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Agrément Certificate

18/5482

Product Sheet 1

CCL WETROOMS FLOOR GULLIES

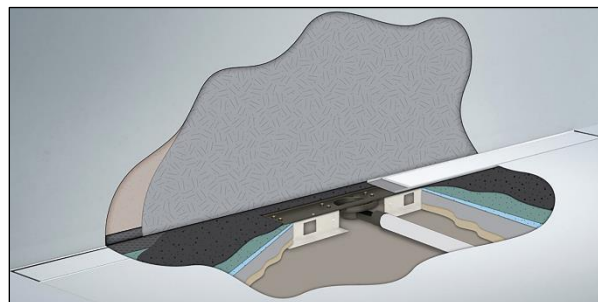
CCL WETROOMS LINEAR DRAINS

This Agrément Certificate Product Sheet⁽¹⁾ relates to CCL Wetrooms Linear Drains, a range of plastic and stainless steel gullies for use inside buildings to receive wastewater from floors in wet rooms and walk-in showers.

(1) Hereinafter referred to as 'Certificate'.

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

Mechanical resistance and stability — the products will have adequate strength to resist the loads experienced under normal service conditions (see section 6).

Hygiene, health and the environment — the products will allow disposal of wastewater without clogging (see section 7).

Safety in use — the products are safe in use (see section 8).

Durability — the products will have adequate durability (see section 10).



The BBA has awarded this Certificate to the company named above for the products described herein. These products have 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: 1 February 2018

Paul Valentine
Technical Excellence Director

Claire Curtis-Thomas
Chief Executive

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 are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

British Board of Agrément

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Regulations

In the opinion of the BBA, CCL Wetrooms Linear Drains, 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:	H1(1)	Foul water drainage
Comment:		The products will contribute to satisfying this Requirement. See section 7 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The products are acceptable. See section 10 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		The products satisfy the requirements of this Regulation. See sections 9 and 10 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	3.7(b)	Wastewater drainage
Comment:		The products will contribute to satisfying the requirements of this Standard, with reference to clause 3.7.1 ⁽¹⁾ . See section 7 of this Certificate.

(1) Technical Handbook (Domestic).



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

Regulation:	23	Fitness of materials and workmanship
Comment:		The products are acceptable. See section 10 and the <i>Installation</i> part of this Certificate.
Regulation:	81	Underground foul drainage
Comment:		The products will contribute to satisfying 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 section: 8 *Safety in use* of this Certificate.

Additional Information

NHBC Standards 2018

In the opinion of the BBA, CCL Wetrooms Linear Drains, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 8.1 *Internal Services*, clause 8.1.6 *Soil and Waste Systems*.

1 Description

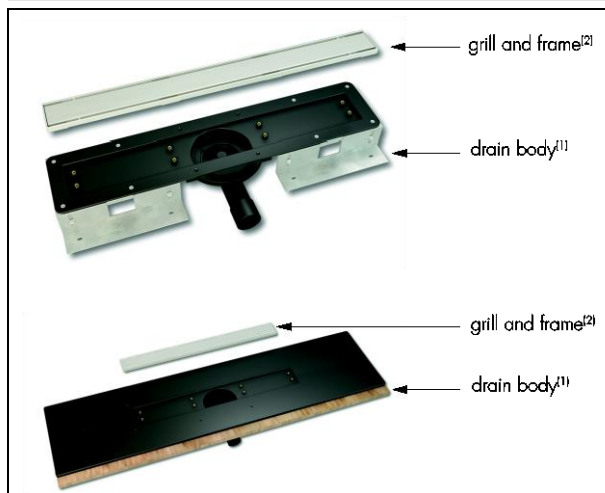
1.1 CCL Wetrooms Linear Drains are shallow gullies which can be positioned up against the wall or away from the wall. CCL Wetrooms Linear Drains consist of two primary components:

- drain body⁽¹⁾
- grill and frame⁽²⁾.

