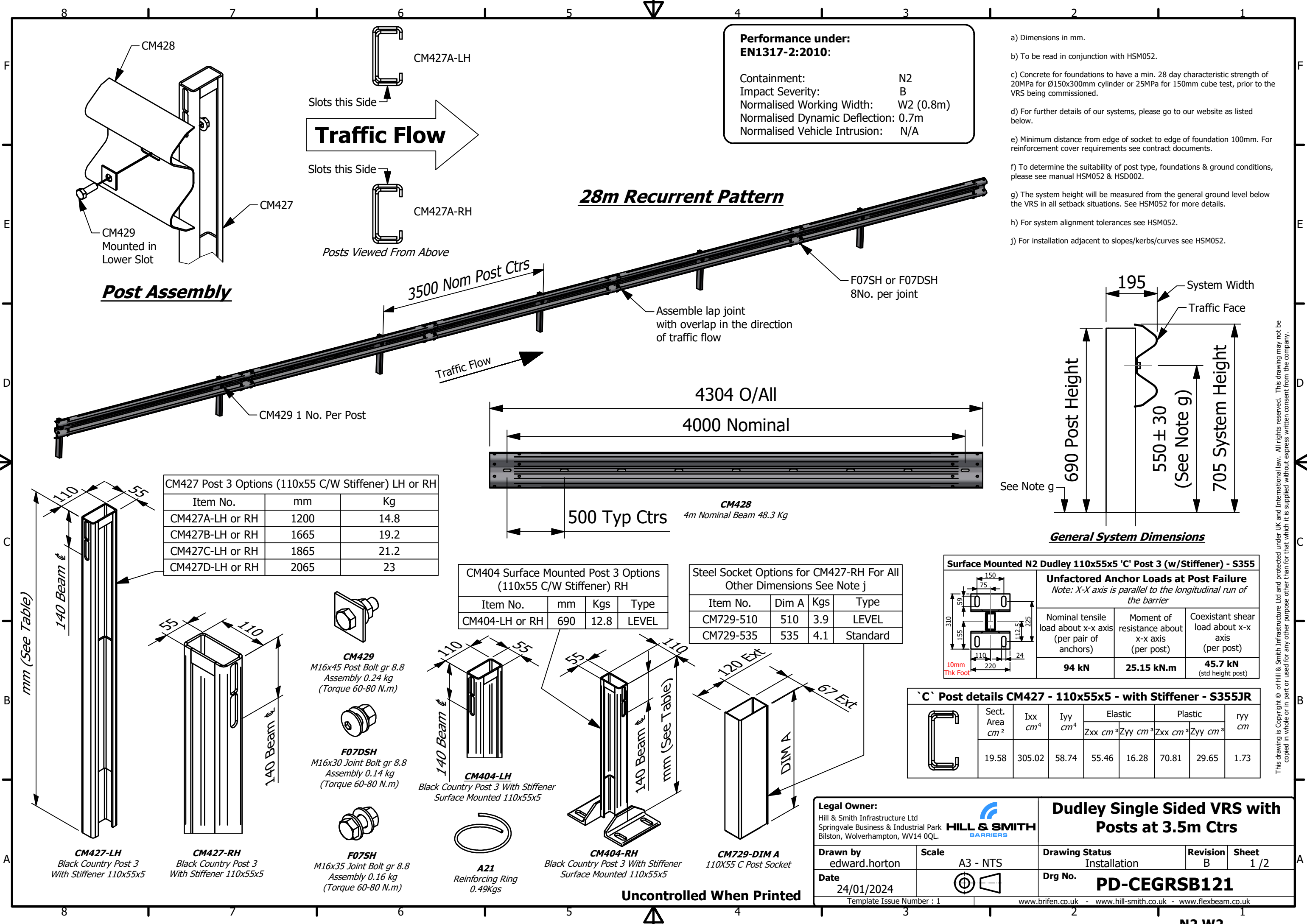




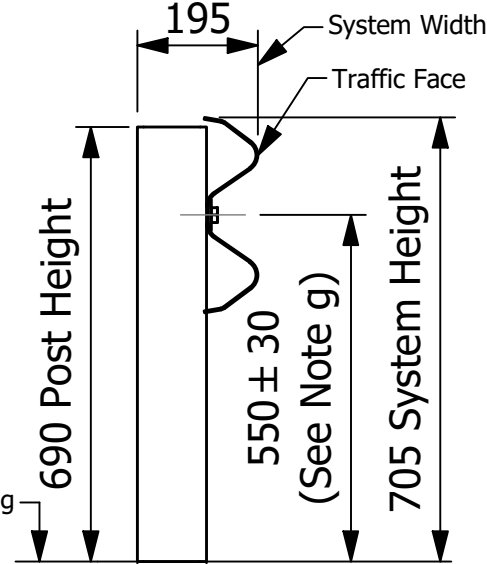
**Performance under:
EN1317-2:2010:**

Containment:	N2
Impact Severity:	B
Normalised Working Width:	W2 (0.8m)
Normalised Dynamic Deflection:	0.7m
Normalised Vehicle Intrusion:	N/A

- a) Dimensions in mm.
- b) To be read in conjunction with HSM052.
- 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) To determine the suitability of post type, foundations & ground conditions, please see manual HSM052 & HSD002.
- g) The system height will be measured from the general ground level below the VRS in all setback situations. See HSM052 for more details.
- h) For system alignment tolerances see HSM052.
- j) For installation adjacent to slopes/kerbs/curves see HSM052.

