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Agrément Certificate

19/5622

Product Sheet 3

OSMADRAIN UNDERGROUND DRAINAGE SYSTEM

OSMADRAIN YARD GULLY

This Agrément Certificate Product Sheet⁽¹⁾ relates to the OsmaDrain Yard Gully, for use as a trapped gully for connection to 110 mm PVC-U underground drain pipes to BS EN 13476-2 : 2018 and fittings to BS EN 1401-1 : 2009 and BS 4660 : 2000 for the conveyance of surface water. The gully is for use in situations where Class B125 covers to BS EN 124 : 2015 would be suitable. This Certificate does not cover the use of the gully for domestic sewage, combined sewerage systems or untreated trade effluents.

(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

Flow characteristics — the product has adequate flow characteristics (see section 6).

Mechanical properties — the product has adequate strength to resist loads associated with installation and with subsequent use (see section 7).

Watertightness — the connection between the product and drainage systems will be watertight provided suitable connectors are used and connections made in accordance with this Certificate (see section 8).

Resistance to chemicals — the product will be unaffected by chemicals likely to be found in surface water (see section 10).

Durability — the product will have a service life in excess of 50 years (see section 12).



The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Paul Valentine
Technical Excellence Director

Claire Curtis-Thomas
Chief Executive

Date of First issue: 27 February 2019

Originally certificated under BBA Certificate 87/1835

Certificate amended on 14 March 2019 to include details of previous Certificate and reference to BS EN 13476-2.

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.*

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

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Regulations

In the opinion of the BBA, OsmaDrain Yard Gully, 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:	H3(3)	Rainwater drainage
Comment:		The product will convey the flow of rainwater and minimise the risk of blockages or leaks. See sections 4.1, 6, 7, 8, 9 and 10 of this Certificate.
Regulation:	7	Materials and workmanship (Applicable in Wales only)
Regulation:	7(1)	Materials and workmanship (Applicable in England only)
Comment:		The product is acceptable. See section 12 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The use of the product satisfies the requirements of this Regulation. See sections 11 and 12 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	3.6(a)	Surface water drainage
Comment:		The product will meet the relevant requirements of this Standard, with reference to clauses 3.6.1 ⁽¹⁾⁽²⁾ , 3.6.2 ⁽¹⁾⁽²⁾ and 3.6.3 ⁽¹⁾⁽²⁾ . See sections 4.1, 6, 7, 8, 9 and 10 of this Certificate.
Standard:	7.1(a)(b)	Statement of sustainability
Comment:		The products 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:		All comments given for the products 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	Fitness of materials and workmanship
Comment:		The product is acceptable. See section 12 and the <i>Installation</i> part of this Certificate.
Regulation:	82	Rainwater drainage
Comment:		The product will convey the flow of rainwater and minimise the risk of blockages or leaks. See sections 4.1, 6, 7, 8, 9 and 10 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: 14 *Procedure* of this Certificate.

Additional Information

NHBC Standards 2019

In the opinion of the BBA, OsmaDrain Yard Gully, 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 5.3 *Drainage below ground*.