(1) The drain bodies are available with 1, 2 or 3 outlets and are height adjustable.


(2) The grill and frames are available in various lengths and are independently adjustable.

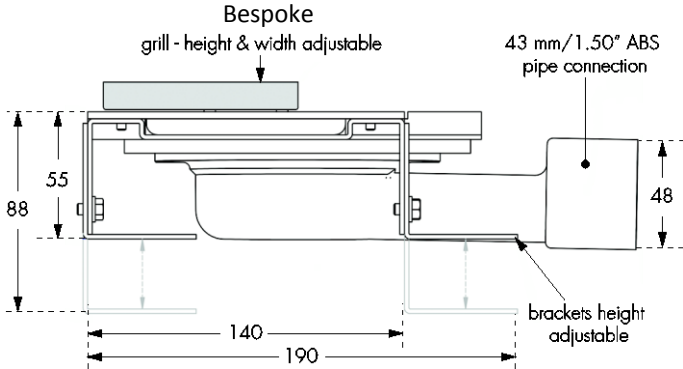
Figure 1 Illustration of primary components




1.2 CCL Wetrooms Linear Drains are manufactured from acrylonitrile butadiene styrene (ABS), 316 grade stainless steel and 2.0 mm galvanized steel. The outlets have standard diameters appropriate to be connected to pipework complying with the relevant codes of practice.

Table 1 Drain body

LSD Standard Height Drain	No. of Traps	Capacity	Bracket Height	Product Code
	1 Centre	29 L/Min	Standard	LSD-1C/ST
	1 Right	29 L/Min	Standard	LSD-1R/ST
	1 Left	29 L/Min	Standard	LSD-1L/ST
	2	56 L/Min	Standard	LSD-2/ST
	3	70 L/Min	Standard	LSD-3/ST
	Bespoke			LSD-BES/ST



LSD Extra Shallow Height Drain	No. of Traps	Capacity	Bracket Height	Product Code
	1 Centre	29 L/Min	Extra Shallow	LSD-1C/ES
	1 Right	29 L/Min	Extra Shallow	LSD-1R/ES
	1 Left	29 L/Min	Extra Shallow	LSD-1L/ES
	2	56 L/Min	Extra Shallow	LSD-2/ES
	3	70 L/Min	Extra Shallow	LSD-3/ES
	Bespoke			LSD-BES/ES

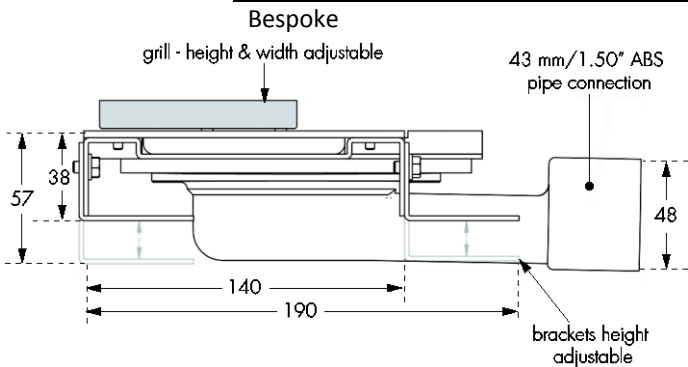
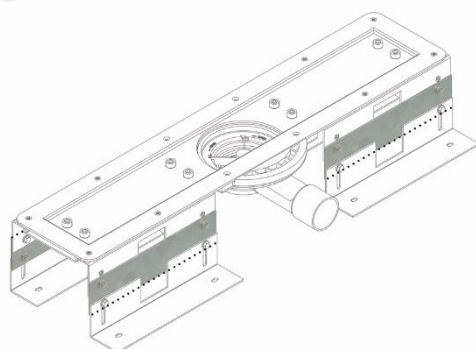


Table 1 Drain body (continued)

