

Septic tanks



A septic tank from Ri-Industries offers a number of benefits:

- Engineer-designed and built from fine tolerance steel moulds
- Tanks are made from 40 MPa concrete to give additional strength and durability
 - Internally, all joints are sealed, reducing the potential for leakages
 - Tanks are offered in a number of different sizes, for maximum flexibility
- Child-proof and vandal-proof lids on our septic tanks give you additional peace of mind



Industries

Septic tanks

Ri-Industries has over 70 years experience in the septic tank business and have developed efficient manufacturing techniques to produce septic tanks of the highest quality that are built to last.

- All tanks are engineer-designed and built from fine tolerance steel moulds which produce reliable wall thickness
- Tanks are made from 40 MPa concrete to give additional strength and durability
- Internally, all joints are sealed, reducing the potential for leakages
- Septic Tanks are offered in 10 different sizes, for maximum flexibility
- Child-proof and vandal-proof lids

General information

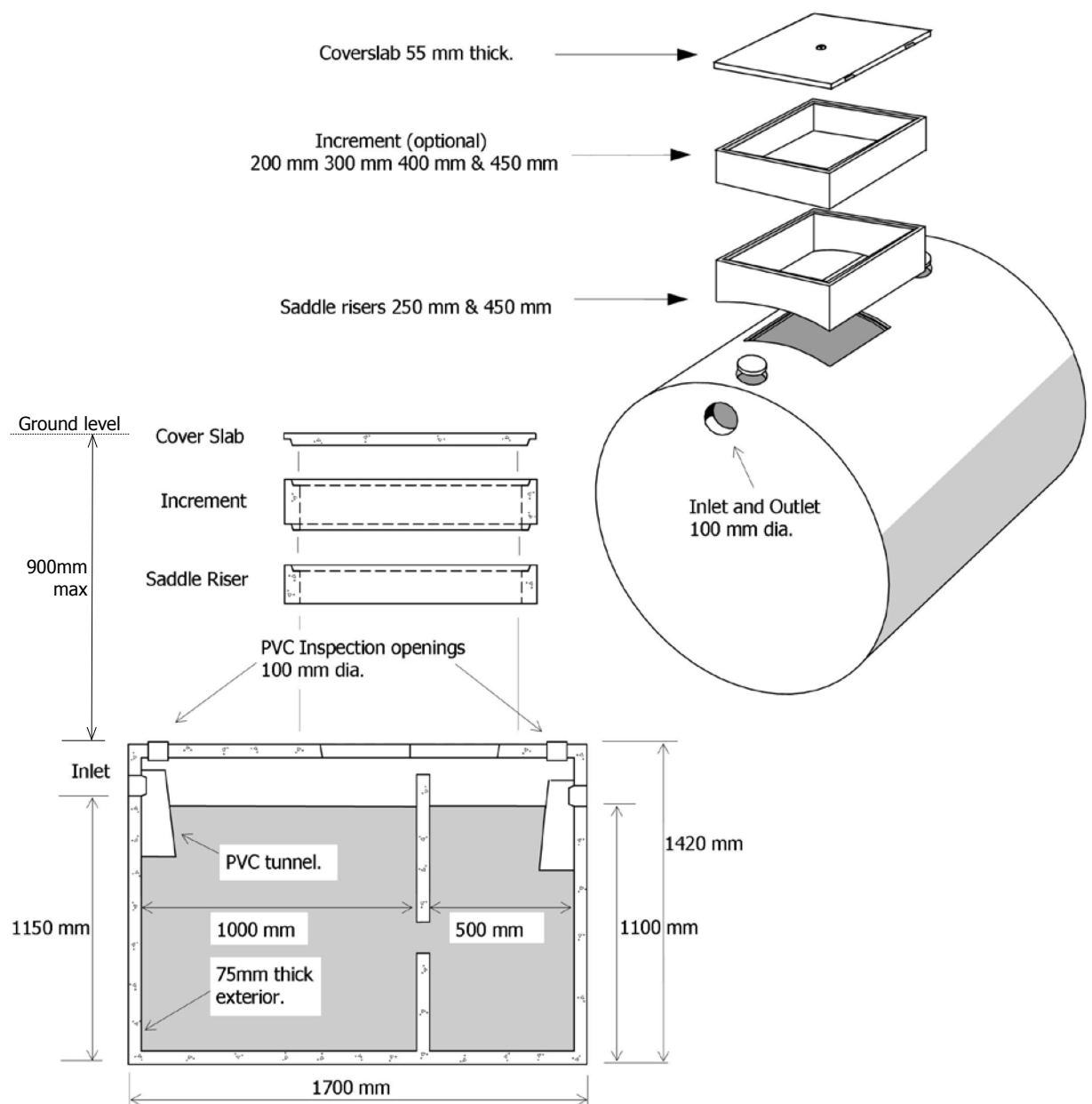
Installation and design of septic systems are regulated by the SA Health Department. Local Council Health Inspectors will have relevant area specific information.

To keep the septic tank fresh and operating correctly:

- For an average family of 4-6 people the septic tank may need to be de-sludged approximately every 4 years or as per Council requirements.
- Material that will not break down such as plastic bags, tampons, disposable nappies, condoms, etc, must NOT be put into the septic system. Biodegradable products should be used wherever possible. The bacterial action of septic tanks can also be severely inhibited by excessive amounts of disinfectants or old medicine entering the tank. Only use products approved for use in septic systems.
- Pooling of effluent near the seepage trench indicates that the system may be clogging. If this occurs contact your local liquid waste disposal contractor to empty the system.
- More detailed information on the workings of septic systems are available from the SA Health Department.

Septic tank • 1,620 litre

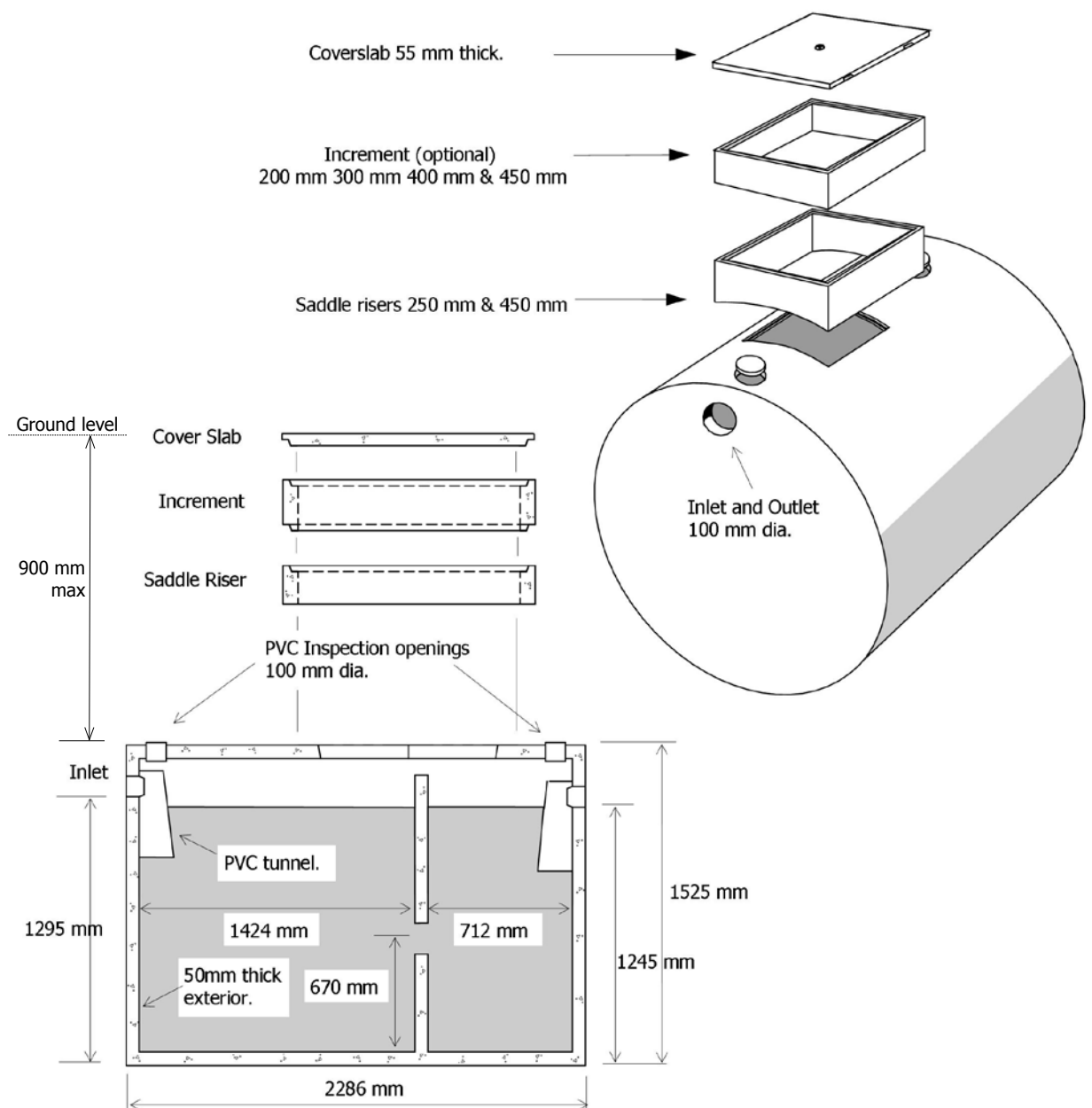
Item	Approx Mass
1,620 litre septic tank	1,875kg



The tanks have been designed to be buried with the top of the tank located 900mm maximum below ground level and with the cover slab at ground level.

Septic tank • 3,000 litre, 50mm wall

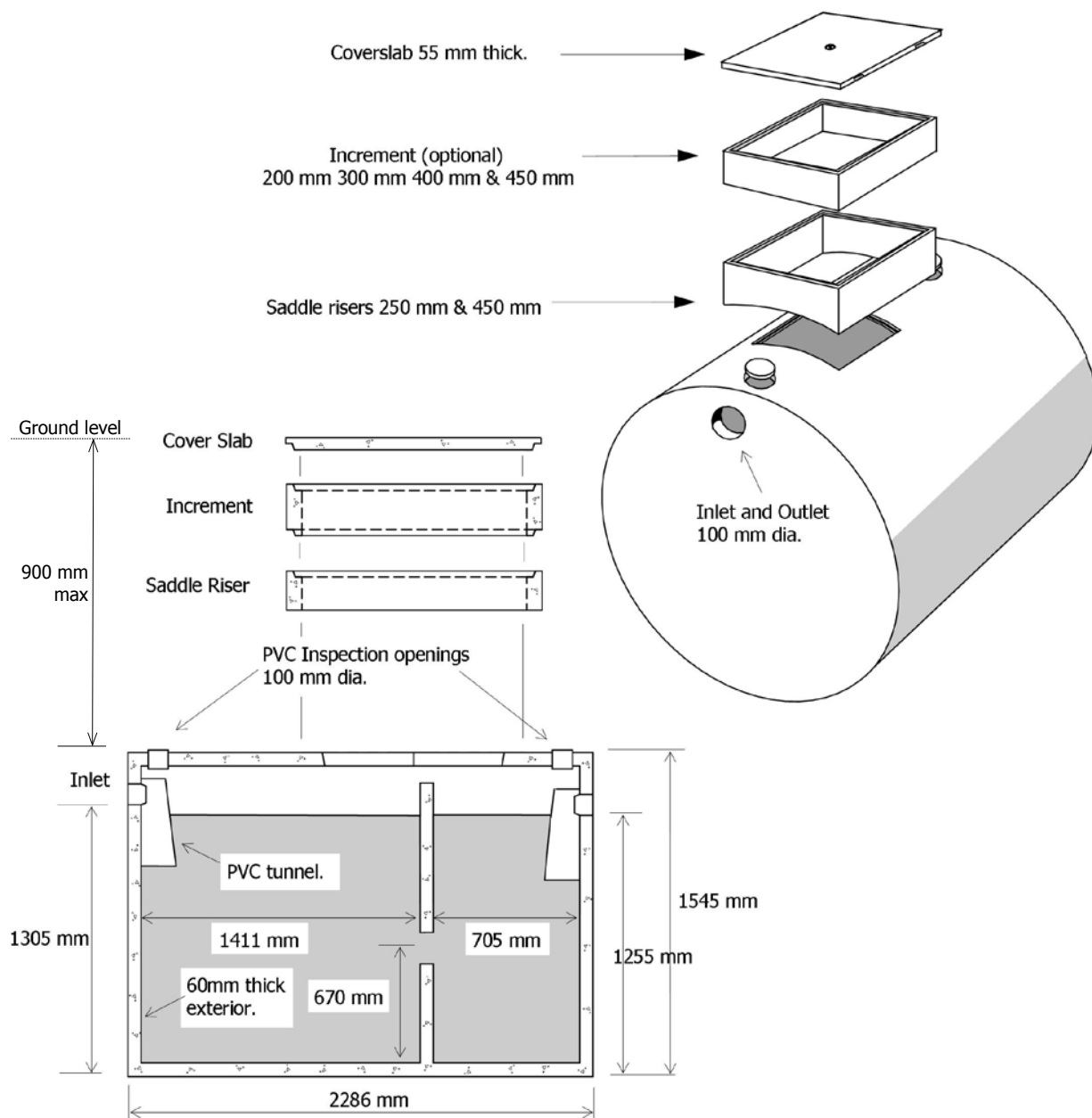
Item	Approx Mass
3,000 litre septic tank (50mm wall)	2,000kg



The tanks have been designed to be buried with the top of the tank located 900mm maximum below ground level and with the cover slab at ground level.

Septic tank • 3,000 litre, 60mm wall

Item	Approx Mass
3,000 litre septic tank (60mm wall)	2,300kg

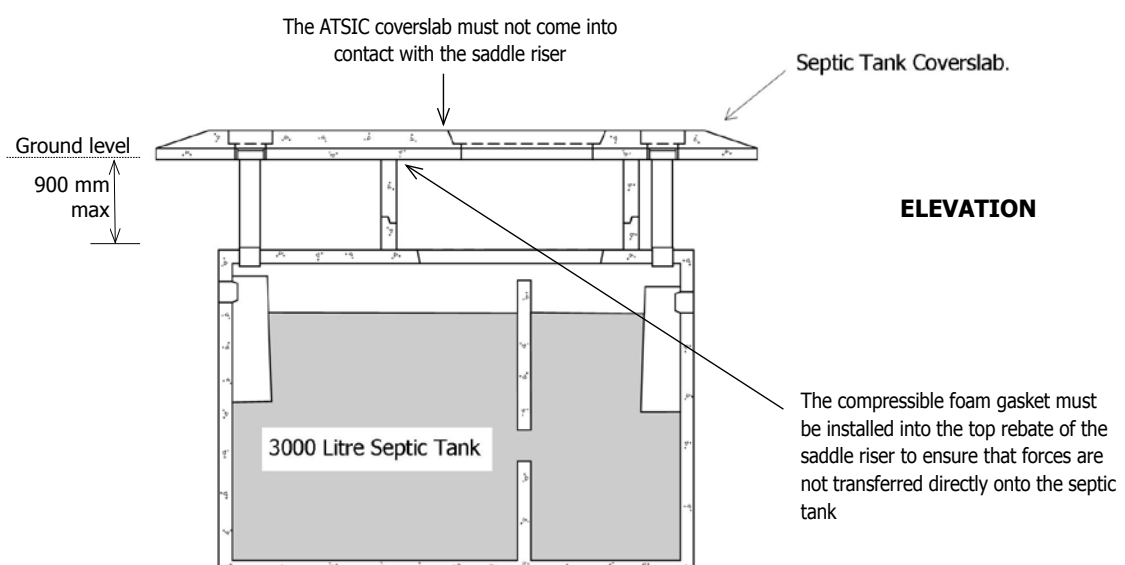
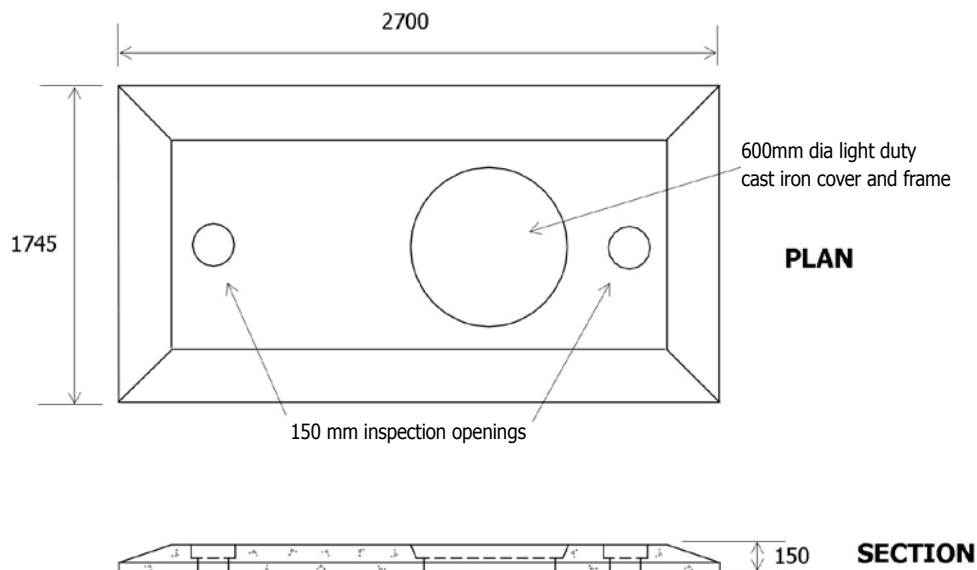


The tanks have been designed to be buried with the top of the tank located 900mm maximum below ground level and with the cover slab at ground level.

