
**VOLUME 0 MODEL CONTRACT
DOCUMENT FOR MAJOR
WORKS AND
IMPLEMENTATION
REQUIREMENTS
SECTION 3 ADVICE NOTES**

PART 1

SA 1/05 - AMENDMENT NO. 4 - MAY 2007

**LISTS OF COMPLIANT/APPROVED/
REGISTERED PRODUCTS**

SUMMARY

This document lists products which comply with the Traffic Signs Regulations and General Directions 2002, direction 57 or have obtained Statutory Type Approval, Type Approval and Registration in order that they can be used on the Highways Agency's road network.

INSTRUCTIONS FOR USE

1. Insert replacement pages listed on the Amendment Sheet (Amendment No. 4 - May 2007).
2. Remove the corresponding existing pages, which are superseded by this amendment and archive as appropriate. (Advice on archiving is given in Advice Note SA 4/01.)
3. Enter details of Amendment No. 4 dated May 2007 on the Registration of Amendments Sheet, sign and date to confirm that the amendment has been incorporated.
4. Archive this sheet as appropriate.

Note: A quarterly index with a full set of Volume Contents Pages is available separately from The Stationery Office Ltd.



THE HIGHWAYS AGENCY



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**Department for
Regional Development
www.drni.gov.uk**

**THE DEPARTMENT FOR REGIONAL DEVELOPMENT
NORTHERN IRELAND**

Lists of Compliant/Approved/ Registered Products

Summary: This document lists products which comply with the Traffic Signs Regulations and General Directions 2002, direction 57 or have obtained Statutory Type Approval, Type Approval and Registration in order that they can be used on the Highways Agency's road network.

Amendment No. 4 to SA 1/05 - May 2007

Instruction Sheet

| Section | Revision |
|----------------|--|
| Front Sheet | Replace with new Front Sheet |
| Contents Sheet | Replace with new Contents Sheet |
| Enquiries | Replace pages 4/1 to 4/2 with new pages 4/1 to 4/2 |
| Annex A | Replace Contents Sheet with new Contents Sheet |
| Annex A | Replace pages A/1 to A/4 with new pages A/1 to A/4 |
| Annex B | Replace Contents Sheet with new Contents Sheet |
| Annex B | Replace pages B/1 to B/2 with new pages B/1 to B/2 |
| Annex C | Replace Contents Sheet with new Contents Sheet |
| Annex C | Replace pages C/1 to C/2 and C/5 to C/6 with new pages C/1 to C/2 and C/5 to C/6 |
| Annex D | Replace Contents Sheet with new Contents Sheet |
| Annex D | Replace pages D/7 to D/8 and D/15 to D/16 with new pages D/7 to D/8 and D/15 to D/16 |

REGISTRATION OF AMENDMENTS

| Amend No | Page No | Signature & Date of incorporation of amendments | Amend No | Page No | Signature & Date of incorporation of amendments |
|----------|---------|---|----------|---------|---|
| | | | | | |

SUPERSEDED

REGISTRATION OF AMENDMENTS

| Amend No | Page No | Signature & Date of incorporation of amendments | Amend No | Page No | Signature & Date of incorporation of amendments |
|----------|---------|---|----------|---------|---|
| | | | | | |

SUPERSEDED

**VOLUME 0 MODEL CONTRACT
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SECTION 3 ADVICE NOTES

PART 1

SA 1/05 - AMENDMENT NO. 4 - MAY 2007

**LISTS OF COMPLIANT/APPROVED/
REGISTERED PRODUCTS**

Contents

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2. Procedure for Inclusion in Lists
3. References
4. Enquiries

Lists of Products

- Annex A: Retroreflecting road studs incorporating reflectors (but no light source) as described in direction 57 (1) of TSRGD 2002
- Annex B: Statutory Type Approvals
- Annex C: Type Approvals
- Annex D: Registration

1. INTRODUCTION

1.1 The Specification for Highway Works (SHW), which forms Volume 1 of the Manual of Contract Documents for Highway Works (MCHW 1), requires certain work, goods or materials (products) that are subject to Regulation, Statutory Type Approval, Type Approval or Registration before they can be used on the Highways Agency's road network. Annex A of SD 1 (MCHW 0.2.1) lists such products.

1.2 Statutory Type Approval referred to above is granted by the Secretary of State for the Overseeing Organisation while Type Approval/Registration is granted by the Overseeing Organisations. This Advice Note lists products which are:

- a) retroreflecting road studs (see Annex A) incorporating reflectors (but no light source) as described in direction 57 of TSRGD 2002 (in Northern Ireland Type Approval applies in place of Statutory Type Approval);
- b) road studs (see Annex B) incorporating a steady or intermittent light source as described in direction 57(2) or (3) of TSRGD 2002;
- c) products that have Type Approval (Annex C); and
- d) products that have been registered (Annex D).

