

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 14 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 have over 60 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 14 different sizes, for maximum flexibility
- Child-proof and vandal-proof lids

General information

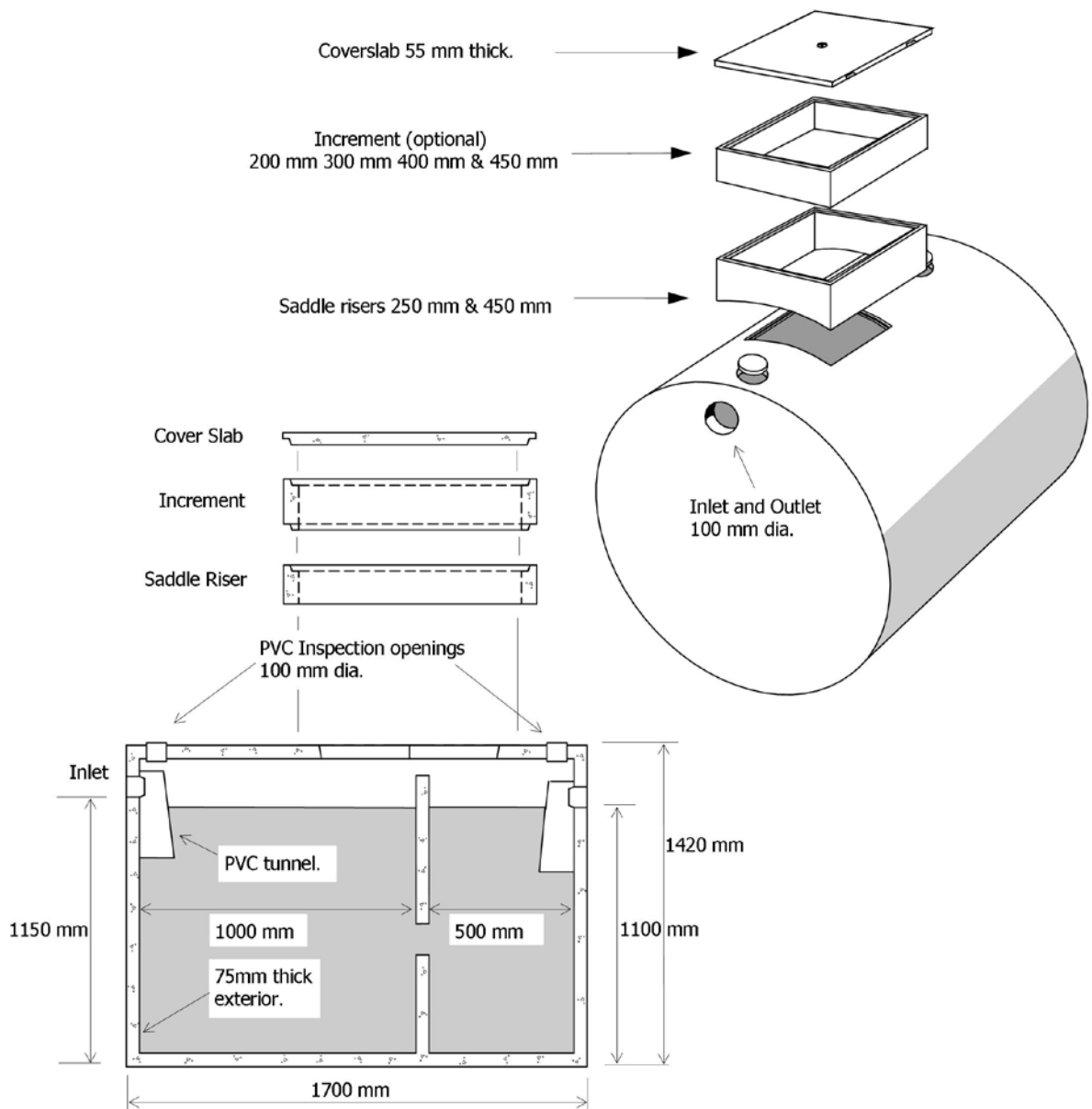
Installation and design of septic systems are regulated by the Health Department in each state. Local Council Health Inspectors will have relevant area specific information.

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 South Australian Health Commission.

