

Master Builders Solutions UK Ltd

Swinton Hall Road
Swinton
Manchester
M27 4EU

Tel: +44 (0) 161 727 6300

e-mail: christopher.gallivan@mbcc-group.com

Website: www.master-builders-solutions.com/en-gb



Agrément Certificate

21/5973

Product Sheet 1

MASTER BUILDERS CAR PARK DECK SYSTEMS

MASTERSEAL TRAFFIC CAR PARK DECK WATERPROOFING AND WEARING COURSE SYSTEMS

This Agrément Certificate Product Sheet⁽¹⁾ relates to MasterSeal⁽²⁾ Traffic Car Park Deck Waterproofing and Wearing Course Systems, a range of liquid-applied systems for use as waterproofing and/or wearing surfaces on trafficked concrete and asphalt decks.

(1) Hereinafter referred to as 'Certificate'.

(2) MasterSeal is a registered trademark.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Weathertightness — the systems will resist the passage of moisture into a structure (see section 6).

Properties in relation to fire — the systems applied to a suitable substructure can enable a roof to be unrestricted under the national Building Regulations (see section 7).

Adhesion — the systems will resist the effects of any likely wind suction acting on the roof deck (see section 8).

Resistance to mechanical damage — the systems will accept the traffic loads and effects of thermal and other minor movement likely to occur in practice (see section 9).

Durability — under normal service conditions the systems will have a service life of at least 15 years (see section 11).

The BBA has awarded this Certificate to the company named above for the systems described herein. These systems has been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 17 November 2021

Hardy Giesler
Chief Executive Officer

The BBA is a UKAS accredited certification body – Number 113.

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk
Readers MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

British Board of Agrément

Bucknalls Lane
Watford
Herts WD25 9BA

tel: 01923 665300
clientservices@bbacerts.co.uk
www.bbacerts.co.uk

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Regulations

In the opinion of the BBA, MasterSeal Traffic Car Park Deck Waterproofing and Wearing Course Systems, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



The Building Regulations 2010 (England and Wales) (as amended)

Requirement: B4(2)

External fire spread

Comment:

On suitable substructures the use of the systems can enable a roof deck to be unrestricted under this Requirement. See section 7 of this Certificate.

Requirement: C2(b)

Resistance to moisture

Comment:

The systems will enable a structure to satisfy this Requirement. See section 6 of this Certificate.

Regulation: 7(1)

Materials and workmanship

Comment:

The systems comprise acceptable materials. See section 11 and the *Installation* part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation: 8(1)(2)

Durability, workmanship and fitness of materials

Comment:

The systems comprise acceptable materials and satisfy the requirements of this Regulation. See sections 10 and 11 and the *Installation* part of this Certificate.

Regulation: 9

Building standards applicable to construction

Standard:

2.8

Spread from neighbouring buildings

Comment:

The systems, when applied to a suitable substructure, can be regarded as having low vulnerability and so are unrestricted under clause 2.8.1⁽¹⁾⁽²⁾ of this Standard. See section 7 of this Certificate.

Standard:

3.10

Precipitation

Comment:

The systems will enable a structure to satisfy the requirements of this Standard, with reference to clauses 3.10.1⁽¹⁾⁽²⁾ and 3.10.7⁽¹⁾⁽²⁾. See section 6 of this Certificate.

Standard:

7.1(a)

Statement of sustainability

Comment:

The systems can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.

Regulation: 12

Building standards applicable to conversions

Comment:

Comments in relation to the systems under Regulation 9, Standards 1 to 6 also apply to this Regulation, with reference to clause 0.12.1⁽¹⁾⁽²⁾ and Schedule 6⁽¹⁾⁽²⁾.