1.3 This Advice Note supersedes SA 1/01 Amendment No. 5 which is hereby withdrawn.

1.4 Statutory Type Approvals as listed in Annex B and issued by the Secretary of State apply to England only. Scotland, Wales and the Department for Regional Development (Northern Ireland) issue their own Statutory Type Approvals. Unless otherwise indicated in the lists at Annexes C and D, Type Approval/Registration granted by the Highways Agency as the Overseeing Organisation is valid throughout the UK.

1.5 It should be noted that the approval/registration of some products is subject to limitations on use. Where applicable these are stated in the lists. Such limitations are additional to any given in the SHW. When products are used in contracts which incorporate the SHW, they must conform to the descriptions, specifications and limitations set out in the SHW.

Implementation

1.6 The Advice Note Annexes are factual lists of products which have met compliance with direction 57 of the TSRGD 2002 or have obtained Statutory Type Approval (in the case of road studs incorporating a steady or intermittent light source as described in direction 57(2) or (3) of TSRGD 2002), or which have passed approval/registration procedures at the date of publication. There are no special requirements for implementation. It is intended that the Advice Note should be regularly updated to allow for the inclusion of new products or the deletion of products which are found to be unsatisfactory or have been superseded.

2. PROCEDURE FOR INCLUSION IN LISTS

2.1 Any manufacturer, supplier or agent can apply at any time to have products which have evidence of compliance and certification or have received the appropriate approval/registration placed on the lists at Annexes A, B, C or D. The addresses to which applications should be made are given in Chapter 4 of this Advice Note.

2.2 SD 1 (MCHW 0.2.1) gives information on the type of approval/registration required for each product, reference to the relevant clause in the SHW, and details on information required together with the likely timescale for products to obtain such approval/registration.

2.3 Where approval/registration has been withdrawn from products owing to their failure to perform to the required standard, the products will be removed from the lists at the revision subsequent to the withdrawal. Enquiries may be made of the Overseeing Organisations to check that any approval/registration is current at the time of use. Similarly, enquiries can be made about any approval/registration that may have been granted subsequent to the last publication of the lists.

3. REFERENCES

3.1 Manual of Contract Documents for Highway Works:

Volume 0: Model Contract Document for Major Works and Implementation Requirements:

Section 2 Implementing Standards

SD 1 Implementation of the Specification for Highway Works and Notes for Guidance (MCHW 0.2.1)

Volume 1: Specification for Highway Works (MCHW 1)

SUPERSEDED

4. ENQUIRIES

All technical enquiries or comments on this Advice Note should be sent in writing as appropriate to:

Chief Highway Engineer
The Highways Agency
123 Buckingham Palace Road
London
SW1W 9HA

G CLARKE
Chief Highway Engineer

Director of Trunk Roads: Infrastructure and
Professional Services
Transport Scotland
Trunk Road Network Management
8th Floor, Buchanan House
58 Port Dundas Road
Glasgow
G4 0HF

A C McLAUGHLIN
Director of Trunk Roads: Infrastructure
and Professional Services

Chief Highway Engineer
Transport Wales
Welsh Assembly Government
Cathays Parks
Cardiff
CF10 3NQ

M J A PARKER
Chief Highway Engineer
Transport Wales

Director of Engineering
The Department for Regional Development
Roads Service
Clarence Court
10-18 Adelaide Street
Belfast BT2 8GB

R J M CAIRNS
Director of Engineering

**ANNEX A
RETROREFLECTING ROAD STUDS
INCORPORATING REFLECTORS (BUT
NO LIGHT SOURCE) AS DESCRIBED IN
DIRECTION 57(1) OF TSRGD 2002**

Contents

| Product | Page |
|----------------------------|------|
| Retroreflecting Road Studs | A/1 |

NOTE

For further information and status of studs compliant with direction 57 of TSRGD 2002, please contact:

Traffic Signs
Department for Transport
Traffic Management Division
3/21 Great Minster House
76 Marsham Street
London
SW19 4DR

