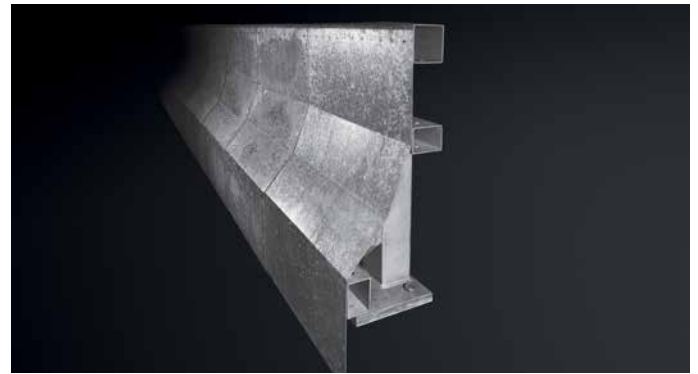


Protect 365[®]

High containment parapets

Designed, verified by computer modelling, and dynamically tested with modern cars and with representative test lengths to meet the requirements of BS EN 1317. Improved safety performance together with lower bridge deck loadings.



Key features

- Low structure loading
- Low anchorage requirements
- Increased proven range of post centres
- Increased tolerance for installation to accommodate out of position foundations

Availability

Supply and installation is by licensed companies having third party verified UK National Highways Sector Scheme 5A and 5B approval and a quality management scheme in accordance with ISO 9001.

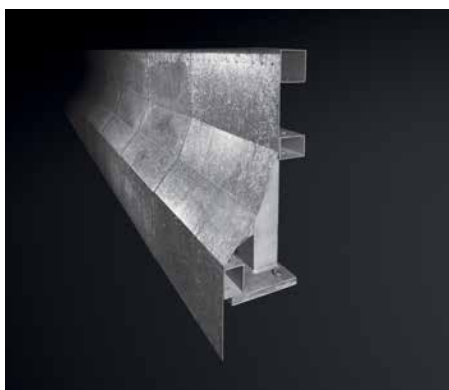
Features

	H2 Multirail	H4a Unclad	H4a Clad
Containment level	H2	H4a	H4a / L4a
Height minimum	1.5 m	1.5 m	1.6 m
Post centres			
Proven range	2.5 m to 3.125 m	2.5 m to 4.375 m	2.5 m to 3.75 m
End bay maximum	3.125 m	3.5 m*	3.0 m**
Minimum length of parapet	35.0 m end post centres (14 bays, 15 posts)	27.5 m end post centres (11 bays, 12 posts)	20.0 m end post centres (8 bays, 9 posts)
Plinth height	50 to 100 mm	0 to 100 mm	50 to 100 mm
Grout bedding (plus any falls)	10 to 30 mm	10 to 30 mm	10 to 30 mm
Plinth width minimum	450 mm	600 mm	600 mm

*2.5 m to 4.375 m if connected to Protect 365 H4a Unclad Parapet Transition.

**2.5 m to 3.75 m if connected to Protect 365 Clad H4a Transition.

For all non standard designs contact us at the details below



H4a clad parapet



H4a unclad parapet transition

Specification

	H2 Multirail		H4a Unclad		H4a Clad	
Performance						
Post centres	2.5 m	3.125 m	2.5 m	4.375 m	2.5 m	3.75m
Impact severity level	B	B	C	B	B	B
Working width class - 3 rail	W3 (1.0 m)	W3 (1.0 m)	W4 (1.2 m)	W4 (1.2 m)	W4 (1.2 m)	W4 (1.2 m)
Wheel penetration	0.3 m	0.3 m	0.4 m	0.4 m	0.4 m	0.4 m
Dynamic deflection	0.4 m	0.4 m	0.5 m	0.5 m	0.5 m	0.6 m
Structure loads						
Post size	100 x 100 mm		180 x 180 mm		200 x 200 mm	
Post ultimate moment capacity	28.7 kNm		99.9 kNm		125 kNm	
Coexisting shear	38.8 kN		118 kN		135 kN	
Post ultimate shear capacity	247.0 kN		462 kN		515 kN	
Options						
	<ul style="list-style-type: none"> • Infill: Mesh or solid sheet • Available in heights 1.5 m and 1.8 m • Paint finish available if required 		<ul style="list-style-type: none"> • Paint finish available if required 		<ul style="list-style-type: none"> • Coping – required over electrified rail track to give 1.8m height • Rear anti-climb sheeting at ends • Paint finish available if required 	

All systems are provided as Hot dip galvanised to BS EN ISO 1461 and can provide a service life of 30+ years (dependent upon conditions in accordance with specifications for Highways Works Series 400) (Nov 2007)

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