

HA ACCEPTED EN1317 COMPLIANT ROAD RESTRAINT SYSTEMS

September 2009

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Sector Scheme Training Requirements

Note from TD19/06:

1.17 All VRS installed for use on the Trunk Road network, and on all roads in Northern Ireland, must be installed and maintained by qualified personnel in accordance with Sector Schemes 2B and 5B (see Appendix A of MCHW-1), where these schemes are applicable. VRS, such as concrete safety barrier, that are not covered by these Sector Schemes must be installed and maintained by suitably trained and experienced personnel.

New Products – September 2009

- **Safety Barriers (Permanent and Temporary)**
 - Delta Bloc; Delta Bloc 80/4m (K120)
 - Delta Bloc; Delta Bloc 90 Step/6m (K220)
 - Delta Bloc; Delta Bloc 80 AS-R/6m (K180)
 - Delta Bloc; Delta Bloc 100S/6m (K220)
 - Highway Care; BarrierGuard 800 steel barrier – 12m anchors
- **Safety Barriers (Permanent)**
 - Hill and Smith; Flex-Beam Plus single sided at 1.6m post spacing
 - Holgate Fencing (Ire); Safence Guard Rail 3-rope system at 2.5m post spacing
 - Holgate Fencing (Ire); Safence 4R.I. 4-rope system at 2.5m post spacing
 - SafeRoad BLG; Balmerguard safety fence
- **Transition**
 - DeltaBloc; DeltaBloc SafeLink (DB100S to DB 90Step)
 - SafeRoad BLG; Balmerflex Transition
- **Lorry Mounted Crash Cushions**
 - Acklea Ltd; Scorpion Lorry Mounted Crash Cushion

Note: For further details on these systems, please see relevant section within the HA Accepted EN1317 Compliant Road Restraint Systems List.

Relisted Products

- **Safety Barriers**
 - CORUS; N2W4 Vetex at 2.0m centres
 - CORUS; N2W4 Vetex at 2.5m centres
-

Amendments

- QUEST and QUADGUARD crash cushions now CE marked
- All 'Balmer Lindley' products now listed as 'SafeRoad BLG'.
- S-A-B H2 Gate is now distributed by Highway Care.
- Highway Care's 'X-Tension 110' terminal, renamed as the 'Xtension 110'

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SAFETY BARRIERS

The following Safety Barriers have been successfully tested to meet the requirements of BS EN 1317 -1 and -2 and are acceptable for use on the Highways Agency Trunk Road Network for the Containment Performance Class and Working Width Class stated below. Please note: that all safety barriers must be installed by qualified personnel in accordance with sector scheme 2B or 21. The Safety Barriers shall comply with the manufacturers Specification, component descriptions and Installation procedures. Further information on Impact Severity Levels for the product and copies of documents and drawings can be obtained from the Promoter.

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Higher Vertical Concrete Barrier (HVCB)	H4a	W5	C	Please contact an appropriate Manufacturer/ Contractor for details including information on construction.	
Vertical Concrete Barrier (VCB)	N2	W1	C	Please contact an appropriate Manufacturer/ Contractor for details including information on construction.	
Double Rail Open Box Beam (DROBB)	H1	W4	B	Please contact any of the Promoters listed below for details including information on construction, connections and transitions.	
Single Sided Open Box Beam (SSOBB)	N2	With post centres at 1.2m the Working Width Class is: W4	B	Please contact any of the Promoters listed below for details including information on construction, connections and transitions.	
		With post centres at 2.4m the Working Width Class is: W5	B		
Double Sided Open Box Beam (DSOBB)	N2	With post centres at 1.2m the Working Width Class is: W4	B	Please contact any of the Promoters listed below for details including information on construction, connections and transitions.	
		With post centres at 2.4m then the Working Width Class W5	B		
Single Sided Tensioned Corrugated Beam (SSTCB)	N2	With post centres at 3.2m the Working Width Class is: W6	A	Please contact any of the Promoters listed below for details including information on construction, connections and transitions.	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Double Sided Tensioned Corrugated Beam (DSTCB)	N2	With post centres at 3.2m the Working Width Class is: W6	Unknown	Please contact any of the Promoters listed below for details including information on construction, connections and transitions.	

The Promoters for the above Double Rail Open Box Beam (DROBB), Single Sided Open Box Beam (SSOBB), Double Sided Open Box Beam (DSOBB), Single Sided Tensioned Corrugated Beam (SSTCB) and Double Sided Tensioned Corrugated Beam (DSTCB) are listed below. Please contact these Promoters for all enquiries concerning these safety barrier systems and associated connections and transitions and detailed and general arrangement drawings