E-mail: Traffic.signs@dft.gsi.gov.uk

| Retroreflecting road studs incorporating reflectors (but no light source) as described in direction 57(1) of TSRGD 2002 | | | | |
|---|---------------------------------|------------------------------|--|----------------------------|
| Specification Clause Number | Product Description | Product Type in BS EN 1463-1 | Manufacturer | Product Name |
| 1213 | Non depressible, surface bonded | P3A | 3M United Kingdom PLC 3M Centre Cain Road Bracknell Berkshire RG12 8HT http://www.3m.com/uk/traffic | 3M™ Marker Series 290 |
| 1213 | Non depressible, surface bonded | P3A | Avery Dennison C/o Roadcraft Safety Products Ltd 25 Knightcott Banwell Avon BS29 6HS | 911 |
| 1213 | Non depressible, surface bonded | P3A | Avery Dennison C/o Roadcraft Safety Products Ltd 25 Knightcott Banwell Avon BS29 6HS | 948 |
| 1213 | Non depressible, surface bonded | P3A | Avery Dennison C/o Roadcraft Safety Products Ltd 25 Knightcott Banwell Avon BS29 6HS | 953 |
| 1213 | Non depressible, surface bonded | P3A | Eurimex International Hedgerows Steamcross Lower Claverham North Somerset BS49 4QD | Ray-O-Lite 2002 AR |
| 1213 | Non depressible, surface bonded | P3A | Eurimex International Hedgerows Steamcross Lower Claverham North Somerset BS49 4QD | Ray-O-Lite Round Shoulder |
| 1213 | Non depressible, surface bonded | P3A | Eurimex International Hedgerows Steamcross Lower Claverham North Somerset BS49 4QD | Ray-O-Lite Square Shoulder |

| Retroreflecting road studs incorporating reflectors (but no light source) as described in direction 57(1) of TSRGD 2002 | | | | |
|---|---------------------------------|------------------------------|---|---|
| Specification Clause Number | Product Description | Product Type in BS EN 1463-1 | Manufacturer | Product Name |
| 1213 | Non depressible, surface bonded | P3A | D Swarovski & Co Swareflex Division Swarovskistrasse A-6112 Wattens Austria | Swareflex Globmaker 100mm x 100mm |
| 1213 | Non depressible, surface bonded | P1A | Eurimex International Hedgerows Steamcross Lower Claverham North Somerset BS49 4QD | Euristud AL |
| 1213 | Non depressible, embedded | P3A | Armourstud Ltd Century House Century Road Retford Nottinghamshire DN22 7TD | Mk6A |
| 1213 | Non depressible, embedded | P1A | Armourstud Ltd Century House Century Road Retford Nottinghamshire DN22 7TD | 360 degree |
| 1213 | Non depressible, embedded | P3A | Avery Dennison C/o Roadcraft Safety Products Ltd 25 Knightcott Banwell Avon BS29 6HS | 101CR (944 insert) |
| 1213 | Non depressible, embedded | P3A | Eurimex International Hedgerows Steamcross Lower Claverham North Somerset BS49 4QD | Euristud LL |
| 1213 | Non-depressible, embedded | P3A | Roadcraft Safety Products Ltd Knightcott Industrial Estate Banwell Weston-super-Mare BS29 6JN | 201 |
| 1213 | Non-depressible, embedded | P3A | Roadcraft Safety Products Ltd Knightcott Industrial Estate Banwell Weston-super-Mare BS29 6JN | 301 |

| Retroreflecting road studs incorporating reflectors (but no light source) as described in direction 57(1) of TSRGD 2002 | | | | |
|---|----------------------|------------------------------|--|------------------------|
| Specification Clause Number | Product Description | Product Type in BS EN 1463-1 | Manufacturer | Product Name |
| 1213 | Depressible embedded | P1B | Lightdome Road Products Newgate Lane Industrial Estate Newgate Lane Fareham PO14 1JE | Mk8A |
| 1213 | Depressible embedded | P1B | Reflecting Road Studs Ltd Boothtown Halifax West Yorkshire HX3 6TR | Catseye (long type) |
| 1213 | Depressible embedded | P3B | 3M United Kingdom PLC 3M Centre Cain Road Bracknell Berkshire RG12 8HT http://www.3m.com/uk/traffic | 3M™ Marker Series 590B |

**ANNEX B
STATUTORY TYPE APPROVAL**

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| Product | Page |
|---|------|
| Road studs incorporating a steady or intermittent light source as described in direction 57(2) or (3) of TSRGD 2002 | B/1 |
| Traffic Signal and Control Equipment | B/2 |
| Variable Message Signs | B/3 |

NOTE

For further information and status of studs compliant with direction 58 of TSRGD 2002, please contact:

Traffic Signs
Department for Transport
Traffic Management Division
3/21 Great Minster House
76 Marsham Street
London
SW19 4DR

E-mail: Traffic.signs@dft.gsi.gov.uk

1. ROAD STUDS INCORPORATING A STEADY OR INTERMITTENT LIGHT SOURCE AS DESCRIBED IN DIRECTION 57(2) OR (3) OF TSRGD 2002

| Specification Clause Number | Product Description | Product Type in BS EN 1463-1 | Manufacturer | Product Name |
|-----------------------------|--|------------------------------|--|--|
| 1213 | Stud incorporating retroreflective material and a light source | N/A | Clearview Traffic Group Ltd Astucia Talisman Business Centre Talisman Road Bicester Oxfordshire OX26 6HR | SolarLite F Series Flush Inset Mounted Intelligent Road Stud |
| 1213 | Stud incorporating retroreflective material and a light source | N/A | Clearview Traffic Group Ltd Astucia Talisman Business Centre Talisman Road Bicester Oxfordshire OX26 6HR | SolarLite S Series Surface Mounted Intelligent Road Stud |