ATSIC coverslab • 3,000 litre septic tank

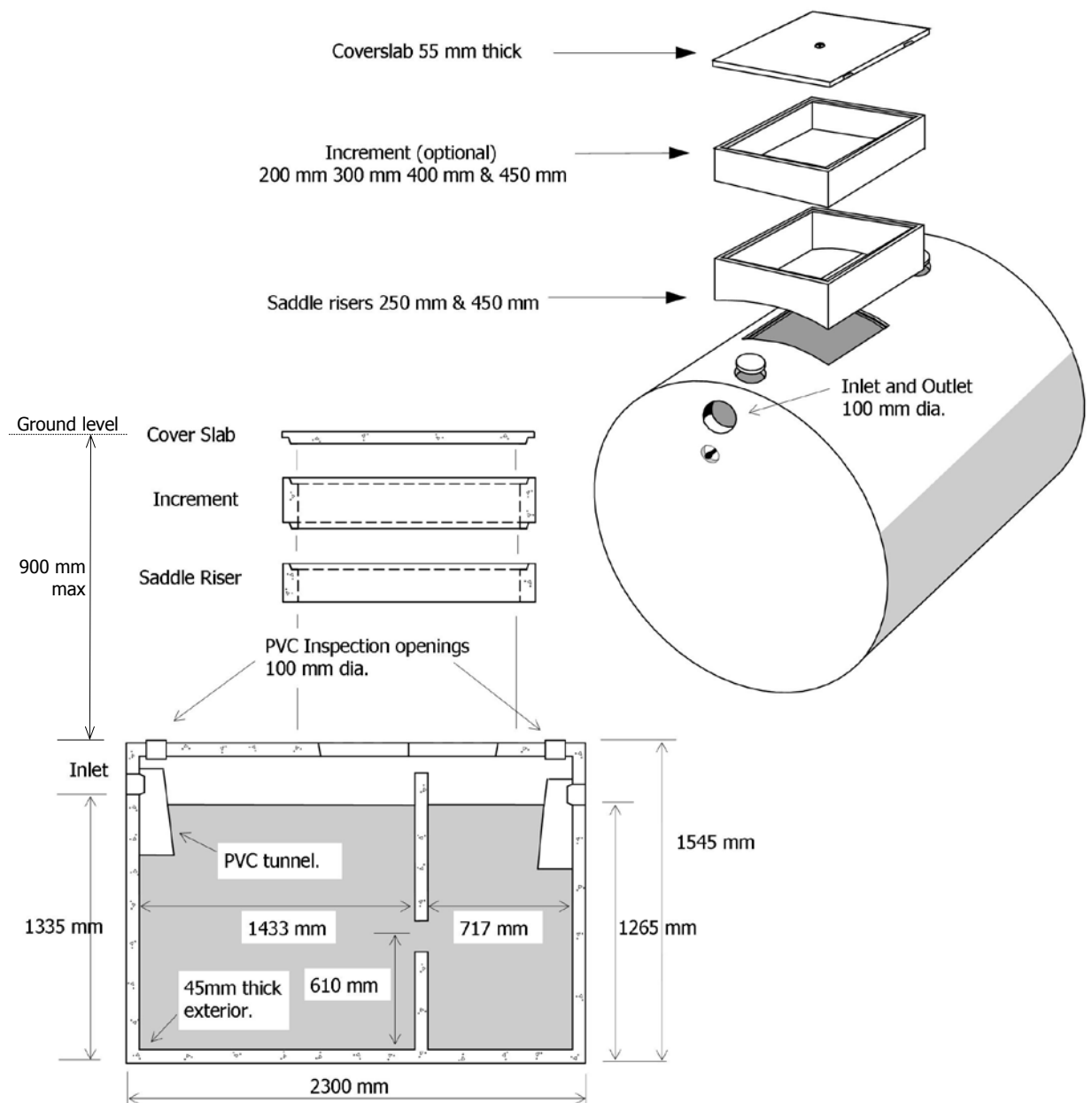
- Class B - light duty unit for use in areas accessible only by cars and light 4WD vehicles with a gross maximum mass of 2670kg
- Designed to span across the saddle riser bearing onto the ground each side of it

Item	Approx Mass
Septic tank coverslab	1,800kg



Septic tank • 3,250 litre

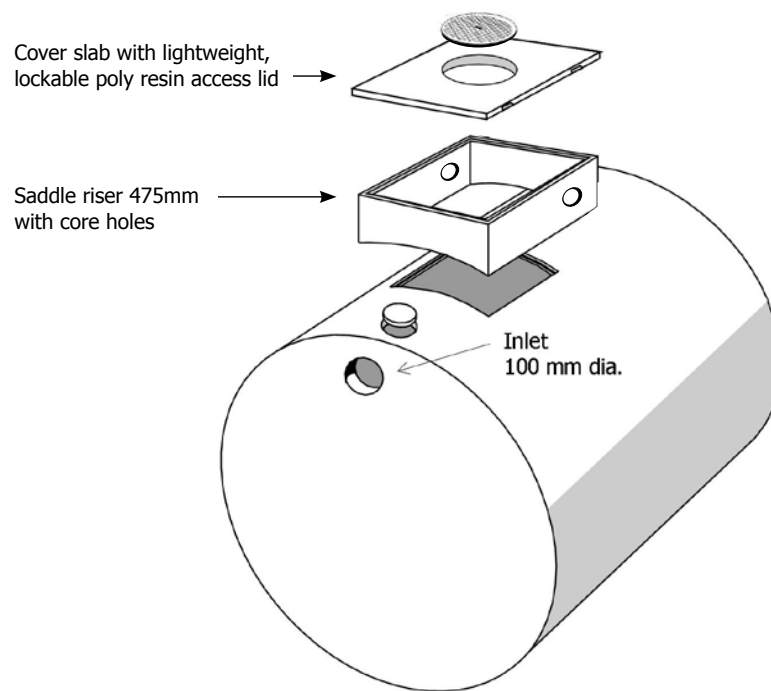
Item	Approx Mass
3,250 litre septic tank	2,140kg



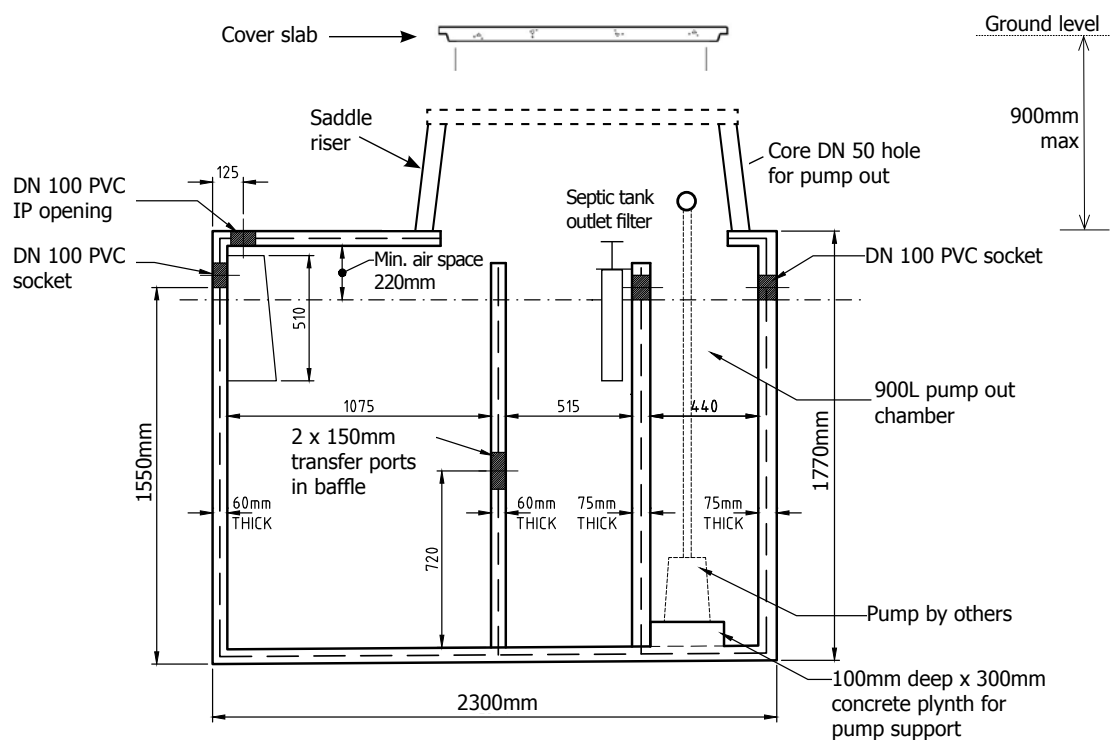
The tanks have been designed to be buried with the top of the tank located 900mm maximum below ground level and with the cover slab at ground level.

Ri-Scape tank • 3,300 litre with 900L pump chamber

Item	Approx Mass
3,300 litre Ri-Scape tank	3,200kg

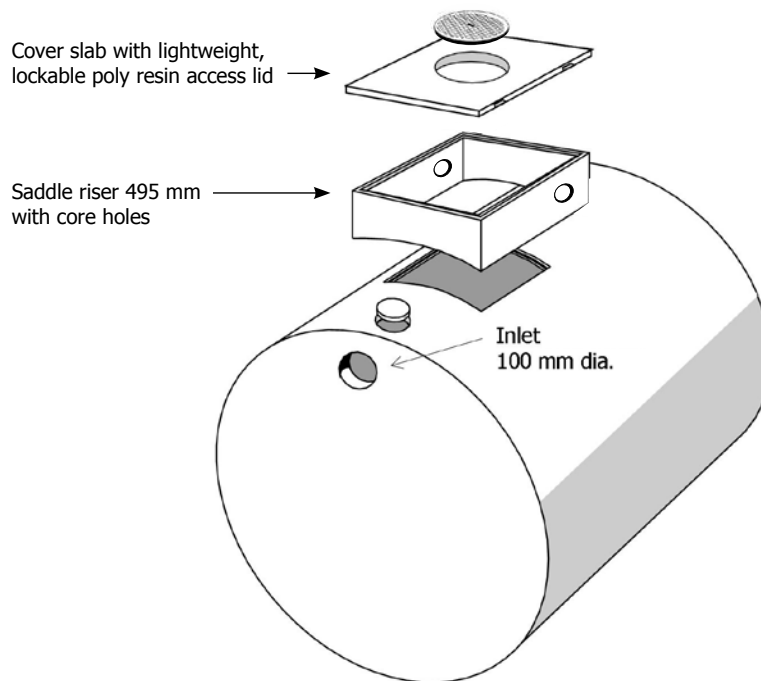


The tanks have been designed to be buried with the top of the tank located 900mm maximum below ground level and with the cover slab at ground level.

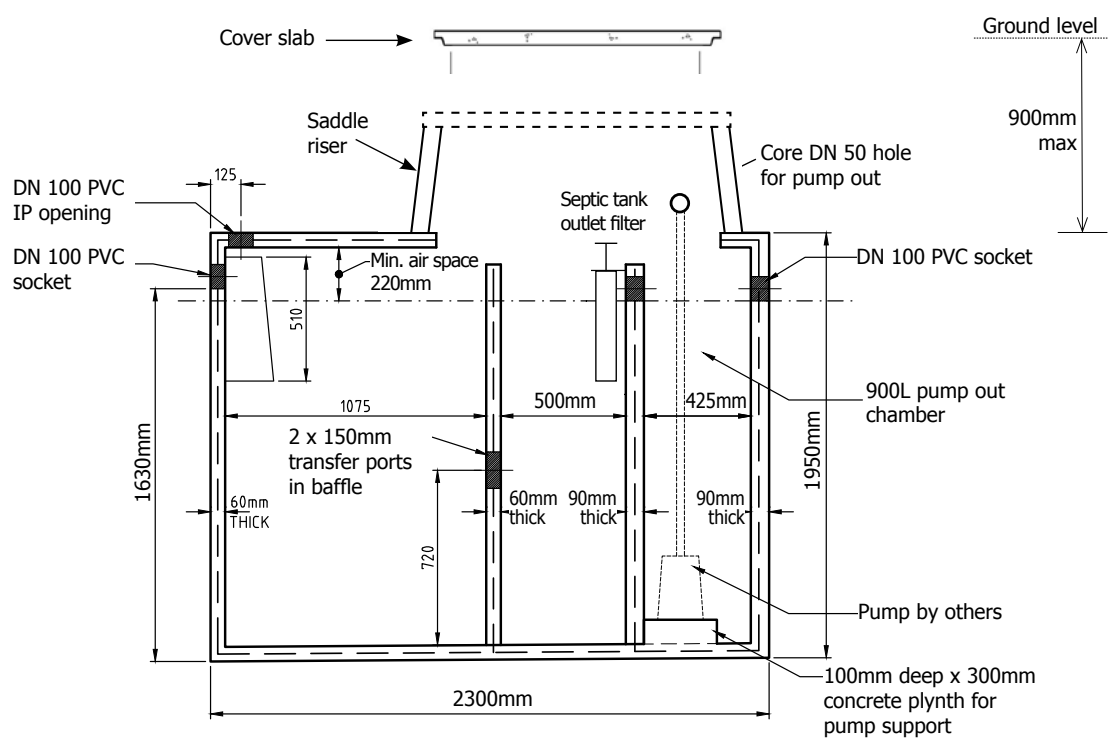


Ri-Scape tank • 4,000 litre with 900L pump chamber

Item	Approx Mass
4,000 litre Ri-Scape tank	3,700kg

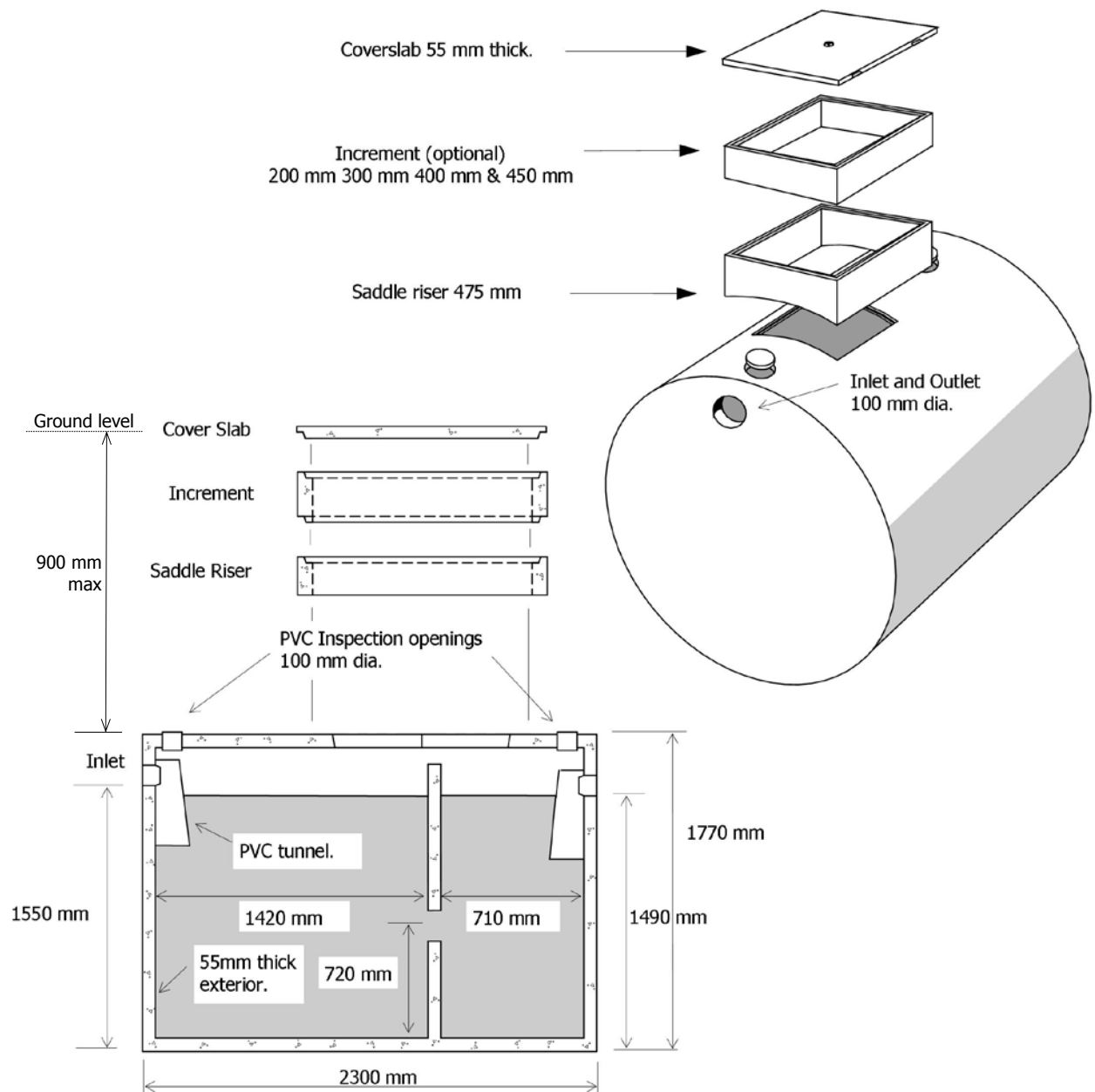


The tanks have been designed to be buried with the top of the tank located 900mm maximum below ground level and with the cover slab at ground level.