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation: 23(a)(b)(i)

Fitness of materials and workmanship

Comment:

The systems comprise acceptable materials and satisfy the requirements of this Regulation. See section 11 and the *installation* part of this Certificate.

| | | |
|--------------------|--------------|--|
| Regulation: | 28(b) | Resistance to moisture and weather |
| Comment: | | The systems will enable a structure to satisfy the requirements of this Regulation. See section 6 of this Certificate. |
| Regulation: | 36(b) | External fire spread |
| Comment: | | On suitable substructures the use of the systems can enable a roof deck to be unrestricted under the requirements of this Regulation. See section 7 of this Certificate. |

Construction (Design and Management) Regulations 2015 Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See sections: 3 *Delivery and site handling* (3.1 to 3.3) of this Certificate.

Technical Specification

1 Description

1.1 MasterSeal Traffic Car Park Deck Waterproofing and Wearing Course Systems comprise a range of components including liquid-applied primers, elastomeric membranes, wearing courses and topcoats.

1.2 There are three types of system:

- MasterSeal Traffic 2203 and 2205 — for use on exposed decks where waterproofing and crack bridging properties are required. The systems are based on fast cure, spray-applied waterproofing membranes, MasterSeal M 800 or MasterSeal 811
- MasterSeal Traffic 2266 — for use on exposed decks where waterproofing and crack bridging properties are required. The system is based on a hand-applied waterproofing membrane, MasterSeal M 869
- MasterSeal Traffic 2257, 2259 and 2260 — for use on intermediate non-exposed decks where waterproofing and crack-bridging properties are not required. These systems do not include a waterproofing membrane.

1.3 The components used within the systems are:

Primers

- MasterTop P 622 — a two-part, low viscosity non-solvented, epoxy primer for use on concrete and cementitious screed substrates
- MasterTop P 660 — a two-part, non-solvented polyurethane primer for use on concrete, cementitious screed and asphalt substrates
- MasterSeal P 691 — a one-part, solvent containing polyurethane adhesion promoter for use when the maximum overcoat times have been exceeded

Waterproofing membranes

- MasterSeal M 800 — a fast curing, two-part, non-solvented, spray-applied, polyurethane waterproofing membrane
- MasterSeal M 811 — a fast curing, two-part, non-solvented, spray-applied, polyurethane waterproofing membrane
- MasterSeal M 869 — a two-part, non-solvented, hand-applied, polyurethane waterproofing membrane

Wear Coats

- MasterSeal M 880 — a fast curing, two-part, non-solvented polyurethane wear coat

Top coats

- MasterSeal TC 258 — a one-part, solvent containing UV resistant, polyurethane topcoat
- MasterSeal TC 268 — a two-part, non-solvented UV resistant, polyurethane topcoat

- MasterSeal TC 681 — a two-part, VOC free, rapid curing, UV-resistant, polyaspartic topcoat
- MasterSeal TC 374 — a two-part, non-solvented, epoxy topcoat.

Quartz

- MasterTop Filler F5 — graded (0.3 mm — 0.7 mm) dried quartz sand, for broadcasting into primer coats
- Dried quartz — graded (0.7 mm — 1.2 mm) dried quartz sand, for broadcasting into the wet wear coat to improve wear resistance and slip resistance.

1.4 Details of the components used in each system are given in Table 1.

Table 1 MasterSeal Traffic systems — components

| Component | MasterSeal Traffic Systems | | | | | |
|---------------------------|----------------------------|------------------|------------------|------|------------------|------------------|
| | 2203 | 2205 | 2266 | 2257 | 2259 | 2260 |
| MasterTop P 622 | | X ⁽¹⁾ | X ⁽¹⁾ | | X ⁽¹⁾ | X ⁽¹⁾ |
| MasterTop P 660 | X | X ⁽¹⁾ | X ⁽¹⁾ | X | X ⁽¹⁾ | X ⁽¹⁾ |
| MasterSeal M 800 or M 811 | X | X | | | | |
| MasterSeal M 869 | | | X | | | |
| MasterSeal M 880 | X | X | X | | | |
| MasterSeal TC 258 | | X ⁽²⁾ | X ⁽²⁾ | | X | |
| MasterSeal TC 268 | | X ⁽²⁾ | X ⁽²⁾ | | X | |
| MasterSeal TC 681 | X | X ⁽²⁾ | X ⁽²⁾ | X | | |
| MasterSeal TC 374 | | | | | | X |

(1) Optional primers — MasterTop P 660 used on asphalt substrates, and MasterTop P 622 used on concrete substrates.

