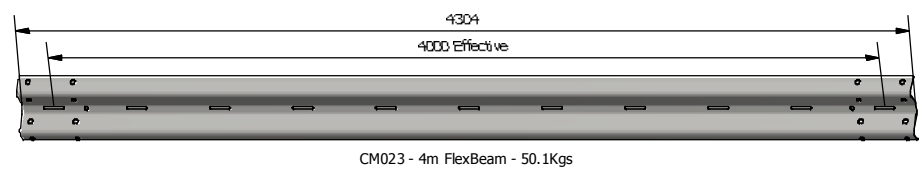
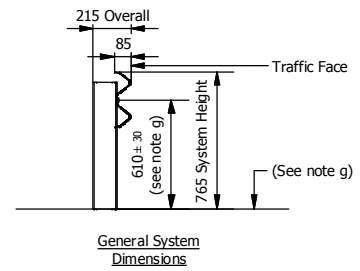
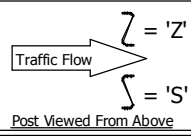
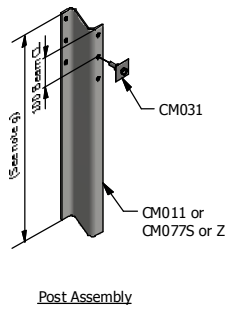
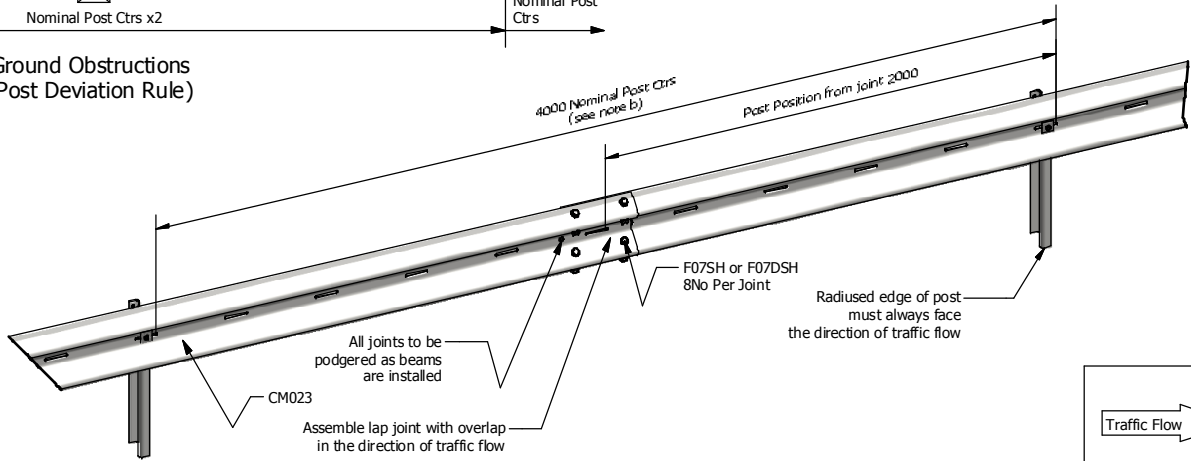


Ground Obstructions (Post Deviation Rule)



Recommended Post Spacings (mm) on Curves less than 50m radii

Greater Than 50m	<50 to 40m	<40 to 30m	<30 to 20m	<20 to 6m
4000	3200	2000	1600	1200

Surface mounted N2 FlexBeam 125x44 post anchor loads - per anchor (unfactored)

Nominal tensile anchor load at post failure (kN)/Coexistent Shear, X-X (kN)	
Beam centre to base plate - 610mm	Beam centre to base plate - 510mm
29/24	34/29

Thickness of foot - 6mm
4 No. M20 fixings required

Post Properties

N2 FlexBeam 125x44x5mm 'Z' Post - Steel Grade S355

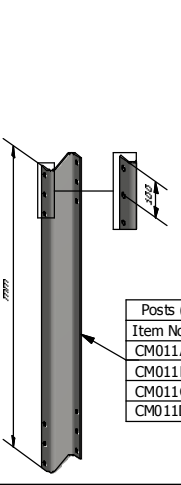
Sect. area cm ²	Ixx cm	Iyy cm	Elastic		Plastic		r _{yy} cm
			Zxx cm ³	Zyy cm ³	Zxx cm ³	Zyy cm ³	
10	204	15.7	32.6	7.14	41.7	10.9	1.25

