

## TECHNICAL DATA SHEET

### KFS Deep Channel - Slotted

41 x 41mm Heavy Gauge

#### Standards:

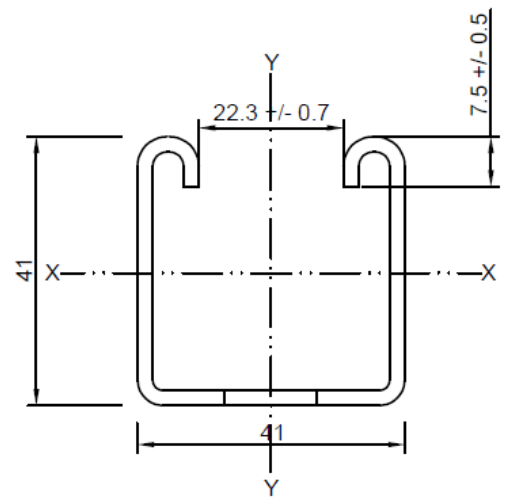
Manufactured in accordance with  
BS 6946:1988



#### 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/mm<sup>2</sup>. Hot Dip Galvanised - to  
BS EN ISO 1461: to a mean coating thickness  
(average) of 55µm.



**Gauge:** 2.5mm

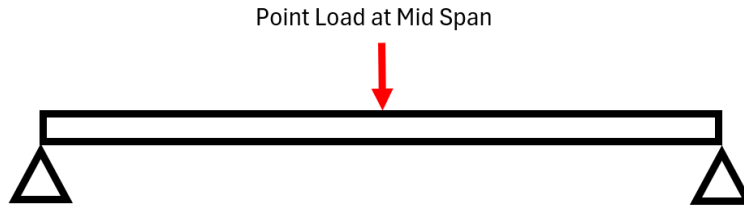
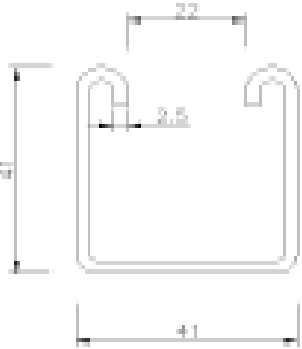
**Weight:** 2.5kg per metre

Stock Code	KFS Code	Gauge	Length	Finish	Bundle Qty
12012	KFS-041S	2.5mm	3m	PG	50
12013	KFS-041S	2.5mm	6m	PG	50
28012	KFS-141S	2.5mm	3m	HDG	50
28013	KFS-141S	2.5mm	6m	HDG	50

Section Properties				
Area cm <sup>2</sup>	I <sub>xx</sub> cm <sup>4</sup>	r <sub>xx</sub> cm	I <sub>yy</sub> cm <sup>4</sup>	Z <sub>yy</sub> cm <sup>3</sup>
3.0	6.3	1.44	8.97	4.37

# TECHNICAL DATA SHEET

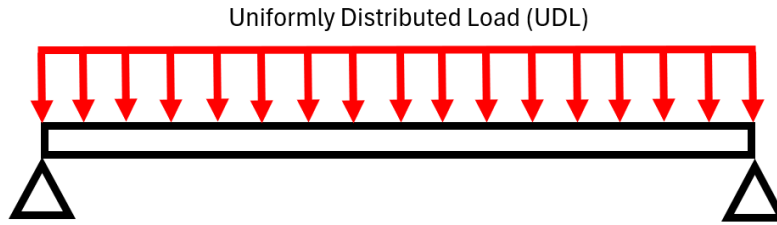
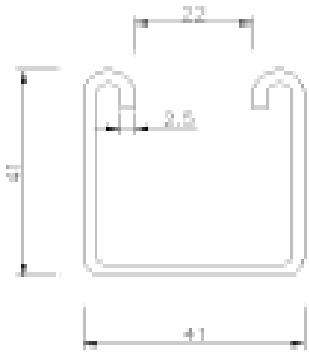
## Loading Conditions: Point Load at Mid Span



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	805	0.2	-	-	-	-
500	405	0.8	-	-	-	-
750	270	1.8	-	-	-	-
1000	205	3.3	-	-	175	2.8
1250	162	5.1	-	-	110	3.5
1500	136	7.4	137	7.5	76	4.2
1750	115.8	10.1	101	8.8	55	4.9
2000	101	13.2	75.9	10.0	41	5.6
2250	89	16.7	58.8	11.3	31	6.3
2500	79.5	20.7	46.1	12.5	23.7	6.9
2750	71.5	25.1	37.2	13.8	18.5	7.6
3000	65	30.0	29.9	15.0	14.3	8.3
3250	59.5	35.3	24.5	16.3	11	9.0
3500	54.6	41.1	19.8	17.5	8.3	9.7
3750	50.4	47.4	16.1	18.8	6.1	10.4
4000	46.7	54.2	12.9	20.0	4.1	11.1
4250	43.3	61.4	10.3	21.3	2.5	11.8
4500	40.33	69.2	7.9	22.5	1	12.5
4750	37.61	77.5	5.9	23.8	-	-
5000	35.11	86.3	4.1	25.0	-	-
5250	32.85	95.7	2.54	26.3	-	-
5500	30.71	105.6	1.05	27.5	-	-
5750	28.8	116.2	-	-	-	-
6000	27	127.3	-	-	-	-

**TECHNICAL DATA SHEET**

**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	1620	0.3	-	-	-	-
500	805	1.0	-	-	-	-
750	540	2.3	-	-	490	2.1
1000	409	4.1	-	-	280	2.8
1250	328	6.4	321	6.3	177	3.5
1500	271	9.2	220	7.5	123	4.2
1750	231	12.5	160.9	8.8	86.8	4.9
2000	202	16.4	121	10.0	64.9	5.6
2250	178	20.7	93.8	11.3	49.6	6.3
2500	159	25.6	73.8	12.5	38	6.9
2750	143	31.0	59.4	13.8	29.3	7.6
3000	130.5	37.0	48	15.0	22.9	8.3
3250	119	43.4	39	16.3	17.6	9.0
3500	109.5	50.5	31.8	17.5	13.4	9.7
3750	101	58.0	25.8	18.8	9.75	10.4
4000	93.5	66.1	20.7	20.0	6.69	11.1
4250	86.8	74.7	16.4	21.3	4	11.8
4500	80.76	83.9	12.7	22.5	1.61	12.5
4750	75.4	93.7	9.5	23.8	-	-
5000	70.5	104	6.6	25.0	-	-
5250	65.9	114.8	4.05	26.3	-	-
5500	61.75	126.3	1.7	27.5	-	-
5750	57.85	138.3	-	-	-	-
6000	54.31	151.0	-	-	-	-

This Product Data Sheet applies only to the product and version identified. It is provided for general information only and does not form part of any contract, warranty or specification unless agreed in writing. Specifications may change without notice. Users must obtain the current version before selection, purchase or use. For previously supplied products contact Kernow Fixings on 01726 624600 or at sales@kernow-how.com.