(2) Optional topcoats.

1.5 The topcoats are available in a range of colours. The colour stability of these has not been assessed by the BBA and is outside the scope of this Certificate.

1.6 Other products⁽¹⁾ that can be used with the system but which are outside the scope of this Certificate include:

- repair mortars
- self-levelling cementitious screed used to provide a level surface prior to the application of the systems
- anti-dusting treatment for concrete and masonry surfaces.
- proprietary scratch coat / specialist primers.

(1) Details of such suitable products/specifications may be obtained from the Certificate holder.

2 Manufacture

2.1 The system components are manufactured using batch processing techniques.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

2.3 The management systems of the manufacturer have been assessed and registered as meeting the requirements of ISO 9001 : 2015 by Bureau Veritas Certification (Switzerland) AG (Certificate CH11022816 and TÜV SUD (Certificate 12 100 60146/099 TMS).

3 Delivery and site handling

3.1 The liquid components of the systems are delivered to site in sealed containers labelled with the manufacturer's name, product description, hazard warning and risk labels, batch code numbers and date of expiry. They are available in the pack weights given in Table 2.

Table 2 Pack Weights

| Component | Weight ⁽¹⁾ (kg) |
|-----------------------------|----------------------------|
| MasterTop P 622 | 17.2 |
| MasterTop P 660 | 10 |
| MasterSeal P 691 | 19.5 |
| MasterSeal M 800 (Part A/B) | 210/220 |
| MasterSeal M 811 (Part A/B) | 210/220 |
| MasterSeal M 869 | 30 |
| MasterSeal M 880 | 24 |
| MasterSeal TC 258 | 24 |
| MasterSeal TC 268 | 28 |
| MasterSeal TC 681 | 28 |
| MasterSeal TC 374 | 30 |

(1) Composite pack weights unless otherwise noted.

3.2 All containers should be stored under cover in a cool, dry and ventilated place away from other chemicals and sources of ignition, and protected from frost. Products stored in unopened containers in accordance with the manufacturer's instructions will have a shelf-life as detailed on the product label.

3.3 The Certificate holder has taken the responsibility of classifying and labelling the system components under the *CLP Regulation (EC) No 1272 / 2008 on the classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s)

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on MasterSeal Traffic Car Park Deck Waterproofing and Wearing Course Systems.

Design Considerations

4 Use

4.1 MasterSeal Traffic Car Park Deck Waterproofing and Wearing Course Systems are satisfactory for use as combined waterproofing and/or wearing surfaces on concrete car park decks and walkways with a concrete or mastic asphalt surfacing.

4.2 Decks must be designed in accordance with BS EN 1992-1-1 : 2004 and its UK National Annex.

4.3 The systems will resist short-term contact with minor spillages of diesel, oils, hydraulic fluid, and solutions of de-icing salts and will be unaffected by contact with an alkaline substrate. Prolonged exposure of the membranes to petrol, hydraulic fluids and exposure to battery acid can result in softening and/or degradation and must be avoided. Large spillages must be removed as soon as possible, and the membrane inspected for damage and, where applicable, waterproofing integrity.

5 Practicability of installation

The systems are only installed by installers who have been trained and approved by the Certificate holder.

6 Weathertightness



The appropriate systems (see section 1.2) will adequately resist the passage of moisture to the inside of a structure and can accommodate, without leakage, the maximum movement due to cracking permitted by the UK National Annex to BS EN 1992-1-1 : 2004, in conjunction with BS EN 1992-1-1 : 2004, and so enable a structure to satisfy the requirements of the national Building Regulations.