<p>Clipstone Services Limited Units J & K Clipstone Holding Centre Clipstone Village Mansfield Nottinghamshire NG21 9AP Tel. 01623 420188</p>	<p>Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com</p>	<p>Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 corustubes@corusgroup.com</p>
<p>Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk</p>	<p>SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: john.smith@saferoadblg.co.uk</p>	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
System Spengler Double Sided Precast Concrete Barrier (‘B35’) (height 0.81 + 0.04m)	H2	W2	C	Ardee Precast Concrete Limited Town Parks Ardee Co. Louth Ireland Tel. +353 41 6856372 Fax. +353 41 6857216 email: info@ardeeprecastconcrete.com Web Site: www.ardeeprecastconcrete.com	
System Spengler Precast Concrete Barrier, Trough Construction with Filling	H2	W5	B	Ardee Precast Concrete Limited Town Parks Ardee Co. Louth Ireland Tel. +353 41 6856372 Fax. +353 41 6857216 email: info@ardeeprecastconcrete.com Web Site: www.ardeeprecastconcrete.com	
Varioguard Double Sided Safety Barrier - SYSTEM No. 1	N2 H2	W6 W8	B B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	
Varioguard Single Sided Safety Barrier - SYSTEM No. 4	N2	W2	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
SOLOGUARD Emergency and Maintenance Crossing Point System	H1	W5	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	
Varioguard Double Sided Steel Safety Barrier - SYSTEM No. 3	N2	W4	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	
Asset International Steel Step Barrier	H2	W2	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	
Asset International Half Steel Step Barrier	H2	W1	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Brifen 3 Rope Wire Rope Safety Fence	N2	With post centres at 3.2m then the Working Width Class W6	A	Brifen (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499400 Fax. 01902 499419 e mail: eng@brifen.co.uk	
Brifen 4 Rope Wire Rope Safety Fence	N2	With post centres at 1.2m the Working Width Class is: W4 With post centres at 3.2m the Working Width Class is: W5	A A	Brifen (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499400 Fax. 01902 499419 e mail: eng@brifen.co.uk	
Brifen 4 wire rope safety fence	H1	With post centres at 3.2m the Working Width Class is: W7	A	Brifen (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: miket@hill-smith.co.uk Web site: www.hill-smith.co.uk	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Variable Embedded Concrete Step Barrier (0.9m High minimum) Slip formed Concrete System (Minimum 60mm embedment)	N2 H1 or H2	Note - where there is a difference in level between adjoining carriageways of not more than 300mm and where the actual width of the barrier is less than 0.6m wide the approved Working Width Class is: W1 W2	B B	BRITPAVE Riverside House 4 Meadows Business Park Station Approach Blackwater Camberley Surrey GU17 9AB Tel. 01276 33160 Fax. 01276 33170 e mail: info@britpave.org.uk Web site: www.britpave.org.uk	
	N2 or H1 or H2	Note - where there is a difference in level between adjoining carriageways of not more than 300mm and where the actual width of the barrier is greater than 0.6m but less than 1.0m wide the approved Working Width Class is: W3	B		
Embedded Concrete Step Barrier (0.9m High fixed profile) Slip formed Concrete System (Minimum 60mm embedment)	N2 H1 or H2	Note - where there is no difference in level between adjoining carriageways and where the actual width of the barrier is less than 0.6m wide the approved Working Width Class is: W1 W2	B B	BRITPAVE Riverside House 4 Meadows Business Park Station Approach Blackwater Camberley Surrey GU17 9AB Tel. 01276 33160 Fax. 01276 33170 e mail: info@britpave.org.uk Web site: www.britpave.org.uk	
	N2 or H1 or H2	Note - where there is no difference in level between adjoining carriageways and where the barrier width is greater than 0.6m but less than 1.0m wide the approved Working Width Class is: W3	B		

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Variable Surface Mounted Concrete Step Barrier (0.9m High minimum) Slip formed Concrete System	N2 H1 or H2	Note - where there is a difference in level between adjoining carriageways of not more than 300mm and where the actual width of the barrier is less than 0.6m wide the approved Working Width Class is: W1 W2	B B	BRITPAVE Riverside House 4 Meadows Business Park Station Approach Blackwater Camberley Surrey GU17 9AB Tel. 01276 33160 Fax. 01276 33170 e mail: info@britpave.org.uk Web site: www.britpave.org.uk	
	N2 or H1 or H2	Note - where there is a difference in level between adjoining carriageways of not more than 300mm and where the barrier width is greater than 0.6m but less than 1.0m wide the approved Working Width Class is: W3	B		
Surface Mounted Concrete Step Barrier (0.9m High fixed profile) Slip formed Concrete System	N2 H1 or H2	Note - where there is no difference in level between adjoining carriageways and where the actual width of the barrier is less than 0.6m wide the approved Working Width Class is: W1 W2	B B	BRITPAVE Riverside House 4 Meadows Business Park Station Approach Blackwater Camberley Surrey GU17 9AB Tel. 01276 33160 Fax. 01276 33170 e mail: info@britpave.org.uk Web site: www.britpave.org.uk	
	N2 or H1 or H2	Note - where there is no difference in level between adjoining carriageways and where the barrier width is greater than 0.6m but less than 1.0m wide the approved Working Width Class is: W3	B		

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Steel Step Barrier (0.9m High)	H2	W2	B	BRITPAVE Riverside House 4 Meadows Business Park Station Approach Blackwater Camberley Surrey GU17 9AB Tel. 01276 33160 Fax. 01276 33170 e mail: info@britpave.org.uk Web site: www.britpave.org.uk	
Corus CCB Steel Safety Barrier	N2	With post centres at 1.6m the Working Width Class is: W4 With post centres at 3.2m the Working Width Class is: W5	A A	Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com	
Corus CCB Double- Sided Steel Safety Barrier	N2	With post centres at 1.6m the Working Width Class is: W3 With post centres at 3.2m the Working Width Class is: W4	A A	Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com	
Corus Vetex H2 Single Sided Barrier	H2	With post centres at 2.0m the Working Width Class is: W4	B	Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Corus Vetex N2 Single Sided Safety Barrier	N2	With post centres at 0.8m the Working Width Class is: W2	B	Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com	
		With post centres at 1.6m the Working Width Class is: W2	B		
		With post centres at 2.0m the Working Width Class is: W2	A		
		With post centres at 2.5m the Working Width Class is: W3			
		With post centres at 3.2m the Working Width Class is: W3	A		
		With post centres at 2.0m the Working Width Class is: W4			
		With post centres at 2.5m the Working Width Class is: W4	A		
		With post centres at 4.0m the Working Width Class is: W5	A		
With post centres at 5.0m the Working Width Class is: W5	A				

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Corus Vetex Double Sided N2 Steel Safety Barrier	N2	With post centres at 4.0m the Working Width Class is: W3 With post centres at 5.0m the Working Width Class is: W4	A	Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com	
Protect 365 N2 Safety Fence	N2	With post centres at 2.0m the Working Width Class is: W1 With post centres at 4.0m the Working Width Class is: W3	B B	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com Web site: www.steelparapets.com	
Delta Bloc 80/4m (K120)	N2	W4	B	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com	
Delta Bloc 80AS-R/6m (K180)	H2	W4	B	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Delta Bloc 90 Step/6m (K220)	H2	W6	C	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com	
Delta Bloc 100S/6m (K220)	H2	W5	A	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com	
IMEVA N2 Verge Safety Fence	N2	With post centres at 3.375m the Working Width Class is: W5	A	Francesco Tessari IMEVA 82 100 Benevento Localita Ponte Valentino Area Industriale ASI Zona 75 Italy Tel. 0039 08 24481211 e mail: f.tessari@imeva.it	
HAITSMA H2 Freestanding Precast Concrete Step Barrier	H2	W4	B	Haitsma Beton Pinksterbloemstraat 2 Postbus 7 9288 ZG Kootstertille The Netherlands Tel. 0512-335678 Fax. 0512-335666 e mail: j.kroon@haitsma.nl	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
HAITSMA Beton H2 Freestanding Precast Concrete Step Barrier - (Version 2)	H2	W5	B	Haitsma Beton Pinksterbloemstraat 2 Postbus 7 9288 ZG Kootstertille The Netherlands Tel. 0512-335678 Fax. 0512-335666 e mail: j.kroon@haitsma.nl	
Highway Care BarrierGuard 800, Minimum Deflection System (MDS)	N2	W2	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk	
Highway Care BarrierGuard 800 - 12m centres	N2	W2	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Highway Care Half Steel Step Barrier	H2	W1	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk	
Bri-Flex Double sided vehicle restraint system	H2	W5	A	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Flex-Beam Untensioned Corrugated Beam Double Sided Steel Safety Barrier	N2	With post centres at 1.6m the Working Width Class is: W2	A	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	
		With post centres at 2.0m the Working Width Class is: W2	A		
		With post centres at 3.2m the Working Width Class is: W4	A		
		With post centres at 3.6m the Working Width Class is: W4	A		
		With post centres at 4.0m the Working Width Class is: W4	A		
		With post centres at 4.8m the Working Width Class is: W4	A		