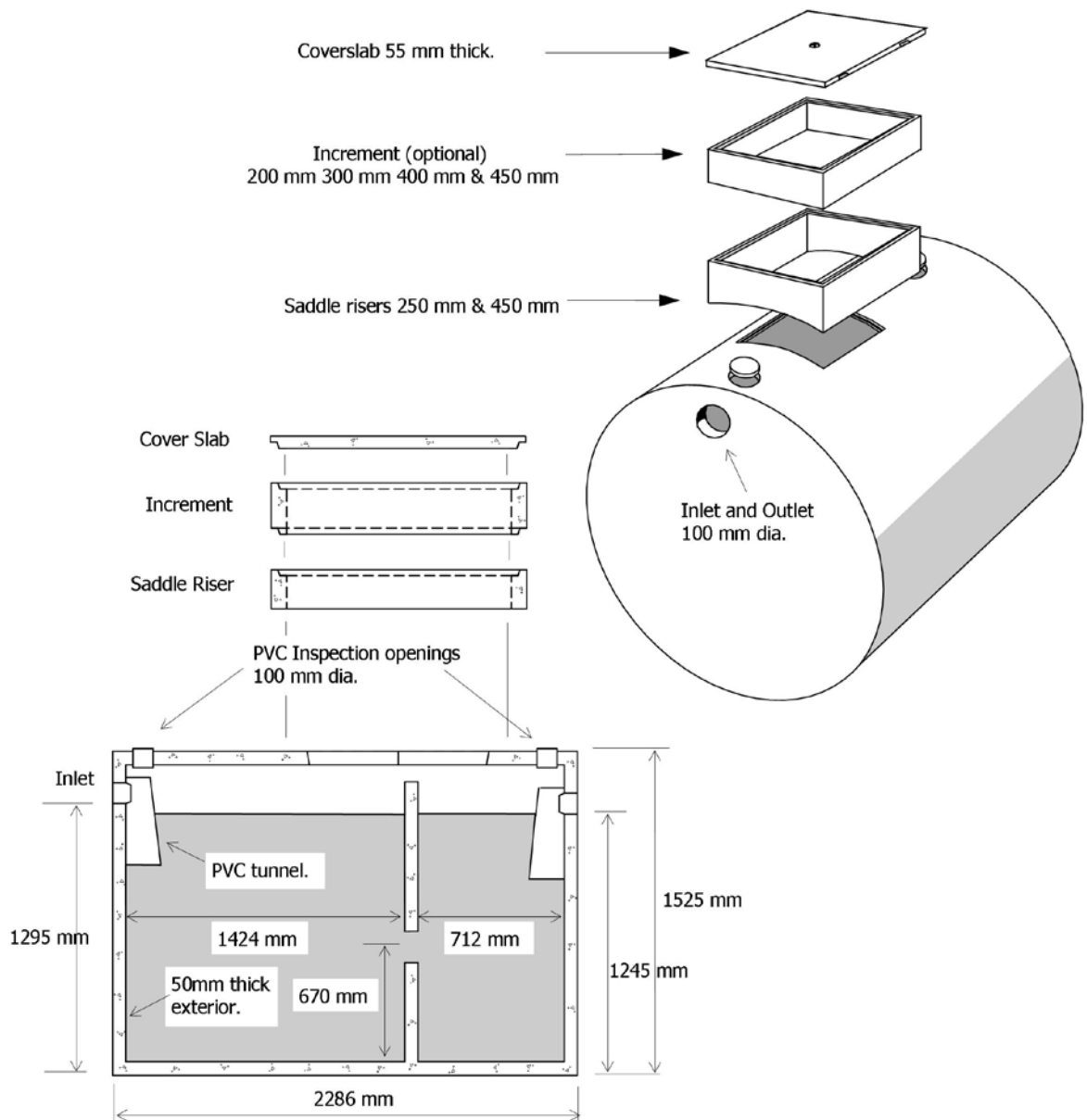
Septic tank • 1,620 litre

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



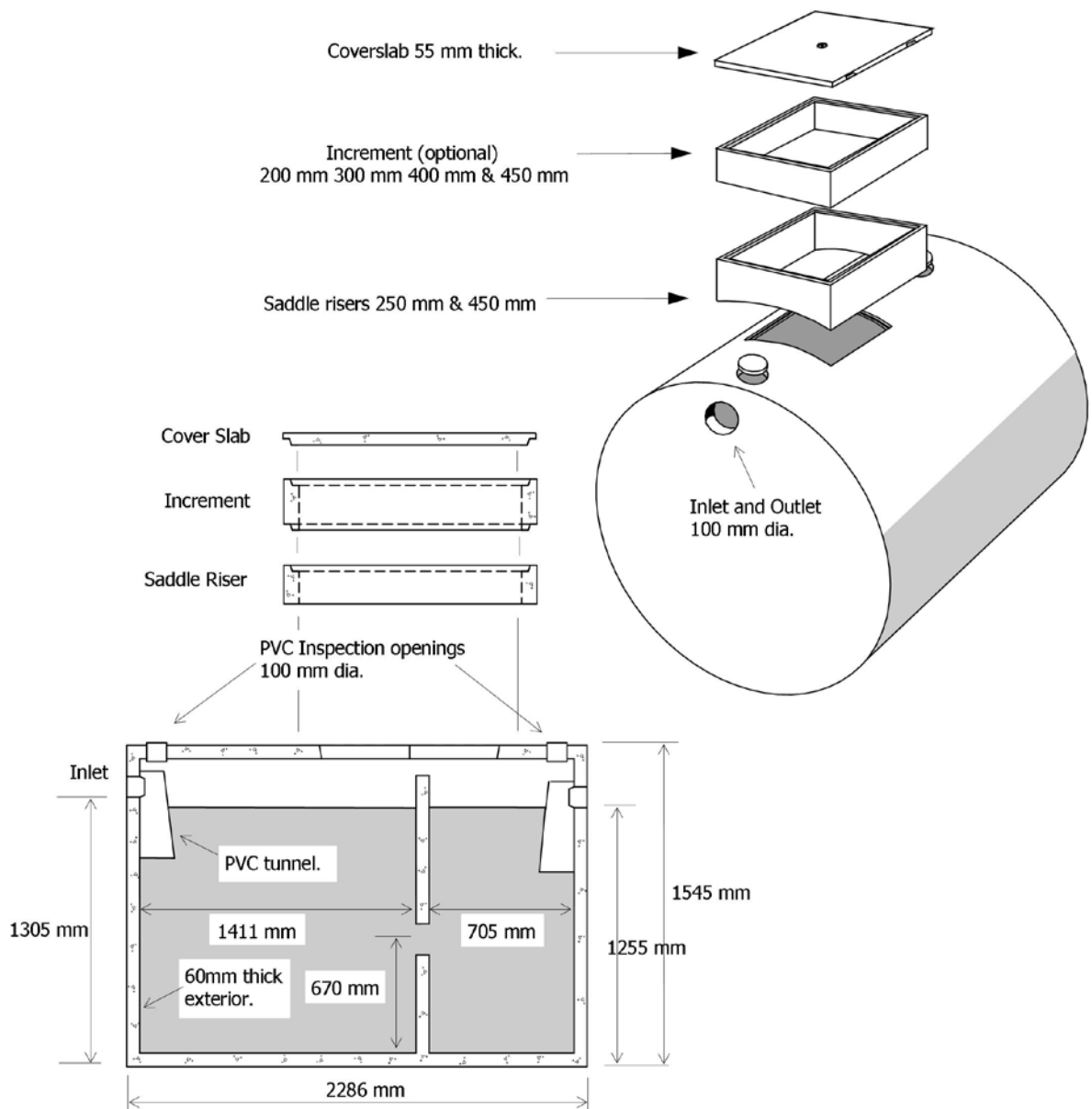
Septic tank • 3,000 litre, 50mm wall

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



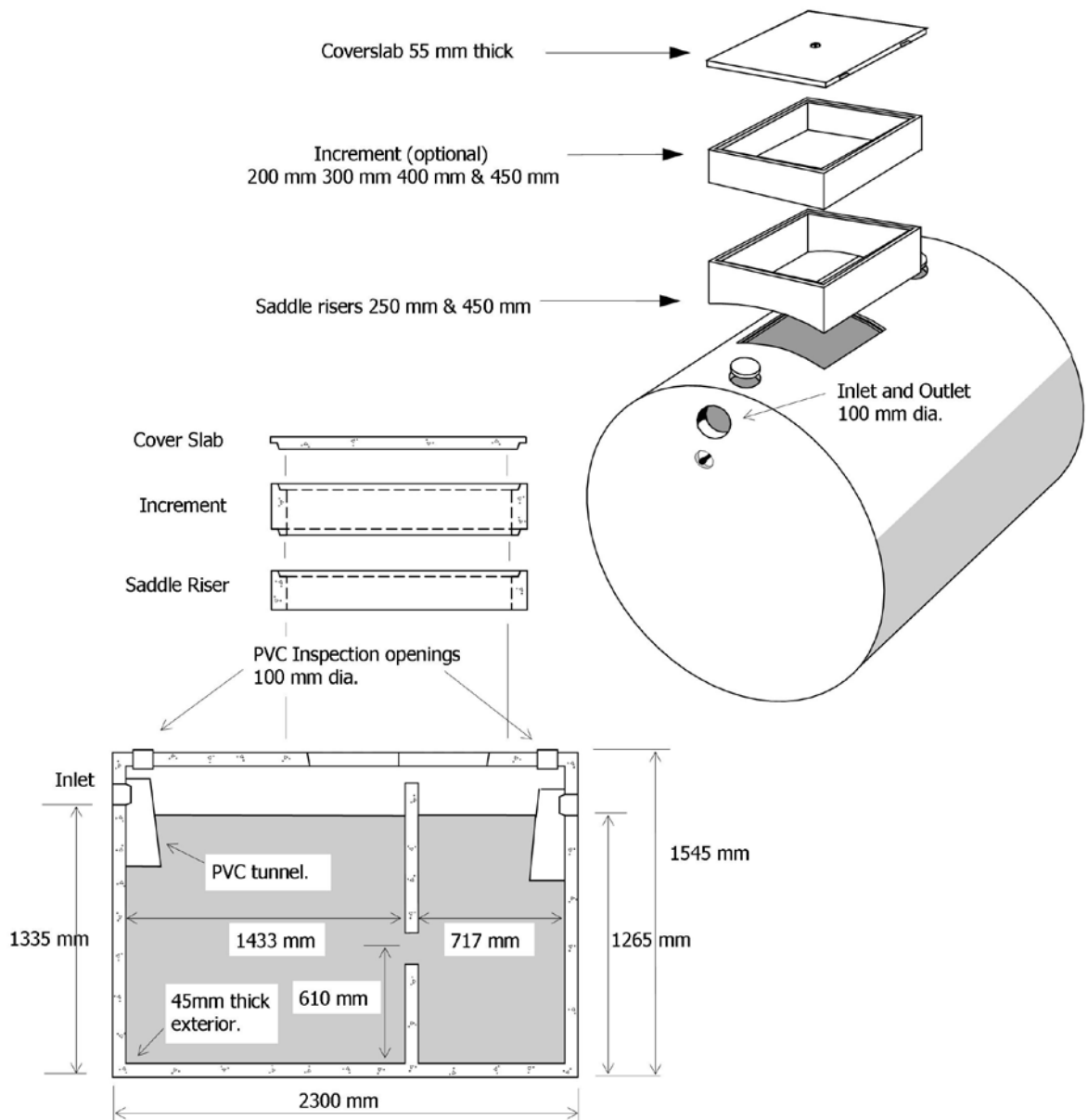
Septic tank • 3,000 litre, 60mm wall

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



Septic tank • 3,250 litre

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

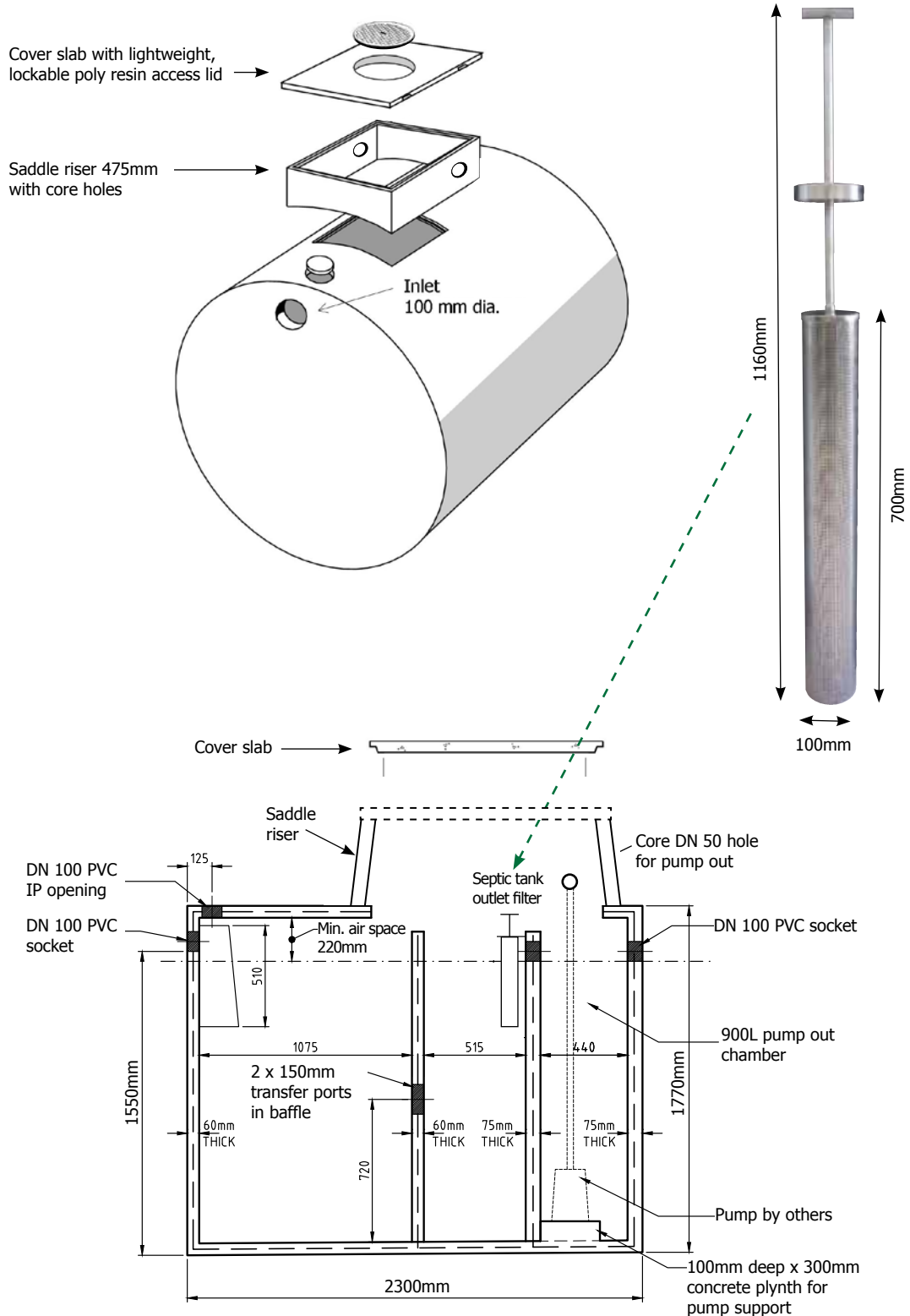


Ri-Scape tank • 3,300 litre with 900L pump chamber

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

Septic tank outlet filter

3mm punched apertures meets Standard AS1547:2012

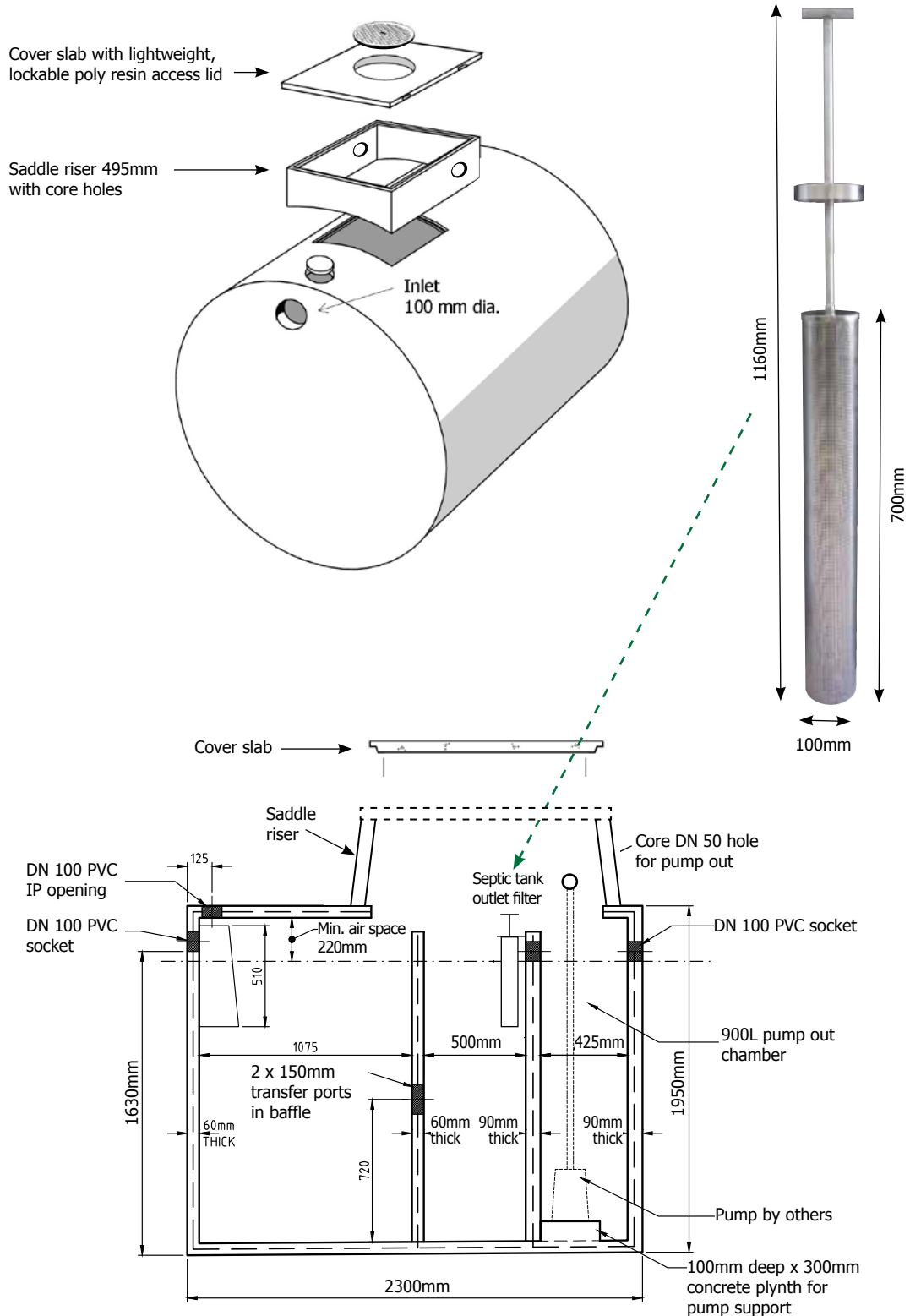


Ri-Scape tank • 4,000 litre with 900L pump chamber

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

Septic tank outlet filter

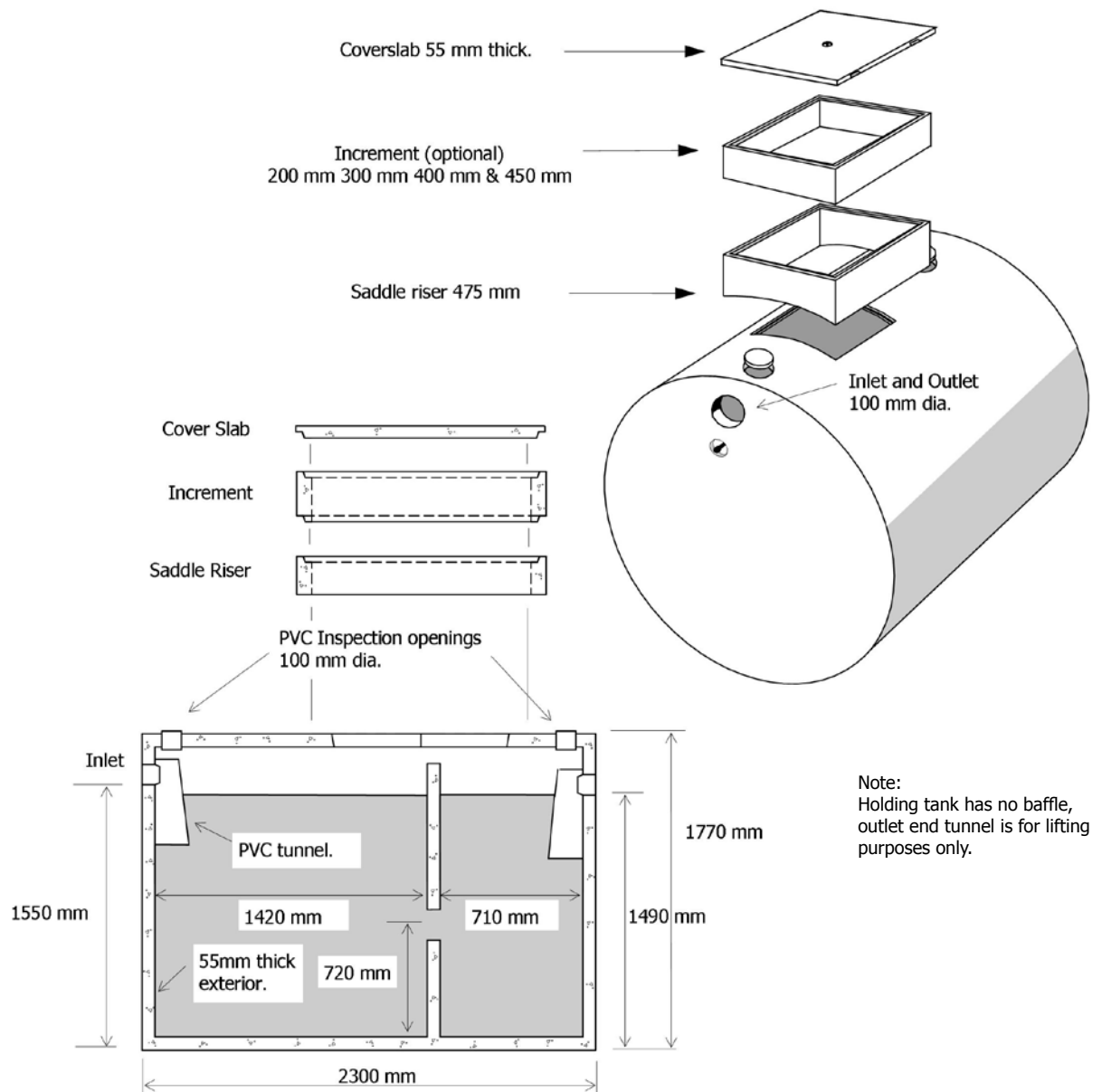
3mm punched apertures meets Standard AS1547:2012