7 Properties in relation to fire



7.1 MasterSeal Traffic System 2203 comprising the following build-up is classified in accordance with EN 13501-5 : 2005 as $B_{ROOF}(t4)^{(1)}$ and will enable a roof deck to be unrestricted with respect to proximity to a boundary by the documents supporting the national Building Regulations.

- Polymer modified concrete 30-40 mm thick,
- MasterTop P660 applied at $0.4 \text{ kg}\cdot\text{m}^{-2}$ and broadcast with sand at $2 \text{ kg}\cdot\text{m}^{-2}$
- MasterSeal M800⁽²⁾ applied at $2.0 \text{ kg}\cdot\text{m}^{-2}$,
- MasterSeal M880⁽³⁾ applied at $0.6 \text{ kg}\cdot\text{m}^{-2}$ and broadcast with sand at $2 \text{ kg}\cdot\text{m}^{-2}$
- MasterSeal TC681⁽⁴⁾ applied at $0.5 \text{ kg}\cdot\text{m}^{-2}$.

(1) Exova Warringtonfire test report no WF 318725 and classification report no 322888 available from the Certificate holder.

(2) Previously known as MasterSeal M810.

(3) Previously known as MasterSeal WC880.

(4) Previously known as MasterSeal TC481.

7.2 MasterSeal Traffic System 2205 comprising the following build-up is classified as $B_{ROOF}(t4)$ in accordance with EN 13501-5 : 2005 and will also enable a roof deck to be unrestricted with respect to proximity to a boundary by the documents supporting the national Building Regulations.

- Polymer modified concrete 30-40 mm thick
- MasterTop P622 applied at $0.4 \text{ kg}\cdot\text{m}^{-2}$ and broadcast with sand at $2 \text{ kg}\cdot\text{m}^{-2}$
- MasterSeal M800⁽¹⁾ applied at $2.0 \text{ kg}\cdot\text{m}^{-2}$,
- MasterSeal M880⁽²⁾ applied at $0.6 \text{ kg}\cdot\text{m}^{-2}$ and broadcast with sand at $2 \text{ kg}\cdot\text{m}^{-2}$
- MasterSeal TC681⁽³⁾ applied at $0.5 \text{ kg}\cdot\text{m}^{-2}$.

(1) Previously known as MasterSeal M810.

(2) Previously known as MasterSeal WC880.

(3) Previously known as MasterSeal TC481.

7.3 The designation of other specifications should be confirmed by reference to the requirements of the documents supporting the national Building Regulations.

8 Adhesion

The adhesion of the systems to concrete and asphalt substrates is sufficient to resist the effects of any wind suction, elevated temperature, thermal shock or structural movement likely to occur in practice. Acceptable adhesion to other substrates must be confirmed by test.

9 Resistance to mechanical damage

9.1 The systems can accept, without damage, the foot and vehicular traffic likely to occur in practice. Where continuous heavy point loading is envisaged additional protection should be considered. The Certificate holder should be consulted for advice.

9.2 Where the systems have to bridge construction or movement joints the Certificate holder must be consulted for approved detail specifications and the use of proprietary joint solutions.

10 Maintenance



10.1 Installations of the systems should be the subject of planned maintenance programmes to ensure that drainage outlets are kept clear, accumulated debris (e.g. loose grit) is removed and to check for contamination and damage to the systems. Additional guidance on the maintenance of car park structures generally can be found in the publication *Recommendations for the inspection, maintenance and management of car park structures*, published by the Institute of Civil Engineers.

10.2 In particular, the integrity of the topcoat must be regularly checked, and in areas where it has been damaged or worn it must be reapplied in accordance with the Certificate holder's instructions.