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Flex-Beam Untensioned Corrugated Beam Single Sided Steel Safety Barrier	N2	With post centres at 0.8m the Working Width Class is: W2	A	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	
		With post centres at 1.2m the Working Width Class is: W3	A		
		With post centres at 2.4m the Working Width Class is: W4	A		
		With post centres at 3.2m the Working Width Class is: W4	A		
		With post centres at 4.0m the Working Width Class is: W5	A		
Flex-Beam Plus Untensioned Corrugated Beam Single Sided Steel Safety Barrier	N2	With post centres at 1.6m the Working Width Class is: W1	C	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	
		With post centres at 2.0m the Working Width Class is: W2	B		
		With post centres at 2.8m the Working Width Class is: W3	B		
	H1	With post centres at 2.0m the Working Width Class is: W4	B		
H2	With post centres at 2.0m the Working Width Class is: W5	B			

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
ZoneGuard	N1	W6	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	
Safence Guard Rail 3-Rope system	N2	With post centres at 2.5m the Working Width Class is: W4	A	Holgate Fencing (Ire) Ltd The Grange Newcastle Road Lucan Co. Dublin Tel. 353-1- 5055890 Fax: 353-1- 5055891 e mail: alanmuldoon@holgatefencing.ie website: www.holgatefencing.ie	
Safence 4.R.I 4-Rope system	H1	With post centres at 2.5m the Working Width Class is: W5	A	Holgate Fencing (Ire) Ltd The Grange Newcastle Road Lucan Co. Dublin Tel. 353-1- 5055890 Fax: 353-1- 5055891 e mail: alanmuldoon@holgatefencing.ie website: www.holgatefencing.ie	
Vulcan Safety Barrier	N2 H2	W6 W8	A A	Quixote Europe Inc Crown House Crown Street Ipswich Suffolk IP1 3HS Tel. 01473 22 11 05 Fax: 01473 22 11 06 e mail: europe.sales@quixotecorp.com Web site: www.energyabsorption.com	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Marcegaglia N2W2 safety fence system	N2	W2	A	Marcegaglia buildtech S.r.l New Road Netherton Dudley West Midlands DY2 8TA Tel. 01384 242 812 Fax. 01384 242 813 email: terry.nightingale@marcegaglia.com	
Marshalls Delta Bloc 80	N1 Note: Only permitted for use on roads where road works are being undertaken and a speed limit of less than 50 mph is operative.	W4	A	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk	
Delta Bloc 80-4M (K180) Freestanding Precast Concrete Barrier	N2	W4	B	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk	
Delta Bloc 80-4M (K120) Freestanding Precast Concrete Barrier	N2	W4	B	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Marshalls Delta Bloc 65S/6m/K120 Barrier System	N2 and H1	W6	B	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk	
Marshalls Delta Bloc 100 Barrier System	N2 and H1	W6	A	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk	
Balmerguard H2 Safety Fence	N2 or H2	With post centres at 2.0m the Working Width Class is: W1	B	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk	
ESP Profile A, 2m post spacing	N2	W4	A	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: john.smith@saferoadblg.co.uk	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
SCT 'DUCOS' Single Sided Composite Timber and Steel Class N2 Safety Barrier	N2	With post centres at 4.0m the Working Width Class is: W6	A	S.C.T. srl Via del Brolo, 32 25136 BRESCIA Italy Tel. 0039 030209 2541 e mail: info@sctitalia.com Web site: www.sctitalia.com	
Sistema Steelgard Barrier	H4a	W5	B	Sistema Construction (UK) Ltd. Unit 16 Park Farm Business Centre Fornham St Genevieve Bury St Edmunds Suffolk 1P28 6TS Tel. 01284 701 801 Fax. 01284 701 405 Mobile. 07740 122 982 e mail: enquiries@sistema-construction.com Direct e mail: jferro@sistema-construction.com	
Sistema Steelgard Central Reserve Barrier	N2 and H3	W5	B	Sistema Construction (UK) Ltd. Unit 16 Park Farm Business Centre Fornham St Genevieve Bury St Edmunds Suffolk 1P28 6TS Tel. 01284 701 801 Fax. 01284 701 405 Mobile. 07740 122 982 e mail: enquiries@sistema-construction.com Direct e mail: jferro@sistema-construction.com	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Fracasso Type 3n13506 Single Sided Safety Barrier	N2 and H2	W5	B	Sistema Construction (UK) Ltd. Unit 16 Park Farm Business Centre Fornham St Genevieve Bury St Edmunds Suffolk 1P28 6TS Tel. 01284 701 801 Fax. 01284 701 405 Mobile. 07740 122 982 e mail: enquiries@sistema-construction.com Direct e mail: jferro@sistema-construction.com	
Fracasso Type B21300 Double Wave Single Sided Safety Barrier	H1	W6	A	Sistema Construction (UK) Ltd. Unit 16 Park Farm Business Centre Fornham St Genevieve Bury St Edmunds Suffolk 1P28 6TS Tel. 01284 701 801 Fax. 01284 701 405 Mobile. 07740 122 982 e mail: enquiries@sistema-construction.com Direct e mail: jferro@sistema-construction.com	
Sistema MDS H2 Safety Barrier	H2 (With Environmental Barrier)	W7	B	Sistema Construction (UK) Ltd. Unit 16 Park Farm Business Centre Fornham St Genevieve Bury St Edmunds Suffolk IP28 6TS Tel. 01284 701 801 Fax. 01284 701 405 Mobile. 07740 122 982 e mail: enquiries@sistema-construction.com Direct e mail: jferro@sistema-construction.com	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
N2W2 Safety Fence System	N2	W2	A	<p>Sistema Construction (UK) Ltd. Unit 16 Park Farm Business Centre Fornham St Genevieve Bury St Edmunds Suffolk IP28 6TS Tel. 01284 701 801 Fax. 01284 701 405 Mobile. 07740 122 982 e mail: enquiries@sistema-construction.com Direct e mail: jferro@sistema-construction.com</p>	
S-A-B Class H2 Gate (For emergency and maintenance cross over points)	N2 and H2	W6	A	<p>Snoline spa Via F Baracca 19/23 20056 Trezzo sull' Adda (M1) Italy</p> <p>Tel. +39 02909961 Fax +39 0290996200 e-mail: info@snoline.com Contact: Ms Roberta Gritti</p>	
TSS Softbaer H2 Freestanding Concrete Barrier	H2	W2	C	<p>Technische Sicherheits-Systeme (TSS) GmbH Alfred Schutte-Allee 10 D-50679 Cologne Germany</p> <p>Tel. +49 221 980601 Fax. 49 221 9806490 e mail: edouard.cuijpers@tss-koeln.de</p>	
Tubosider 3NTU-brl.16 Class N2 Hardshoulder Safety Barrier	N2	With post centres at 4.0m the Working Width Class is: W5	A	<p>Tubosider UK Ltd 10 Sutton Fold Industrial Estate Off Lancots Lane St. Helens Merseyside WA9 3EX</p> <p>Tel. 01744 452900 Fax. 01744 452949 e mail: Jim.Dwyer@tubosider.co.uk</p>	