Septic tank • 4,300 litre

Holding tank • 4,300 litre

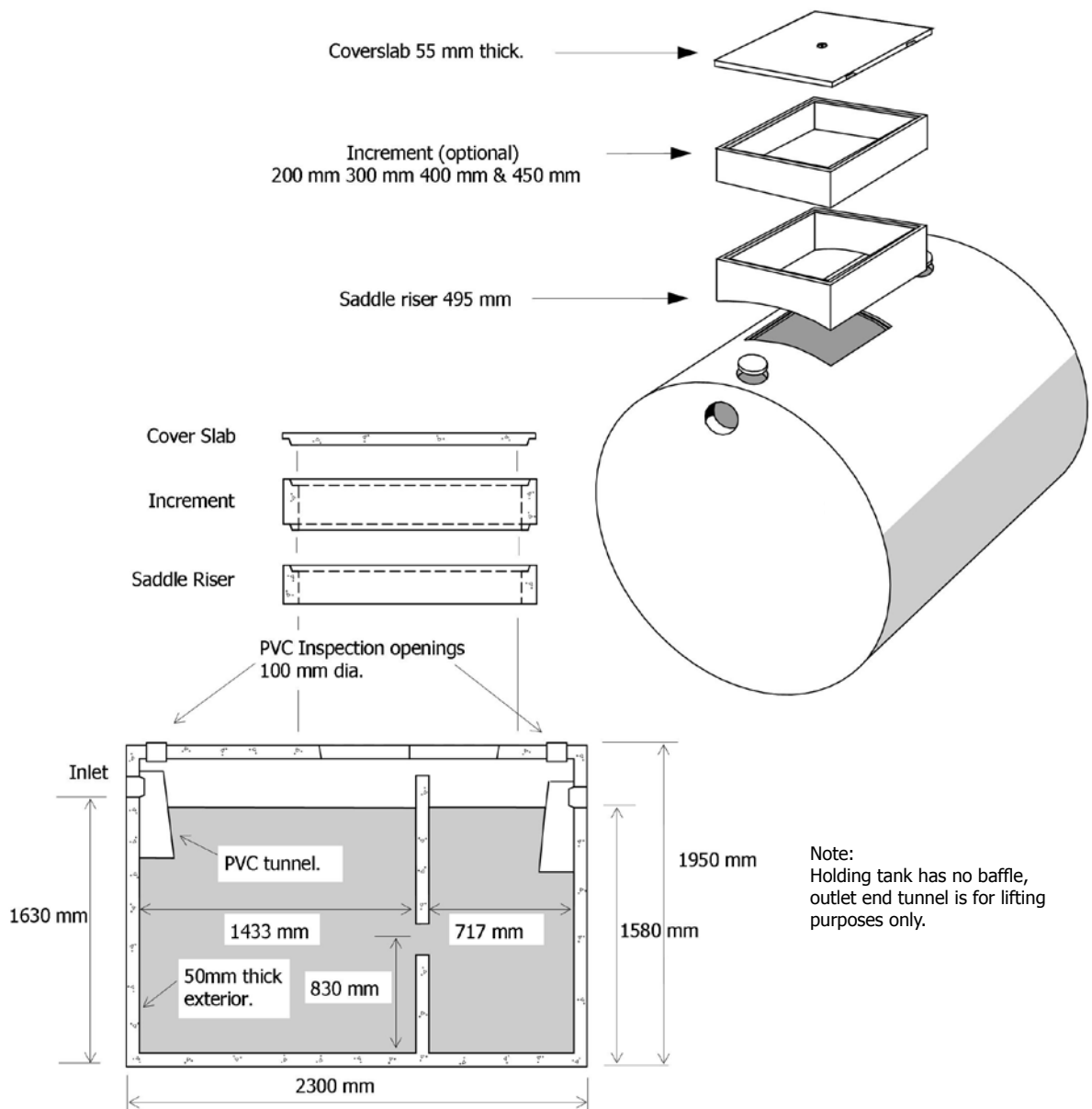
Item	Approx Mass
4,300 litre septic tank	2,550kg
4,300 litre holding tank	2,200kg



Septic tank • 5,000 litre

Holding tank • 5,000 litre

Item	Approx Mass
5,000 litre septic tank	3,000kg
5,000 litre holding tank	2,700kg

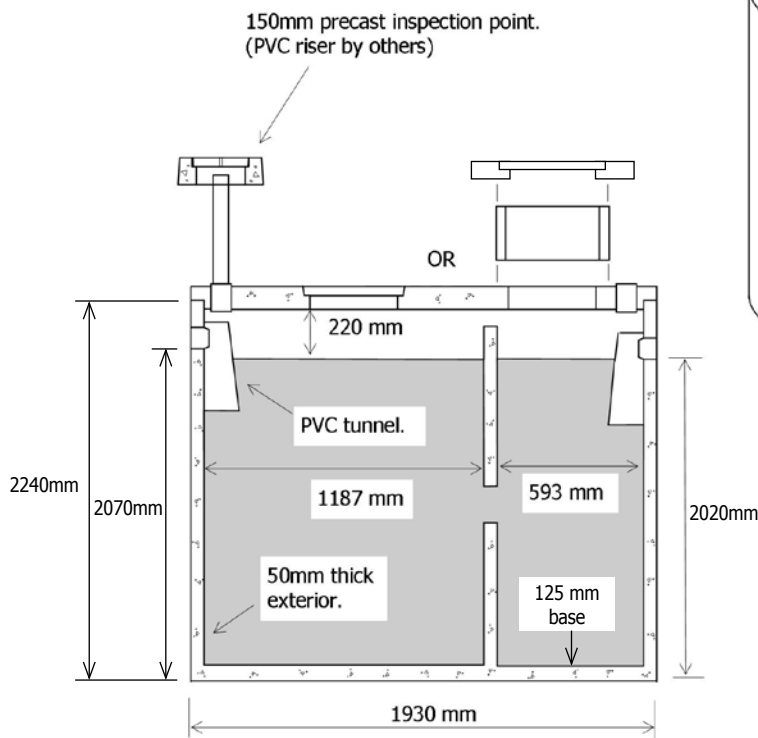
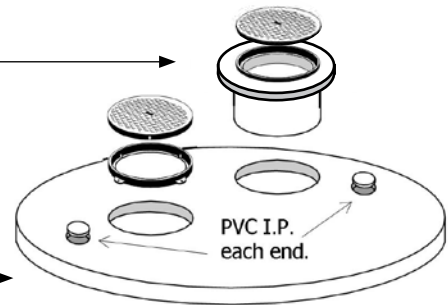


Vertical septic tank • 5,000 litre

Item	Approx Mass
5,000 litre vertical septic tank	4,600kg

800 dia pipe increments available 600 mm and 300 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

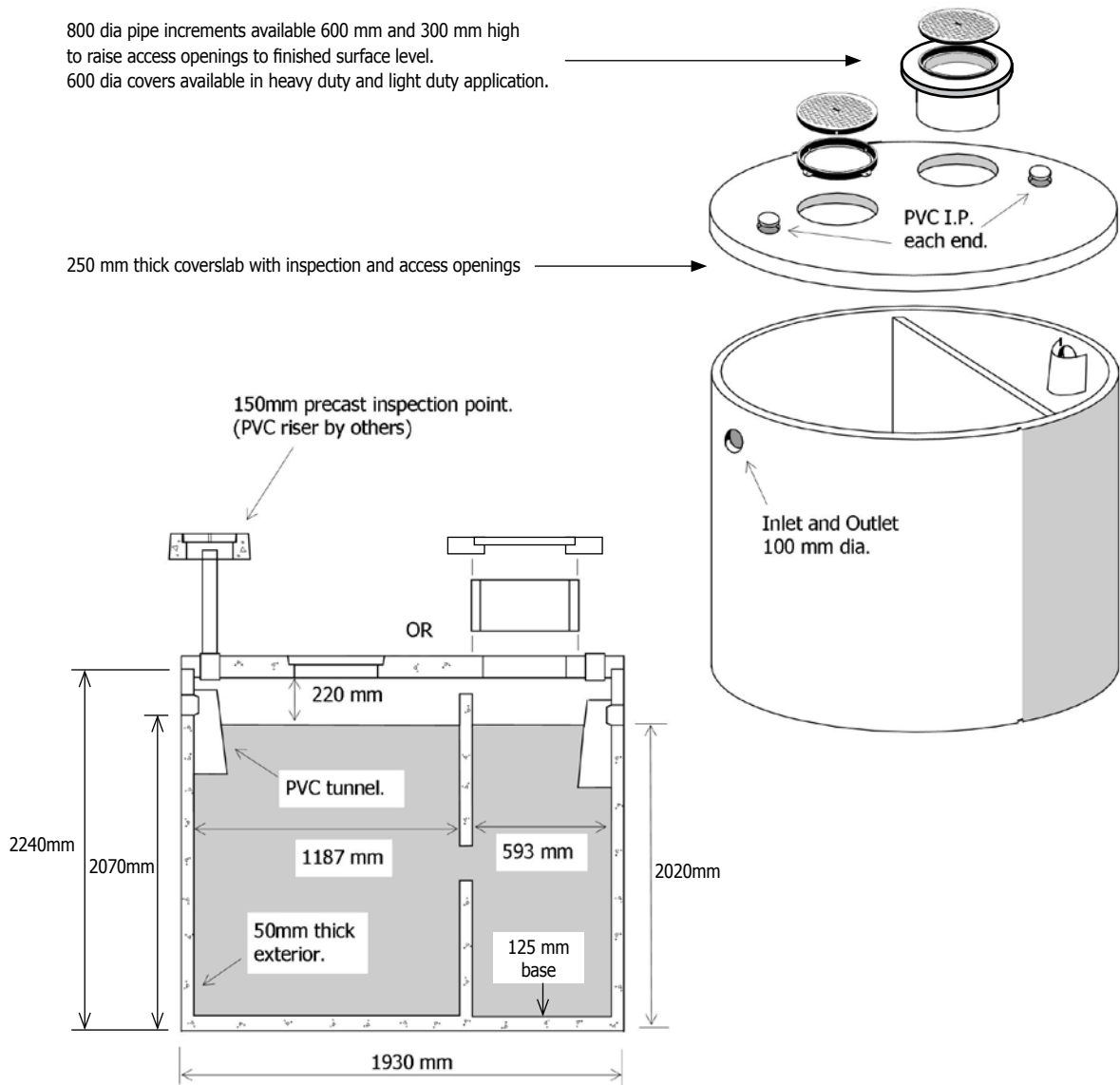


Vertical septic tank & trafficable lid • 5,000 litre

Item	Approx Mass
5,000 litre vertical septic tank	5,350kg

800 dia pipe increments available 600 mm and 300 mm high to raise access openings to finished surface level.
 600 dia covers available in heavy duty and light duty application.