LSD Height Extension Brackets



Bracket Height

Product Code

Single Trap
Centre Outlet

LSD-1C/EXT

Single Trap
Handed Outlet

LSD-1H/EXT

Double Trap

LSD-2/EXT

Triple Trap

LSD-3/EXT

Lo-Seal Trap



Description

Lo-Seal Trap

Product Code

TRLS-Complete

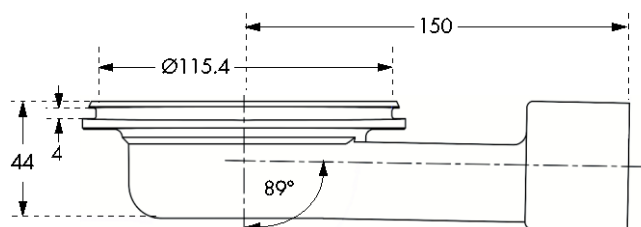


Table 1 Drain body (continued)


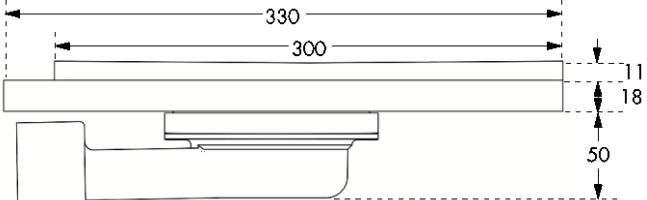
MWF Linear Drain	No. of Traps	Capacity	Product Code
	1 Centre	29 L/Min	MDC-W1C
	1 Right	29 L/Min	MDC-W1R
	1 Left	29 L/Min	MDC-W1L
	2	56 L/Min	MDC-W2
	3	70 L/Min	MDC-W3
Bespoke			MDC-BES
			

Table 2 Grill and frame

Wall Grill

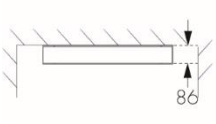
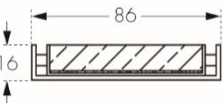
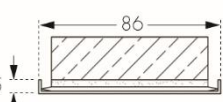
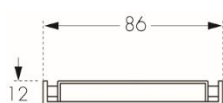
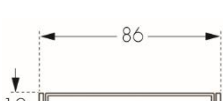

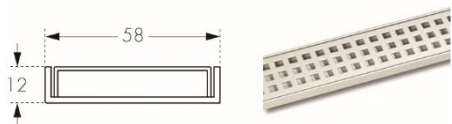
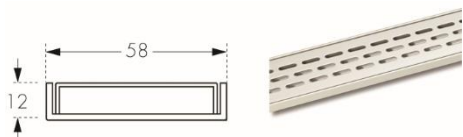
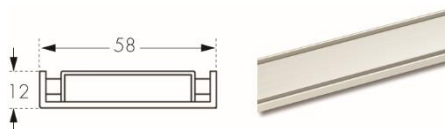
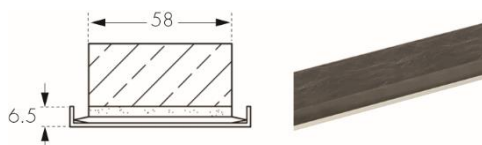
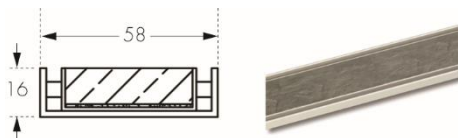
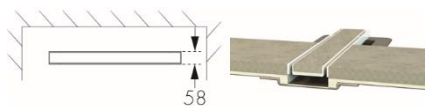
     	Finish	Length	Product Code
	Stone-Infill	600-2000	Type S
	Frameless	600-2000	Type F
	Solid	600-2000	Type A
	Slotted	600-2000	Type B
	Squared	600-2000	Type C
	Bespoke	600-2000	WG/BES

Table 2 Grill and frame (continued)

