

# TORiser



Lightweight Recycled Access cover and Gully Raising Pieces



## Product Certificate

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

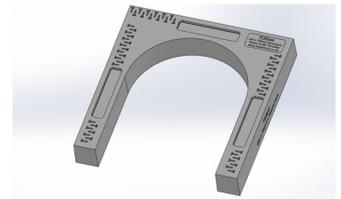
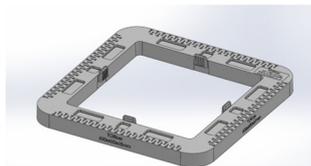
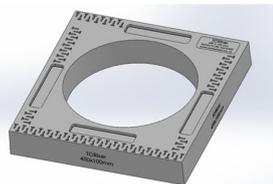
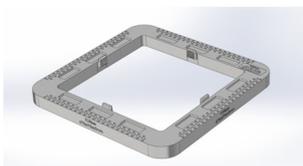
### TORiser System

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	<i>A Russell</i>
Director	<i>A. Ballal</i>
Issue Date	12 April 2023
Expiry Date	11 April 2028
Certificate Number	PT/513/0423



For more information please call Torrent Water Management on 01623 272882 email [enquiries@torrentwm.co.uk](mailto:enquiries@torrentwm.co.uk) or visit our website [www.torrentwm.co.uk](http://www.torrentwm.co.uk)



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

# 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



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### 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

For more information please call Torrent Water Management on 01623 272882 email [enquiries@torrentwm.co.uk](mailto:enquiries@torrentwm.co.uk) or visit our website [www.torrentwm.co.uk](http://www.torrentwm.co.uk)



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- 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<sup>(5)</sup>, 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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