250 mm thick coverslab with inspection and access openings

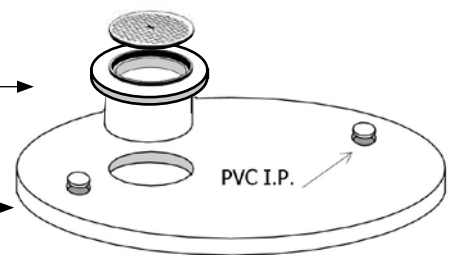


Vertical holding tank • 5,000 litre

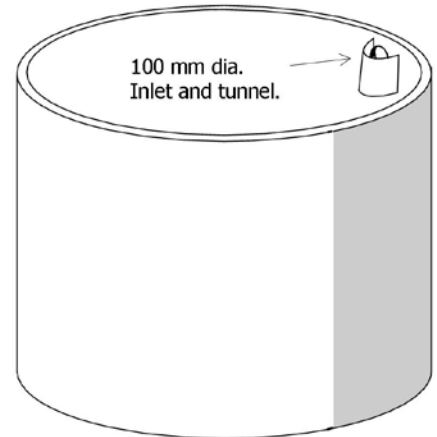
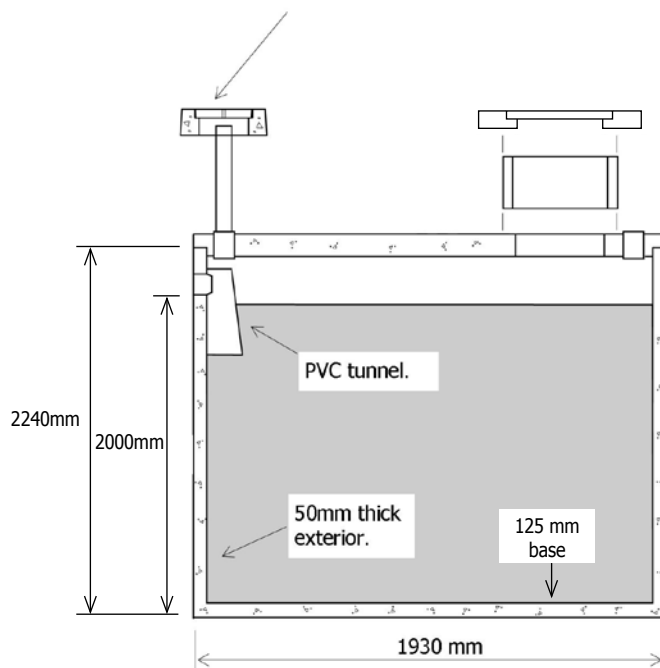
Item	Approx Mass
5,000 litre vertical holding tank	4,020kg

800 dia pipe increments available 600 mm and 300 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



150mm precast inspection point.
(PVC riser by others)

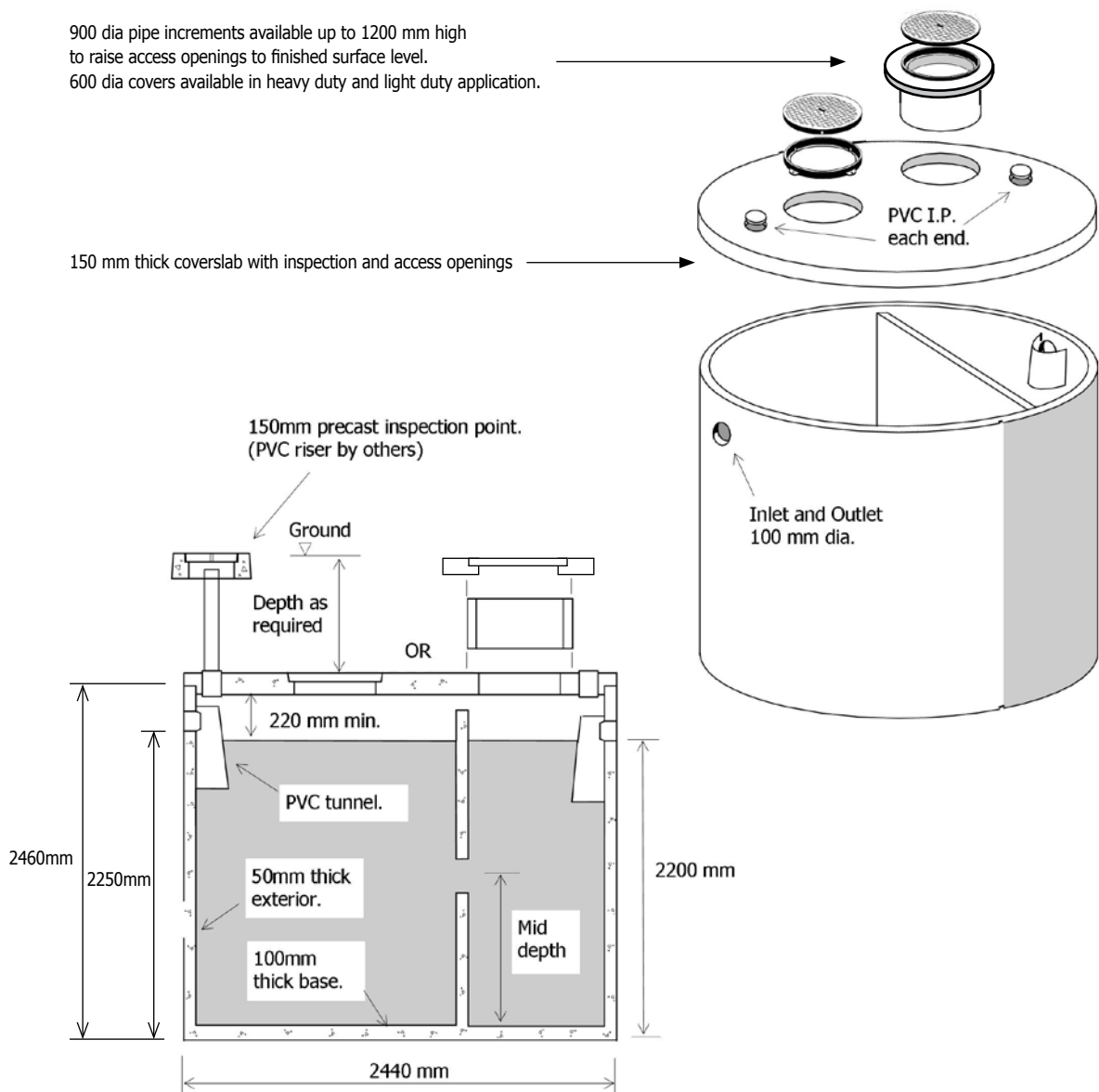


Septic tank & lid • 8,000 litre

Item	Approx Mass
8,000 litre vertical septic tank	6,310kg

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.

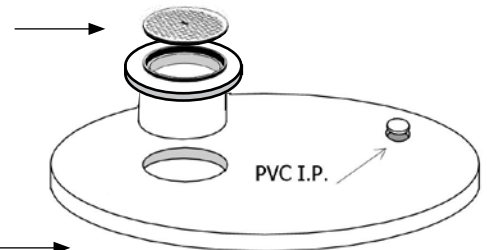
150 mm thick coverslab with inspection and access openings



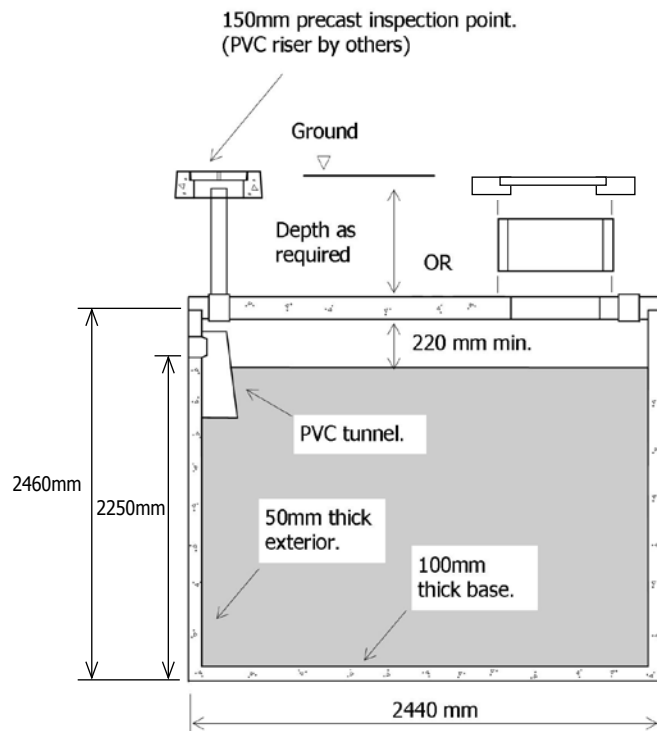
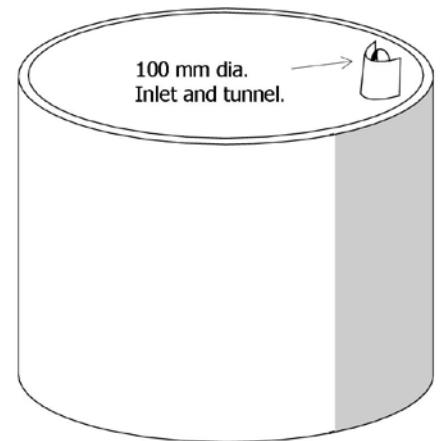
Vertical holding tank • 8,000 litre

Item	Approx Mass
8,000 litre vertical holding tank	5,670kg

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.