B/2

2. TRAFFIC SIGNAL AND CONTROL EQUIPMENT

| Specification Clause Number | Product Type | Product Name Description | Manufacturer's Name & Address | Limitations on Use | Comments | |
|-----------------------------|--------------|---|-------------------------------|--------------------|-------------------------|---------------------|
| | | | | | Manufacturer's Drawings | Fixing Instructions |
| 1217 | | <p>For information and status of type approved traffic control equipment refer to Highways Agency document MCS215. This is available from the Traffic Control Systems and (Road) Lighting Team at Temple Quay House, 2, The Square, Bristol BS1 6HA.</p> <p>Contact Richard Privett - Tel: 0117 987 8257 (GTN 372 8257)</p> | | | | |

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3. VARIABLE MESSAGE SIGNS

| Specification Clause Number | Product Type | Product Name Description | Manufacturer's Name & Address | Limitations on Use | Comments | |
|-----------------------------------|--------------|---|----------------------------------|--------------------|----------------------------|---------------------|
| | | | | | Manufacturer's Drawings | Fixing Instructions |
| #1201 | | For information and status of type approved traffic control equipment refer to Highways Agency document MCS215. This is available from the Traffic Control Systems and (Road) Lighting Team at Temple Quay House, 2, The Square, Bristol BS1 6HA. Contact Richard Privett - Tel: 0117 372 8257 (GTN 1371 8257) | | | | |

**ANNEX C
TYPE APPROVAL**

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| Corrugated Steel Buried Structures | C/1 |
| Temporary Road Markings | C/2 |
| Pavement Materials | C/5 |

SUPERSEDED

May 2005

CORRUGATED STEEL BURIED STRUCTURES

| Specification Series/Clause Number | Product Type | Product Name Description | Manufacturer's Name & Address | Limitations on Use | Date Passed | Other Information |
|------------------------------------|-------------------------|--|--|--|-------------|--------------------------|
| 2500 / 2501 | Bolted Segment Culverts | MP100 MP200 | Asset International Ltd Stephenson Street Newport Gwent NP9 0XH | Use as described in BD12 (DMRB 2.2.6) and BBA Roads and Bridges Certificate No. 91/59 | 25/7/91 | TA Cert No. BE 1/1/91 |
| | | T100 T200 | Tubosider UK Ltd 24 Kingsland Grange Woolston Warrington WA1 4RW | Use as described in BD12 (DMRB 2.2.6) | 22/10/91 | TA Cert No. BE 1/2/91 |
| | | ARC 67 ARC 100 ARC 152 | ARC SIPRA SRL c/o 1 Main Street Follifoot Harrogate HG3 1DU | Use as described in BD12 (DMRB 2.2.6) | 22/12/94 | TA Cert No. BE 1/5/94 |
| | | HAMCO Multi-plate MP200 HAMCO Multi-plate MP150 | HAMCO Dinslaken Bausystem GmbH 46535 Dinslaken Julius-Kalle-Strasse 55 Germany | Use as described in BD12 (DMRB 2.2.6) | 28/3/96 | TA Cert No. BE 1/6/96 |
| | | HELIBORE 68 HELIBORE 125 | Tubosider UK Ltd 24 Kingsland Grange Woolston Warrington WA1 4RW | Use as described in BD12 (DMRB 2.2.6) and BBA Roads and Bridges Certificate No. 91/62 | 9/6/92 | TA Cert No. BE 1/4/92 |

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C/1

C/2

TEMPORARY ROAD MARKINGS

| Specification Series/Clause Number | Product Type | Product Name Description | Manufacturer's Name & Address | Limitations on Use | Date Passed | Other Information |
|------------------------------------|-----------------------------|--------------------------|--|--|-----------------------|--|
| 1212 | Temporary Road Marking Tape | Scotchlane 5710 (White) | Traffic Control Products Group 3M (UK) Plc East Hampstead Road Bracknell Berkshire RG12 1JU Tel: 01344 866 465 | Temporary road markings at road works | 14 Oct 88 | Contact point at 3M: Mr Mike Mason |
| | | Scotchlane 6350 (White) | 3M (UK) Plc | Ditto | 14 Oct 88 | Tape is paper lined |
| | | Scotchlane A135 (Black) | 3M (UK) Plc | Ditto | 14 Oct 88 | Black tape for masking existing markings |
| | | Scotchane 645 (Black) | 3M (UK) Plc | Ditto | 15 Jan 95 | To be renamed Scotchlane 655 (Black) |
| | | Scotchlane 640 (White) | 3M (UK) Plc | Longitude markings Arrows and worded markings | 13 Jan 95 4 Dec 96 | To be renamed Scotchlane 650 (White) |
| | | Scotchlane 620 (White) | 3M (UK) Plc | | 4 Dec 96 | |
| | | Remline (White) | Manufactured to Associated Asphalt specification. Associated Asphalt Co Ltd PO Box 60 Henley on Thames Oxon RG9 4EZ Tel: 01491 575 921 | Temporary road markings at road works | 14 Oct 88 | Contact point at Associated Asphalt: Mr Harry M Jackson |
| | | Remline (Black) | Ditto | Ditto | 14 Oct 88 | Black tape for masking existing Markings |