Floor Grill



Finish	Length	Product Code
Stone-Infill	600-2000	Type S
Frameless	600-2000	Type F
Solid	600-2000	Type A
Slotted	600-2000	Type B
Squared	600-2000	Type C
Bespoke	600-2000	FG/BES

1.3 The following ancillary items are for use with the products, but are outside the scope of this Certificate:

- CCL Wetrooms Linear Screed-Dec and CCL Wetrooms HBL-50 High Build Wetroom Latex Compound — used to form the gradient to the drain
- a suitable insulation board
- CCL Wetrooms Tilesafe/Tilesure Floor Membrane — to provide waterproofing or ‘tanking’ to the floor area
- CCL Wetrooms FWM Wall Membrane — to provide waterproofing or ‘tanking’ to the walls within the shower area
- flexible waterproof tile adhesive conforming to BS EN 12004-1 : 2017
- flexible waterproof grout conforming to BS EN 13888 : 2009.

2 Manufacture

2.1 Continuous quality control is exercised during manufacture including regular checks on appearance, dimensions, marking and loading classification.

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.

3 Delivery and site handling

3.1 The drains and accessories are marked with the Certificate holder's name, product code and date of manufacture, and are supplied in cardboard boxes.

3.2 The Certificate holder's technical data sheet must be consulted, and their advice sought with regard to the safe handling of all products.

3.3 The products are robust but rough handling (eg dropping on hard floors) may cause distortion of such features as seals, grating and extension rings. Damaged items should be discarded.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on CCL Wetrooms Linear Drains.

Design Considerations

4 Use

4.1 CCL Wetrooms Linear Drains are satisfactory for use inside buildings to dispose of wastewater from floors in wet rooms and walk-in showers.

4.2 The products are for use in domestic, commercial and public buildings with gravity drainage systems installed in accordance with BS EN 12056-1 : 2000, BS EN 12056-2 : 2000, BS EN 12056-3 : 2000 and BS EN 12056-5 : 2000 for the conveyance of surface water and domestic sewage, as is permitted to be discharged into public sewers by the Water Industry Act 1991, and surface water and sewage as is permitted and defined by the Sewerage (Scotland) Act 1968 and the Water and Sewerage Services (Northern Ireland) Order 1973.

4.3 It is important for designers, planners, contractors and/or installers to ensure that the installation of the products is in accordance with the Certificate holder's instructions and the information given in this Certificate.

5 Practicability of installation

The products are designed to be installed by a competent general builder, or a contractor, experienced with these types of products.

6 Mechanical resistance and stability

6.1 The products will have adequate resistance to the loadings likely to be experienced under normal service conditions in the areas of use as defined in this Certificate.

6.2 The gratings and extension brackets will have adequate strength and stability.

6.3 The products may be regarded as having a Class K3 rating in accordance with BS EN 1253-1 : 2015.

7 Hygiene, health and the environment



7.1 The products have adequate flow characteristics and will allow disposal of wastewater without clogging.

7.2 Trapped drains incorporating the mechanical trap have adequate odour protection and are watertight.

7.3 Products for use with floor membranes or 'tanking' will have adequate watertightness.

8 Safety in use

8.1 The products are free from sharp edges that can impair performance or cause injury.

8.2 The gratings have apertures suitable for adequate performance and safety.

9 Maintenance



9.1 The grill and mechanical trap can be easily removed for cleaning and replaced (see Figure 2).

9.2 With traps removed, the pipework can be rodded using either a cane or polypropylene rods with a cleaning coil head.

9.3 Adequate access for cleaning is provided on gullies so equipped. Trapped gullies which cannot be cleaned through a cleaning port or by removing the trap will have an adequate satisfactory performance.

Figure 2 Maintenance



10 Durability



10.1 When used as per the conditions and recommendations given in this Certificate, the products will have adequate durability for disposing of wastewater from floors in wet rooms and walk-in showers.