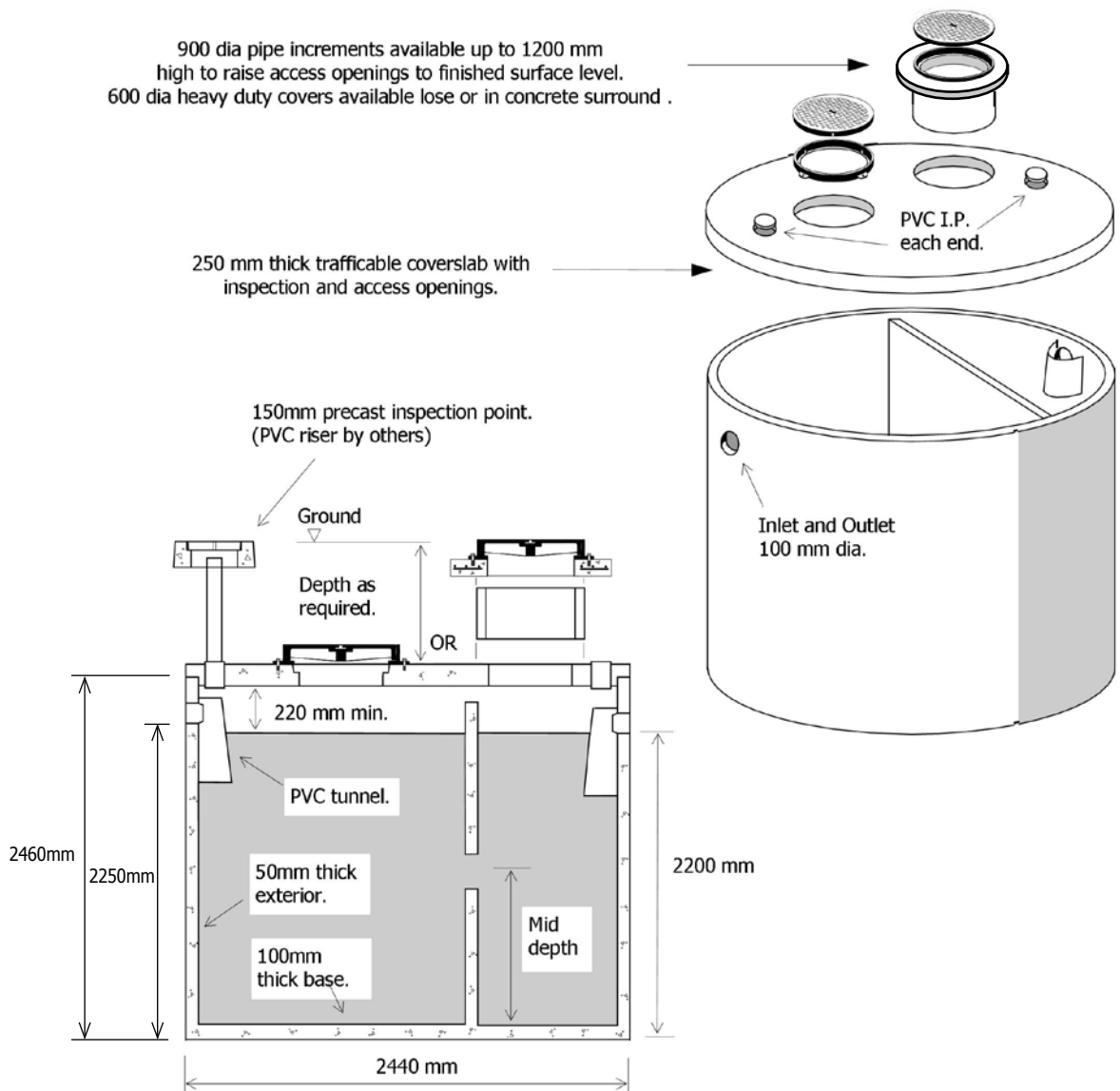


150 mm or 250 mm thick coverslab with inspection and access openings



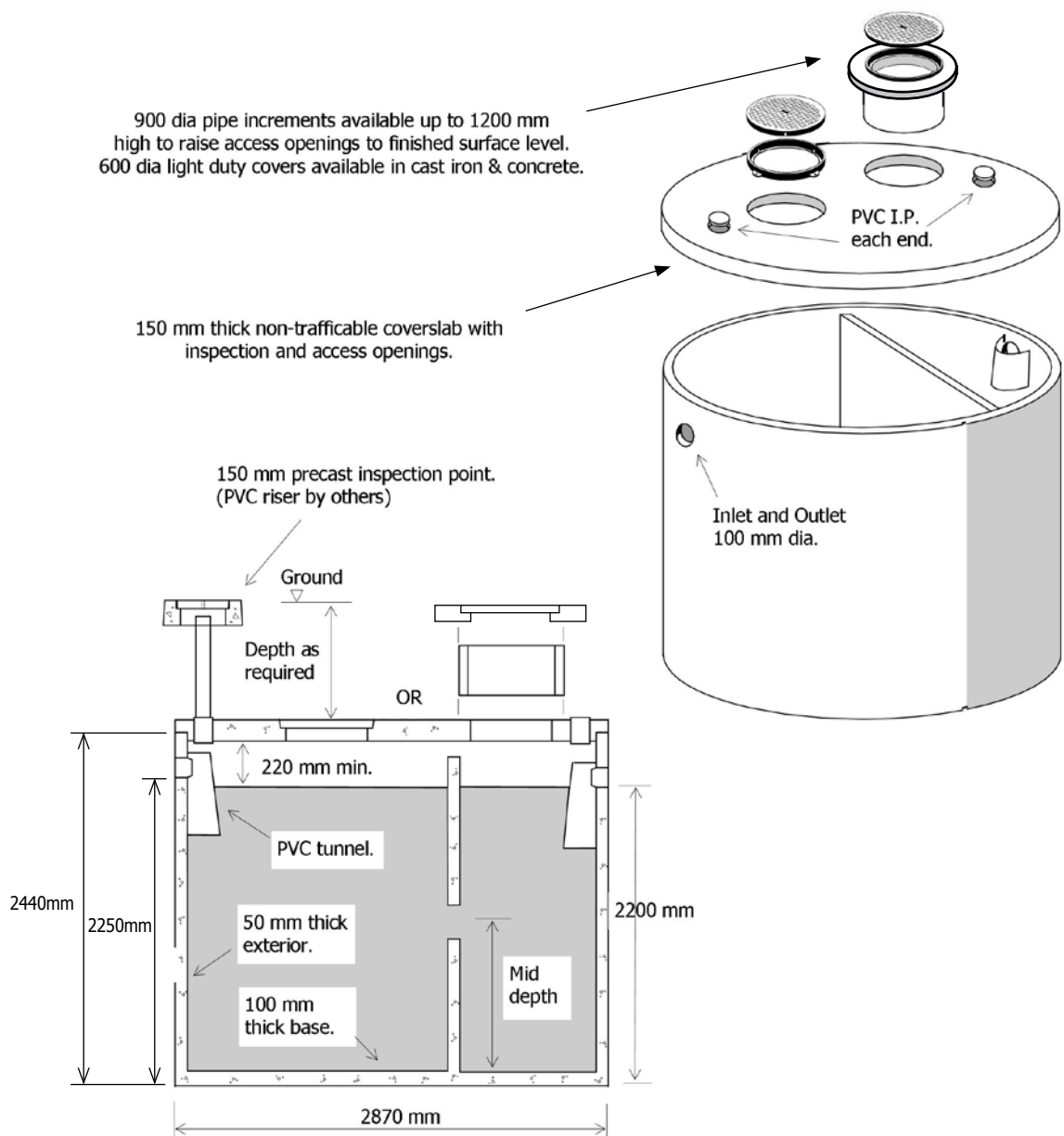
Septic tank & trafficable lid • 8,000 litre

Item	Approx Mass
8,000 litre vertical septic tank	7,460kg



Septic tank & lid • 12,000 litre

Item	Approx Mass
12,000 litre vertical septic tank	8,420kg



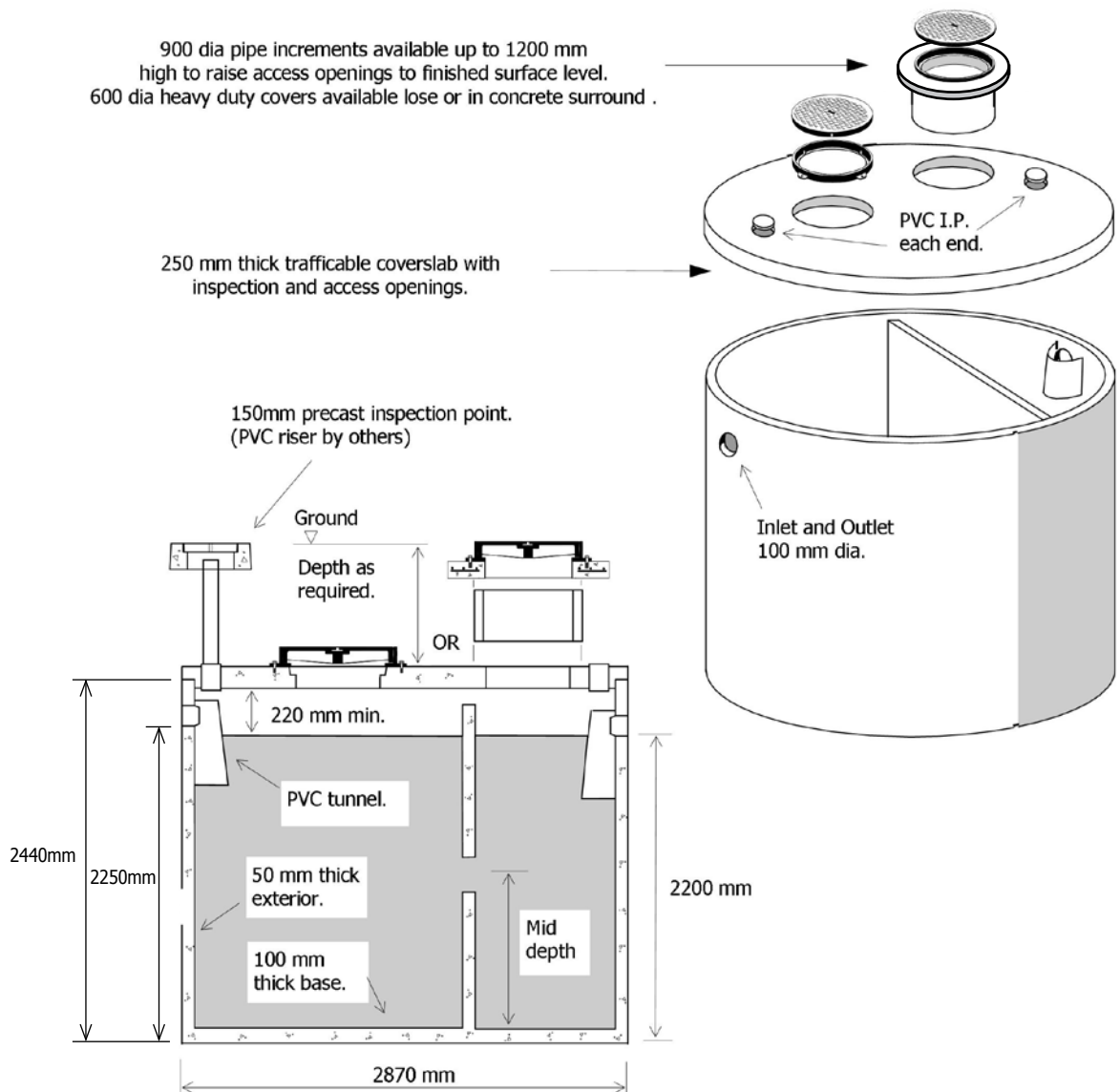
Septic tank & trafficable lid • 12,000 litre

Item	Approx Mass
12,000 litre vertical septic tank	9,840kg

900 dia pipe increments available up to 1200 mm high to raise access openings to finished surface level.
600 dia heavy duty covers available loose or in concrete surround .

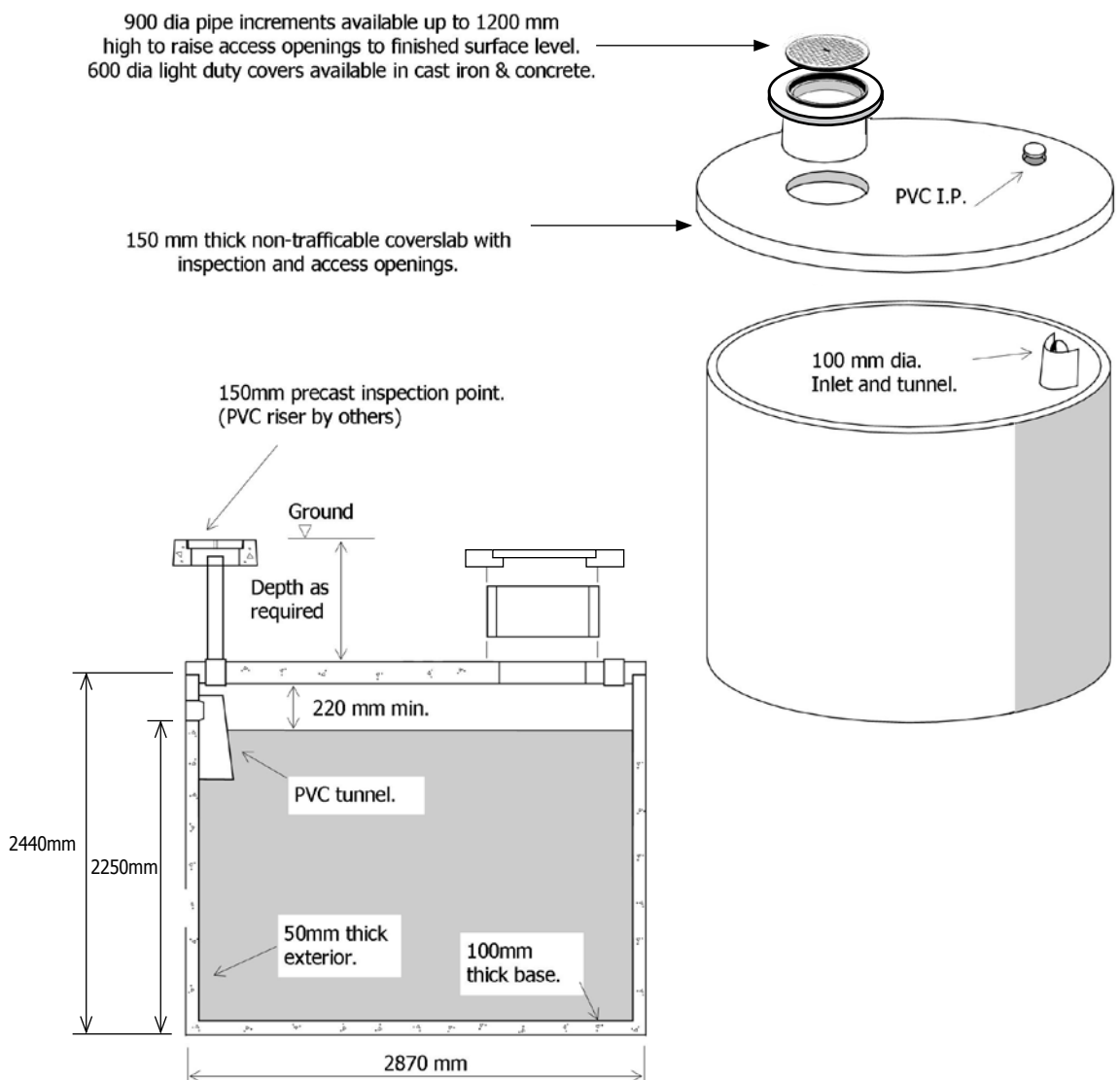
250 mm thick trafficable coverslab with inspection and access openings.

