



# SUPER GULLY

Large capacity offsite manufactured surface water management system



HELPING IMPROVE ROAD SAFETY BY  
REDUCING THE RISK OF FLOODING



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## Large capacity offsite manufactured surface water management system

**SUPER GULLY** is an innovative solution that has been developed as an effective, low maintenance, high-capacity kerbside surface water management system to rapidly remove water from highways prone to flooding.

**SUPER GULLY** was created to help overcome common issues with highway flooding including:

- ▶ flooding at low lying areas
- ▶ lack of regular highways drainage maintenance
- ▶ failure of carrier pipes to cope with extreme rainfall conditions
- ▶ no real alternative to road gullies



The development of **SUPER GULLY** has been a collaborative project between Saint-Gobain PAM UK and Stanton Precast (now Tracey Concrete). It combines PAM UK high performance ductile iron gully gratings with a high-quality, high-strength offsite manufactured precast concrete system provided by Stanton Precast.

The result is a low maintenance, high-capacity kerbside surface water management solution with an increased storage capacity that has the ability to cope with the most severe conditions when compared with a traditional gully drainage system.



**SUPER GULLY** can be used in many areas and particularly those areas subject to excessive surface water run-off such as:

- ▶ roads and motorways
- ▶ railways
- ▶ car parks and park & ride
- ▶ house developments
- ▶ airports and runways
- ▶ distribution yards and loading docks
- ▶ industrial estates
- ▶ bus stations

In troublesome areas, **SUPER GULLY** can be installed in a series with the initial units designed to capture silt and sediment and further units designed to take the surface water runoff.

**SUPER GULLY** is supplied in modular form with each section weighing no more than one tonne, making it easy to assemble with standard plant and equipment. For installation guidance and recommendations please refer to the installation section on pages 4 to 7.

The typical internal chamber size is 1500mm wide x 750mm long x 1170mm high, for deeper invert levels additional 500mm chamber risers can be added, if required.



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changing  
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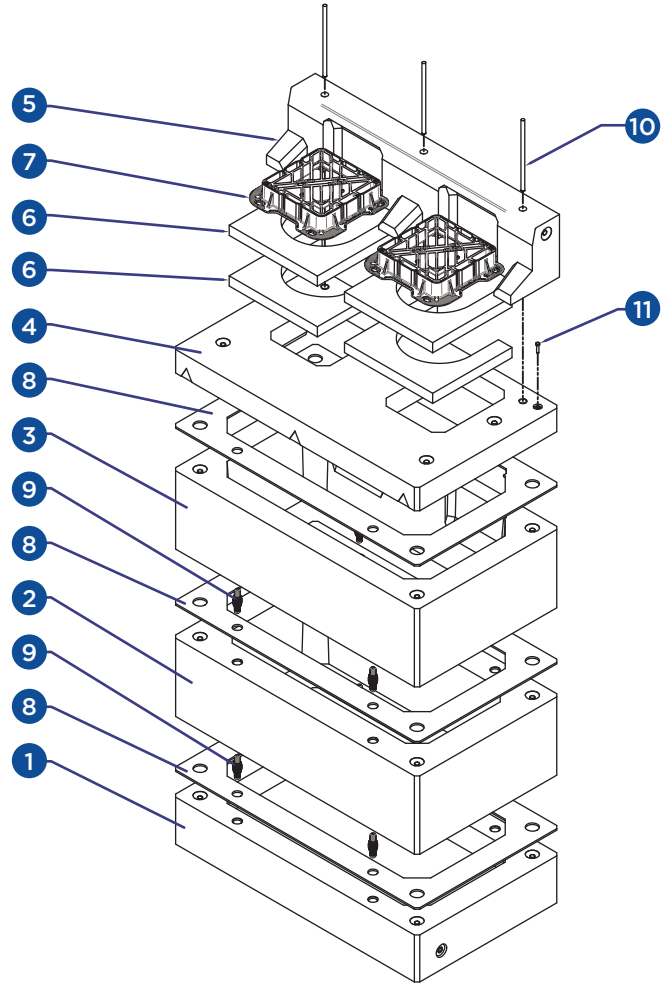
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## SUPER GULLY Installation guide

Component list:

| Diagram No. | Component                          | Qty        |
|-------------|------------------------------------|------------|
| 1           | Base unit                          | 1          |
| 2           | 500mm riser                        | As ordered |
| 3           | Top riser                          | 1          |
| 4           | Cover slab                         | 1          |
| 5           | Kerb unit                          | 1          |
| 6           | Horseshoe adjusting unit           | 4          |
| 7           | Waterway 1200 gully grating        | 2          |
| 8           | Super Gully seal                   | 3          |
| 9           | Dowellock insert                   | 8          |
| 10          | 20mm dowel bar                     | 3          |
| 11          | M12x50 jacking bolt                | 3          |
| 12          | webercem Install Plus CD534 mortar | 1          |
| 13          | webercem Install Plus CD534 mortar | 1          |
| 14          | 2.5T pin anchor lifting clutches   | 4          |



### Installation method:

1. Ensure that all components listed above have been delivered and that no units are damaged or otherwise compromised.
2. Prepare your excavation. The plan size of the Super Gully chamber is 1.8 x 1.05m and the height from the base to road surface level is typically 1.24m plus 0.5m for each 500mm riser used. Large rocks and roots etc. should be removed and a layer of 150mm compacted granular fill such as MOT-1 should be leveled off as bedding for the unit.
3. Lift the base unit **(1)** into place using the four lifting points with the clutches provided **(14)** and a suitable 4-leg chainset. Push the Dowelock inserts **(9)** into place in the indicated openings on top of the base unit until they click in to place and are fully engaged to at least half their length. Place the Super Gully seal **(8)** on the top face of the chamber wall, ensuring that the Dowelock inserts pass through the holes provided.