10.2 The products will resist all thermal cycling conditions likely to occur in effluents from the areas of use defined in this Certificate.

10.3 The products are resistant to corrosion and will be unaffected by the types and quantities of chemicals likely to be found in wastewater from wet floors or effluents from domestic appliances.

11 Reuse and recyclability

The products contain ABS polymer and stainless steel, both of which can be recycled.

Installation

12 General

12.1 Installation of CCL Wetrooms Linear Drains must be carried out in accordance with the Certificate holder's instructions and BS EN 12056-1 : 2000, BS EN 12056-2 : 2000, BS EN 12056-3 : 2000 and BS EN 12056-5 : 2000.

12.2 Floors fitted with the products must be designed to allow the water to flow freely to the gratings and incorporate an effective damp-proof membrane, in accordance with CP 102 : 1973, BS 8102 : 2009 and BS 8215 : 1991.

12.3 A suitable waterproofing membrane must be installed and dressed onto the drain body.

12.4 The products can be installed in either timber or concrete floors using purpose-made accessories.

13 Procedure

Solid floors (see Figure 3)

13.1 The Drain Body is placed onto the slab and its level/position adjusted as necessary.

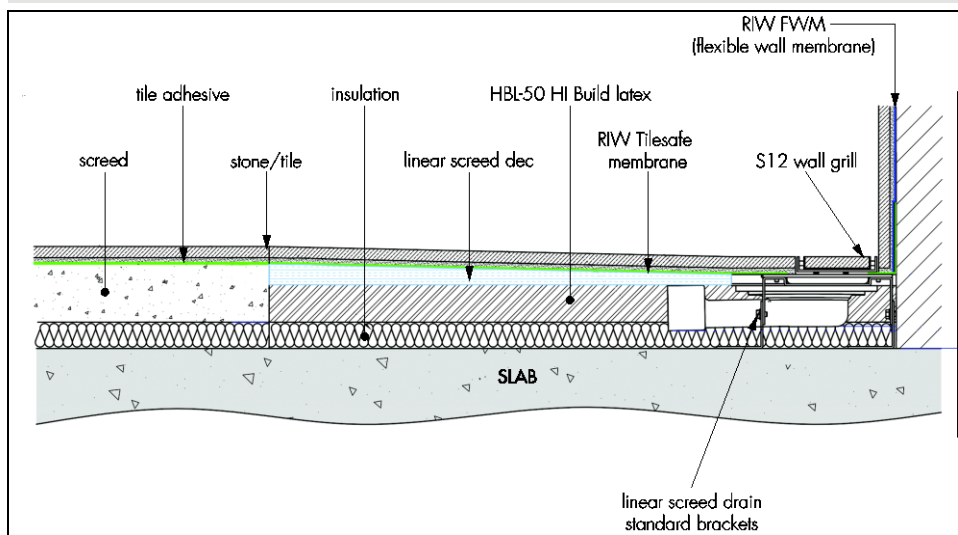
13.2 To facilitate level adjustment both the brackets and grill are independently adjustable.

13.3 To keep the Drain Body in place during the screed pour, the brackets should be secured to the slab using suitable screws.

13.4 If the extra shallow brackets are used, a recess is cast in the slab for the trap and waste pipe run.

13.5 The grill is installed after the floor has been waterproofed, at the same time as the floor is tiled.

Figure 3 Installation in solid floors



Timber floors (see Figure 4)