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TEMPORARY ROAD MARKINGS

| Specification Series/Clause Number | Product Type | Product Name Description | Manufacturer's Name & Address | Limitations on Use | Date Passed | Other Information |
|------------------------------------|-----------------------------|------------------------------------|---|---------------------------------------|-------------|---|
| 1212 | Temporary Road Marking Tape | Brite-line 100 (White) & 100 Black | Brite-line Industries Ltd Tanglewood 5 Muntham Drive Barns Green Horsham W Sussex RH13 7PT | Temporary road markings at road works | 14 Oct 94 | Contact pt at Brite-Line: Mr Perkins |
| | | Vita light (White) | Vita Salford Salford Road Salford Lancashire M6 6WA Tel: 0161 736 5343 | Ditto | 14 Oct 94 | Contact pt: Mr Dykes Does not include arrows and worded markings |
| | | Snoline - Tempoline (White) | Snoline Spa (Italy) UK Supplier BTM (Safety Products) Ltd Fosseway Midsomer Norton Bath BA3 4AY Tel: 01761 414 824 | Ditto | 20 Oct 89 | Contact at BTM Mr Joe S Cole |
| | | Snoline - Tempoline (Black) | Snoline Spa (Italy) UK Supplier BTM (Safety Products) Ltd Fosseway Midsomer Norton Bath BA3 4AY Tel: 01761 414 824 | Ditto | 20 Oct 89 | Black tape for masking existing markings |
| | | Milli-Lux (White) | Swintex Ltd Derby Works Manchester Road Bury Lancashire BL9 9NX Tel: 0161 761 4933 | Ditto | 20 Oct 89 | Contact point at Swintex: Mr H V Houghton |

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TEMPORARY ROAD MARKINGS

| Specification Series/Clause Number | Product Type | Product Name Description | Manufacturer's Name & Address | Limitations on Use | Date Passed | Other Information |
|---|-----------------------------|---------------------------------|---|---------------------------------------|--------------------|---|
| 1212 | Temporary Road Marking Tape | Swintex Tape (White) | Swintex Ltd Derby Works Manchester Road Bury Lancashire BL9 9NX Tel: 0161 761 4933 | Temporary road markings at road works | 15 Sept 92 | Contact point at Swintex: Mr H V Houghton |
| | | Trelleborg SM (White) | Adbuf Ltd Gibbs Marsh Trading Estate Stalbridge Sturminster Newton Dorset ST10 2RX Tel: 01963 362 640 | Ditto | 12 Jan 96 | Contact point at Adbuf Mr C Walsh |
| | | Trelleborg SM (Black) | Adbuf Ltd Gibbs Marsh Trading Estate Stalbridge Sturminster Newton Dorset ST10 2RX Tel: 01963 362 640 | Ditto | 4 Oct 96 | Contact point at Adbuf Mr C Walsh |

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PAVEMENT MATERIALS

1. Concrete Pavement Repair Materials

(i) Techcrete Repair Materials:

- | There are two type of Techcrete repair materials available, Techcrete TBR for partial depth repairs and Techcrete R for thin bonded repairs. Copies of the specifications for installing these materials can be obtained from:

Roadtechs Europe Limited
The Airfield
Barondale Lane
Topcroft
Bungay
Suffolk
NR35 2BE

Tel. 01508 536360
Fax. 01508 536160
Email: info@ropadtech.net

However, before letting contracts to use this material, checks should be made that the specification is the same as that registered with the Highways Agency's Pavement Engineering Group.

**ANNEX D
REGISTRATION**

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|--|------|
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| Waterproofing Systems for Highway Bridge Decks | D/2 |
| Bridge Deck Expansion Joints | D/5 |
| Road Restraint Approval List | D/17 |

SUPERSEDED

PAINTS AND SIMILAR PROTECTIVE COATINGS

Since 1 May 2005 a new scheme for the Paints and Similar Protective Coatings via the Highways Authorities' Product Approval Scheme (HAPAS) has been operated by the British Board of Agrément (BBA). This scheme replaces the Highways Agency's own scheme. Details of the HAPAS scheme are available from the BBA. Contact details are as follows:

British Board of Agrément
PO Box No 195
Bucknalls Lane
Garston
Watford
Herts
WD25 9BA

Tel: 01923 670844

As from 1 May 2005 only those Paints and Similar Protective Coatings products which have British Board of Agrément HAPAS Roads and Bridges certification are acceptable for installation.