10.3 Cleaning of the systems may be carried out using warm water (below 50°C) and a mild detergent. Strong alkali, acid or bleach must not be used. The Certificate holder must be consulted for approved cleaning products and equipment.

10.4 Where de-icing is required the Certificate holder must be consulted for approved products.

10.5 Damaged sections of the systems should be repaired as soon as practicable in accordance with section 14.

11 Durability



11.1 The systems will retain acceptable physical properties and, when subject to a suitable maintenance and repair programme, will have a service life of at least 15 years.

11.2 On decks subject to UV exposure colour change may occur. The Certificate holder should be consulted for details on specific colours.

Installation

12 General

12.1 MasterSeal Traffic Car Park Deck Waterproofing and Wearing Course Systems must only be applied to substrates that are surface dry and free from ice, frost and other contamination.

12.2 The temperature of the substrate must exceed the dew point by more than 3°C during application and curing. If the dew-point is reached and moisture forms on the surface of the substrate, it is important that it is allowed to dry before the application process proceeds. Work must not be undertaken if the ambient temperature or the temperature of the substrate falls outside the range of 5°C and 35°C, or the relative humidity is greater than 85%. The recommended substrate temperature for application is between 15°C and 25°C.

12.3 Concrete surfaces must be at least 28 days old, in sound condition and free from contamination that could impair the adhesion. The concrete must have a tensile strength greater than 1.5 MPa and a moisture content not greater than 4%.

12.4 Concrete surfaces are mechanically prepared to remove laitance and to provide a suitable surface profile to accept the system. Suitable methods include captive shot blasting, scarification and diamond grinding for edge work.

12.5 Hollows and indents in the concrete surface are repaired using a suitable repair mortar. The Certificate holder must be consulted for approved products.

12.6 Concrete surfaces must be primed with either MasterTop P 622 or MasterTop P 660.

12.7 Mastic asphalt surfaces must be shot or grit blasted to expose at least 60% aggregate. The asphalt surface must be free from blisters and cracks and must be well bonded, ensuring that water is not trapped beneath it. If repairs are required the Certificate holder must be consulted for approved repair procedures and materials.

12.8 Mastic asphalt surfaces must be primed with MasterTop P 660.

12.9 Small cracks, termination grooves, horizontal/vertical junctions etc should be treated with a suitable debonding tape, ensuring that wrinkles or creases that would create a weakness in the systems are not formed.

12.10 Where movement is expected, e.g. expansion joints and dynamic cracks, the Certificate holder must be consulted for suitable detailing specifications.

12.11 Where applicable, all components must be mixed and used in accordance with the Certificate holder's technical data sheets. The Certificate holder should be consulted for cure rates and overcoating times under specific installation conditions.

12.12 Checks should be carried out on site by the installer and/or Certificate holder, and include:

- a visit to the site by a technically qualified person before installation to determine the suitability of the substrates, detailing requirements, required substrate repairs and system requirements
- continuous monitoring during installation of environmental conditions, uniformity of coverage and time sequence of the various layers composing the system (i.e. each component layer should be inspected to ensure that adequate curing has been achieved prior to the next layer being applied)
- a final inspection after installation to ensure that the system complies with the specification. Checks on film thickness, consistency of finish and slip resistance may be carried out if required.

12.13 Records of inspections must be retained for reference.

12.14 All components must be mixed and applied in accordance with the manufacturer's data sheets and section 13 of this Certificate.

12.15 The systems must be allowed to fully cure before being opened to traffic. The Certificate holder must be consulted for cure times, which will depend on the temperature and relative humidity.

13 Procedure

Primer

13.1 MasterTop P 622 or MasterTop P 660 are applied to the prepared surface at a coverage rate of 0.3 to 0.5 kg·m⁻².

13.2 On particularly porous concrete a second coat of primer at a coverage rate of 0.2 to 0.4 kg·m⁻² may be required to completely seal the surface.