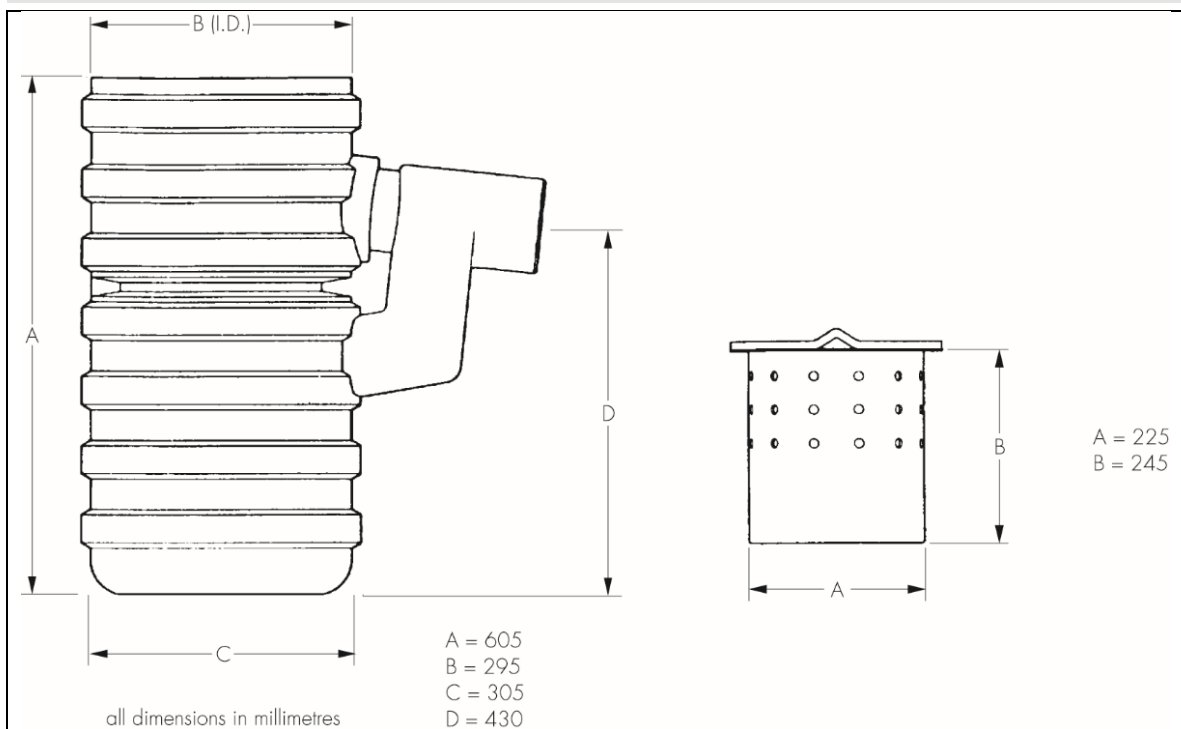
Technical Specification

1 Description

1.1 The OsmaDrain Yard Gully (4D800) comprises a blow-moulded, high density polyethylene (HDPE) gully with an internal diameter of 295 mm and depth of 605 mm (see Figure 1). The trapped gully incorporates an integral trap, outlet spigot and a Thermoplastic Elastomer (TPE) plug and retaining strap to BS EN 681-2 : 2000. If the access plug is not used, the gully is considered to be untrapped.

1.2 A perforated galvanized mild steel catchment bucket (4D815) is available for use with the gully (see Figure 1).

Figure 1 Gully and catchment bucket



1.3 A ductile iron grating and frame (4D810), kitemarked for use as a Class B125 cover to BS EN 124 : 2015, is available for use with the gully (grating dimensions 303 mm by 325 mm).

1.4 Joints to PVC-U pipe to BS EN 1401-1 : 2009 and BS EN 13476-2 : 2018 can be made directly from the outlet using standard BS EN 1401-1 : 2009 and BS 4660 : 2000 connectors.

2 Manufacture

2.1 The gully is manufactured by blow moulding process.

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 OsmaDrain Yard Gully is supplied complete with removable rubber bung for rodding access.

3.2 The product is delivered to site without packaging and is identified by direct engraving on the product with the manufacturer's product code and the number of this Certificate.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on the OsmaDrain Yard Gully.

Design Considerations

4 Use



4.1 The OsmaDrain Yard Gully is for use with pipes and fittings complying with BS EN 1401-1 : 2009, BS EN 13476-2 : 2018 and BS 4660 : 2000 in surface water drainage systems designed in accordance with BS EN 12056-3 : 2000 and BS EN 752 : 2017, for the conveyance of surface water. The gully is for use in situations where Class B125 covers to BS EN 124 : 2015 would be suitable.

4.2 This Certificate does not cover the use of the gully for domestic sewage, combined sewerage systems or untreated trade effluents.

5 Practicability of installation

The product is designed to be installed by a competent contractor, experienced with this type of product

6 Flow characteristics



The gully has a nominal holding capacity of 26 litres.

7 Mechanical properties



The product has adequate strength to resist loads associated with installation and with subsequent use in the situations defined in the *General* part of this Certificate.

8 Watertightness



The connection between the gully, and pipes and fittings to BS EN 1401-1 : 2009, BS EN 13476-2 : 2018 and BS 4660 : 2000, is watertight.

9 Rodding



The drain may be rodded from the gully, using flexible drain rods, by removing the access plug.

10 Resistance to chemicals



The gully will be unaffected by those types and quantities of chemicals likely to be found in surface water.