Septic tank • 4,300 litre

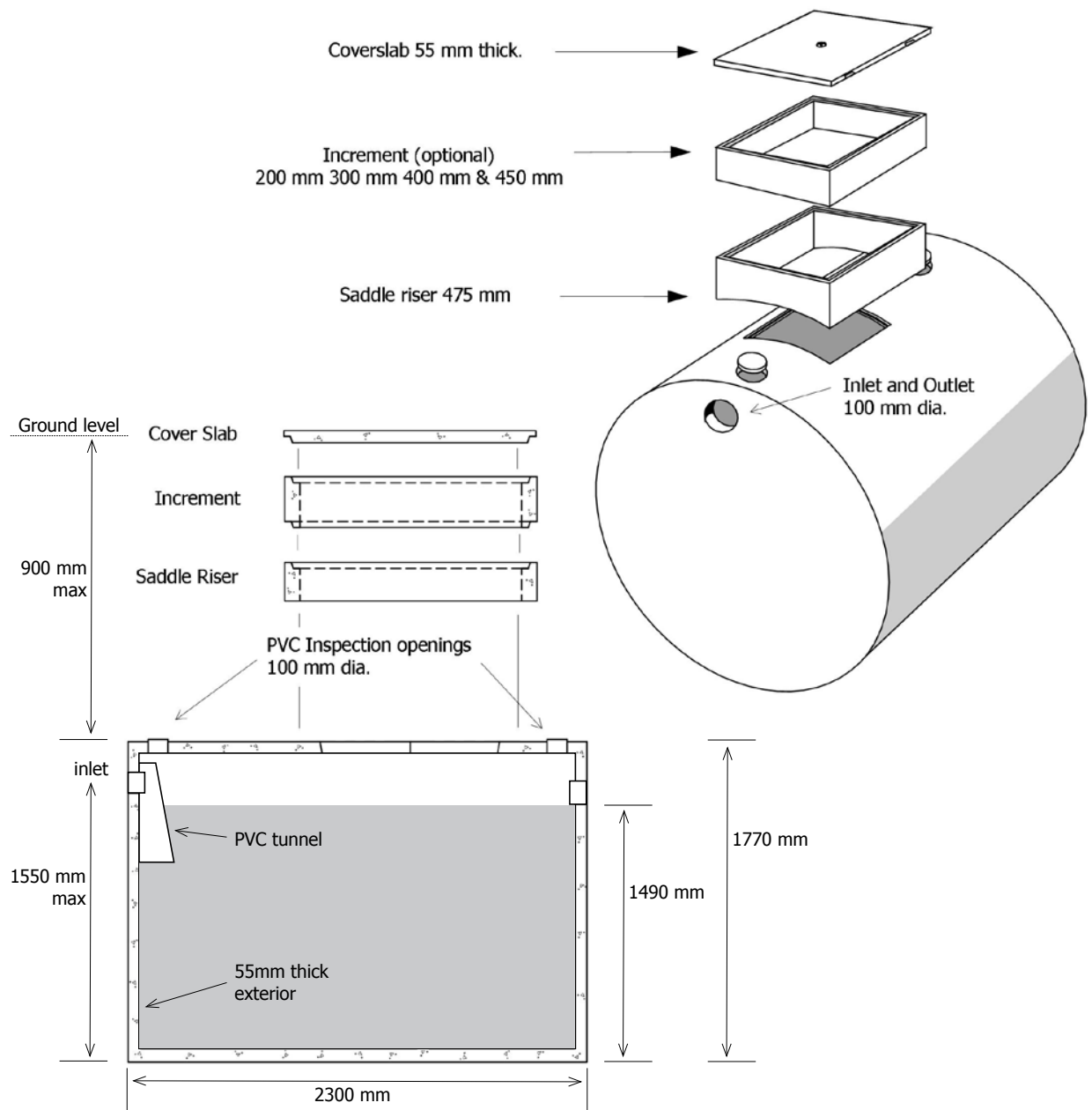
Item	Approx Mass
4,300 litre septic tank	2,700kg



The tanks have been designed to be buried with the top of the tank located 900 mm maximum below ground level and with the cover slab at ground level.

Holding tank • 4,300 litre

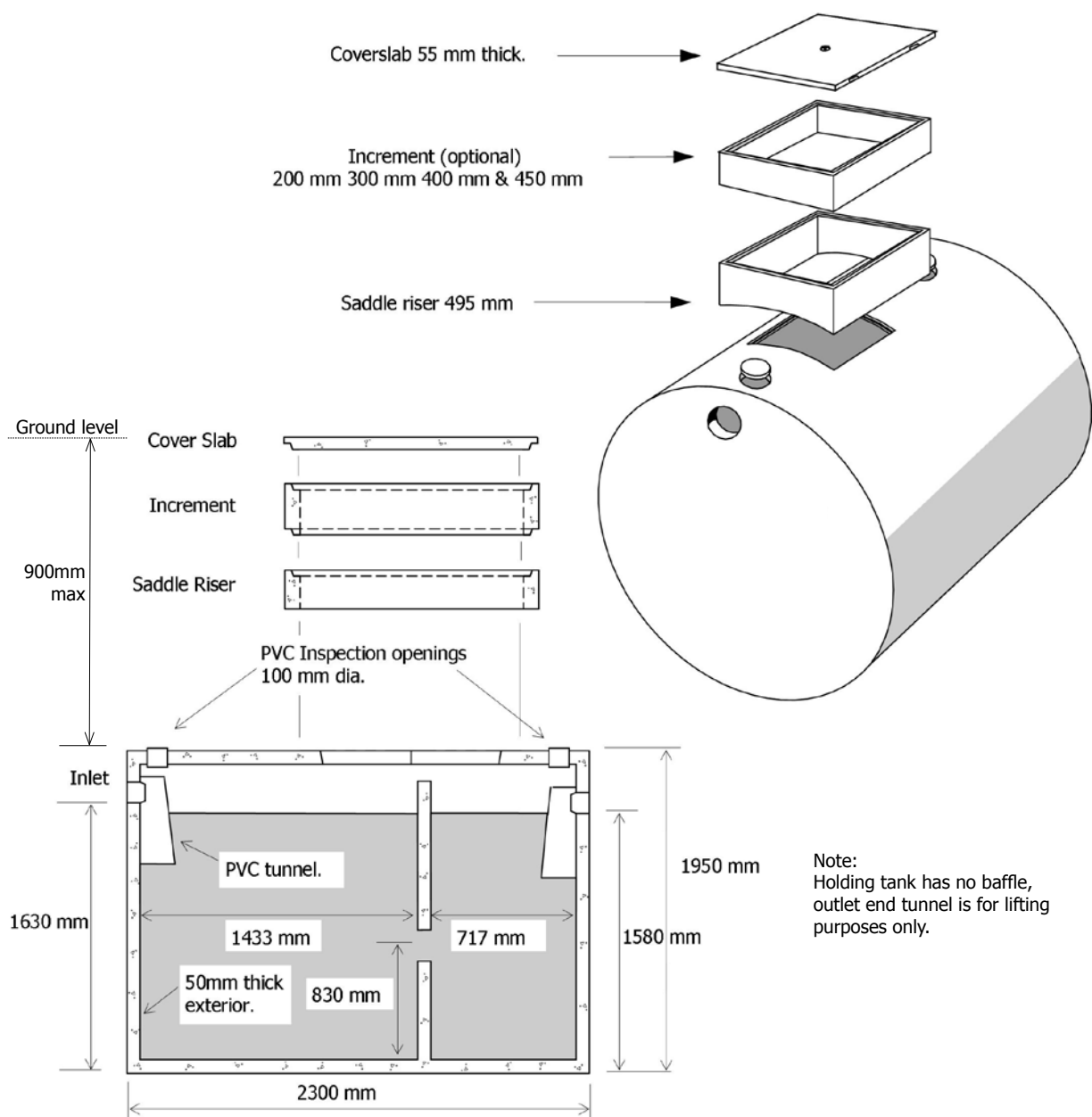
Item	Approx Mass
4,300 litre holding tank	2,200kg



The tanks have been designed to be buried with the top of the tank located 900 mm maximum below ground level and with the cover slab at ground level.

Septic tank • 5,000 litre

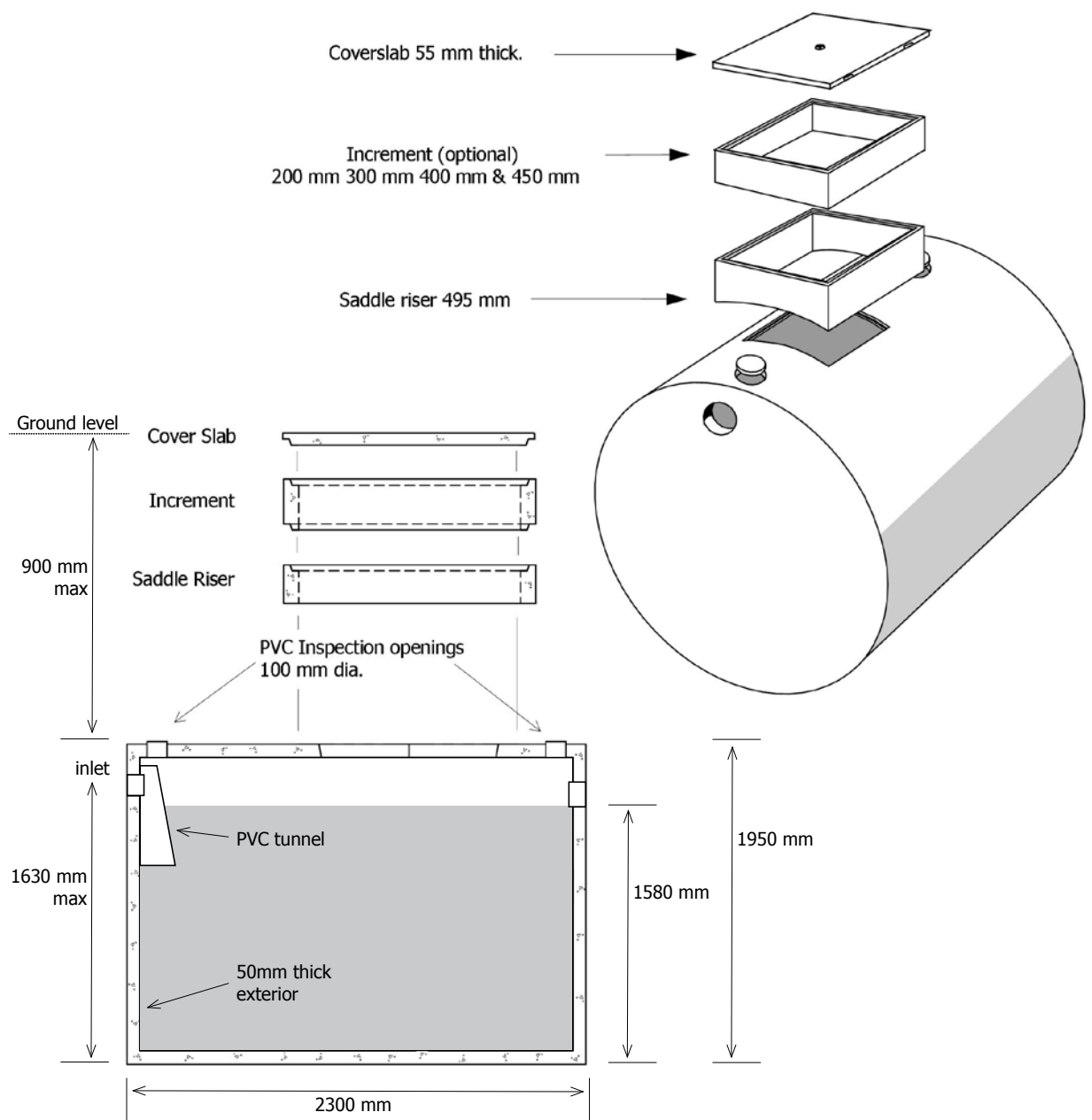
Item	Approx Mass
5,000 litre septic tank	3,000kg



The tanks have been designed to be buried with the top of the tank located 900mm maximum below ground level and with the cover slab at ground level.

Holding tank • 5,000 litre

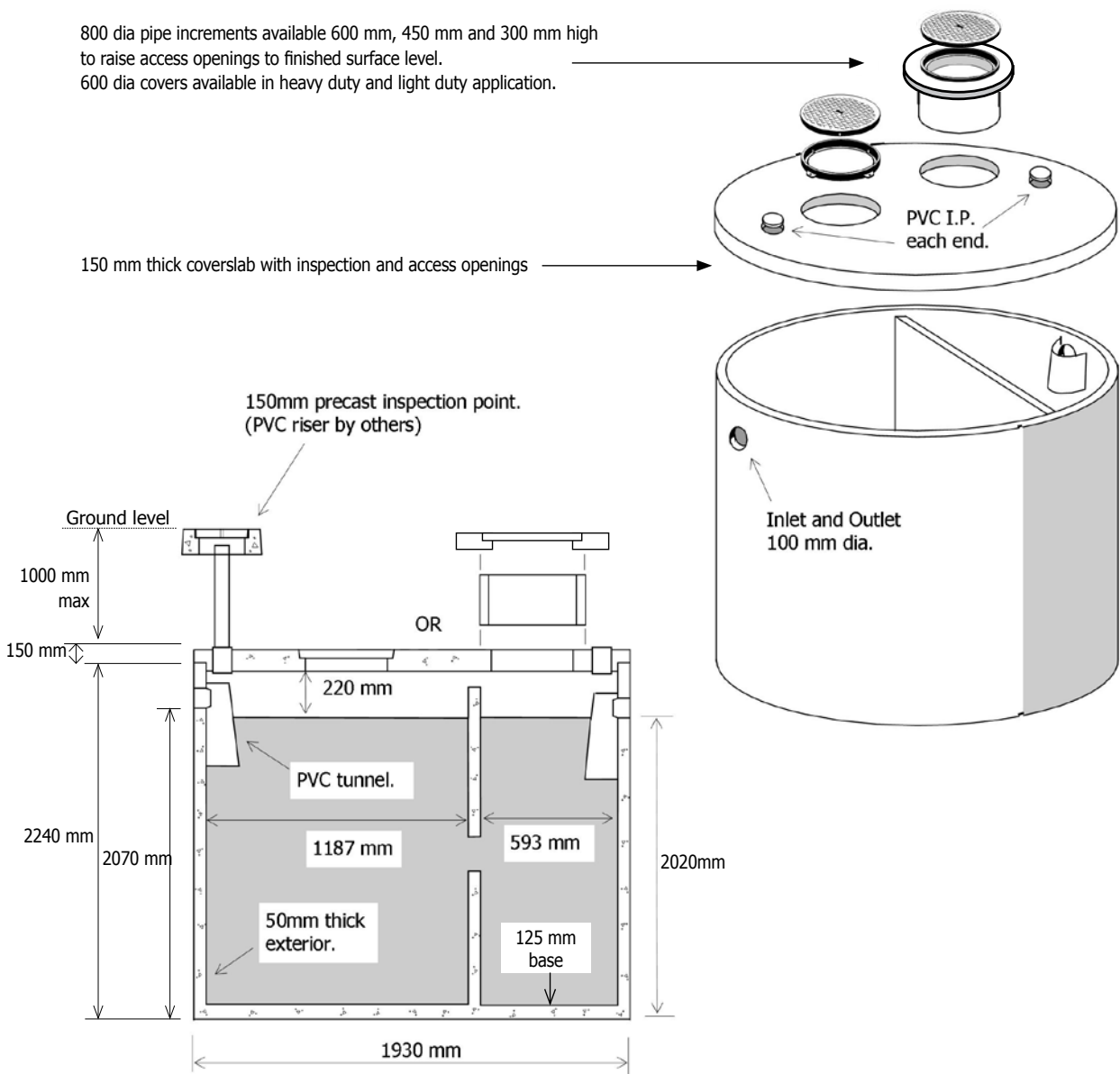
Item	Approx Mass
5,000 litre holding tank	2,700kg



The tanks have been designed to be buried with the top of the tank located 900 mm maximum below ground level and with the cover slab at ground level.

Non-trafficable vertical septic tank • 5,000 litre

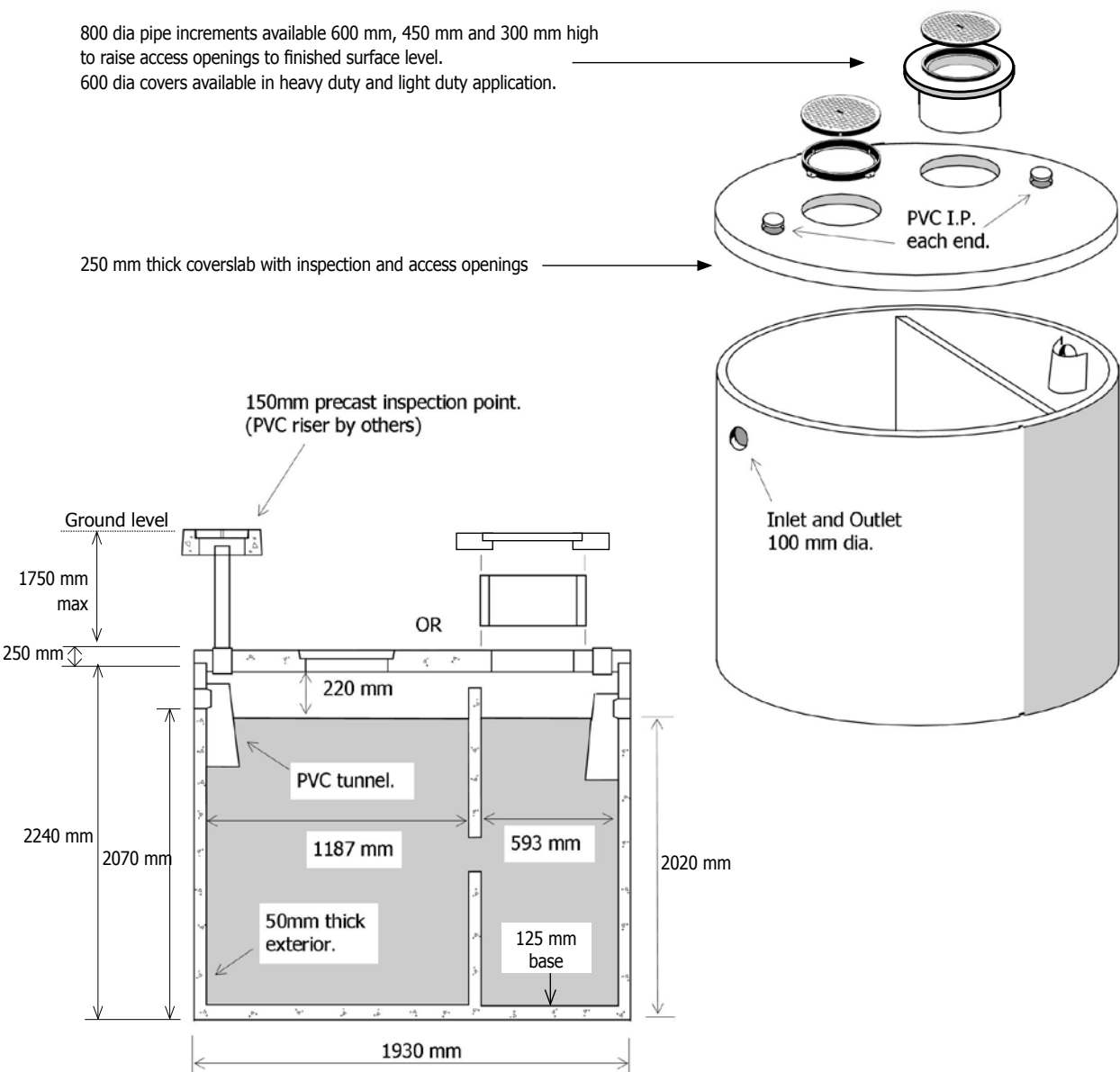
Item	Approx Mass
5,000 litre vertical septic tank base with baffle	3,500kg
5,000 litre vertical septic tank lid	1,200kg



The non-trafficable cover slabs (150 mm thick) have been designed to be buried a maximum of 1000 mm below ground level.