13.3 MasterTop Filler F5 is then broadcast into the wet primer at a coverage rate of approximately 1 kg·m⁻², and the primer allowed to cure.

13.4 Excess loose filler must be removed using a stiff brush and vacuum.

Waterproofing membrane (MasterSeal Traffic systems 2203, 2205 and 2266)

13.5 MasterSeal M 800 or M 811 (systems 2203 and 2205) is applied over the cured primer using specialist spray equipment at a minimum application rate of 1.5 kg·m⁻² to achieve a minimum thickness of 1.5 mm.

13.6 MasterSeal M 869 (system 2266) is applied using a notched squeegee or rake. A spike roller is used to remove trapped air.

13.7 The cured membrane must be inspected for even coverage and pin holes and additional coat(s) applied if necessary, to ensure the waterproofing integrity of the membrane prior to applying the wear coat.

Wear coat (MasterSeal Traffic systems 2203, 2205 and 2266)

13.8 MasterSeal M 880 is applied to the cured membrane by notched squeegee and finished by rolling to achieve a minimum coverage rate of 0.6 kg·m⁻².

13.9 Dried quartz aggregate, 0.7 mm to 1.2 mm, is then broadcast into the wet coating to excess.

13.10 When the coating is cured, excess aggregate is removed using a stiff brush and vacuum.

Topcoat

13.11 One of the topcoats, MasterSeal TC 258, MasterSeal TC 268, MasterSeal TC 681 or MasterSeal TC 374, is applied at a minimum coverage rate of $0.5 \text{ kg}\cdot\text{m}^{-2}$, using a squeegee and back-rolling.

13.12 Application is crosswise and finished off with a separate wide roller, taking care to avoid dry edges and late rolling that could mark the finish.

14 Repair

Damaged areas must be repaired by an approved contractor as soon as it is practicable to reinstate the system to its original specification. The Certificate holder must be consulted for advice.

Technical Investigations

15 Tests

Tests were conducted on samples of the MasterSeal Traffic Car Park Deck Waterproofing and Wearing Course Systems to establish:

- water vapour permeability
- water absorption
- tensile strength and elongation
- resistance to water pressure
- resistance to fatigue
- crack bridging capability
- resistance to dynamic impact
- resistance to static indentation
- resistance to abrasion
- tensile bond strength
- resistance to chloride ion penetration
- effect of heat ageing
- effect of exposure to UV-A radiation
- effect of water
- infra-red characterisation.

16 Investigations

16.1 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

16.2 Tests were carried out on MasterSeal Traffic Car Park Deck Waterproofing and Wearing Course Systems 2203, 2205, 2257, 2259 and 2260, by an accredited independent test laboratory, in accordance with EN 1504-2 : 2004, to establish:

- abrasion resistance
- capillary water absorption and water permeability
- impact strength
- tensile bond strength
- effect of thermal shock and de-icing salt on tensile bond
- skid/slip resistance
- crack-bridging
- roof fire exposure.

16.3 Visits were made to existing installations in the UK and a survey of users and specifiers was carried out to assess the systems' performance in service.

Bibliography

BS EN 1992-1-1 : 2004 + A1 : 2014 *Eurocode 2 : Design of concrete structures — General rules and rules for buildings*
NA to BS EN 1992-1-1 : 2004 + A1 : 2014 UK National Annex to *Eurocode 2 : Design of concrete structures — General rules and rules for buildings*

BS EN ISO 9001 : 2008 *Quality management systems — Requirements*

EN 1504-2 : 2004 *Products and systems for the protection and repair of concrete structures — Definitions, requirements, quality control and evaluation of conformity — Surface protection systems for concrete*

EN 13501-5 : 2005 + A1 : 2009 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roof tests*

DD ENV 1187 : 2002 *Test methods for external fire exposure to roofs*

17 Conditions

17.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

17.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

17.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

17.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

17.5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

17.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.