Copies of British Board of Agrément HAPAS Roads and Bridges Certificates for those Paints and Similar Protective Coatings products that have gained approval can be downloaded from the BBA website:
www.bbacerts.co.uk

WATERPROOFING SYSTEMS FOR HIGHWAY BRIDGE DECKS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | BBA Roads and Bridges Agrément Certificate No. | Date Certificate Issued |
|----------------------|---------------------------------|--|--|--|-------------------------|
| 2000 | Permitted Waterproofing Systems | Eliminator (One Coat) | Stirling Lloyd Polychem Ltd Union Bank King Street Knutsford Cheshire WA16 6EF | 99/R111 | 17/5/99 |
| | | Eliminator (Two Coat) | Stirling Lloyd Polychem Ltd Union Bank King Street Knutsford Cheshire WA16 6EF | 99/R112 | 17/5/99 |
| | | PmB | Bayer plc Polyurethane Business Group Bayer House Strawberry Hill Newbury Berkshire RG14 1JA | 98/R101 | 13/8/98 |
| | | Bridgeguard Bridgedeck Waterproofing System | BDW (Services) Ltd Unit 1b Wares Farm Redwall Lane Linton Maidstone Kent ME17 4B | 01/R126 | 14/12/01 |

WATERPROOFING SYSTEMS FOR HIGHWAY BRIDGE DECKS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | BBA Roads and Bridges Agrément Certificate No. | Date Certificate Issued |
|----------------------|--------------|---------------------------|---|--|-------------------------|
| | | Britdex MDP (One Coat) | Universal Sealants (UK) Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne and Wear NE38 8QA | 02/R129 | 13/05/02 |
| | | Britdex MDP (Two Coat) | Universal Sealants (UK) Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne and Wear NE38 8QA | 02/R128 | 13/05/02 |

PARAPET ANCHORAGES

Since 1 April 1998 a new scheme for the parapet anchorages via the 'Highways Authorities Product Approval Scheme' (HAPAS) has been in operation by the British Board of Agrément (BBA). Details of the scheme are available from the BBA. Contact details are as follows:

British Board of Agrément
PO Box No 195
Bucknalls Lane
Garston
Watford
Herts
WD25 9BA
Tel: 01923 670844

As from 1 April 1999 only those products which have British Board of Agrément HAPAS Roads and Bridges certification are acceptable for installation.