Trafficable vertical septic tank • 5,000 litre

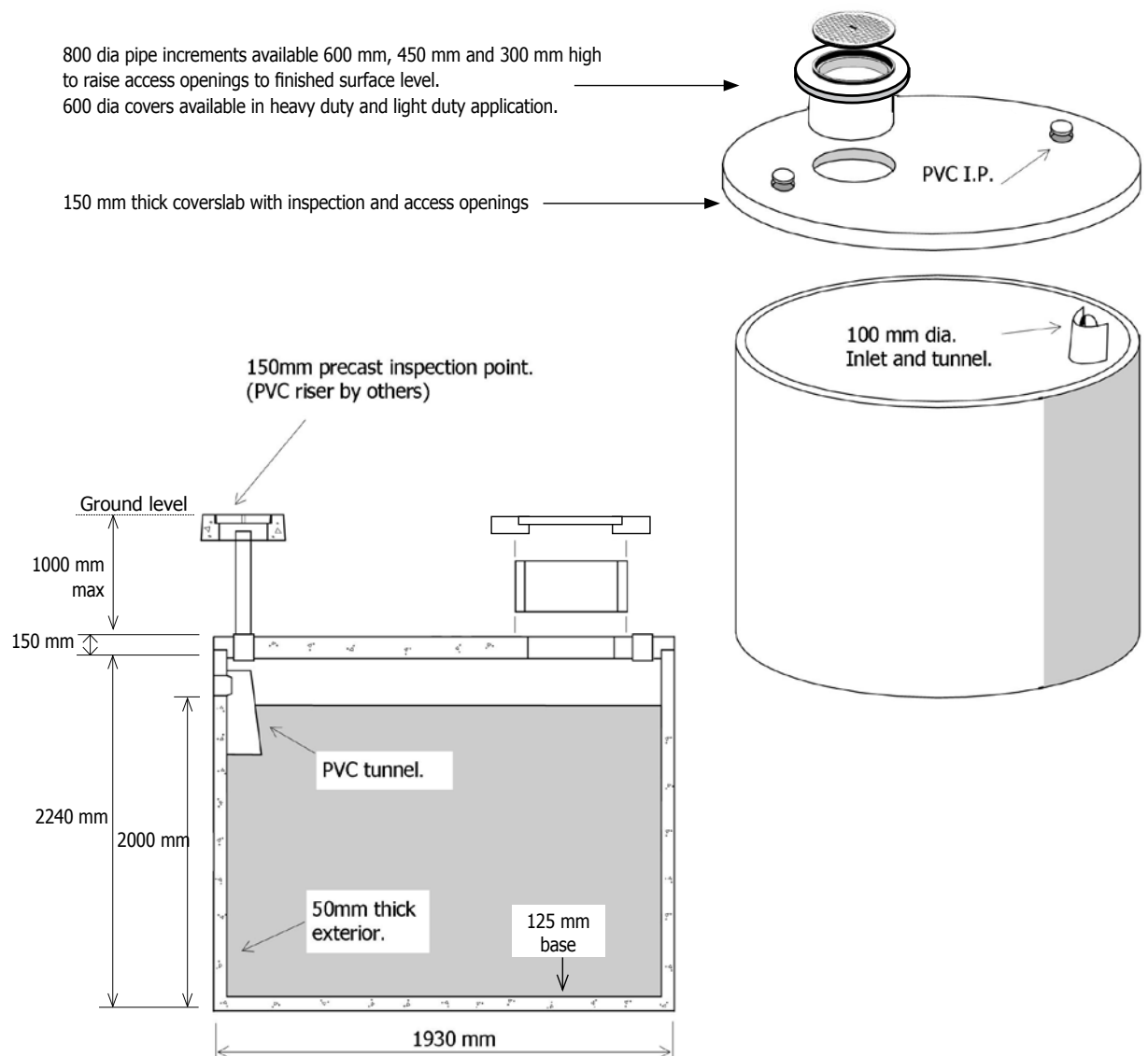
Item	Approx Mass
5,000 litre vertical septic tank base with baffle	3,500kg
5,000 litre vertical septic tank lid	2,000kg



The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Non-trafficable vertical holding tank • 5,000 litre

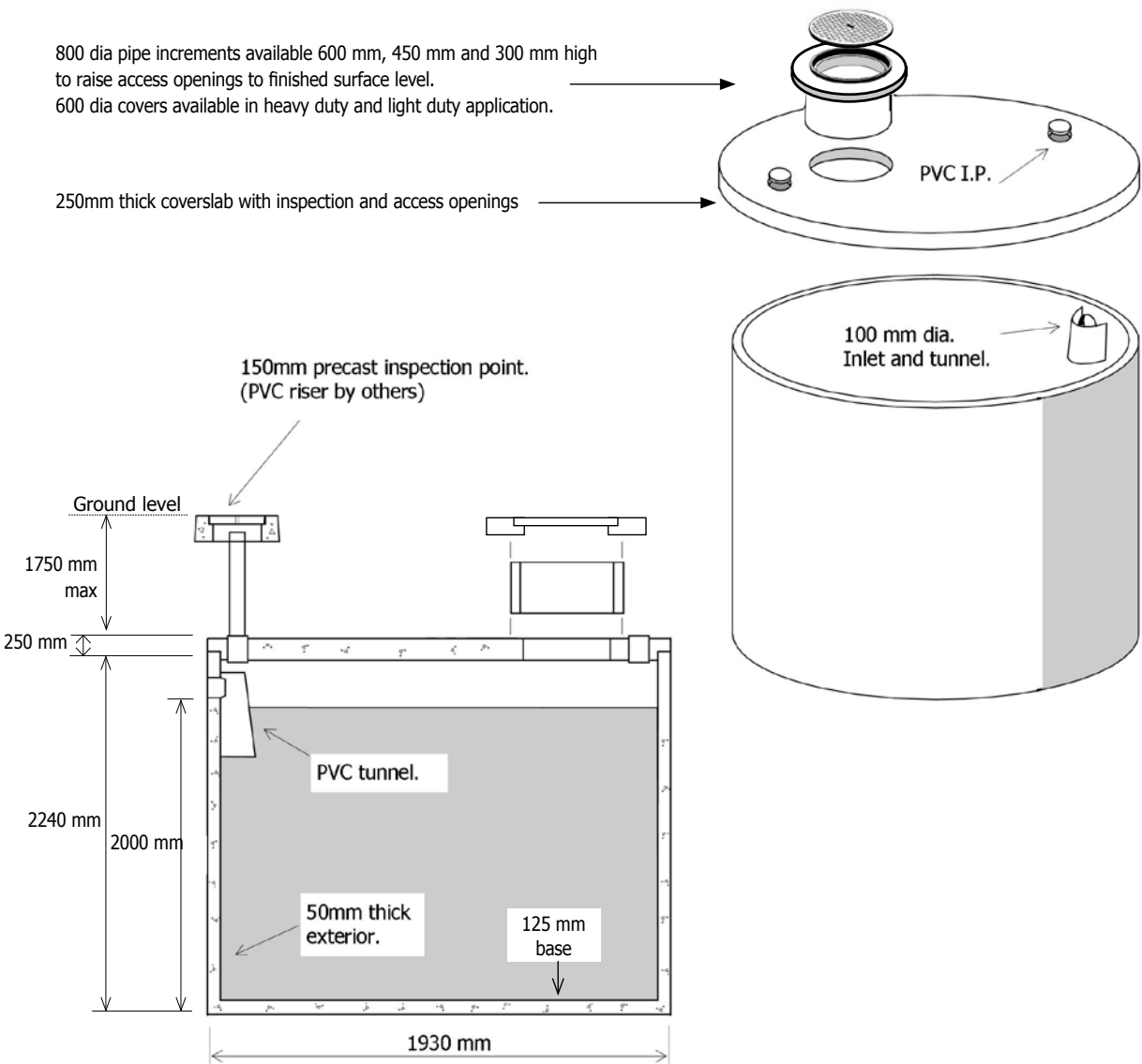
Item	Approx Mass
5,000 litre vertical holding tank base	3,000kg
5,000 litre vertical holding tank lid	1,100kg



The non-trafficable cover slabs (150 mm thick) have been designed to be buried a maximum of 1000 mm below ground level.

Trafficable vertical holding tank • 5,000 litre

Item	Approx Mass
5,000 litre vertical holding tank base	3,000kg
5,000 litre vertical holding tank lid	1,850kg



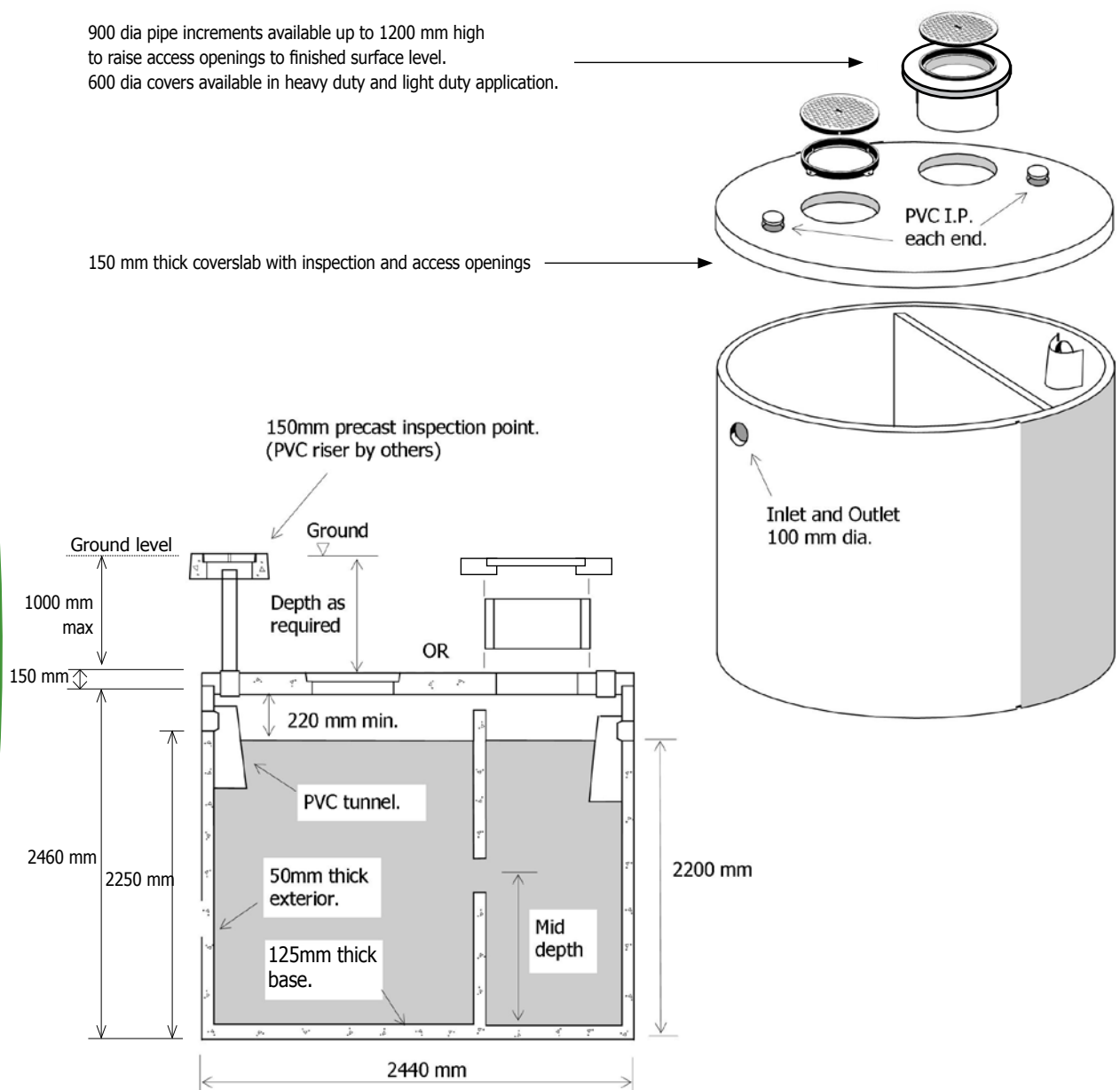
The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Non-trafficable septic tank • 8,000 litre

Item	Approx Mass
8,000 litre vertical septic tank base with baffle	4,850kg
8,000 litre vertical septic tank lid	1,800kg

900 dia pipe increments available up to 1200 mm high to raise access openings to finished surface level.
600 dia covers available in heavy duty and light duty application.

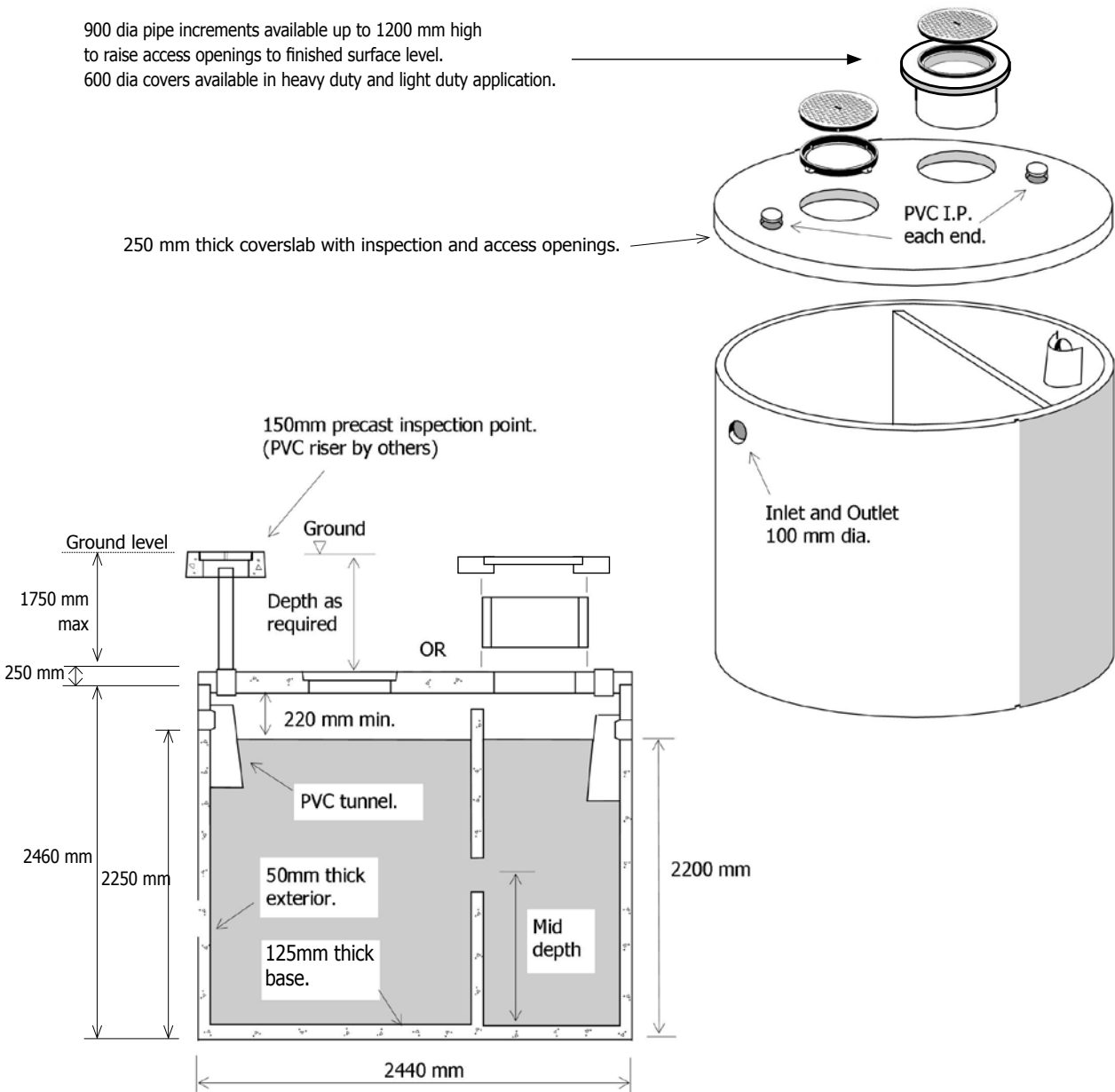
150 mm thick coverslab with inspection and access openings



The non-trafficable cover slabs (150mm thick) have been designed to be buried a maximum of 1000mm below ground level.

