



TORiser



Lightweight Recycled Access cover and Gully Raising

Water Authority Approvals

Wessex Water
YTL GROUP



Dŵr Cymru
Welsh Water



For more information please call Torrent Water Management on
01623 272882 email enquiries@torrentwm.co.uk or visit our web-
site www.torrentwm.co.uk

Torrent Water Management
550 Valley Road
Nottingham
United Kingdom
NG5 1JJ

Date: 11/06/2023

Dear Mr Wilkins,

Re: TORiser Lightweight seating ring system

I write further to our discussions regarding the above product, which is manufactured by Torrent Water Management and used to adjust the height of access covers to the required level.

We recognise that the product has WRc Approved status. WRc Approved is an independent, recognised certification scheme providing end-users with confidence that products are fit for purpose, particularly where there is no direct standard for the product to be tested against.

Therefore, we are satisfied that the product meets the requirements set out in the WRc Assessment Schedule PT/513/0423-AS and has a valid Product Certificate until 11 April 2028.

Sewer adoption agreements in our operating area are mandatory and currently require that the adoptable works meet the provisions of the Welsh Ministers Standards for new gravity foul water sewers and lateral drains, or Sewers for Adoption 7th edition. Works are subject to inspection during and after construction. The agreements include a Defects Period after the works are vested, where the developer retains liability for any defects that may arise.

We are therefore satisfied for the TORiser product to be used on adoptable sewerage in our area.

Please keep us informed initially of developments where the product is to be used. Let me know if I can be any assistance in the meantime.

Yours sincerely,



Huw Williams
Senior Adoption Engineer - Developer Services

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United Utilities Approval

Morning Ashley,

Thanks for the additional information, based on which I can confirm compliance with the most relevant standards set out in sections E2.29.3 & E2.30.2 of the Design & Construction Guidance.

As mentioned in our conversation yesterday, we don't provide formal approvals for individual products but as this meets the most relevant standards for concrete manhole slabs/components we're happy for this to be utilised on any S104 developments within our operational areas. If you can let me know which sites you choose to use these on imminently it would be appreciated as I can ensure the necessary Inspectors are aware so there's no further confusion onsite.

Thanks and regards



Craig Daniels

Technical Assurance Engineer

Developer Services & Metering

Customer Services

M:

unitedutilities.com

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Thames Water Approval

Hi Ashley,

Happy for any challenges on the use of TORiser to be redirected to myself or Dan Rees.

Regards

Jonathan Shildrick BSc

Developer Services – Adoptions Engineer

jonathan.shildrick@thameswater.co.uk

You can reach us on 0800 009 3921. Our lines are open from 8am to 4pm, Monday to Friday, and are closed at weekends and bank holidays

Get advice on making your sewer connection correctly at connectright.org.uk

Sewers for Adoption (SFA) was replaced by the new Code for Adoptions on 1st April 2020, please use this link to find the new national standards and documents. Any applications made prior to 1st April will continue to be assessed against SFA.

Clearwater Court, Vastern Road, Reading, RG1 8DB

Find us online at developers.thameswater.co.uk



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Wessex Water Approval

Hi Ashley

Apologies I've got lots on at the moment

We have been down and lifted the lids of the covers to check the condition of the risers and am happy to report that there is no cause for concern from our point of view and we would be happy to use these again

Kind regards

James

Wessex Water Construction Manager



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site www.torrentwm.co.uk



TORiser



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Independent water Network Approval

Hi Ashley,

We would accept these products if they are installed correctly.

Would you be able set up some CPD and deliver it to our team via teams?

Many thanks,

Dan Wiltshire

Wastewater Engineer



E Daniel.wiltshire@iwnl.co.uk

M

W www.iwnl.co.uk

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TORiser



Lightweight Recycled Access cover and Gully Raising Pieces

icosa Water Approval

Hi Ashley,

Thank you for your email, following discussions with our Technical Engineer and confirmation from Icosa.

I can confirm that the attached **TORiser** is acceptable for use on Icosa sites.

Kind Regards,

Emma Emma Paine

Adoptions Administration



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ESP Water Approval

Hi Ashley

Thanks for the information you provided.

Based on the information I am updating the status of the use of the TORiser from 'Trial' top approved for use on ESP adoptable sewer networks.

Although I will be requiring the polyester resin mortar to be used during construction.

Peter



Peter Golightly
Network Engineer (Water/Wastewater)

E: Peter.Golightly@espug.com

D:

M:

W: espug.com

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on 01623 272882 email enquiries@torrentwm.co.uk or visit our
website www.torrentwm.co.uk



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Product Certificate

This is to certify that the following product has met the requirements detailed below

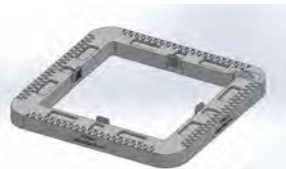
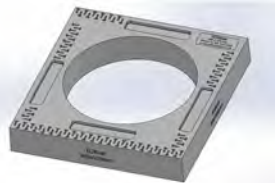
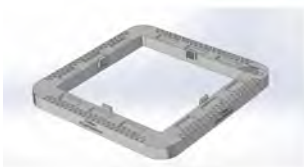
TORiser System

For the TORiser as manufactured by Torrent Water Management to adjust the height of access covers and gully grates to the required level on the public highway.