150mm precast inspection point.
(PVC riser by others)



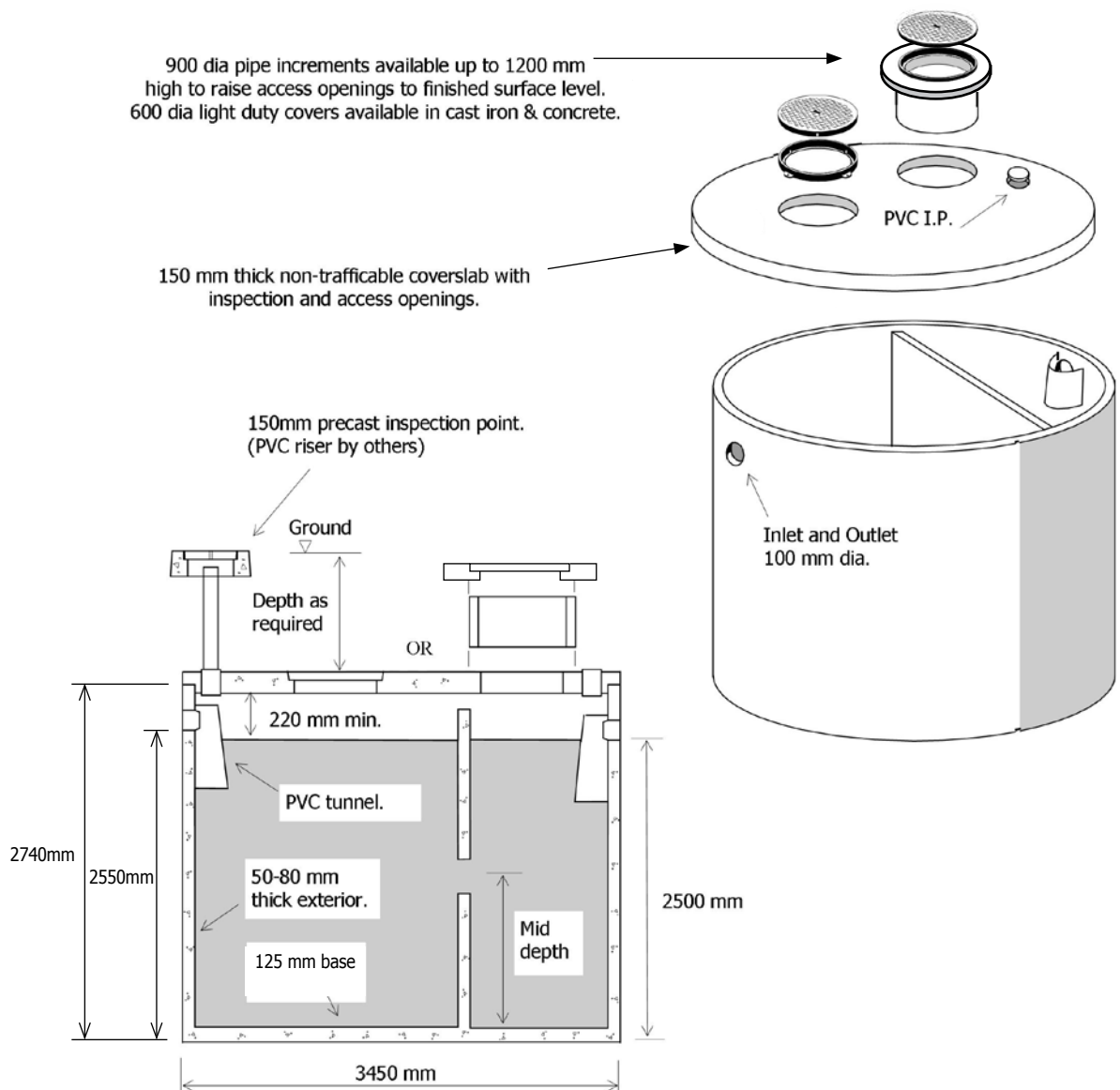
Vertical holding tank • 12,000 litre

Item	Approx Mass
12,000 litre vertical holding tank	7,300kg



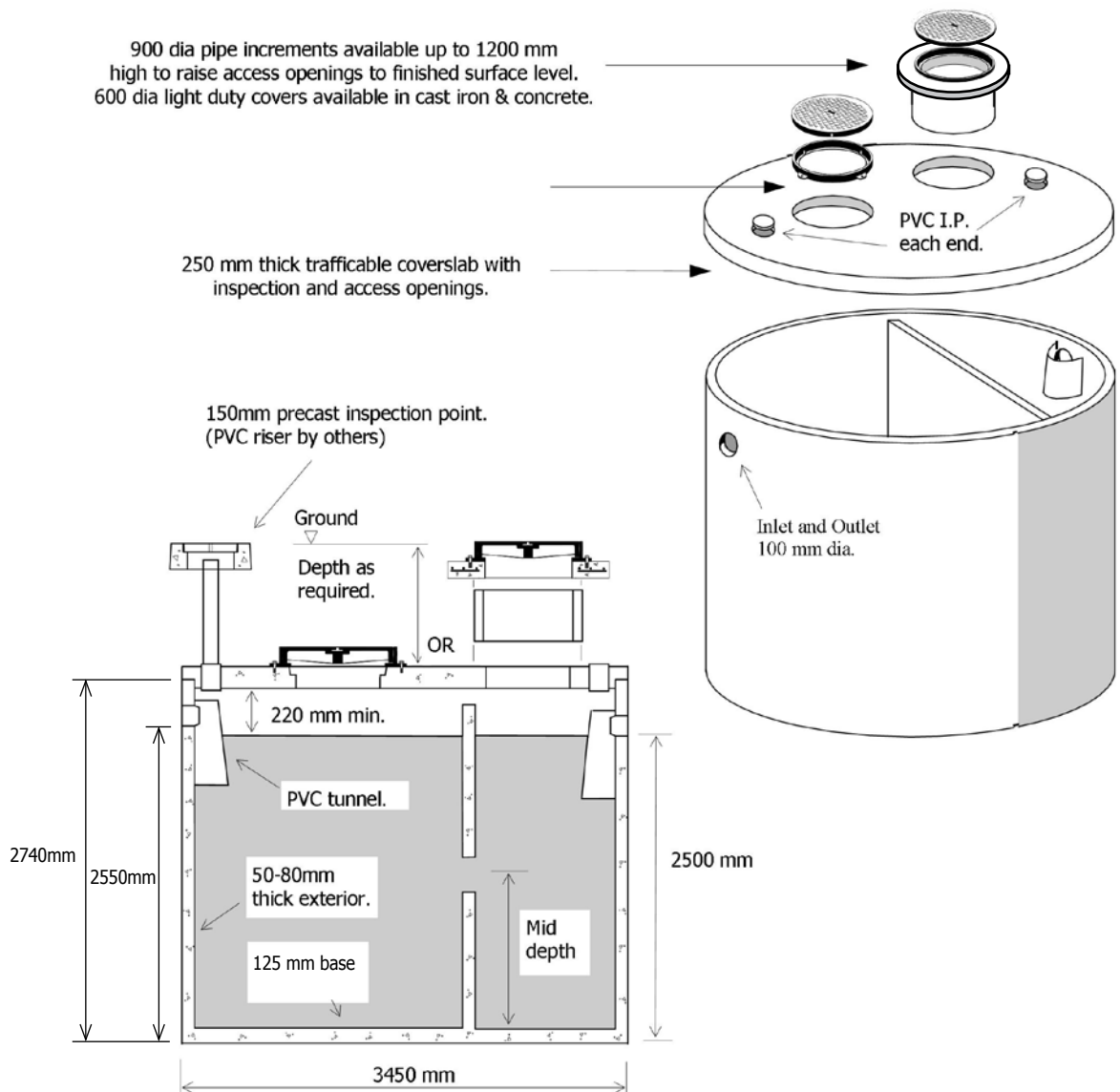
Septic tank & lid • 20,000 litre

Item	Approx Mass
20,000 litre vertical septic tank	12,510kg



Septic tank & trafficable lid • 20,000 litre

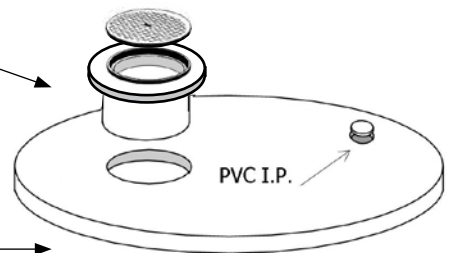
Item	Approx Mass
20,000 litre vertical septic tank	14,620kg



Vertical holding tank • 20,000 litre

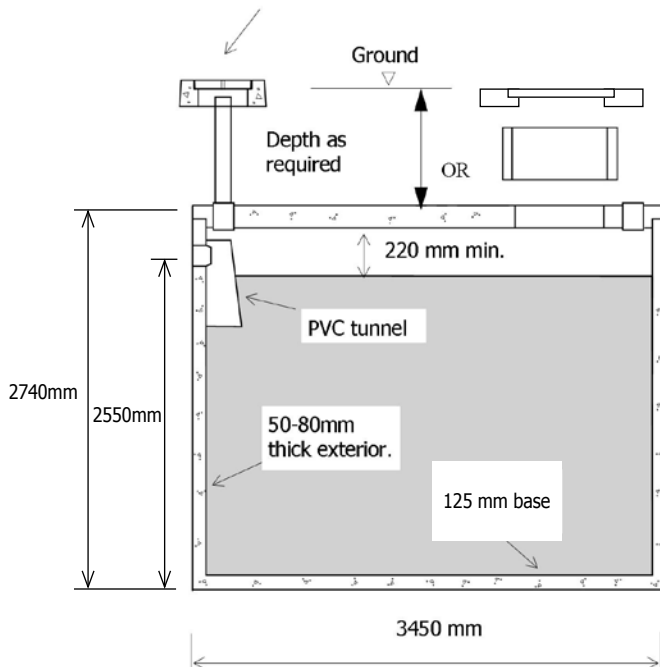
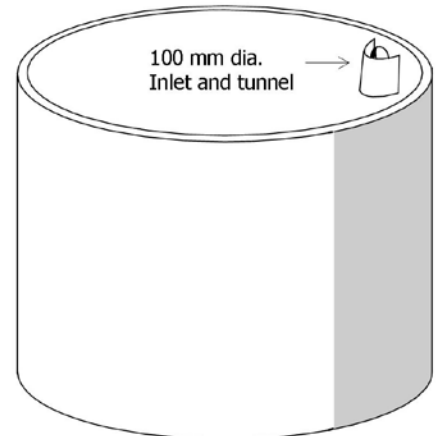
Item	Approx Mass
20,000 litre vertical holding tank	10,600kg

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



150 mm thick non-trafficable coverslab with inspection and access openings.

150mm precast inspection point. (PVC riser by others)

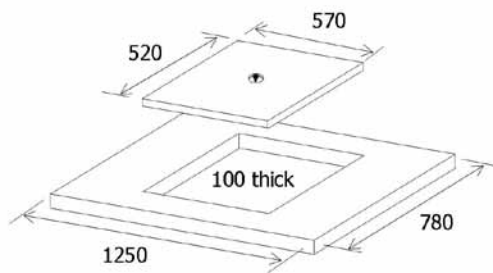


Saddle risers, increments & coverslabs

- 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

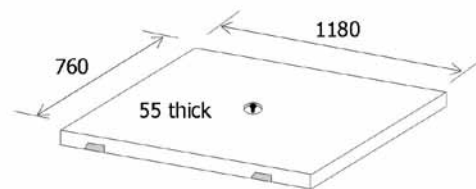
Suitable for 622L pump chamber.



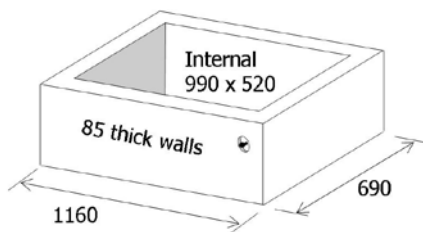
Weight 192kg

TYPE 33

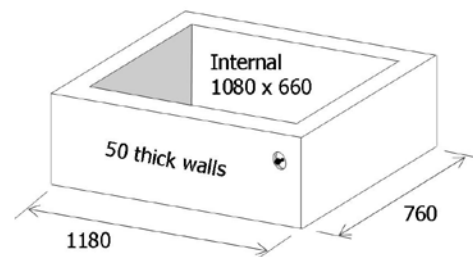
Suitable for all other horizontal tanks.