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Tubosider 2NTU-brl.23 Class H1/H2 Hardshoulder Safety Barrier	H1	With post centres at 1.5m the Working Width Class is: W4	A	Tubosider UK Ltd 10 Sutton Fold Industrial Estate Off Lancots Lane St. Helens Merseyside WA9 3EX Tel. 01744 452900 Fax. 01744 452949 e mail: Jim.Dwyer@tubosider.co.uk	
	H2	With post centres at 1.5m the Working Width Class is: W7	A		

END OF SAFETY BARRIER SECTION - RETURN TO CONTENTS

TEMPORARY SAFETY BARRIERS

The following Temporary Safety Barriers have been successfully tested to meet the requirements of BS EN 1317 -1 and -2 and have been approved for use on the Highways Agency Trunk Road Network for the Containment Performance Class and Working Width Class stated below.

Please note: that all safety barriers must be installed by qualified personnel in accordance with sector scheme 2B.

The Temporary Safety Barriers shall comply with the manufacturers Specification, component descriptions and Installation procedures.

Further information on Impact Severity Levels for the product and copies of documents and drawings can be obtained from the Promoter.

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
System Spengler Transportable Double Sided Precast Concrete Barrier (height 0.81m)	H1	W7	B	Ardee Precast Concrete Limited Town Parks Ardee Co. Louth Ireland Tel. +353 41 6856372 Fax. +353 41 6857216 email: info@ardeeprecastconcrete.com Web Site: www.ardeeprecastconcrete.com
Varioguard Double Sided Safety Barrier - SYSTEM No. 1	N2 H2	For a tested length of 60m between end anchors, and anchored in accordance with the EN1317 compliant test, the working width class shall be: W6 W8 Note: For a different installation length please contact the Promoter for information concerning the Working Width of the system.	B B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Varioguard 'Quick Joint' Steel Safety Barrier - SYSTEM No. 2	N2 H2	For a tested length of 68m between end anchors, and anchored in accordance with the EN1317 compliant test, the working width class shall be: W6 W8 Note: For a different installation length please contact the Promoter for information concerning the Working Width of the system.	B B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk
SOLOGUARD Emergency and Maintenance Crossing Point System	H2	W5	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk
Varioguard 'Quick Joint' Double Sided Steel Safety Barrier - SYSTEM No. 5	N2	For a tested length of 68m between end anchors, and anchored in accordance with the EN1317 compliant test, the working width class shall be: W5 Note: For a different installation length please contact the Promoter for information concerning the Working Width of the system.	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Varioguard Double Sided Steel Safety Barrier - SYSTEM No. 3	N2	For a tested length of 88m between end anchors, and anchored in accordance with the EN1317 compliant test, the working width class shall be: W4 Note: For a different installation length please contact the Promoter for information concerning the Working Width of the system.	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk
Varioguard QM Safety Barrier System	N2	W6	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk
Delta Bloc 80/4m (K120)	N2	W4	B	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Delta Bloc 80AS-R/6m (K180)	H2	W4	B	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com
Delta Bloc 90 Step/6m (K220)	H2	W6	C	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com
Delta Bloc 100S/6m (K220)	H2	W5	A	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com
Eurovia Beton 2m Transportable Concrete Barrier	N1 Note: Only permitted for use on roads where road works are being undertaken and a speed limit of less than 50 mph is operative.	W4	A	Eurovia Beton 12, Avenue du Juillet 91412 Dourdan Cedex France Tel. (33) 01 60815200/(33) 01 64593184 e mail: fcosani@eurovia.com Web site: www.eurovia.com

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Highway Care BarrierGuard 800 - 12m centres	N2	W2	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk
Highway Care BarrierGuard 800, Minimum Deflection System (MDS)	N2	W2	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk
Quickchange Moveable Barrier (QMB)	N2 H2	W4 W6	B B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
ZoneGuard	N1	W6	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk
Marshalls Delta Bloc 80	N1 Note: Only permitted for use on roads where road works are being undertaken and a speed limit of less than 50 mph is operative.	W4	A	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk
Delta Bloc 80-4M (K180) Freestanding Precast Concrete Barrier	N2	W4	B	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk
Delta Bloc 80-4M (K120) Freestanding Precast Concrete Barrier	N2	W4	B	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Marshalls Delta Bloc 65S/6m/K120 Barrier System	N2 and H1	W6	B	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk
Marshalls Delta Bloc 100 Barrier System	N2 and H1	W6	A	Marshalls Traffic Management Southowram Halifax HX3 9SY Tel. 0845 3040708 Fax. 0845 3040709 e mail: Traffic.Management@marshalls.co.uk
NMS Civil Engineering N2TCB Freestanding Precast Concrete Barrier	N2	W3	C	NMS Civil Engineering Limited Park Industrial Estate Liverpool Road Ashton-in-Makerfield Wigan Greater Manchester WN4 0YU Tel. 01942 722694 e mail: Geoff@nmsltd.co.uk
RB22 Water Filled Barrier	N1 Note: Only permitted for use on roads where road works are being undertaken and a speed limit of less than 50 mph is operative.	W7	A	Oaklands Plastics Ltd Station Road Coleshill Birmingham B46 1HT Tel. 01675 466321 email: enquiries@oaklandsplastics.com