Trafficable septic tank • 8,000 litre

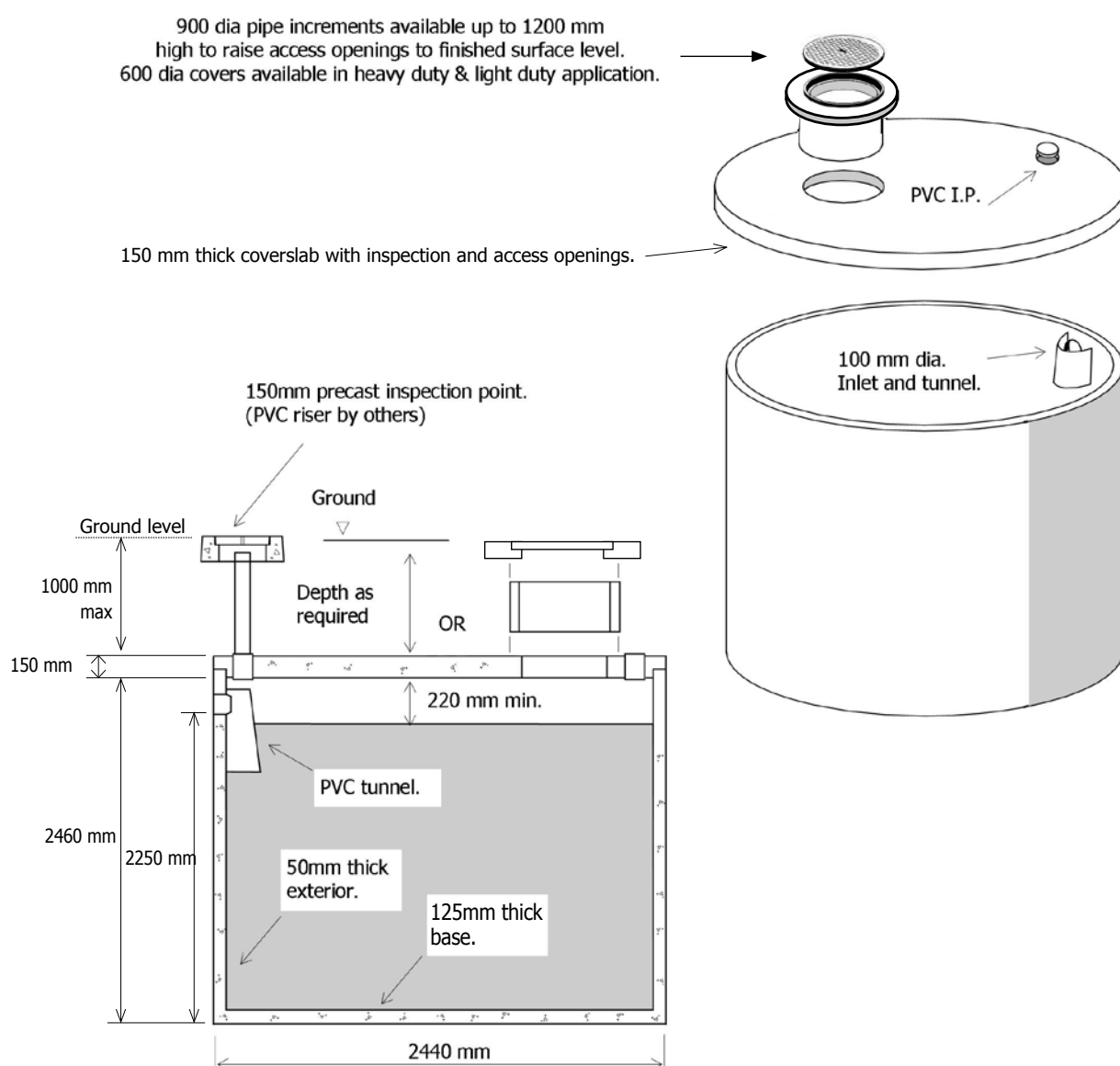
Item	Approx Mass
8,000 litre vertical septic tank base with baffle	4,850kg
8,000 litre vertical septic tank lid	3,000kg



The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Non-trafficable vertical holding tank • 8,000 litre

Item	Approx Mass
8,000 litre vertical holding tank base	4,000kg
8,000 litre vertical holding tank lid	1,800kg



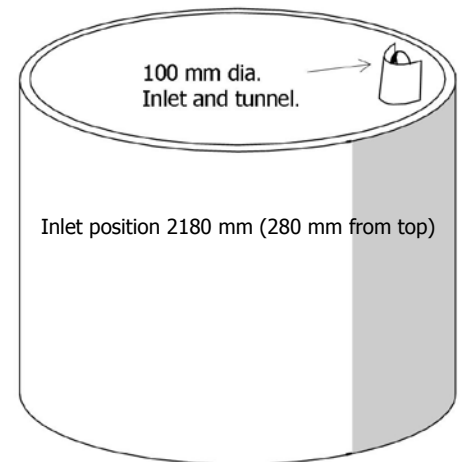
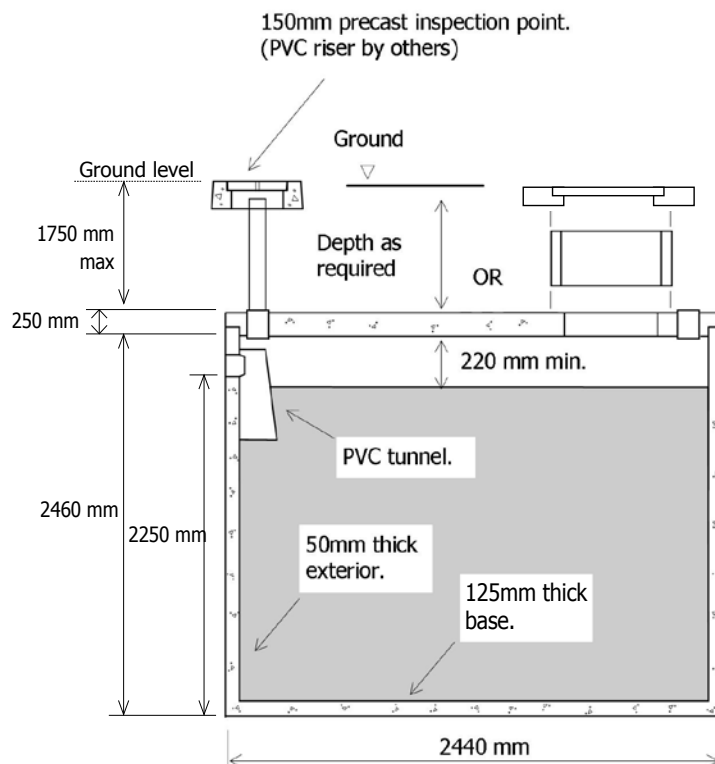
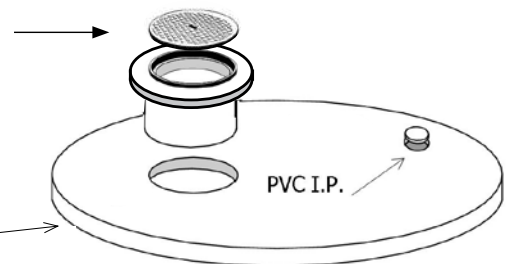
The non-trafficable cover slabs (150 mm thick) have been designed to be buried a maximum of 1000 mm below ground level.

Trafficable vertical holding tank • 8,000 litre

Item	Approx Mass
8,000 litre vertical holding tank base	4,000kg
8,000 litre vertical holding tank lid	2,900kg

900 dia pipe increments available up to 1200 mm high to raise access openings to finished surface level.
600 dia covers available in heavy duty & light duty application.

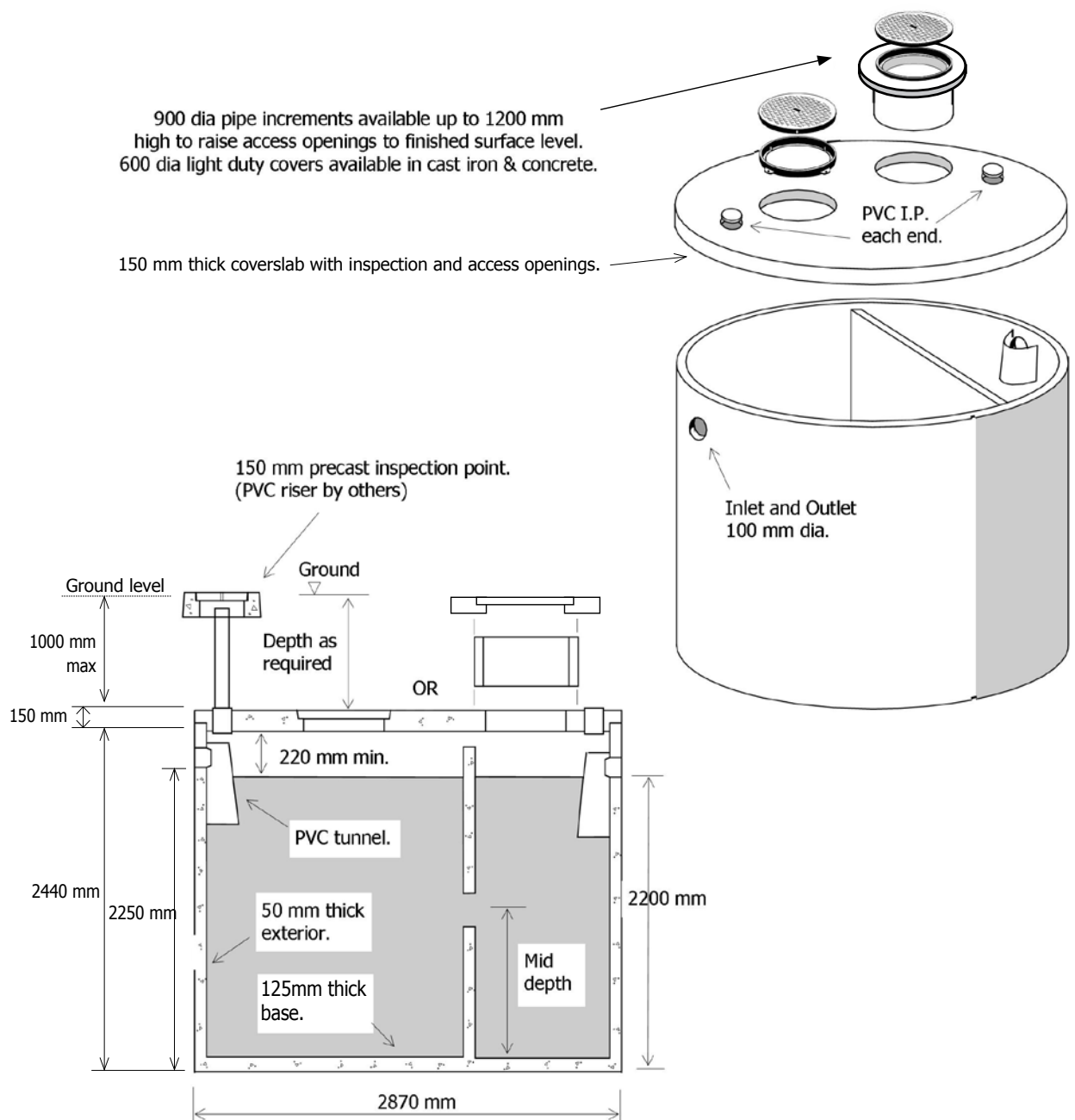
250 mm thick coverslab with inspection and access openings.



The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Non-trafficable septic tank • 12,000 litre

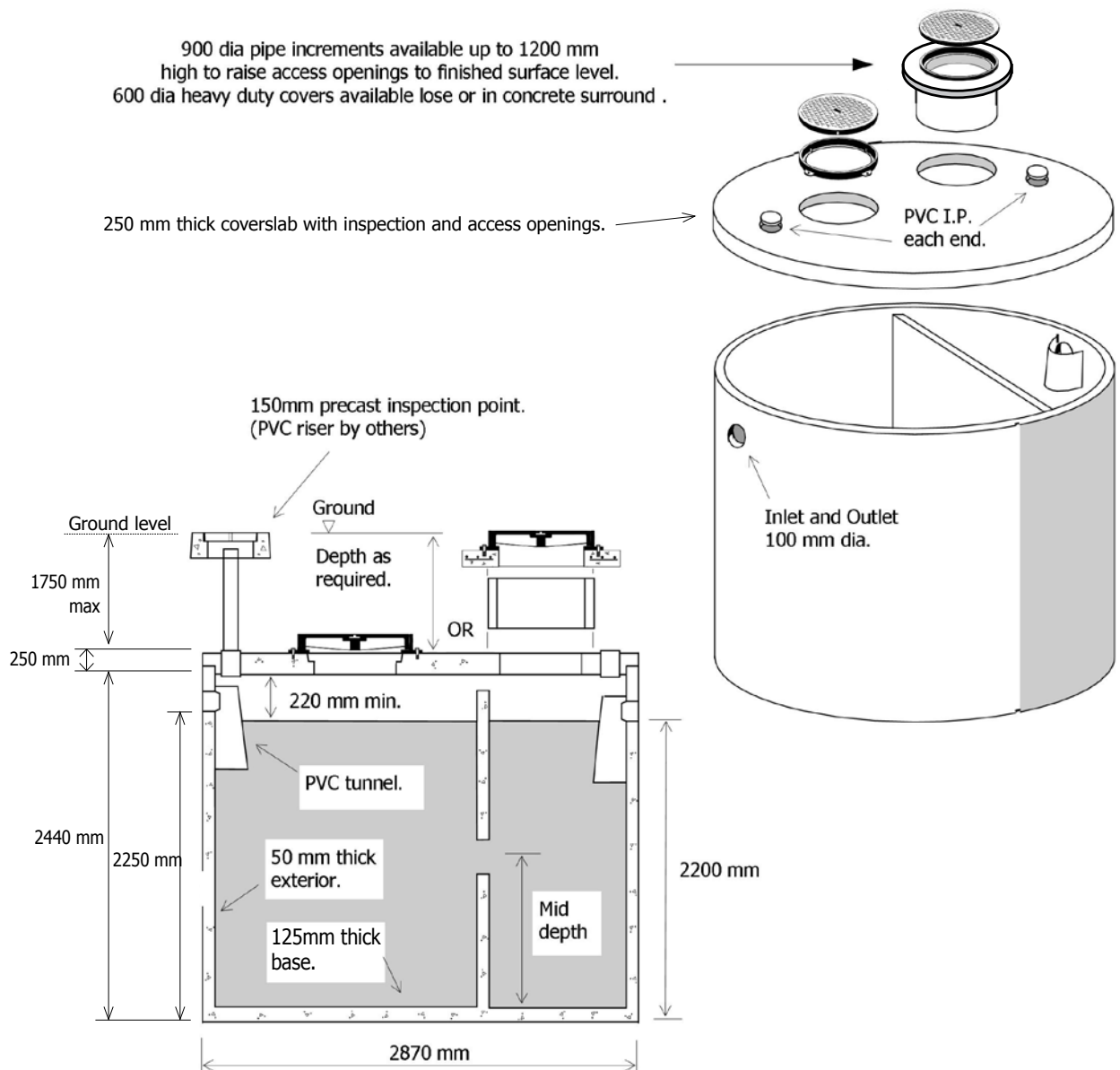
Item	Approx Mass
12,000 litre vertical septic tank base with baffle	6,300kg
12,000 litre vertical septic tank lid	2,500kg



The non-trafficable cover slabs (150 mm thick) have been designed to be buried a maximum of 1000 mm below ground level.

Trafficable septic tank • 12,000 litre

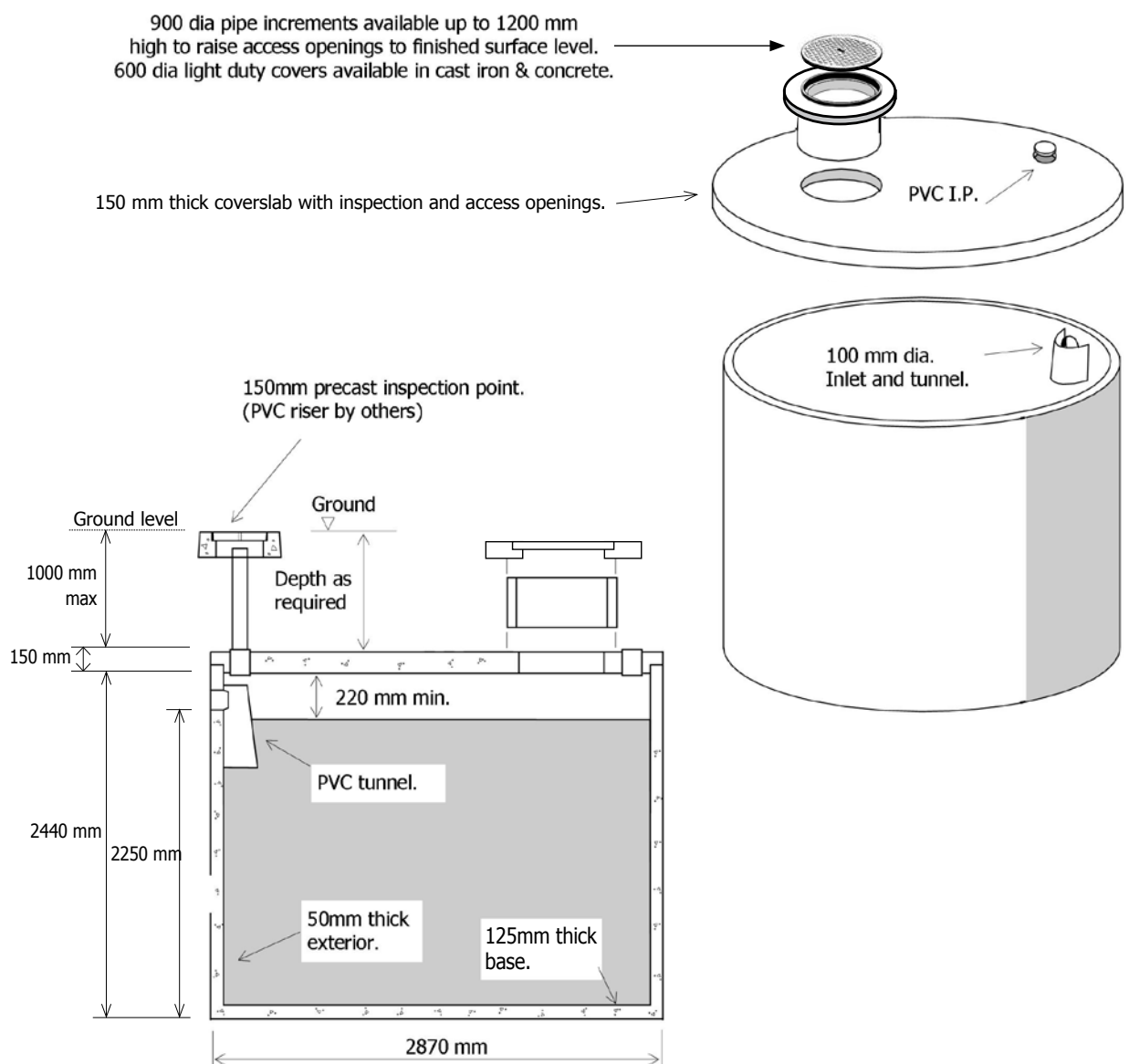
Item	Approx Mass
12,000 litre vertical septic tank base with baffle	6,300kg
12,000 litre vertical septic tank lid	3,850kg