SUPERSEDED

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|--------------|--|---|--------------------|---------------------------------------|
| 2300 | Buried Joint | Nova BJ (formerly Avon BJ) TU20, TU30 | ASL Contracts Ltd 4 Regents Court Southway Walworth Industrial Estate Andover Hampshire SP10 5NX | | 1992 Jun 97 |
| | | Bayer/Pitchmastic Buried Joints BP1 BP2 BP3 BP4 | Manufacturer: Bayer plc Installer: Pitchmastic plc Royds Works Attercliffe Road Sheffield S4 7WZ | | Sept 96 Dec 96 Dec 96 Dec 96 |
| | | Expoband Plus Deck Flashing DF6 | Fosroc Expandite Ltd Coleshill Road Tamworth Staffordshire B78 3TL | | 1992 |
| | | Radflex 125 (Deck Flashing) | Radflex Contract Services Ltd Unit 35 Wilks Avenue Dartford Trade Park Kent DA1 1JS | | 1992 |
| | | Serviseal Type B (Deck Flashing) | W. R. Grace Ltd Servicised Expansion Jointing & Waterproofing Ajax Avenue Slough Berkshire SL1 4BH | | 1992 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|--------------|---|---|--------------------|--------------------------------------|
| 2300 | Buried Joint | Soba Greyline 06, 20, 20G & 40G Soba Greenline 06, 20, 20G & 40G | Clarke Products 384 Cheadle Road Cheddleton Leek Staffordshire ST13 7BW | | Jun 97 Jun 97 |
| | | Uniflex Joint Type A, Type B Type C | Universal Sealants (UK) Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne and Wear NE38 8QA | | Mar 95 |
| | | Sentinel B5 Sentinel B10 Sentinel B15 Sentinel B20 | Stirling Lloyd Polychem Ltd Union Bank King Street Knutsford Cheshire WA16 6EF | | Oct 97 Nov 96 Oct 97 Oct 97 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|----------------------|--------------------------|--|---|-----------------------|
| 2300 | Asphaltic Plug Joint | Feba | Universal Sealants (UK)Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne & Wear NE38 8QA | | Sep 99 |
| | | Flexijoint | Highway Maintenance Specialists Ltd Bruntingthorpe Industrial Estate Lutterworth Leicestershire LE17 5QZ | | Dec 98 |
| | | Hotfalt | ASL Contracts Ltd 4 Regents Court Southway Walworth Industrial Estate Andover Hampshire SP10 5NX | | 1992 |
| | | Permatrack | Permanite Asphalt Products Division Technical Services Cawdor Quarry Matlock Derbyshire DE4 2JH | Suitable for design movements of +/- 10 mm (20 mm total) only | Aug 02 |
| | | PJ100 | Roadtechs Ltd Barondale Lane Topcroft Norwich NR35 3BE | | Jan 96 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|------------------------------------|---|---|--------------------|------------------------------|
| 2300 | Asphaltic Plug Joint | RAB Joint | RAB Associates Longstone Lane Ashford Bakewell Derbyshire DE45 1NH | | Jun 93 |
| | | Thormajoint BJ200 Green BJ200 Blue BJ200 Super BJ200 ST Zebrajoint | Prismo Products Ltd 5 Drumhead Road Chorley North Industrial Park Chorley Lancashire PR6 7BX | | 1992 April 02 1992 |
| | | Viajoint | Freyssinet Ltd 6 Hollinswood Court Stafford Park 1 Telford Shropshire TF3 3DE | | 1992 |
| | In-situ nosing or transition strip | Britflex (Polyureide) | Universal Sealants (UK) Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne and Wear NE38 8QA | | 1992 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|------------------------------------|---|--|-------------------------------------|-----------------------|
| 2300 | In-situ nosing or transition strip | CN2 (Cementitious) | RAB Associates Longstone Lane Ashford Bakewell Derbyshire DE45 1NH | | 1992 |
| | | Strelax Polyurethane Mortar Wabocrete FMV Polyureide Mortar | Degussa Construction Chemicals (UK) Albany House Swinton Hall Road Swinton Manchester M27 4DT Distributor: AWA Systems 4 Regents Court Southway Walworth Industrial Estate Andover SP10 5NX | Use Wabocrete FMV only with Wabo ER | 1992 Feb 96 |
| | | Sentinel Nosing Mortar PE Sentinel Nosing Mortar FC | Stirling Lloyd Polychem Ltd Union Bank King Street Knutsford Cheshire WA16 6EF | | Dec 04 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|------------------|--|--|--|----------------------------|
| 2300 | Transition Strip | PML NS/FG (Epoxy Mortar) | Acalor Protective Measures Ltd Airmanship Hall Towcester Northants NN12 8TL | Transition strip for use with Serviflex only | 1992 |
| | | Ronajoint (Cementitious) Ronaset (Cementitious) | Ronacrete Ltd Ronac House Flex Meadow Merring Way Harlow Essex CM19 5TD | Transition Strip Only | 1992 |
| | Nosing Joint | Masterflex J Seals W25, W30, W40, W50 and FW25, FW30, FW40, FW50 W65, FW65 | Degussa Construction Chemicals (UK) Albany House Swinton Hall Road Swinton Manchester M27 4DT Distributor: AWA Systems 4 Regents Court Southway Walworth Industrial Estate Andover SP10 5NX | | Sept 96 Dec 01 |
| | | NJ 1 NJ 2 NJ 4 | Universal Sealants (UK) Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne and Wear NE38 8QA | | Dec 98 Feb 96 Feb 96 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|--------------|---|---|--------------------------|-----------------------|
| 2300 | Nosing Joint | Advanced Nosing Joint System | ASL Contracts Ltd 4 Regents Court Southway Walworth Industrial Estate Andover Hampshire SP10 5NX | | Mar 03 |