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Vulcan Safety Barrier	N2 H2	W6 W8	A A	Quixote Europe Inc Crown House Crown Street Ipswich Suffolk IP1 3HS Tel. 01473 22 11 05 Fax: 01473 22 11 06 e mail: europe.sales@quixotecorp.com Web site: www.energyabsorption.com
Rhino Polyethylene Water Filled Barrier	N1 Note: Only permitted for use on roads where road works are being undertaken and a speed limit of less than 50 mph is operative.	W8	A	Rhino Barrier Systems Ltd. Equinox 1 Audby Lane Wetherby West Yorkshire LS22 7RD Tel. 01937 583333 Fax. 01937 58322 e mail: sales@polyjohn.co.uk Web Site: www.rhinobarriers.com
Varioguard 'Quick Joint' H2 Double Sided Steel Safety Barrier	H2	For a tested length of 68m between end anchors, and anchored in accordance with the EN1317 compliant test, the working width class shall be: W8 Note: For a different installation length please contact the Promoter for information concerning the Working Width of the system.	B	SafeRoad BLG Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: martin.hall@saferoadblg.co.uk

Safety Barrier Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Freestanding Varioguard with Quick Joints H2 Double Sided Steel Safety Barrier	N2 H2	For a tested length of 64m between end anchors, and anchored in accordance with the EN1317 compliant test, the working width class shall be: W6 W8 Note: For a different installation length please contact the Promoter for information concerning the Working Width of the system.	A B	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk
Advanced Varioguard N2 Double Sided Steel Safety Barrier	N2	For a tested length of 64m between end anchors, and anchored in accordance with the EN1317 compliant test, the working width class shall be: W6 Note: For a different installation length please contact the Promoter for information concerning the Working Width of the system.	B	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk

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PARAPETS

The following Parapets have been successfully tested to meet the requirements of BS EN 1317 -1 and -2 and have been approved for use on the Highways Agency Trunk Road Network for the Containment Performance Class and Working Width Class stated below.
Please note: that all parapets must be installed by qualified personnel in accordance with sector scheme 5B.
The parapets shall comply with the manufacturers Specification, component descriptions and Installation procedures.
Further information on Impact Severity Levels for the product and copies of documents and drawings can be obtained from the Promoter.

Parapet Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
BPL Aluminium Parapet System	N2	W4	B	Bridge Parapets Ltd Tomich Industrial Estate Muir of Ord Ross-Shire Scotland IV6 7UA Tel. (01463) 870194 e mail:sales@bridge-parapets.com	
BPL 200 Aluminium Parapet System	N2	W3	C	Bridge Parapets Ltd Tomich Industrial Estate Muir of Ord Ross-Shire Scotland IV6 7UA Tel. (01463) 870194 e mail:sales@bridge-parapets.com	
Protect 365 N2 parapet (formerly Corus HBP 300 N2 Steel Parapet)	N2	With post centres at 2.5m the Working Width Class is: W3 With post centres at 3.75m the Working Width Class is: W4 <i>Note: For intermediate post positions the manufacturer/Promoter will be responsible for declaring the working width.</i>	B B	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com Web site: www.steelparapets.com	

Parapet Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Protect 365 H4a Parapet (formerly Corus Tubes Celsius HBP 300 H4a Steel Parapet)	H4a	With post centres at 2.5m the Working Width Class is: W4 With post centres at 3.75 m the Working Width Class is: W4	B	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com Web site: www.steelparapets.com	
Protect 365 N1 Parapet (formerly Corus Protect 365 N1 3 Rail Steel Parapet)	N1 Note: Only permitted for use on roads where a speed limit of less than 50 mph is operative.	With post centres at 2.5m the Working Width Class is: W1 With post centres at 3.75 m the Working Width Class is: W2	A A	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com Web site: www.steelparapets.com	
Protect 365 N1 Vertical Infill Steel Parapet	N1 Note: Only permitted for use on roads where a speed limit of less than 50 mph is operative.	With post centres at 2.5m the Working Width Class is: W1 With post centres at 3.75 m the Working Width Class is: W1	A A	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com Web site: www.steelparapets.com	
IMEVA H2 Steel Parapet	H2	With post centres at 3.0m the Working Width Class is: W5	A	Francesco Tessari IMEVA 82 100 Benevento Localita Ponte Valentino Area Industriale ASI Zona 75 Italy Tel. 0039 08 24481211 e mail: f.tessari@imeva.it	

Parapet Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Sicuro H2 Steel Parapet	H2	W2	B	SafeRoad BLG Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk	
Balmerguard H2 Steel Parapet	N2 or H2	With post centres at 2.0m the Working Width Class is: W1	B	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk	
Balmer Lindley Phoenix N1 Aluminium Parapet	N1 Note: Only permitted for use on roads where a speed limit of less than 50 mph is operative.	With post centres at 3.8m the Working Width Class is: W2	A	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk	
Balmer Lindley Phoenix N2 Aluminium Parapet	N2	With post centres at 3.0m the Working Width Class is: W3	B	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk	

Parapet Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
Sistema Steelgard Barrier	H4a	W5	B	Sistema Construction (UK) Ltd. Unit 16 Park Farm Business Centre Fornham St Genevieve Bury St Edmunds Suffolk 1P28 6TS Tel. 01284 701 801 Fax. 01284 701 405 Mobile. 07740 122 982 e mail: enquiries@sistema-construction.com Direct e mail: jferro@sistema-construction.com	
VGAN 1000 N2 Aluminium Parapet	N2	W2	B	Varley and Gulliver Ltd Alfred Street Sparkbrook Birmingham B12 8JR Tel. (0121) 773 2441 e mail: darren@v-and-g.co.uk	
VGSN 1000 N2 Steel Parapet	N2	W1	B	Varley and Gulliver Ltd Alfred Street Sparkbrook Birmingham B12 8JR Tel. (0121) 773 2441 e mail: darren@v-and-g.co.uk	
VGSN 900 N2 Steel Parapet	N2	W2	C	Varley and Gulliver Ltd Alfred Street Sparkbrook Birmingham B12 8JR Tel. (0121) 773 2441 e mail: darren@v-and-g.co.uk	
VGSN 500 N1 Steel Parapet	N1 Note: Only permitted for use on roads where a speed limit of less than 50 mph is operative.	W1	A	Varley and Gulliver Ltd Alfred Street Sparkbrook Birmingham B12 8JR Tel. (0121) 773 2441 e mail: darren@v-and-g.co.uk	