The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Non-trafficable vertical holding tank • 12,000 litre

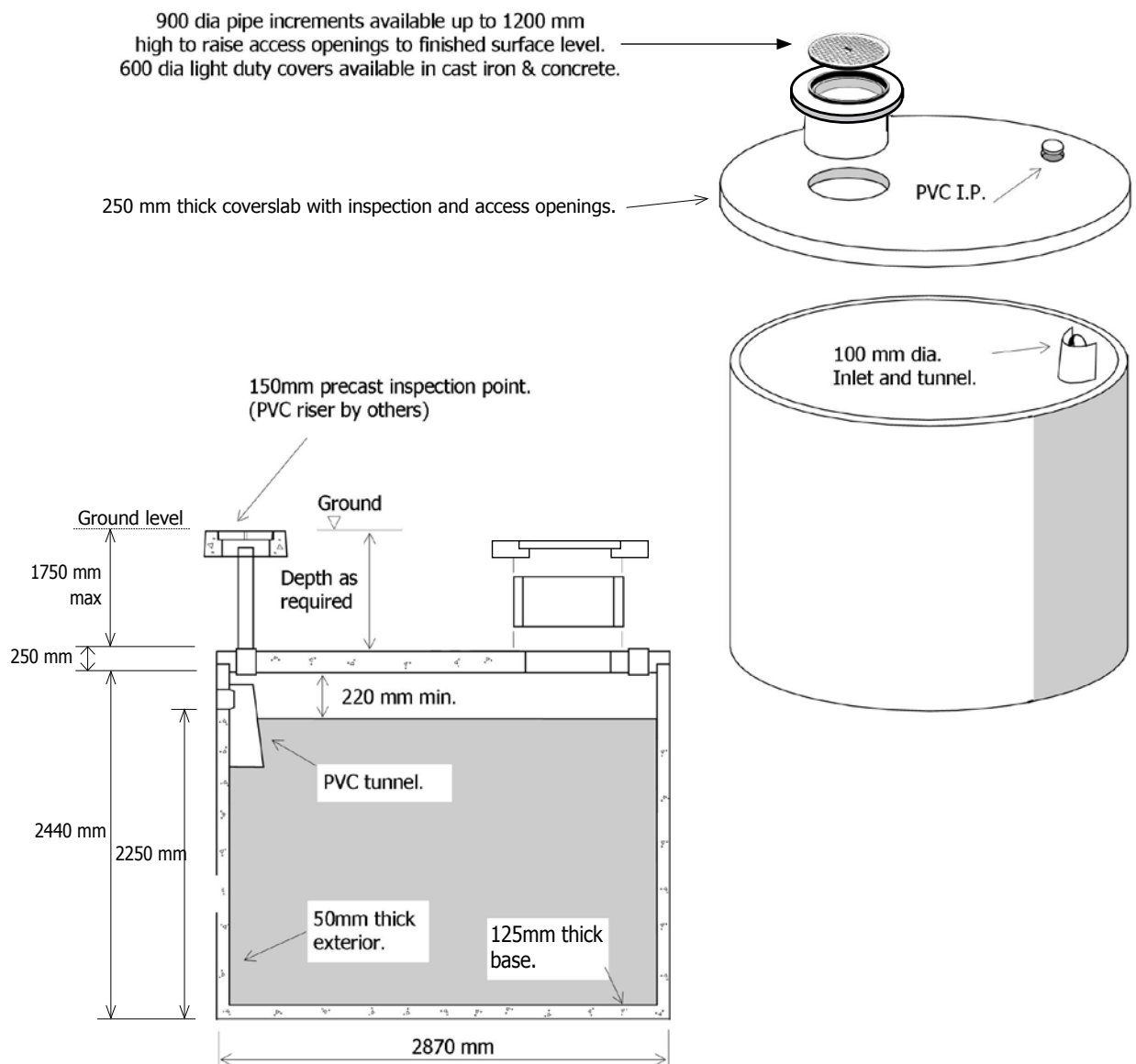
Item	Approx Mass
12,000 litre vertical holding tank base	5,300kg
12,000 litre vertical holding tank lid	2,450kg



The non-trafficable cover slabs (150 mm thick) have been designed to be buried a maximum of 1000 mm below ground level.

Trafficable vertical holding tank • 12,000 litre

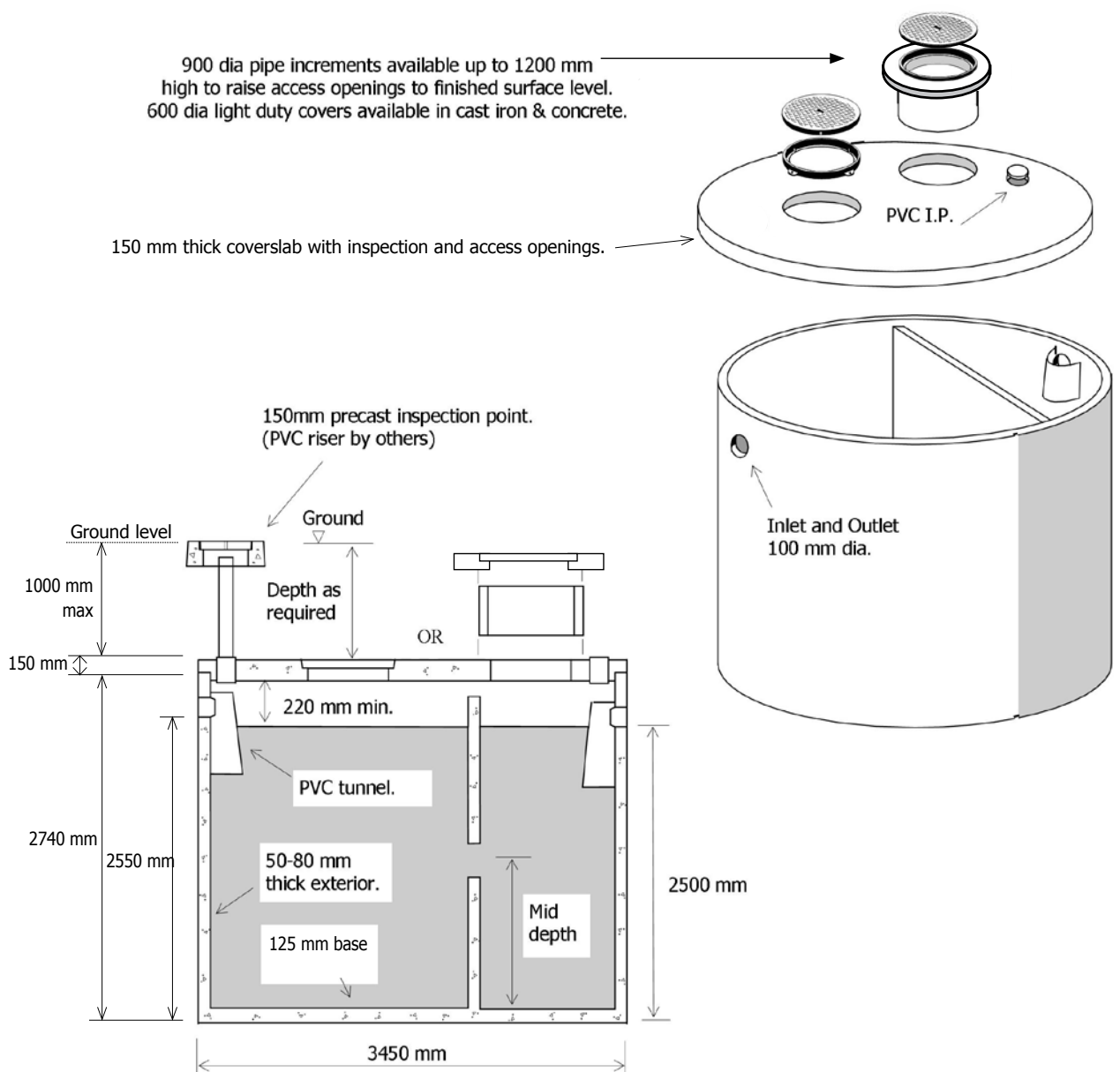
Item	Approx Mass
12,000 litre vertical holding tank base	5,300kg
12,000 litre vertical holding tank lid	3,800kg



The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Non-trafficable septic tank • 20,000 litre

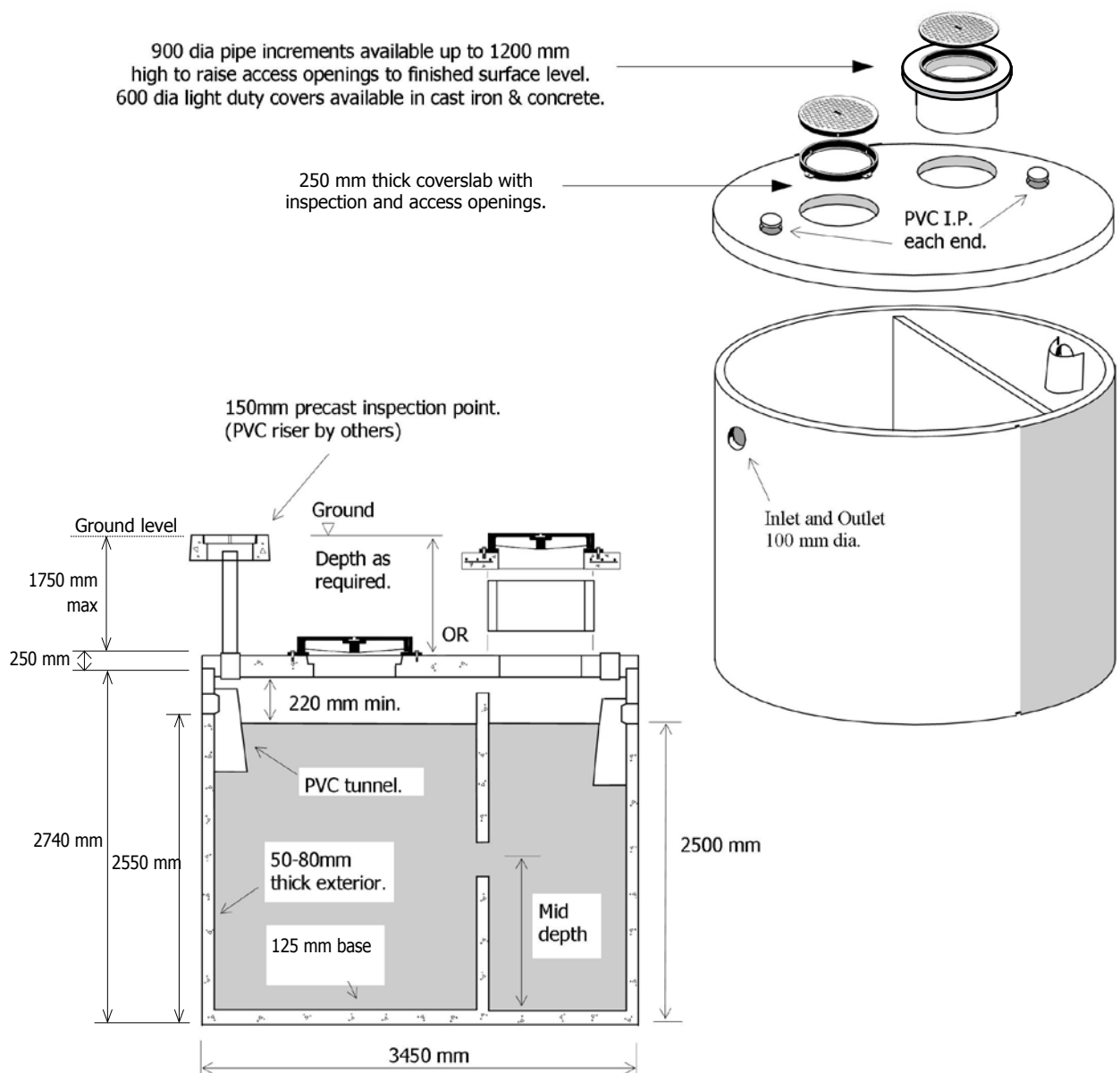
Item	Approx Mass
20,000 litre vertical septic tank base with baffle	9,400kg
20,000 litre vertical septic tank lid	3,300kg



The non-trafficable cover slabs (150 mm thick) have been designed to be buried a maximum of 1000 mm below ground level.

Trafficable septic tank • 20,000 litre

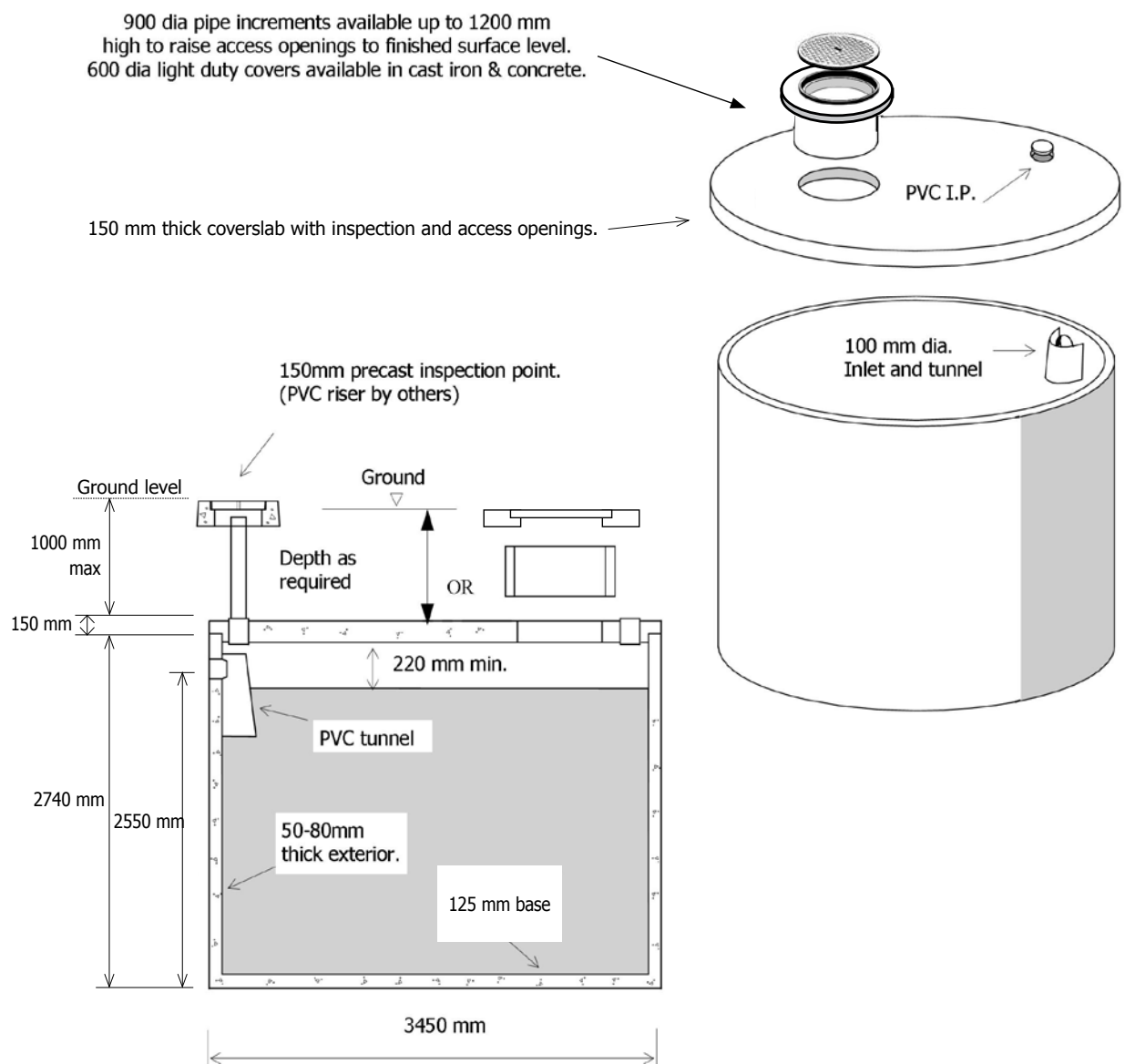
Item	Approx Mass
20,000 litre vertical septic tank base with baffle	9,400kg
20,000 litre vertical septic tank lid	5,800kg



The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Non-trafficable vertical holding tank • 20,000 litre