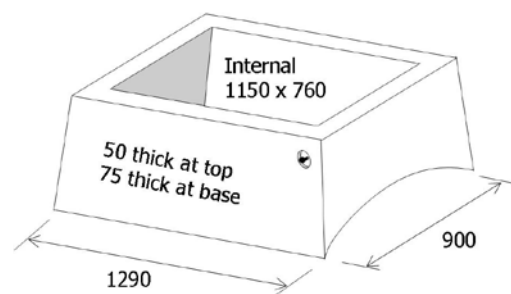
Weight 100kg



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



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



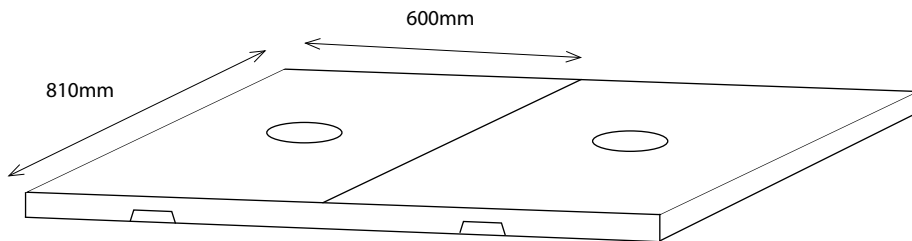
250mm - weight 235kg
450mm - weight 320kg
475mm (4,300 litre) - weight 320kg
495mm (5,000 litre) - weight 335kg

Glass reinforced concrete lightweight slabs & risers

- Specifically designed to be used in difficult or existing areas where truck access is not available to lift normal concrete products
- Suitable for pedestrian traffic only

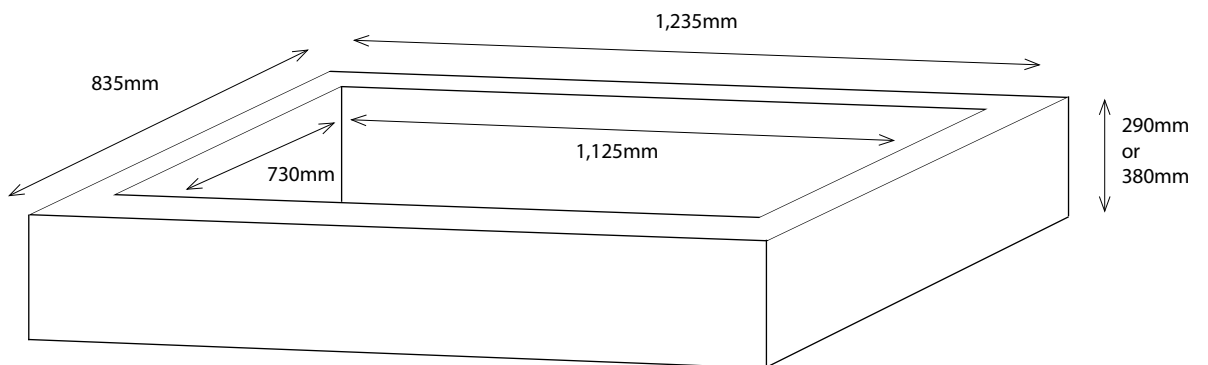
Slab lid in normal concrete to suit weight GRC saddle and riser (2 part lid)

- Approx weight 50kg each
- Can be lifted with 1.3 tonne Swiftlift claws



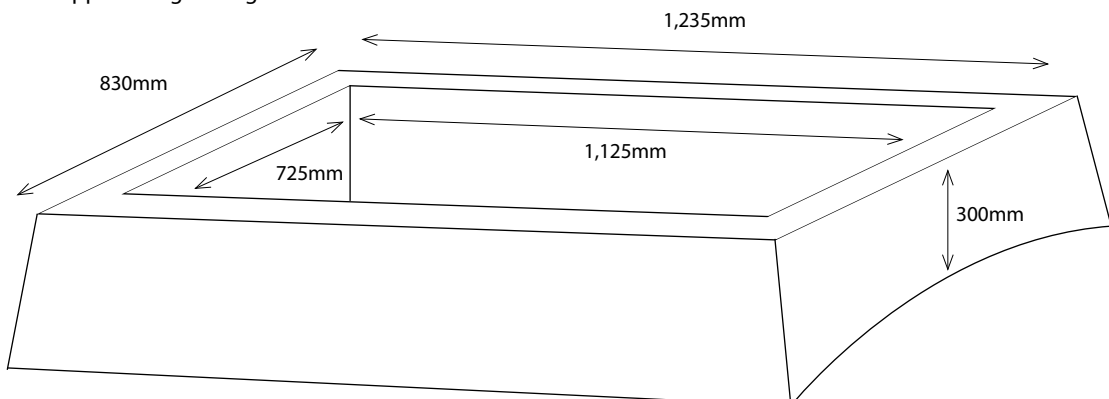
Glass reinforced concrete lightweight extension riser for saddles

- Approx weight 60kg
- Sizes for extensions 290mm and 380mm
- Actual 400mm and 310mm with rebate of 20mm
- Suitable for 1,620, 3,000 and 3,250 litre septic tanks



Glass reinforced concrete lightweight saddle riser

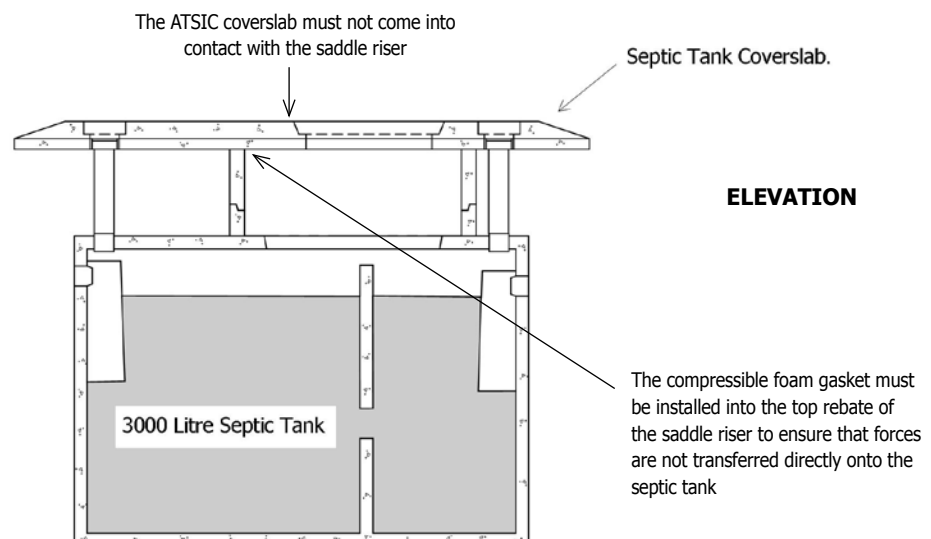
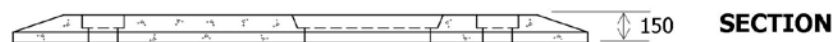
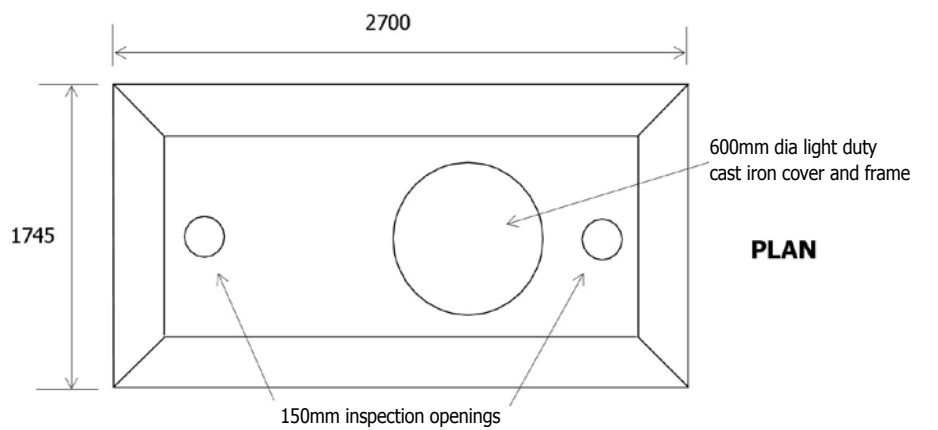
- Approx weight 56kg



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

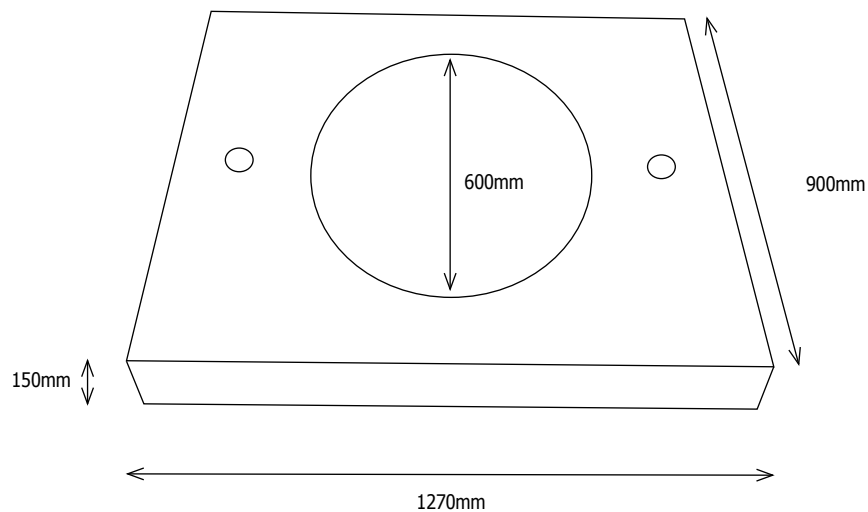
Item	Approx Mass
Septic tank coverslab	1,700kg



Small ATSiC coverslab • 3,000 litre septic tank

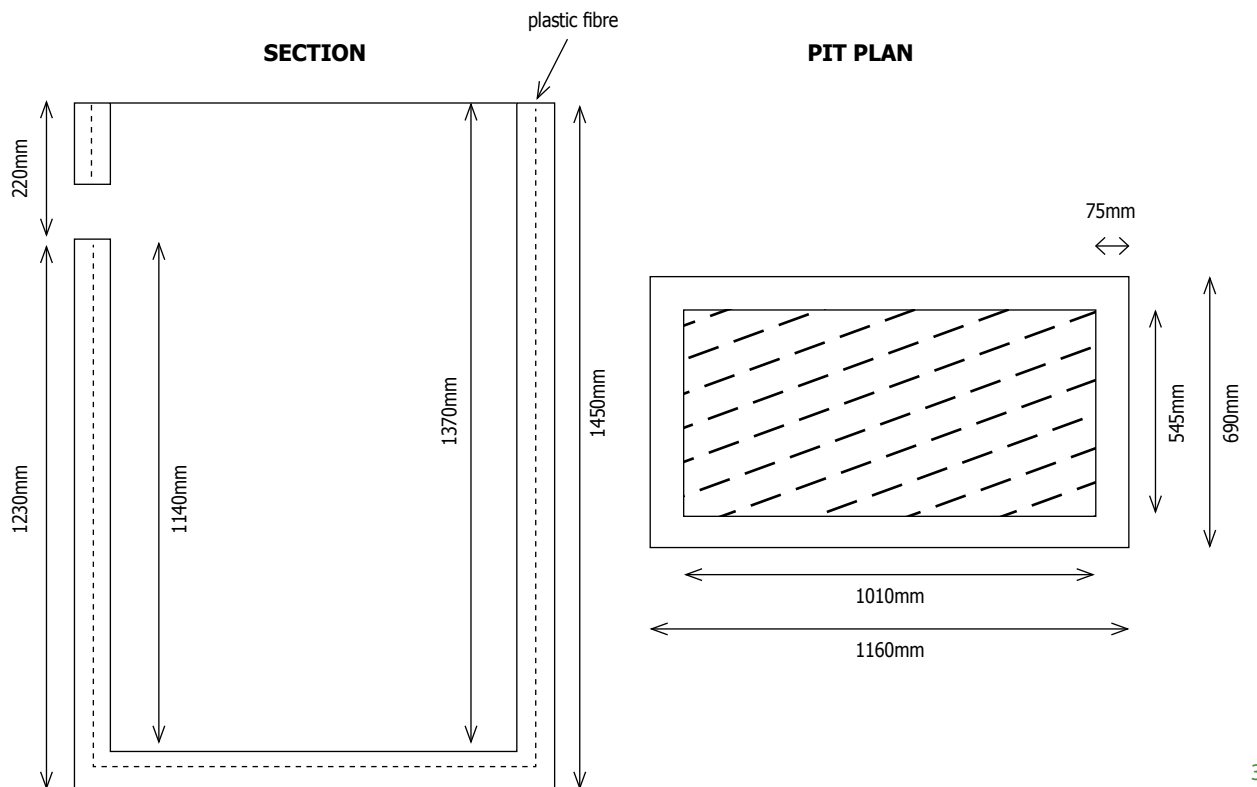
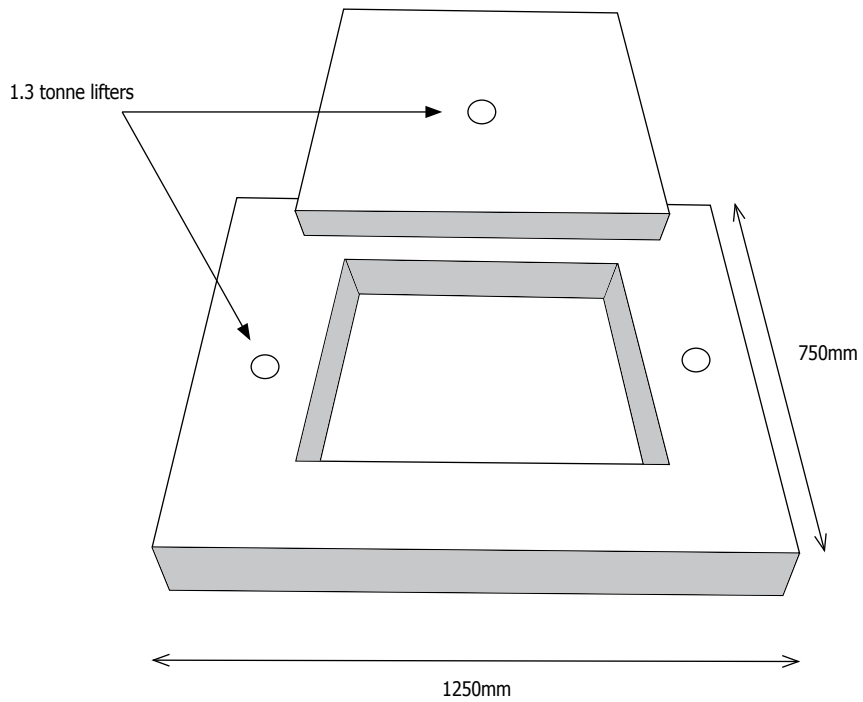
- Precast concrete saddle riser coverslab with 600mm dia cast iron Class B light duty cover
- Designed to suit 250mm and 400mm high saddle risers and increments
- There is width overlap on saddles and width and length overlap on the increment - cover is rebated to suit either saddle or increment