| | | Sentinel NJ 10 Sentinel NJ 12 Sentinel NJ 20 Sentinel NJ 40 | Stirling Lloyd Polychem Ltd Union Bank King Street Knutsford Cheshire WA16 6EF | Using Sentinel Mortar FC | Dec 04 |
| | Elastomeric | "RAN" (Single Element) 30,50S "GPE" (Single Element) 80,120,160,200,250 "SIN" (Single Element) 35,50 "RAN-P" (Single and Multi-Element) 300,400,500,600,700,800 | FIP Industrial (UK) Ltd Old Canteen Lincoln House The Paddocks 347 Cherry Hinton Road Cambridge CB1 4DH | | Jun 94 |
| | | Freyssinet "M" Joint "N" Joint Multiflex T30, T60, T80, T140, T160, T230, T330, S50, S80, S100, S160, S200, S250, S350 | Freyssinet Ltd 6 Hollinswood Court Stafford Park 1 Telford Shropshire TF3 3DE | | 1992 May 2006 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|--------------|--|---|--------------------|-----------------------|
| 2300 | Elastomeric | Euroflex M20,M45, M60, M80, M100, M140, M200, M260, M330 | ASL Contracts Ltd 4 Regents Court Southway Walworth Industrial Estate Andover Hampshire SP10 5NX | | |
| | | Serviflex 50,75,100,165,230,330 | W R Grace Ltd Servicised Expansion Jointing & Waterproofing Ajax Avenue Slough Berkshire SL1 4BH | | 1992 |
| | | Transflex 150, 200, 250, 300, 400, 650, 900, 1300 | Universal Sealants (UK) Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne and Wear NE38 8QA | | 1992 |
| | | Waboflex SR2A, SR2.5A, SR4A, SR6.5A, SR9, SR13 | Degussa Construction Chemicals (UK) Albany House Swinton Hall Road Swinton Manchester Distributor: AWA Systems 4 Regents Court Southway Walworth Industrial Estate Andover SP10 5NX | | 1992 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|------------------------------|--|---|--------------------|--|
| 2300 | Elastomeric in metal runners | BEJ 3 BEJ 5 BEJ 8 BEJ 10 BEJ 13 BEJ 15 (All Single Element) Techstar Modular Joint System LG2 to LG12 LR2 to LR12 LX2 to LX12 (All Multi-Element) | Universal Sealants (UK) Ltd Kingston House 3 Walton Road Pattinson North District 15 Washington Tyne and Wear NE38 8QA | | 1992 1992 1992 1992 Sep 99 1992 Aug 02 |
| | | BETA 30 (Single Element) BETA 50 (Single Element) BETA 65 (Single Element) BETA 80 (Single Element) BETA 100 (Single Element) BETA130 (Single Element) Advanced EMR Joint 30, 50, 65, 80, 100, 130, 150 (All Single Element) | ASL Contracts Ltd 4 Regents Court Southway Walworth Industrial Estate Andover Hampshire SP10 5NX | | March 03 March 03 Jan 00 Jan 00 Jan 00 Jan 00 Jan 01 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|------------------------------|---|--|--------------------|-----------------------|
| 2300 | Elastomeric in metal runners | Cipec WOSd (Single Element) | Freyssinet Ltd 6 Hollinswood Court | | 1992 |
| | | Cipec WR (Single Element) | Stafford Park 1 Telford | | 1992 |
| | | Freyssinet 'P' Joint (Single Element) | Shropshire TF3 3DE | | 1992 |
| | | JEP 3 and JEP 5 | | | May 04 |
| | | JEP 8 (Single Element) | | | Mar 06 |
| | | Maurer D80B to D1040B (Single and Multi-Element) | Maurer (UK) Ltd Crendon Industrial Estate | | 1992 |
| | | Maurer D80T to D1040T (Single and Multi-Element) | Thame Road Long Crendon | | Jan 95 |
| | | Maurer DS 160B to DS1200B (Multi-Element) | Aylesbury Buckinghamshire | | Jan 95 |
| | | Maurer DS 160T to DS1200T (Multi-Element) | HP18 9EJ | | Dec 96 |
| | | Maurer Elastoblock (Single Element) | | | 1992 |
| | | Maurer Betoflex (Single Element) | | | Nov 92 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|------------------------------|---|---|--------------------|---|
| 2300 | Elastomeric in metal runners | WABO modular joint system E80 to E 1200 (Single and Multi-Element) Wabo ER E32 E64 E101 E130 SE300 SE400 (All Single Element) | Degussa Construction Chemicals (UK) Albany House Swinton Hall Road Swinton Manchester M27 4DT Distributor: AWA Systems 4 Regents Court Southway Walworth Industrial Estate Andover SP10 5NX | | July 1995 Feb 1996 Feb 1996 Feb 1996 Dec 01 Jan 00 Jan 00 |
| | | WSF 80 (Single-Element) WSG 160 to WSG 1040 (Multi-Element) T Mat (Single Element) T10, T30, T40, T80 | Ekspan Ltd 410 Brightside Lane Sheffield S9 2SP | | 1992 March 03 |
| | | 3W (Single & multi-element) | ASL Contracts Ltd 4 Regents Court Southway Walworth Industrial Estate Andover Hampshire SP10 5NX | | 1992 |

BRIDGE DECK EXPANSION JOINTS

| Specification Series | Product Type | Product Name Description | Manufacturer's Name and Address | Limitations on Use | Date Registered by HA |
|----------------------|------------------------------|---|---|--------------------|-----------------------|
| 2300 | Elastomeric in metal runners | Sentinel EMR 35 Sentinel EMR 50 Sentinel EMR 80 | Stirling Lloyd Polychem Ltd Union Bank King Street Knutsford Cheshire WA16 6EF | | Dec 04 |
| | Comb or Tooth Joint | Cipec Wd Cipec Wp | Freyssinet Ltd 6 Hollinswood Court Stafford Park 1 Telford Shropshire TF3 3DE | | 1992 |

ROAD RESTRAINT APPROVAL LIST

For the latest list of road restraints systems approved for use on the Highways Agency's road network, please visit the following website:

<http://www.highways.gov.uk/business/8720.aspx>

SUPERSEDED