Post Assembly

28m Recurrent Pattern



General System Dimensions

CM427 Post 3 Options (110x55 C/W Stiffener) LH or RH

Item No.	mm	Kg
CM427A-LH or RH	1200	14.8
CM427B-LH or RH	1665	19.2
CM427C-LH or RH	1865	21.2
CM427D-LH or RH	2065	23

CM404 Surface Mounted Post 3 Options (110x55 C/W Stiffener) RH

Item No.	mm	Kgs	Type
CM404-LH or RH	690	12.8	LEVEL

Steel Socket Options for CM427-RH For All Other Dimensions See Note j

Item No.	Dim A	Kgs	Type
CM729-510	510	3.9	LEVEL
CM729-535	535	4.1	Standard

Surface Mounted N2 Dudley 110x55x5 'C' Post 3 (w/Stiffener) - S355			
Technical drawing of the Surface Mounted N2 Dudley 110x55x5 'C' Post 3 (w/Stiffener) showing dimensions and a 10mm thick foot. Dimensions: - Top flange width: 150 - Top flange hole spacing: 75 - Top flange thickness: 59 - Post height: 310 - Post diameter: 55 - Stiffener height: 155 - Stiffener hole spacing: 110 - Stiffener width: 220 - Stiffener thickness: 24 - Post hole spacing: 112.5 - Post hole diameter: 25 10mm Thk Foot	Unfactored Anchor Loads at Post Failure <i>Note: X-X axis is parallel to the longitudinal run of the barrier</i>		
	Nominal tensile load about x-x axis (per pair of anchors)	Moment of resistance about x-x axis (per post)	Coexistent shear load about x-x axis (per post)
	94 kN	25.15 kN.m	45.7 kN (std height post)

'C' Post details CM427 - 110x55x5 - with Stiffener - S355JR

Sect. Area cm²	Ixx cm⁴	Iyy cm⁴	Elastic		Plastic		ryy cm
			Zxx cm³	Zyy cm³	Zxx cm³	Zyy cm³	
19.58	305.02	58.74	55.46	16.28	70.81	29.65	1.73

Legal Owner: Hill & Smith Infrastructure Ltd Springvale Business & Industrial Park Bilston, Wolverhampton, WV14 0QL.		HILL & SMITH BARRIERS		Dudley Single Sided VRS with Posts at 3.5m Ctrs	
Drawn by edward.horton	Scale A3 - NTS	Drawing Status Installation	Revision B	Sheet 1 / 2	
Date 24/01/2024		Drg No. PD-CEGRSB121			
Template Issue Number : 1		www.brifen.co.uk - www.hill-smith.co.uk - www.flexbeam.co.uk			

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Single Sided Dudley



Hill & Smith Infrastructure Ltd
Springvale Business & Industrial Park
Bilston, Wolverhampton, WV14 0QL.
23
0402-CPR-C500443

EN 1317-5: 2007+A2 2012
Dudley Single Sided VRS with Posts at 3.5m Ctrs

intended to be used in circulation areas

Performance Under Impact:

- a) Containment Level: N2
- b) Impact Severity: B
- c) Normalised Working Width: $W_n = W_2$ (0.8m)
- d) Normalised Dynamic Deflection: $D_n = 0.7m$
- e) Normalised Vehicle Intrusion: $V_{In} = N/A$

Durability: S355 Galvanised to EN ISO 1461
ZM Pre-Galvanised Steel Components to EN 10346

Resistance to snow removal: Class 3

Dangerous Substance: NPD

Quantity of parts per meter							
Item No.	CE Mark Approved	Cast-In	Socketed	STD Driven	Long Driven	X Long Driven	Surface Mounted
A21	Yes	0.25	0.25	-	-	-	-
CM428	Yes	0.25	0.25	0.25	0.25	0.25	0.25
CM427A-LH or RH	Yes	0.286	0.286	-	-	-	-
CM427B-LH or RH	Yes	-	-	0.286	-	-	-
CM427C-LH or RH	Yes	-	-	-	0.286	-	-
CM427D-LH or RH	Yes	-	-	-	-	0.286	-
CM429	Yes	0.286	0.286	0.286	0.286	0.286	0.286
F07SH or F07DSH	Yes	2.0	2.0	2.0	2.0	2.0	2.0
CM729-510 or CM729-535	Yes	-	0.286	-	-	-	-
CM404-LH or RH	Yes						0.286
System Weight (Kgs/m)	-	17.18	18.44	17.95	18.50	19.04	16.87

*All system weights calculated with F07SH bolt assembly

*Socketed system weights calculated with CM729-535

*Cast-In and Socketed system weights calculated with A21 Reinforcement Ring

B	Updated for CE Mark	Bradley.John	05/02/2024	Andrew Pardoe	05/02/2024
REV	DESCRIPTION	BY	DATE	APP BY	APP ON
REVISION HISTORY					

Legal Owner: Hill & Smith Infrastructure Ltd Springvale Business & Industrial Park Bilston, Wolverhampton, WV14 0QL.		 HILL & SMITH BARRIERS		Dudley Single Sided VRS with Posts at 3.5m Ctrs	
Drawn by edward.horton	Scale A4 - NTS	Drawing Status Installation		Revision B	Sheet 2 / 2
Date 24/01/2024			Drg No. PD-CEGRSB121		
Template Issue Number : 1		www.brifen.co.uk - www.hill-smith.co.uk - www.flexbeam.co.uk			

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