5	21.0	136	17.5	70.5	9.7
3750	153.4	24.2	116.5	18.8	59.2	10.4
4000	143	27.6	100	20.0	49.5	11.1
4250	133	31.2	86.5	21.3	41.5	11.8
4500	124.5	35.1	74.5	22.5	35	12.5
4750	117	39.3	64.8	23.8	29	13.2
5000	109.9	43.7	56	25.0	24	13.9
5250	103.8	48.4	48.5	26.3	19.3	14.6
5500	97.7	53.3	41.9	27.5	15.3	15.3
5750	92.5	58.5	36	28.8	11.7	16.0
6000	87.5	64.0	30.6	30.0	8.4	16.7

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Loading Conditions: Uniformly Distributed Load (UDL)



Beam Span (mm)	Ultimate Loading		Design Loads			
	Total Applied Load (kg)	Total Def. (mm)	Limit Def. Span/200	Limit Def. Span/360	Applied UDL (kg)	Total Def. (mm)
			Applied UDL (kg)	Total Def. (mm)	Applied UDL (kg)	Total Def. (mm)
250	4950	0.1	-	-	-	-
500	2500	0.5	-	-	-	-
750	1650	1.2	-	-	-	-
1000	1230	2.1	-	-	-	-
1250	980	3.3	-	-	-	-
1500	803	4.7	-	-	718	4.2
1750	684	6.4	-	-	524	4.9
2000	595	8.4	-	-	396	5.6
2250	530	10.7	-	-	310	6.3
2500	475	13.2	450	12.5	243	6.9
2750	430	16.0	370	13.8	198	7.6
3000	390	19.0	306	15.0	163	8.3
3250	358	22.3	258	16.3	135	9.0
3500	331	25.9	218	17.5	112	9.7
3750	306.5	29.8	186	18.8	94	10.4
4000	285	33.9	160	20.0	79	11.1
4250	266	38.3	138	21.3	67	11.8
4500	249	43.0	119	22.5	56	12.5
4750	234	48.0	103.5	23.8	46.5	13.2
5000	220	53.2	89.5	25.0	38.4	13.9
5250	207.5	58.8	77.6	26.3	31	14.6
5500	195.6	64.6	67	27.5	24.5	15.3
5750	185	70.7	57.5	28.8	18.6	16.0
6000	175	77.1	49	30.0	13.6	16.7

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