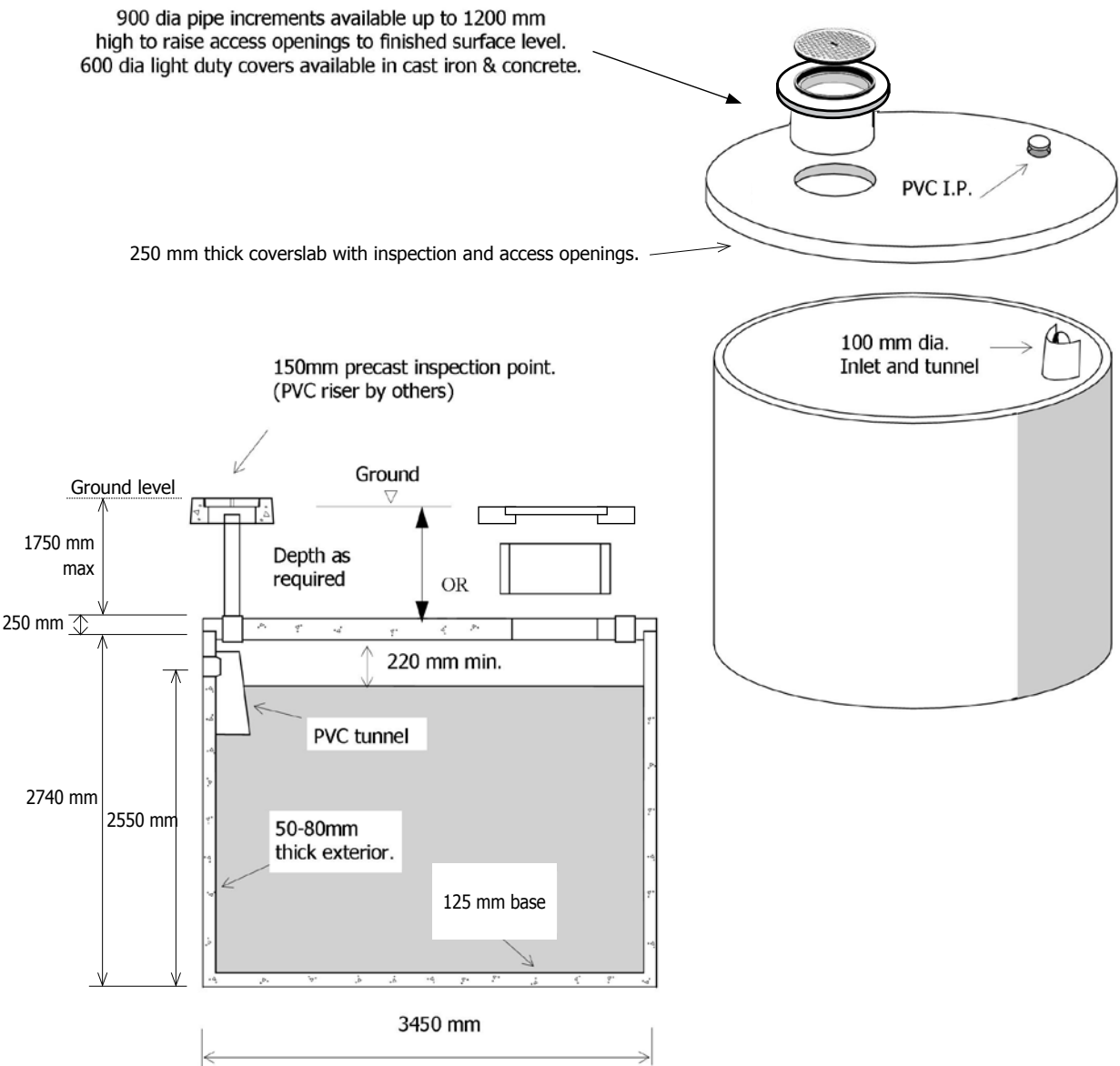
Item	Approx Mass
20,000 litre vertical holding tank base	7,500kg
20,000 litre vertical holding tank lid	3,300kg



The non-trafficable cover slabs (150 mm thick) have been designed to be buried a maximum of 1000 mm below ground level.

Trafficable vertical holding tank • 20,000 litre

Item	Approx Mass
20,000 litre vertical holding tank base	7,500kg
20,000 litre vertical holding tank lid	5,800kg



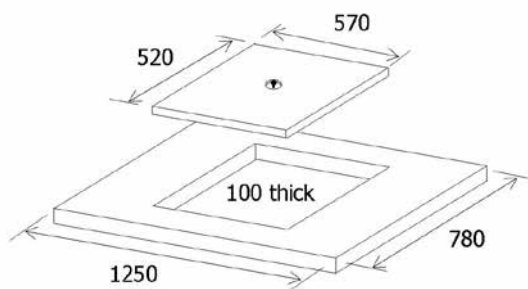
The trafficable cover slabs (250 mm thick) have been designed to be buried a maximum of 1750 mm below ground level.

Saddle risers, increments & coverslabs

- To suit all horizontal septic and holding tanks
- Coverslabs suitable for pedestrian traffic only
- Radius of saddle riser varies to suit tank
- Each component fitted with 1.3t 'Swiftlift' anchors for lifting

TYPE 34

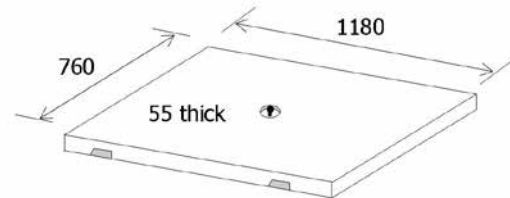
Suitable for 622L pump chamber.



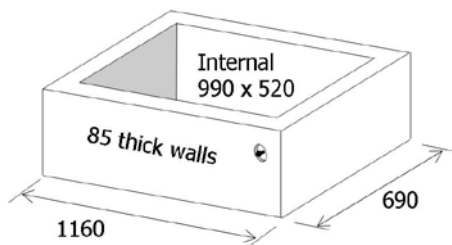
Weight 192kg

TYPE 33

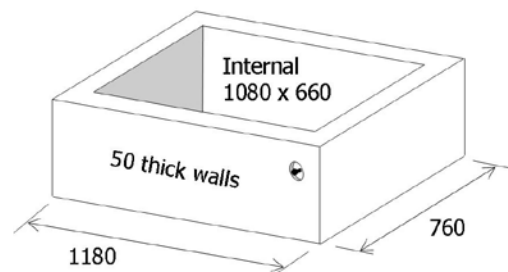
Suitable for all other horizontal tanks.



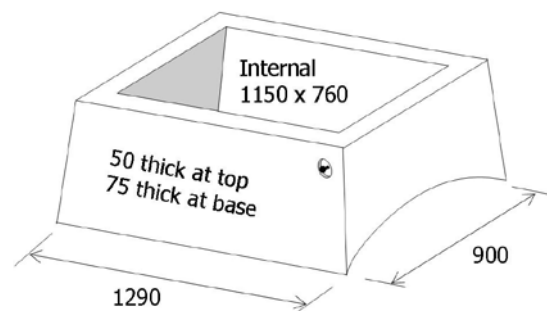
Weight 100kg



200 mm - weight 96kg
450 mm - weight 268kg



200 mm - weight 86kg
300 mm - weight 124kg
400 mm - weight 166kg
450 mm - weight 188kg

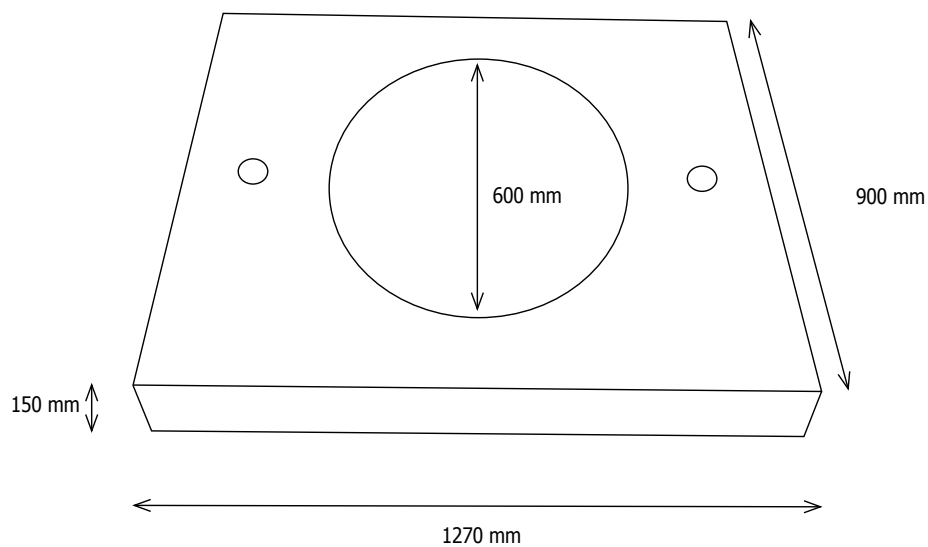


250 mm - weight 235kg
450 mm - weight 320kg
475 mm (4,300 litre) - weight 320kg
495 mm (5,000 litre) - weight 335kg

Small ATSIC coverslab (non-trafficable)

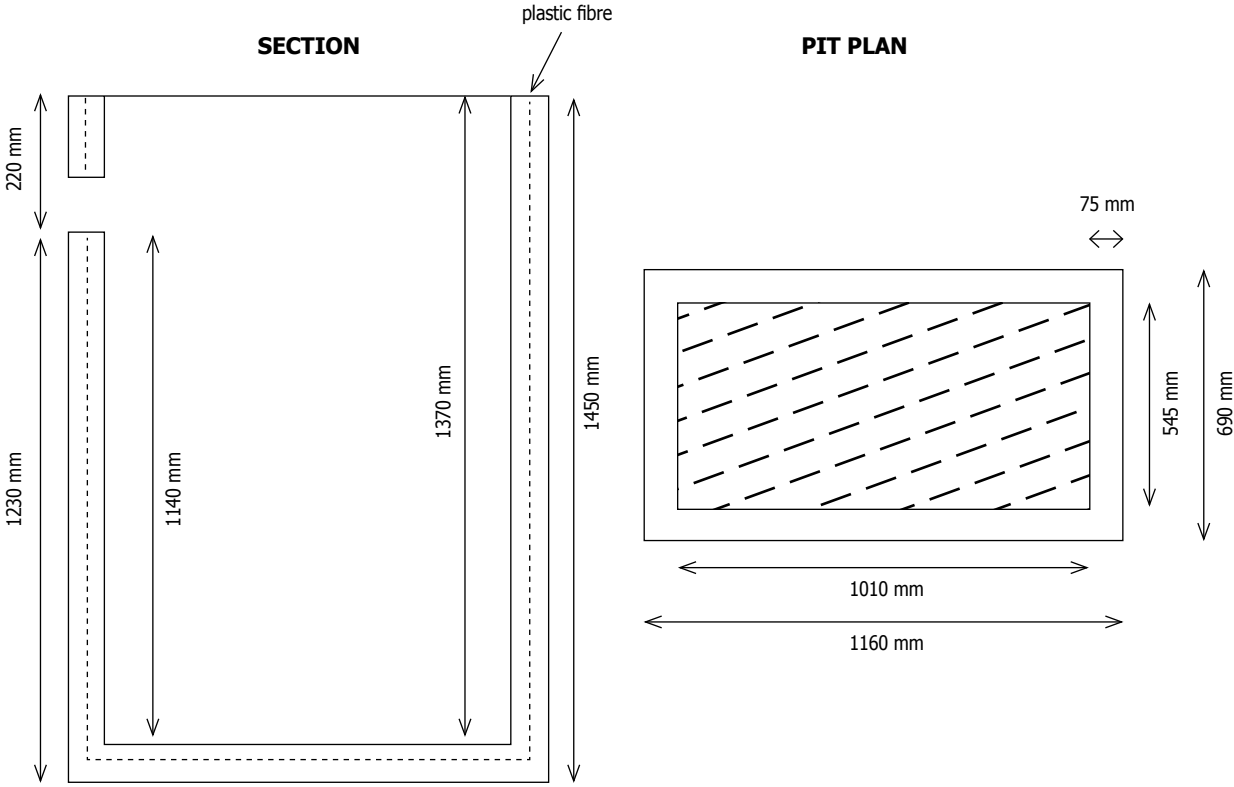
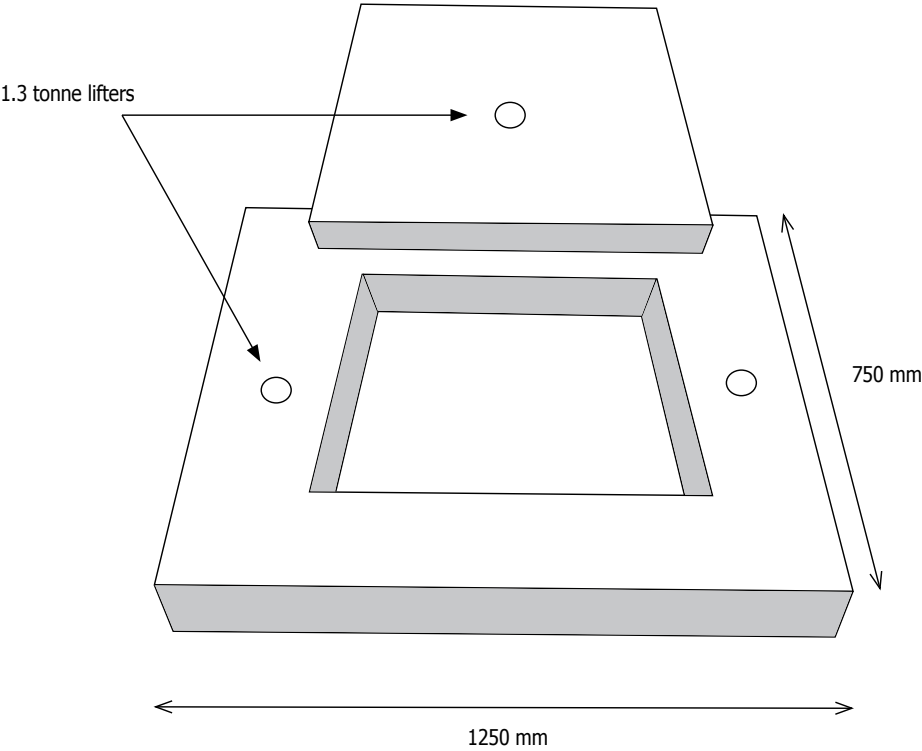
- Precast concrete saddle riser coverslab with 600 mm dia cast iron Class B light duty cover
- Designed to suit 250 mm and 450 mm high saddle risers and increments
- There is width overlap on saddles and width and length overlap on the increment - cover is rebated to suit either saddle or increment

Item	Approx Mass
Septic tank coverslab	340kg



Precast pump chamber • 622 litre

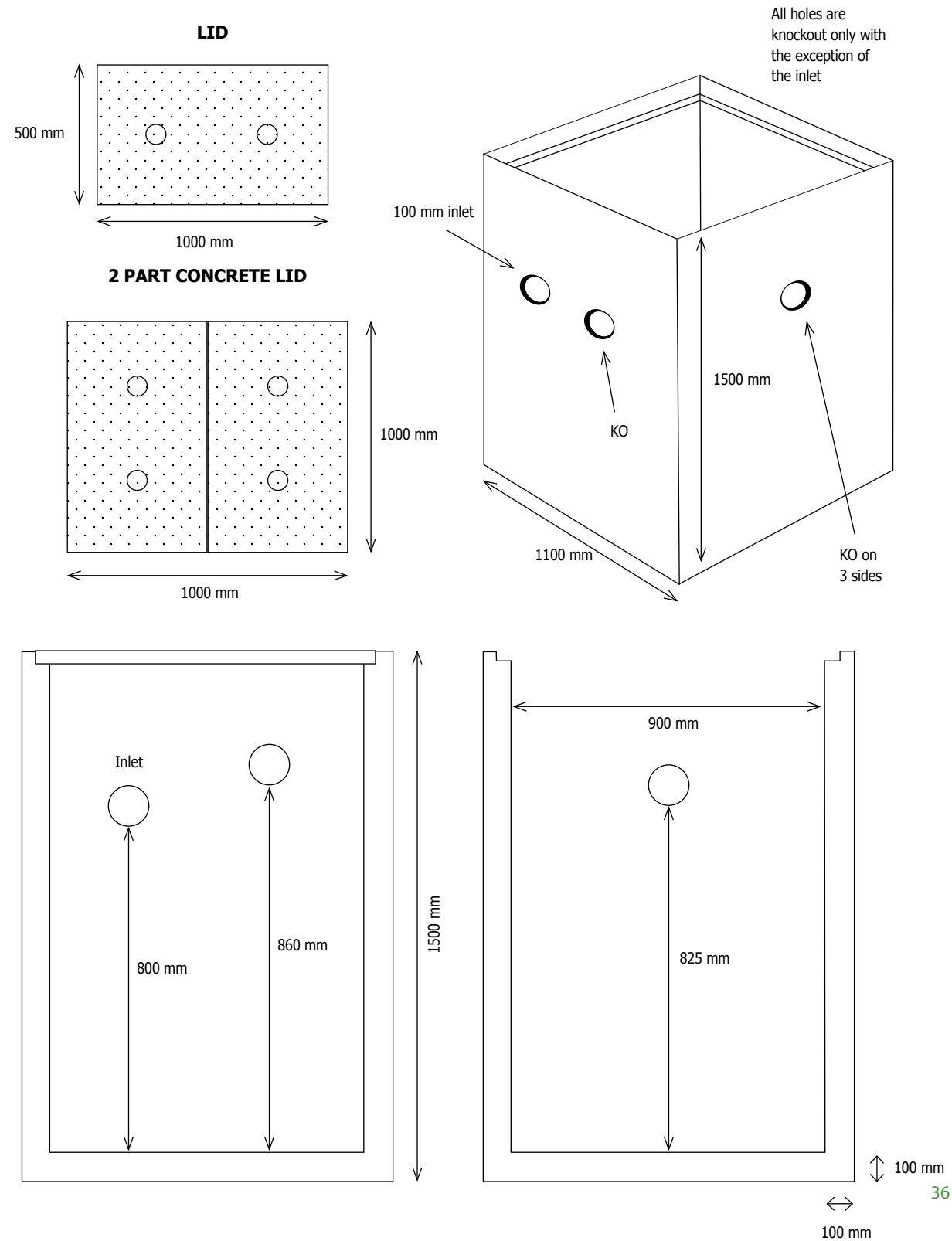
Item	Approx Mass
622 litre precast pump chamber	1,264kg