Parapet Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter	CE Marked
VGAN 500 N1 Aluminium Parapet	N1 Note: Only permitted for use on roads where a speed limit of less than 50 mph is operative.	W2	A	Varley and Gulliver Ltd Alfred Street Sparkbrook Birmingham B12 8JR Tel. (0121) 773 2441 e mail: darren@v-and-g.co.uk	
VGSH 2000 H2 Steel Parapet	H2	With post centres at 2.0m the Working Width Class is: W3	B	Varley and Gulliver Ltd Alfred Street Sparkbrook Birmingham B12 8JR Tel. (0121) 773 2441 e mail: darren@v-and-g.co.uk	
Varley and Gulliver Steel V6Guard H4a Parapet	H4a	With post centres at 1.5m the Working Width Class is: W3	B	Varley and Gulliver Ltd Alfred Street Sparkbrook Birmingham B12 8JR Tel. (0121) 773 2441 e mail: darren@v-and-g.co.uk	

END OF PARAPET SECTION - RETURN TO CONTENTS

TERMINALS

The following Terminals for safety barriers have been successfully tested to meet the requirements of DD ENV 1317 - 4 and have been approved for use on the Highways Agency Trunk Road Network for the Performance Class and Permanent Lateral Displacement Zone (PLDZ) Class Code stated below.

The Terminals shall comply with the manufacturers Specification, component descriptions and Installation procedures.

Please note: that all safety barriers must be installed by qualified personnel in accordance with sector scheme 2B.

Additional information on Exit Box and Impact Severity Levels for the product and copies of documents and drawings can be obtained from the Promoter.

Installers shall have successfully undertaken suitable training for the system to be installed.

Note: please refer to Table 6, DD ENV 1317 - 4 for PLDZ and Class Codes for terminals. The values of Displacement (measured in metres) Da and Dd are converted to Class Code x and y. Therefore Class Code D1.1 (where 'D' is displacement) represents 0.5m displacement (x), measured from the traffic face of the barrier towards the traffic, and 1.0m (y) measured from the traffic face of the barrier to the rear of the barrier. D1.3 represents a displacement of 0.5m in front of the barrier and 3.5m to the rear of the barrier.

Terminal Type	Performance Class	PLDZ Class Code	ASI	Name and Address of Promoter	Comments
Brifen P4 Wire Rope End Terminal for Brifen 4 Rope Safety Fence	P4	D.1.1	A	Brifen (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 OQL Tel. 01902 499400 Fax. 01902 499419 e mail: eng@brifen.co.uk	For use on roads with a speed limit of 50mph or more. Please contact the Promoter on the restrictions of use for this Terminal.
Brifen P4 Wire Rope End Terminal for Brifen 3 Rope Safety Fence	P4	D.1.1	A	Brifen (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 OQL Tel. 01902 499400 Fax. 01902 499419 e mail: eng@brifen.co.uk	For use on roads with a speed limit of 50mph or more. Please contact the Promoter on the restrictions of use for this Terminal.

Terminal Type	Performance Class	PLDZ Class Code	ASI	Name and Address of Promoter	Comments
Corus Vetex P1 End Terminal	P1	D.1.1	A	Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com	For use on Highways Agency roads where the mandatory speed limit is less than 50mph. In addition can be used on the departure end of a safety barrier where the terminal does not face oncoming traffic and the speed limit is 50mph or more.
Xtension 110 Terminal	P4	D.1.1	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk	For use on roads with a speed limit of 50mph or more. Please contact the Promoter on the restrictions of use for this Terminal.
ABC Terminal	P4	D.1.1	B	Hill and Smith Ltd. Springvale Business and Industrial Park Bilston Wolverhampton WV14 0QL Tel. 01902 499400 Fax. 01902 499419 e mail: barrier@hill-smith.co.uk	For use in the Verge and Central Reserve for single sided applications only and on roads with a speed limit of 50mph or more.
Trinity Euro ET End Terminal	P4	D.1.3	A	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499400 Fax. 01902 499419 e mail: barrier@hill-smith.co.uk	For use in the Verge only on roads with a speed limit of 50mph or more.

Terminal Type	Performance Class	PLDZ Class Code	ASI	Name and Address of Promoter	Comments
Flex-Beam Double Sided P1 End Terminal	P1	D.1.1	A	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	For use on Highways Agency roads where the mandatory speed limit is less than 50mph. In addition can be used on the departure end of a safety barrier where the terminal does not face oncoming traffic and the speed limit is 50mph or more.
Flex-Beam Single Sided P1 End Terminal	P1	D.1.1	A	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	For use on Highways Agency roads where the mandatory speed limit is less than 50mph. In addition can be used on the departure end of a safety barrier where the terminal does not face oncoming traffic and the speed limit is 50mph or more.
Hill and Smith 'Safety Line' Wire Rope Safety Fence Terminal	P1	D.1.1	A	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk	For use on Highways Agency roads where the mandatory speed limit is less than 50mph. In addition can be used on the departure end of a safety barrier where the terminal does not face oncoming traffic and the speed limit is 50mph or more.

Terminal Type	Performance Class	PLDZ Class Code	ASI	Name and Address of Promoter	Comments
Trinity Euro BXT Terminal	P4	D.1.2	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499400 Fax. 01902 499419 e mail: barrier@hill-smith.co.uk	

Terminals detailed in the NPSBS are deemed acceptable for use on the Highways Agency Trunk Road Network on roads with a speed limit less than 50 mph. In addition the terminals can be used on the departure end of safety barriers where the terminal does not face oncoming traffic and the speed limit is 50mph or more.

These terminals do not need a Departure from Standard submission, as they have proven in-service use over a number of years.

Please contact the Promoter's of DROBB, OBB and TCB listed in the Safety Barrier section for further information.

Installers shall have successfully undertaken suitable training for the system to be installed.

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LORRY MOUNTED CRASH CUSHIONS

The following Lorry Mounted Crash Cushions (LMCC) meet the requirements of TD 49/07 and hence, have demonstrated compliance with a 1500kg car impact at the speed of the performance class. They may be used on the Highway Agency Trunk Road Network provided that a special dispensation order known as a Vehicle Special Order (VSO) is obtained from the Department for Transport.