11 Maintenance



To maintain the effectiveness of the gully trap the access plug must be replaced after rodding.

12 Durability



In the opinion of the BBA, when used in accordance with this Certificate, the materials from which the components are manufactured will not significantly deteriorate, and the system will have a life in excess of 50 years.

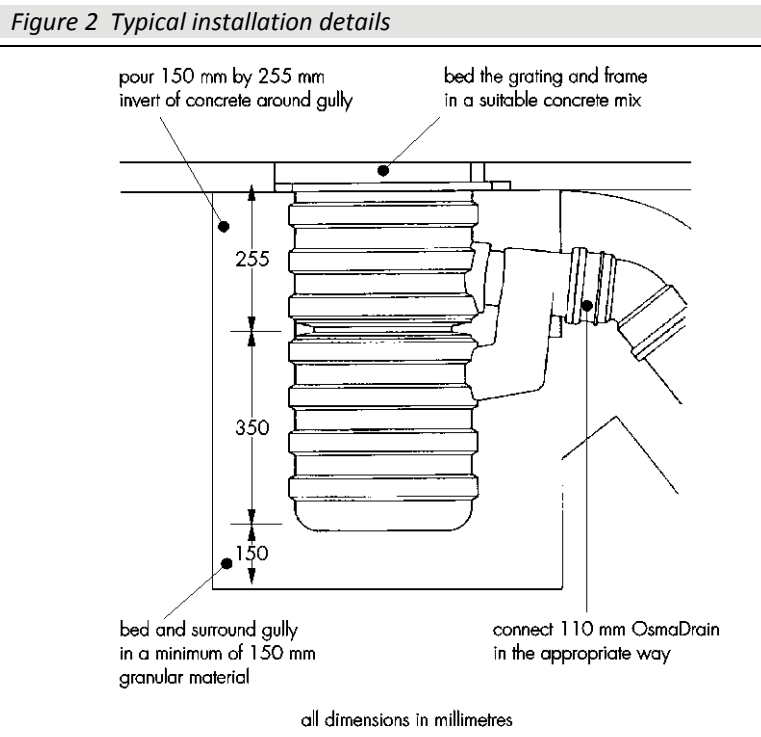
13 Reuse and recyclability

The product contains polyethylene, which can be recycled.

Installation

14 Procedure

14.1 The OsmaDrain Yard Gully should be installed in a suitably-sized excavation allowing an additional 150 mm under and around the gully (see Figure 2).



14.2 A bed of 150 mm granular material is laid at the bottom of the excavation.

14.3 The gully is set level and in line with the branched drain.

14.4 The gully is connected to the branch drain and surrounded by granular material to a maximum depth of 350 mm.

14.5 The rest of the excavation is filled with concrete and the grating and frame bedded in a suitable concrete mix.

Technical Investigations

15 Tests

Tests were carried out and the results assessed to determine:

- dimensional accuracy
- density of HDPE
- Vicat softening temperature
- ash content
- tensile strength and elongation
- melt flow rate
- watertightness of gully and connection
- capacity
- resistance to external hydrostatic pressure
- resistance to wheel loads.

16 Investigations

16.1 An evaluation of existing data was made to assess resistance to chemicals and durability.

16.2 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.

Bibliography

BS 4660 : 2000 *Thermoplastics ancillary fittings of nominal sizes 110 and 160 for below ground gravity drainage and sewerage*

BS EN 124-1 : 2015 *Gully tops and manhole tops for vehicular and pedestrian areas — Definitions, classification, general principles of design, performance requirements and test methods*

BS EN 681-2 : 2000 *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Thermoplastic elastomers*

BS EN 752 : 2017 *Drain and sewer systems outside buildings*

BS EN 1401-1 : 2009 *Plastics piping systems for non-pressure underground drainage and sewerage — Unplasticized poly (vinylchloride) (PVC-U) — Specifications for pipes, fittings and the system*

BS EN 12056-3 : 2000 *Gravity Drainage Systems inside Buildings — Roof drainage, layout and calculation*

BS EN 13476-2 : 2018 *Plastics Piping Systems for non-pressure underground drainage and sewerage — Structured-wall piping systems of unplasticized poly (vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) — Specifications for pipes and fittings with smooth internal and external surface and the system, Type A*

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.