Torrent Water Management
550 Valley Road,
Nottingham,
United Kingdom,
NG5 1JJ.

This product meets the requirements set out in WRc Assessment Schedule PT/5XX/0423-AS

Assessor: *A Russell*
Director: *A. Ball*
Issue Date: 12 April 2023
Expiry Date: 11 April 2028
Certificate Number: PT/513/0423



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TORiser



Lightweight Recycled Access cover and Gully Raising Pieces

PT/513/0423-AS (April 2023)

Assessment Schedule for TORiser as manufactured by Torrent Water Management



independent certification of your products & services

1. SCOPE

This schedule specifies the requirements for the TORiser as manufactured by Torrent Water Management for access covers and gully raising pieces.

2. PRODUCT DESCRIPTION

2.1 Introduction

The TORiser is used to adjust the height of access covers and gully grates to the required level on the public highway.

The product can be laid using either a cementitious or resin bedding mortar and has a 'T-Grip' surface to facilitate bonding.

There are 4 variants of the TORiser listed below which all have varying weights and sizes.

Table 1

Size	Application	Opening Type & Size	Weight
825x825x65mm	Access cover	Square 600x600mm	5kg
900x900x65mm	Access cover	Square 675x675mm	5kg
620x550x100mm	Gully grating	Gully grate U-shaped 450mm	6.7kg
620x650x100mm	Gully grating or Access cover	Circular 450mm	6.7kg

2.2 Applicable standards

No applicable British, European or International Standards have been

identified that are applicable to this product.

2.3 Approval History

This is the first WRC Approved certification for the TORiser.

3. REQUIREMENTS AND TESTING

3.1 Materials and components

The TORiser is manufactured from a High-Density Polyethylene compound.

3.2 Type Testing

Mechanical Properties

a. Load Bearing Capacity

When a 400kN test load is applied to the TORiser through a cover or gully grate (in accordance with BS EN 124-1:2015, 7.2), and installed with a suitable bedding mortar in accordance with the manufacturer's installation instructions, there shall be no visible evidence of cracking, delamination or permanent deformation of the TORiser.

b. Bond Strength

When tested in accordance with BS EN 1542:1999 using the following test parameters, the bond strength between the TORiser and the mortar shall be at least 1 megapascals.

- Preparation – as per standard
- Number of test specimens – 1 specimen with 5 bond tests
- Storage – curing as per Annex A of standard
- Applying pull-off load (adhering to standard for rate increases)
- Determination of failure – as per standard

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PT/513/0423
Valid: 12/04/2023 - 11/04/2028

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PT/513/0423-AS (April 2023)

**Assessment Schedule for TORiser as
manufactured by Torrent Water
Management**



Independent certification of your products & services

- Calculation of tensile bond strength - as per standard

c. Geometrical Properties

The dimensions of the TORiser shall be in accordance with Table 1 with a tolerance of $\pm 3\text{mm}$.

3.3 Manufacture

To ensure the quality and performance of the TORiser, the manufacturing process shall include appropriate systems for the:

- ISO 9001 certification
- Specification of component materials;
- Verification component materials received are to specification;
- Handling and storage of all component materials and finished units;
- Detailed drawing / schedule for manufacture
- Manufacture of TORiser and;
- Fabrication and quality control of workmanship.

The production of the TORiser and related quality control procedures shall comply with requirements to ensure the stated performance of the product is reliably achieved.

3.4 Installation

When installed in accordance with the installation documentation⁽⁵⁾, the TORiser shall be reasonably expected to perform as described.

4. APPROVAL

The TORiser has been audited and successfully met all the requirements stated within this assessment schedule

Signed:

Valid until 11 April 2028

5. REFERENCES

1. 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
2. BS EN 124-5:2015 - Gully tops and manhole tops for vehicular and pedestrian areas. Gully tops and manhole tops made of composite materials
3. BS 5911-3:2022 - Concrete pipes and ancillary concrete products - Part 3: Concrete manholes, inspection chambers and soakaways (complementary to BS EN 1917:2002) — Specification
4. BS 5911-6:2021 - Concrete pipes and ancillary concrete products – Part 6 Road Gullies and gully cover slabs - Specification
5. Torrent Water Management Installation Manual

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on 01623 272882 email enquiries@torrentwm.co.uk or visit our
website www.torrentwm.co.uk



PT/513/0423
Valid: 12/04/2023 - 11/04/2028