Quantity of Parts per Meter

Item No.	Cast-In	Socketed	Std Driven	Long Driven	X Long Driven	Surface Mounted	Surface Mounted (100mm Kerb)
A21 (optional)	0.25	0.25					
CM003 or CM308E		0.25					
CM011A	0.25	0.25					
CM011B			0.25				
CM011C				0.25			
CM011D					0.25		
CM013S or Z (optional)							
CM023	0.25	0.25	0.25	0.25	0.25	0.25	0.25
CM031	0.25	0.25	0.25	0.25	0.25	0.25	0.25
CM077AS or AZ						0.25	
CM077BS or BZ							0.25
F07SH or F07DSH	2.0	2.0	2.0	2.0	2.0	2.0	2.0
System Weight (Kgs/m)	15.3	16.2	16.3	16.7	17.1	14.9	14.7

- F07DSH M16x30 Joint Bolt Assembly 0.14kgs (Torque 60-80Nm)
- F07SH M16x35 Joint Bolt Assembly 0.16kgs (Torque 60-80Nm)
- CM031 M10x50 Post Bolt Assembly 0.12Kgs (Torque 25-30Nm)

- Driven Sockets: CM308E 450 3.7 Level
- A21 Reinforcing Ring 0.49Kgs
- CM013 S or Z Socket Excluder 0.09Kgs



Sockets for CM011A posts

Item No.	mm	Kgs	System
CM003E	450	3.4	Level
CM003F	470	3.6	Std
CM003G	500	3.8	Kerbs/Upstands
CM003H	520	4.0	up to 100mm
CM003J	550	4.2	
CM003K	570	4.3	

*For Non-Standard Sockets see HSM001

Posts (125x44x5mm)

Item No.	mm	Kgs
CM011A	1160	9.3
CM011B	1700	13.7
CM011C	1900	15.3
CM011D	2100	17.0

Surface Mounted Posts (125x44x5mm)

Item No.	mm	Kgs
CM077AS or AZ	710	8.2
CM077BS or BZ	610	7.4

- a) Dimensions in mm.
- b) To be read in conjunction with HSM001.
- c) Concrete for foundations to have a min. 28 day characteristic strength of 20MPa for Ø150x300mm cylinder or 25MPa for 150mm cube test, prior to the VRS being commissioned.
- d) For further details of our systems, please go to our website as listed below.
- e) Minimum distance from edge of socket to edge of foundation 100mm. For reinforcement cover requirements see contract documents.
- f) All posts to meet the testing specifications as laid down in HSD002.
- g) Where the horizontal distance from the traffic face (TF) of the VRS to the point of setback (Psb) is less than, or equal to 1.5m, the 610 ± 30mm Height to the centre of the beam shall be measured from the level of the adjacent paved surface. Over 1.5m and, the height will be measured from the general ground level below the VRS. See HSM001 for me details.
- h) For system alignment tolerances see HSM001.
- i) For suitability of kerb heights/types for use with FlexBeam VRS see HSM001.

0888
Hill & Smith Ltd
Springvale Business & Industrial Park
Bilston, Wolverhampton, WV14 0QL.

CE Approval No: 0888-CPD-0200 Iss 2
Certification Body - MIRA

EN1317-5:2007+A1:2008

Product FlexBeam Single Sided VRS with Posts at 4.0m Centres

Product Ref: CEFB04

Performance Under Impact
Containment Level N2
Class of Working Width W4 (1.3m)
Impact Severity Level A (ASI 0.7)

Durability S355 Post and S275 Beams galvanised in accordance to EN ISO 1461

Dangerous Substance NPD
www.brifen.co.uk - www.hill-smith.co.uk - www.flexbeam.co.uk

Date 31/03/2015 Revision A Sheet 1/1

PD-CEGRSB104

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