In addition a Vehicle Inspectorate Form VTG 10 will need to be fitted if the LMCC is fitted with an auto impact brake system.

The LMCC shall comply with the manufacturers Specification, component descriptions and Installation procedures. Copies of documents and drawings can be obtained from the Promoter.

Vehicle Attenuators	Name and Address of Promoter
Scorpion Lorry Mounted Crash Cushion <i>(For use on roads with a speed limit of 70mph or less)</i>	Acklea Ltd. Unit 1 Clark Avenue Porte Marsh Industrial Estate Clane Wiltshire SN11 9RD Tel. 01249 822 600 Fax. 01249 820 111 email: acklealtd@yahoo.co.uk
Trinity MPS-350 Lorry Mounted Crash Cushion <i>(For use on roads with a speed limit of 70mph or less)</i>	King Highway Products Ltd. Eriverside Market Harborough Leicestershire LE16 7PX Tel. 08707 475969 Fax. 08707 475970 email: sales@traiload.co.uk

Vehicle Attenuators	Name and Address of Promoter
Vorteq Trailer <i>(For use on roads with a speed limit of 70mph or less)</i>	Quixote Europe, Inc - represented by: King Highway Products Ltd. Eriverside Market Harborough Leicestershire LE16 7PX Tel. 08707 475969 Fax. 08707 475970 email: sales@traiload.co.uk
SafeStop Lorry Mounted Crash Cushion <i>(For use on roads with a speed limit of 70mph or less)</i>	Quixote Europe, Inc - represented by: King Highway Products Ltd. Eriverside Market Harborough Leicestershire LE16 7PX Tel. 08707 475969 Fax. 08707 475970 email: sales@traiload.co.uk

END OF LORRY MOUNTED CRASH CUSHION SECTION - RETURN TO CONTENTS

TRANSITIONS

The following Transition have been successfully tested to meet the requirements of ENV 1317 - 4 and has been approved for use on the Highways Agency Trunk Road Network for the Containment Performance Class and Working Width Class stated below. The Transition shall comply with the manufacturers Specification, component descriptions and Installation procedures. Further information on Impact Severity Levels for the product and copies of documents and drawings can be obtained from the Promoter. Installers shall have successfully undertaken suitable training for the system to be installed.

Transition Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Varioguard Transition (Transition between Varioguard and Safety Barrier)	N2	W2	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk
BRITTRANS' Open Box Beam to Wire Rope Safety Fence Transition	N2	W6	A	Brifen (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499400 Fax. 01902 499419 e mail: eng@brifen.co.uk

Transition Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Vetex N2W2 Safety Fence to Protect 365 N2W3 or N2W4 Transition	N2	W3	B	Corus CEP Corus Distribution & Building Systems Llanwern Works Newport NP19 4QZ Tel. 01633 290011 (CEP Sales) e mail: saferoads@corusgroup.com
Protect 365 N2 Safety Fence to Protect 365 N2 Parapet transition	N2	W3	B	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com
Protect 365 H4a Parapet to Protect 365 N2 Parapet Transition	N2	W2	B	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com
Vetex N2 Safety Fence to Protect 365 N2 Safety Fence Transition	N2	W2	B	Corus Tubes PO Box 101 Weldon Road Corby Northants NN17 5UA Tel. 01536 402121 e mail: corustubes@corusgroup.com

Transition Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
DB SafeLink Transition (DB100S to DB90 Step)	H2	W4	C	Delta Bloc Europa GMBH A-2700 Wiener Neustadt Postfach 154 Austria Tel. +43(0) 57715/470-115 Fax. +43(0) 57715/470-474 email: Thomas.Edl@deltabloc.com
Tranzflex 110 N2 Flexbeam to N1 W1 VGSN 500 Parapet Transition	N1	W2	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk
Tranzflex 120 N2 Flexbeam to N2 W1 VGSN 1000 Parapet Transition	N2	W2	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk
Tranzflex 130 N2 Flexbeam to N1 W2 VGAN 500 Parapet Transition	N1	W2	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk

Transion Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Tranzflex 140 N2 Flexbeam to N2 W2 VGAN 1000 Parapet Transition	N2	W2	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk
Tranzflex 150 N2 Flexbeam to H2 W3 VGSH 2000 Parapet Transition	N2	W2	Refer to Promotor	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk
Tranzflex 160 N2 Flexbeam to H4a W3 V6Guard Parapet Transition	N2	W2	Refer to Promotor	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk

Transition Type	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Tranzflex 200 N2 W4 Double sided FlexBeam to H2 W5 Double sided Bri-Flex Transition	N2	W3	B	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk
Balmerflex Transition (H2W1 Balmerguard parapet to N2W4 safety fence)	N2	W4	B	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Mannaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 Fax. 01724 281478 email: john.smith@saferoadblg.co.uk
TSS Vario - Transition between German B-profile safety fence and TSS Softbaer concrete barrier	H2	W5	B	Technische Sicherheits-Systeme (TSS) GmbH Alfred Schutte-Allee 10 D-50679 Cologne Germany Tel. +49 221 980601 Fax. 49 221 9806490 e mail: edouard.cuijpers@tss-koeln.de

Transitions detailed in the NPSBS (Revision 1) are deemed acceptable for use on the Highways Agency Trunk Road Network, without the need for a Departure from Standard submission, as they have proven in-service use over a number of years. Please contact Promoter's of DROBB, OBB and TCB listed in the Safety Barrier Section for further information.

END OF TRANSITION SECTION - RETURN TO CONTENTS

MISCELLANEOUS

The following products have been accepted for use on the Highways Agency Road Network.

Product	Comments	ASI	Name and Address of Promoter
BIKEGUARD (Motorcyclist Protection System fitted to safety barriers)	BIKEGUARD may be fitted to any UK system listed in the Non-Proprietary Safety Barrier Systems (NPSBS). It may also be fitted to any other system in the Highways Agency Approved Road Restraint System List providing that Highway Care Limited first obtains the approval of the Promoter/Manufacturer of the safety barrier system BIKEGUARD is to be attached to.	A	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk
FlexGuard (Motorcyclist Protection System fitted to safety barriers)	Motorcyclist Protection System fitted to FlexBeam/FlexBeam Plus (both single and double sided versions of these systems), the Hill and Smith H1/H2 safety barrier, and the Briflex vehicle restraint system.	As per the host safety barrier	Hill and Smith Ltd. Springvale Avenue Bilston Wolverhampton WV 0QL Tel. 01902 499400 Fax: 01902 499419 e mail: steve@hill-smith.co.uk Web site: www.hill-smith.co.uk

END OF MISCELLANEOUS SECTION - RETURN TO CONTENTS

CRASH CUSHIONS

The following Crash Cushions have been successfully tested to meet the requirements of BS EN 1317 - 3 and have been approved for use on the Highways Agency Trunk Road Network for the Performance Level and Zone Classes stated below.