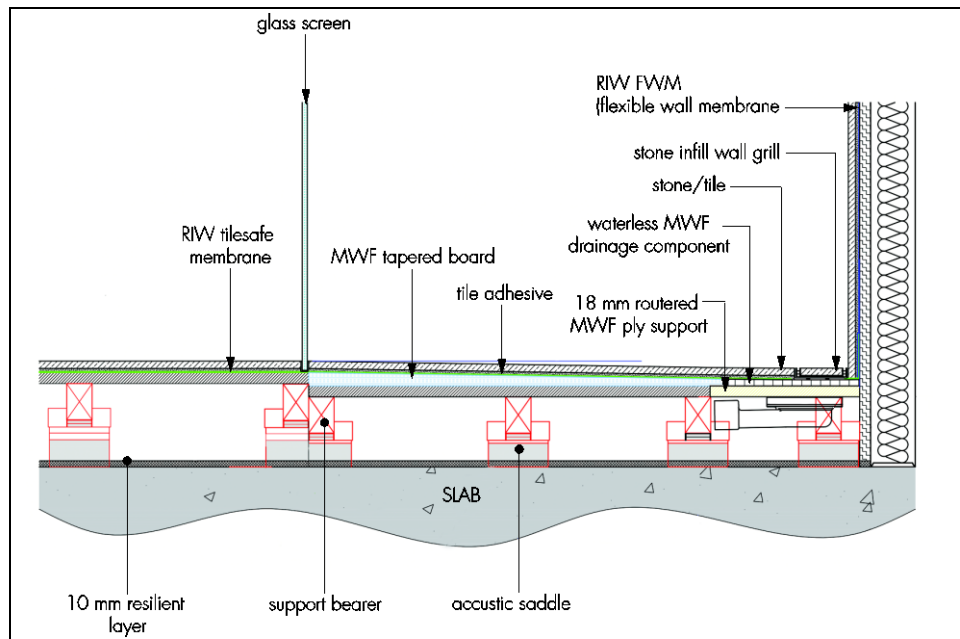
13.6 Support bearers are fixed in place to suit gully dimensions.

13.7 The Drain Body is placed onto the ply support and secured into place using suitable screws.

13.8 To facilitate level adjustment the grill is independently adjustable.

13.9 The grill is installed after the floor has been waterproofed, at the same time as the floor is tiled.

Figure 4 Installation in timber floors



Technical Investigations

14 Tests

Independent test data were assessed in accordance with the requirements of BS EN 1253-1 : 2015, BS EN 1253-2 : 2015 and BS EN 274-1 : 2002, to determine:

- mechanical strength
- resistance of water seal to pressure
- blockage prevention
- odour and watertightness
- flow characteristics
- safety in use
- practicability of installation
- ease of maintenance
- resistance to thermal actions
- resistance to corrosion and chemicals.

15 Investigations

15.1 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.

15.2 The manufacturer's literature was examined for any inconsistencies and general content.

Bibliography

- BS 8102 : 2009 *Code of practice for protection of below ground structures against water from the ground*
- BS 8215 : 1991 *Code of practice for design and installation of damp-proof courses in masonry construction*
- BS EN 274-1 : 2002 *Waste fittings for sanitary appliances — Requirements*
- BS EN 1253-1 : 2015 *Gullies for buildings — Trapped floor gullies with a depth water seal of at least 50 mm*
- BS EN 1253-2 : 2015 *Gullies for buildings — Roof drains and floor gullies without trap*
- BS EN 12004-1 : 2017 *Adhesives for ceramic tiles — Requirements, assessment and verification of constancy of performance, classification and marking*
- BS EN 12056-1 : 2000 *Gravity Drainage Systems inside Buildings — General and performance requirements*
- BS EN 12056-2 : 2000 *Gravity Drainage Systems inside Buildings — Sanitary pipework, layout and calculation*
- BS EN 12056-3 : 2000 *Gravity Drainage Systems inside Buildings — Roof drainage, layout and calculation*
- BS EN 12056-5 : 2000 *Gravity Drainage Systems inside Buildings — Installation and testing, instructions for operation, maintenance and use*
- BS EN 13888 : 2009 *Grout for tiles. Requirements, evaluation of conformity, classification and designation*
- CP 102 : 1973 *Code of practice for protection of buildings against water from the ground*

16 Conditions

16.1 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 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.

16.2 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.

16.3 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.

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

16.5 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.

16.6 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.