4. Lift the 500mm riser unit **(2)** in to place in the same way as the base unit. When lowering, ensure that the unit comes down square with the base unit and ensure that the Dowelock inserts align with and mate with the openings on the underside of the riser. Insert the Dowelock inserts into the top face and lay on the Super Gully seal as before. Repeat for any additional riser units.



5. Lift the top riser **(3)** in to place as before, ensuring that the cutouts in the wall are on the kerb side of the unit. Once positioned, put the final seal in place and cut away the excess seal around the cutouts using a sharp knife or shears. Check that the chamber is free of debris or tools. If you have a pre-drilled outlet you can install it at this point by inserting a tapered and lubricated pipe end in to the provided opening using an integrated gasket. For some pipes this will require a mortared connection.

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### Installation method:

If you have opted for an undrilled unit, you should now core drill your required opening. Holes should be more than 200mm in from any given side face and should have at least 100mm of concrete top and bottom for a given riser.

6. Lift the cover slab **(4)** in to place using the 4 provided lifting points. Ensure that the cover slab sits square with the chamber below.
7. Insert the 3 jacking bolts **(11)** into the threaded fixing points in the cover slab such that the tops of the bolts measure 400mm from the kerb line. Lift the kerb unit via the 2 lifters on the sides in to place on top of the jacking bolts and ensure that the back and sides are square with the slab below. Check the alignment of the kerb profile with existing kerb and adjust the jacking bolts as required, taking into account any slope.
8. Drop the 3no 20mm dowel bars **(10)** into the voids in the top of the kerb unit, ensuring that the dowel extends into the pocket in the cover slab. Mix the CD534 complaint mortar **(12)** as the packaging describes and using a trowel, fill in all the gaps between the kerb unit and the cover slab. Once the gaps are filled, mix up the CD534 complaint flowable mortar **(13)** in accordance with the manufacturers recommendations and pour in to each of the dowel holes steadily until filled and level.



9. Install the gully adjusting units **(6)** over the cover slab openings, ensuring around 10mm of mortar between the slab and the adjusting units and between the adjusting units. 2 adjusting units should be installed for each opening.



10. Install the PAM UK Waterway 1200 D400 gully gratings **(7)** by using mortar to the following specification:

- ▶ is cementitious and contains recycled materials, preference will be given to products that do not contain styrene
- ▶ be non-flowable for sealing the clear opening between the frame to prevent the ingress of surplus bedding mortar.
- ▶ demonstrate flowable characteristics to completely envelope without voids the flange as described in this section.
- ▶ have a minimum workable life of 15 minutes and shall achieve a compressive strength of the material of 30N/mm<sup>2</sup> in 3 hours.
- ▶ the tensile strength of the material shall exceed 5N/mm<sup>2</sup> in 3 hours.
- ▶ shall be capable of being used in all weathers including wet conditions with the above results.



11. Use the Install Plus frame levelling and installation system to level and adjust the frame to the required finished road level.
12. Backfill the chamber with granular material such as 10mm pea shingle up to the cover slab level. 2602 ST2 concrete or foam concrete backfill can be used but is not required. From here, reinstate normal road surface as required.



*Installation detail and information kindly provided by Stanton Precast (Tracey Concrete)*

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Our Saint-Gobain PAM foundry is at the forefront of the design and manufacturing of high-performance ductile iron access cover and grating solutions for the infrastructure, civil engineering, water and utilities sectors.



We ensure that our products are manufactured to the highest health and safety, quality and environmental standards. Below are details of our system, product and sustainability accreditation.

**SYSTEM, PRODUCT AND SUSTAINABILITY ACCREDITATION**

**Product Certification** BS EN 124-2:2015 access covers and gratings kitemark licence number KM30794

BS 5834-2 specification for small surface boxes kitemark licence number KM07199

BS 5834-3 specification for large surface boxes kitemark licence number KM14164

**BS EN ISO 9001** Quality management systems kitemark licence number FM12908

**BS EN ISO 14001** Environmental management systems kitemark licence number EMS83973

**ISO 45001** Health & safety management systems kitemark licence number OHS 570684

**Carbon Reduce** Carbon Reduce certification demonstrates our commitment to measuring, managing and reducing greenhouse gas emissions in a robust and credible way. Certificate number 2016053J

**BES 6001** Responsible sourcing of construction materials kitemark licence number BES613621