Please note: that all safety barriers must be installed by qualified personnel in accordance with sector scheme 2B.

The Crash Cushions shall comply with the manufacturers Specification, component descriptions and Installation procedures. Copies of documents and drawings can be obtained from the Promoter.

Crash Cushion	Performance Level	Zone Classes	ASI	Name and Address of Promoter	CE Marked
Euro - Tracc Re-Directional and Bi-Directional Crash Cushion	110kph <i>(For use on roads with a speed limit greater than 50mph)</i>	Re - Direction Zone Class - Z1 Lateral Displacement Zone Class - D1	A	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	
Vecu-Stop Re-Directional and Uni-Directional Crash Cushion - Model 2.14P and Model 4.14T	110kph <i>(For use on roads with a speed limit greater than 50mph)</i>	Re - Direction Zone Class - Z4 Lateral Displacement Zone Class - D1	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	
Vecu-Stop Re-Directional and Bi-Directional Crash Cushion - Model 2.13P	100kph <i>(For use on roads with a speed limit of 50mph or less)</i>	Re - Direction Zone Class - Z4 Lateral Displacement Zone Class - D1	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk	

Crash Cushion	Performance Level	Zone Classes	ASI	Name and Address of Promoter	CE Marked
Quadguard Re-Directional and Bi-Directional Crash Cushion (6 No. Energy absorbing cells)	110kph <i>(For use on roads with a speed limit greater than 50mph)</i>	Re - Direction Zone Class - Z1 Lateral Displacement Zone Class - D1	B	Asset International (A Division of Hill and Smith) Springvale Business and Industrial Park Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: Customer-Enquiry@asset.com Web Site: www.asset-vrs.co.uk	YES
Quadguard Re-Directional and Bi-Directional Crash Cushion (4 No. Energy absorbing cells)	100kph <i>(For use on roads with a speed limit of 50mph or less)</i>	Re - Direction Zone Class - Z1 Lateral Displacement Zone Class - D1	B	Asset International (A Division of Hill and Smith) Springvale Business and Industrial Park Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: Customer-Enquiry@asset.com Web Site: www.asset-vrs.co.uk	YES
Quest Bi-Directional and Re-Directional Crash Cushion	110kph <i>(For use on roads with a speed limit greater than 50mph)</i>	Re - Direction Zone Class - Z2 Lateral Displacement Zone Class - D2	B	Asset International (A Division of Hill and Smith) Springvale Business and Industrial Park Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: Customer-Enquiry@asset.com Web Site: www.asset-vrs.co.uk	YES
TAU Bi-Directional and Re-Directional family of Crash Cushions	100kph <i>(For use on roads with a speed limit of 50mph or less)</i>	Re - Direction Zone Class - Z1 Lateral Displacement Zone Class - D1	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk	

Crash Cushion	Performance Level	Zone Classes	ASI	Name and Address of Promoter	CE Marked
TAU-B Bi-Directional and Re-Directional Family of Crash Cushions	110kph <i>(For use on roads with a speed limit greater than 50mph)</i>	Re - Direction Zone Class - Z1 Lateral Displacement Zone Class - D1	B	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk	

END OF CRASH CUSHION SECTION - RETURN TO CONTENTS

SAFETY BARRIER GATES

The following Safety Barrier Gates have been successfully tested to meet the requirements of BS EN 1317- 1 and 2 and DD ENV 1317 - 4 and have been approved for use on the Highways Agency Trunk Road Network for the Containment Performance Class and Working Width Class stated below.

The Safety Barrier Gates shall comply with the manufacturers Specification, component descriptions and Installation procedures. Further information on Impact Severity Levels for the product and copies of documents and drawings can be obtained from the Promoter.

Installers shall have successfully undertaken suitable training for the system to be installed.

Safety Barrier Gate	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
SOLOGUARD Emergency and Maintenance Crossing Point System	H1	W5	B	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk
Gateguard Removal Barrier System	H2	W7	B	SafeRoad BLG Ltd. Dragonby Vale Enterprise Park Manaberg Way Scunthorpe North Lincolnshire DN15 8XF Tel. 01724 289119 e mail: phil.jones@saferoadblg.co.uk

Safety Barrier Gate	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
S-A-B Class H2 Gate (For emergency and maintenance cross over points)	N2 and H2	W6	A	Snoline spa, represented by: Highway Care Ltd. The Highlands Detling Hill Detling Hill Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk

The following Safety Barrier Gates have the same profile and performance characteristics of their compliant BS EN 1317 safety barriers which have been tested to meet the requirements of BS EN 1317 - 1 and 2 and are deemed acceptable for use on the Highways Agency Trunk Road Network for the Containment Performance Class and Working Width Class stated below. The Safety Barrier Gates shall comply with the manufacturers Specification, component descriptions and Installation procedures. Further information on Impact Severity Levels for the product and copies of documents and drawings can be obtained from the Promoter.

Steel Step Corridor System (For Emergency and Maintenance Crossing Points)	H2	W2	Refer to Promoter	Asset International (A Division of Hill and Smith) Springvale Avenue Bilston Wolverhampton WV14 0QL Tel. 01902 499402 Fax. 01902 402104 e mail: peter@hill-smith.co.uk Web Site: www.asset-vrs.co.uk
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Safety Barrier Gate	Containment Performance Class	Working Width Class	ASI	Name and Address of Promoter
Steel Step Barrier Gate (For Emergency and Maintenance Crossing Points)	H2	W2	Refer to Promoter	Britpave Riverside House 4 Meadows Business Park Station Approach Blackwater Camberley Surrey GU17 9AB Tel. 01276 33160 Fax. 01276 33170 e mail: info@britpave.org.uk Web site: www.britpave.org.uk
Barrierguard 800 Gate (For Emergency and Maintenance Crossing Points)	N2 H2	W5 W8	Refer to Promoter	Highway Care Ltd. The Highlands Detling Hill Detling Maidstone Kent ME14 3HT Tel. 01622 734215 Fax. 01622 735106 e mail: info@highwaycare.co.uk Web site: www.highwaycare.co.uk

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