Precast pump chamber • 1,100 litre

- Constructed using concrete with plastic fibre

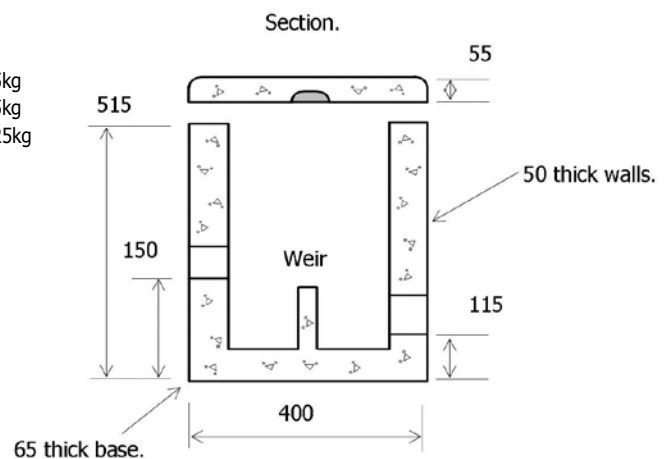
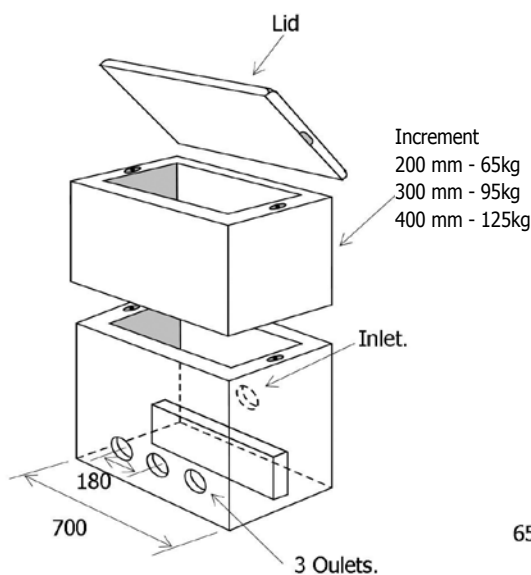
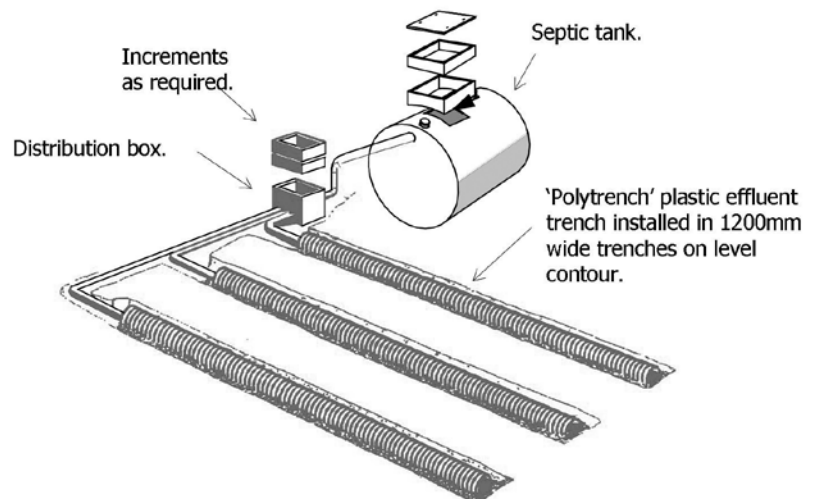
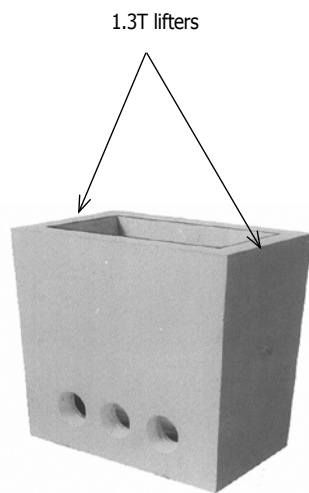
Item	Approx Mass
1,100 litre precast pump chamber	1790kg



Distribution box

- Precast reinforced concrete box fitted with 100mm diam PVC inlet and outlet collars
- Box and increments fitted with 'Swiftlift' anchors for lifting
- Approved by the SA Health Commission
- Available in both 1 in 3 out or 1 in 4 out

Item	Approx Mass
Distribution box with lid	150kg
Lid only	35kg



Polytrench plastic effluent trench

- The plumber's choice for septic tank or stormwater drainage in unserviced areas
- A simple, economical and fast way to lay effluent trench
- Premium grade high density polypropylene with UV filter injected to give high impact strength
- Lapping joint
- Specially designed slots on either side allow the water to penetrate into the surroundings but retain the settled sludge within the Polytrench, ensuring longer life
- End caps available

General installation information

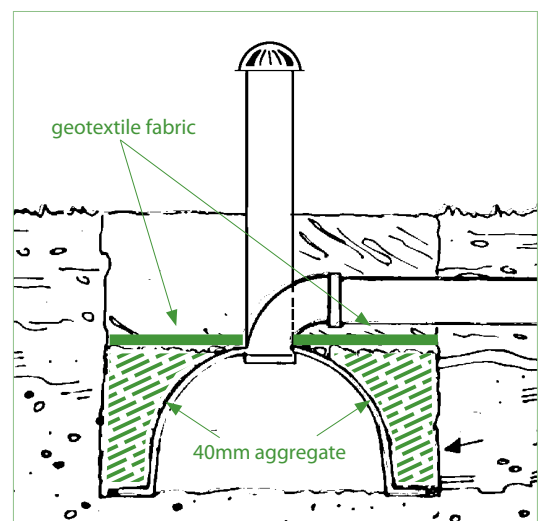
Check with the SA Health Department before starting to lay Polytrench.

- 1 On a level contour excavate a trench to the required length, 1,200 mm wide and to the required depth below the end of the septic tank outlet pipe. Ensure that the trench bottom is level.
- 2 Lay the interconnecting units centrally in the excavation (fit moulded end caps to the end of each run).
- 3 Connect the tank outlet pipe into the top of the first piece of Polytrench.
- 4 Backfill with 40mm aggregate to the top of the Polytrench ensuring that there are 300mm of aggregate on either side of the units.
- 5 Cover the aggregate and the Polytrench with trench fabric/geotextile.
- 6 Backfill with suitable material.

Specifications

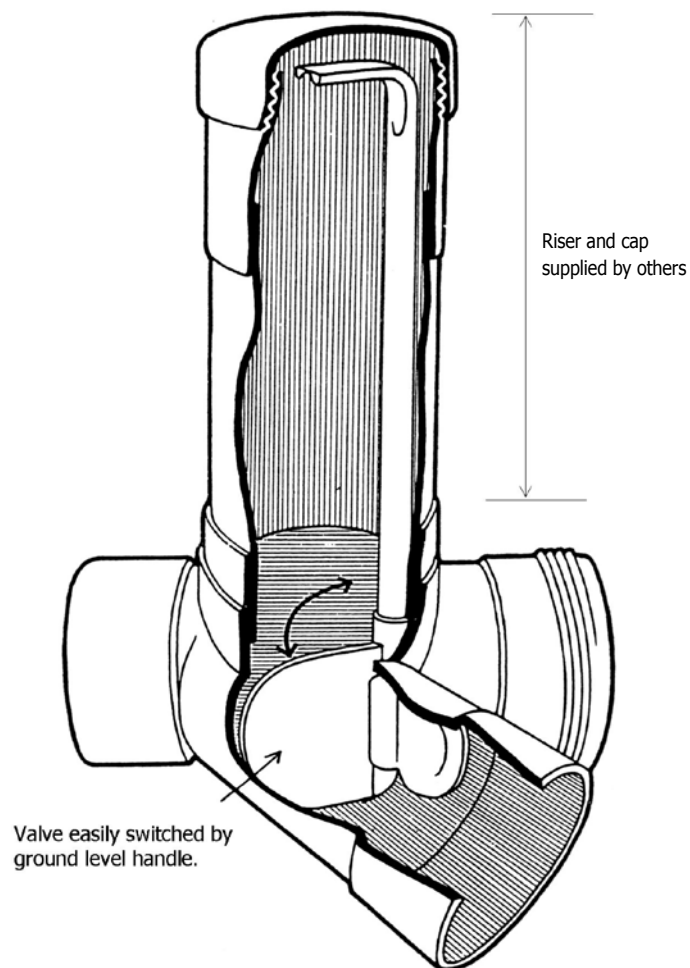
Our Polytrench has interlocking sections, supplied in manageable lengths:

- Length - 1,000 mm
- Height - 330 mm
- Width - 450 mm



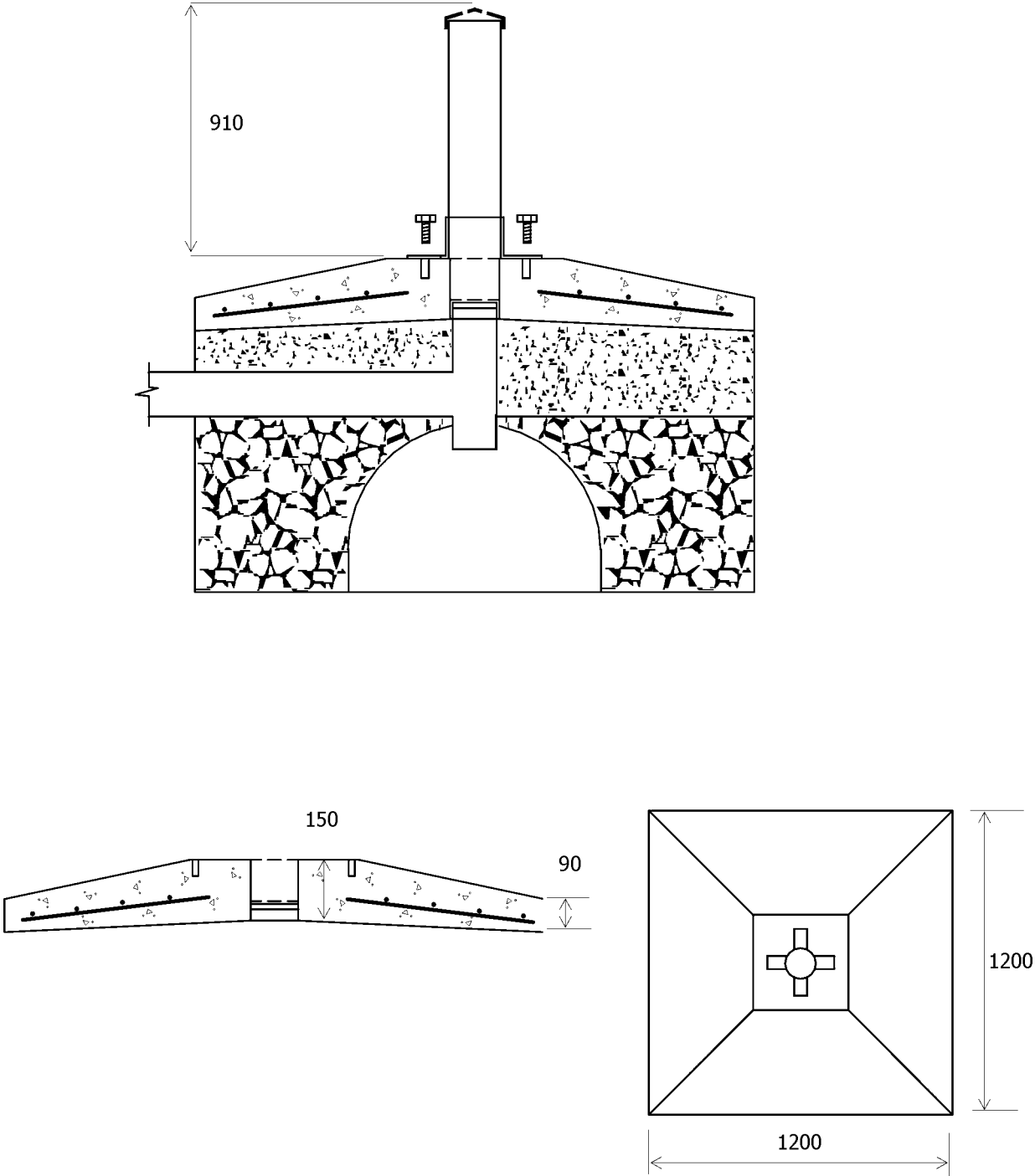
PVC effluent diverter junction

- Cost effective: no extra fittings for line up or I.O.
- Light weight: no sagging lines
- Standard 45 degree 'Y' size and style for quick, easy installation
- The correct operation is visible after installation
- Riser and switching lever easily cut to suit depth of job
- Available as a right hand valve



Induct vents

Item	Approx Mass
Induct vent base complete	410kg



'Swiftlift' lifting system

The 'Swiftlift' concrete lifting system provides a simple, safe and rapid method of lifting and handling precast concrete elements.

Originally developed to overcome the need to use time consuming and potentially dangerous threaded connectors, the system has been extensively used throughout the world for more than ten years and has proved its versatility, operational simplicity and safety in a wide range of applications.

Full approval has been granted for the use of this system by the regulatory authorities in every state of Australia and new Zealand.

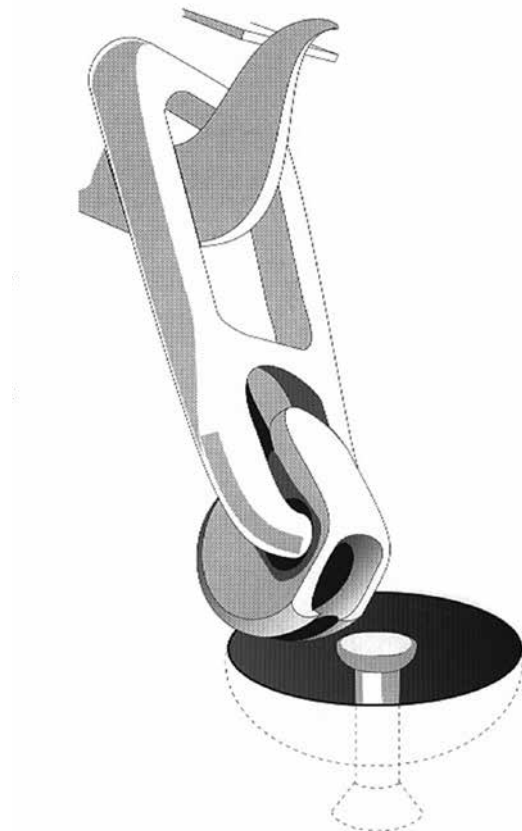
The system uses forged steel anchors which are normally hot dipped galvanised. Each anchor has its capacity, in tonnes, clearly marked on the head to ensure maximum safety on site.

A specially designed 'lifting eye' is connected to the head of the embedded anchor. The lifting eyes are designed so that, when properly connected, they cannot release whilst the system is under load.

On completion of the lift, the eye is simply disengaged and, where required, the recess is grouted over.

The 'Swiftlift' lifting system is standard in all Ri products and the lifting eyes may be purchased from our office.

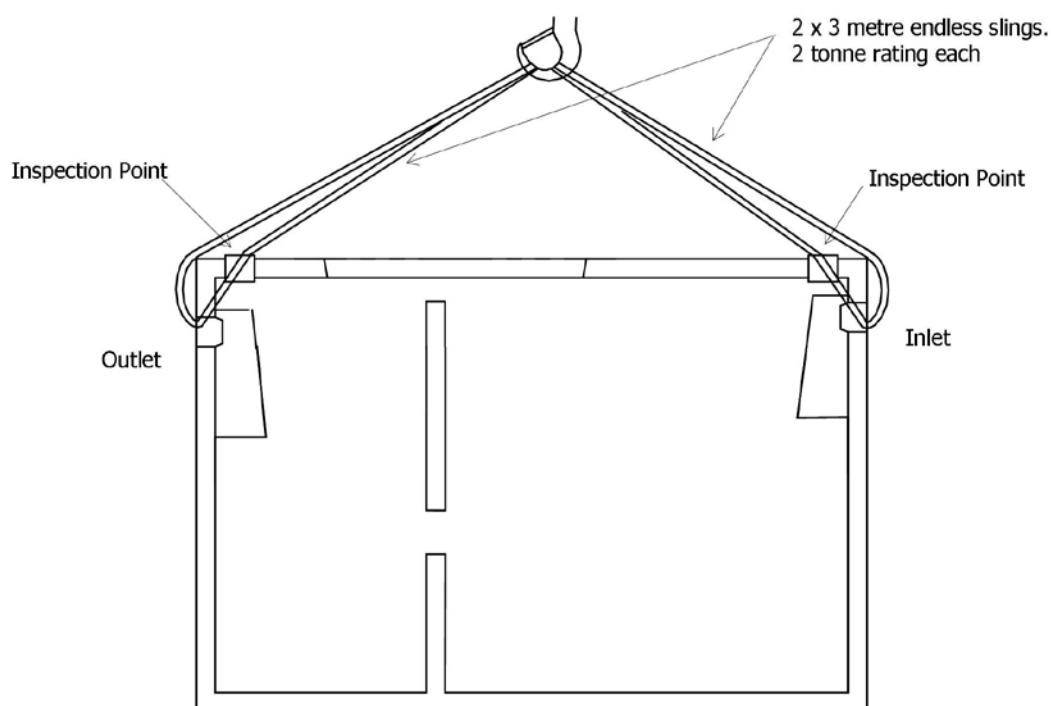
Available in 1.3, 2.5, 5.0 and 10 tonnes.



Lifting septic tanks • 3,000 - 5,000 litre

The use of unapproved lifting equipment may damage or crack tanks.

The diagram shown below is the **correct** method for lifting a “Ri” 1620 - 5,000 litre horizontal cylindrical type septic tank. Where ‘Swiftlift’ anchors are fitted, these may be used for lifting with an appropriate lifting eye.





Industries

**Leaders in pre-cast concrete products
that enhance the environment**

Ri-Industries was established 1947.
We are totally committed to achieving excellence
in all that we do, which is why South Australian
residents and businesses repeatedly buy our
products and regularly recommend us.

www.ri-industries.com.au

618 South Road, Angle Park, South Australia, 5010

P (08) 8444 8100

ABN 81 007 647 323