Item	Approx Mass
Septic tank coverslab	340kg



Precast pump chamber • 622 litre

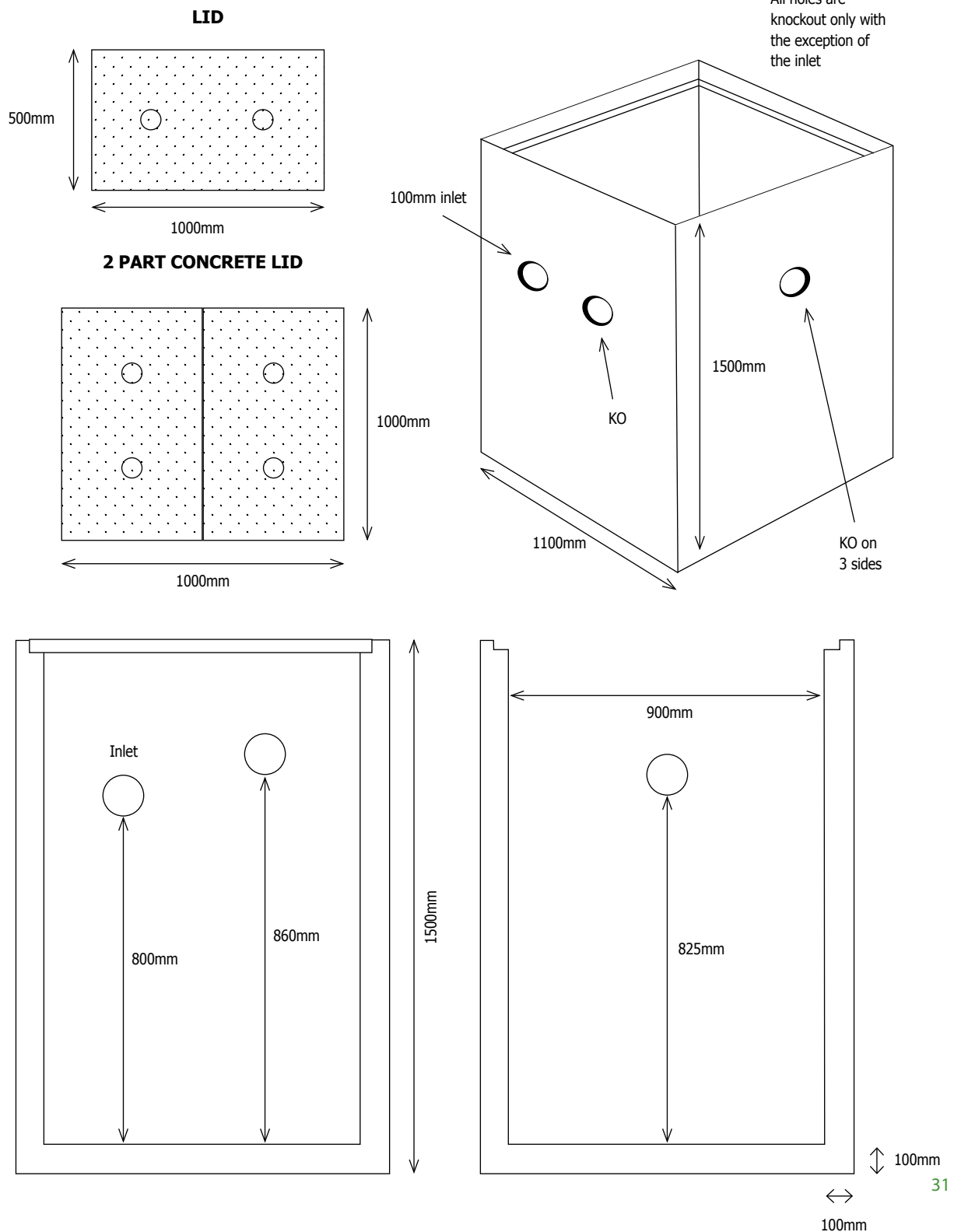
Item	Approx Mass
622 litre precast pump chamber	1,264kg



Precast pump chamber • 1,100 litre

- Constructed using concrete with plastic fibre

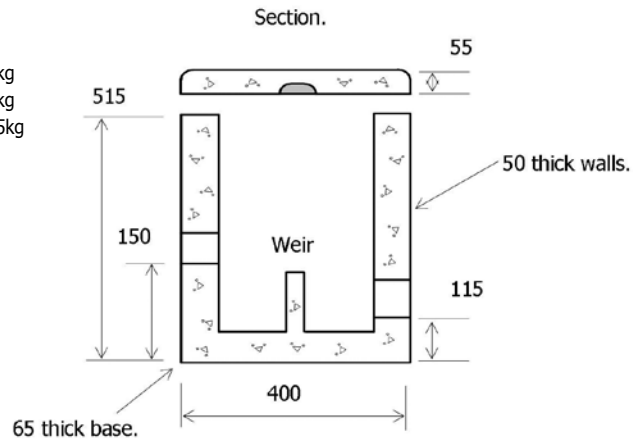
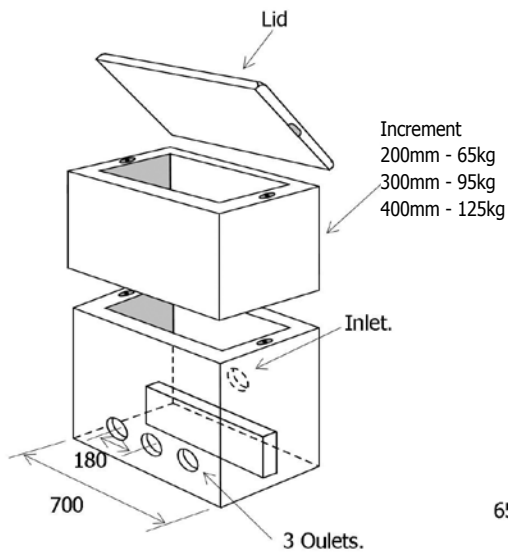
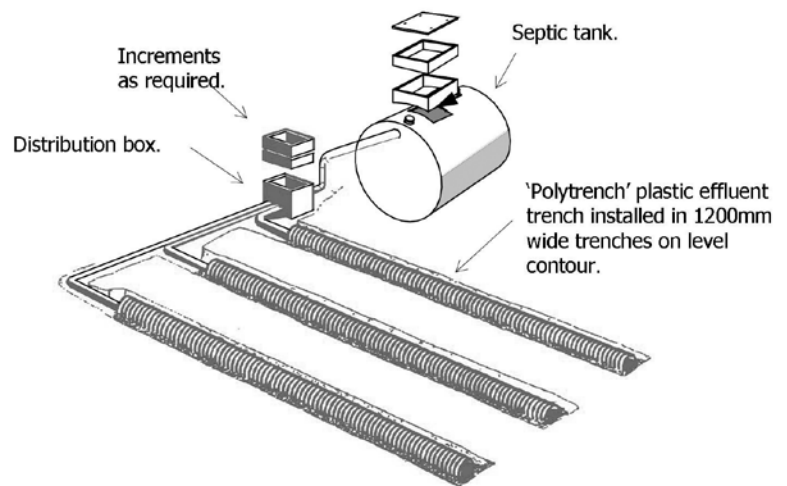
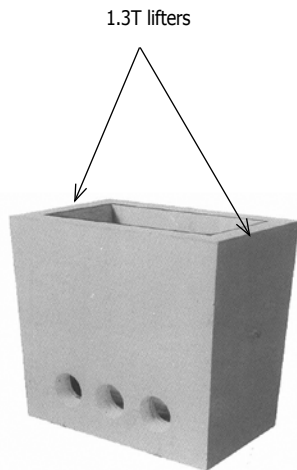
Item	Approx Mass
1,100 litre precast pump chamber	1790kg



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

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

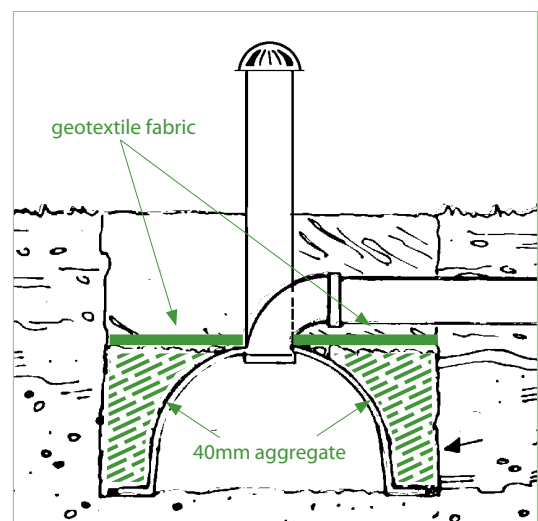
Check with your relevant Health Department before starting to lay Polytrench.

- 1 On a level contour excavate a trench to the required length, 1,200mm 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

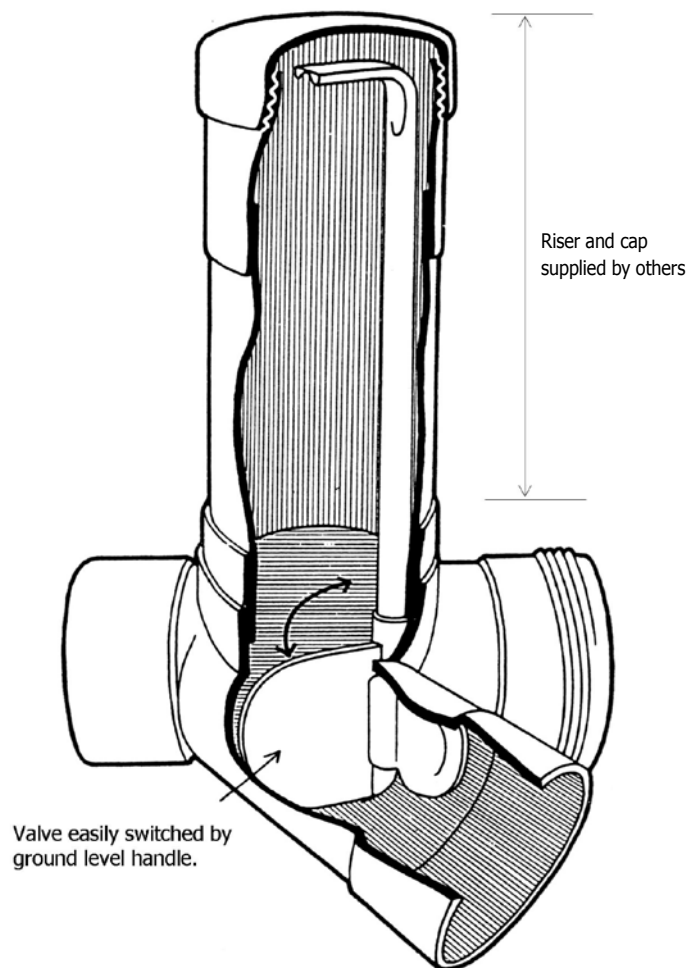
Our Polytrench has interlocking sections, supplied in manageable lengths:

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



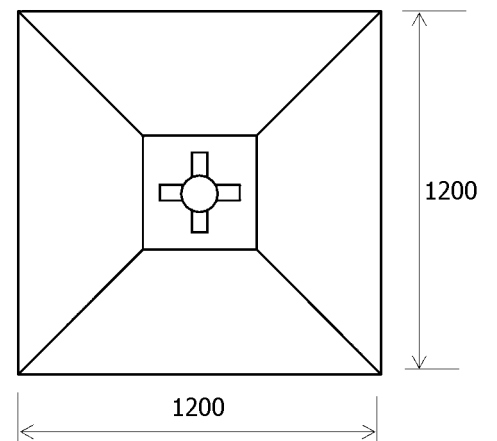
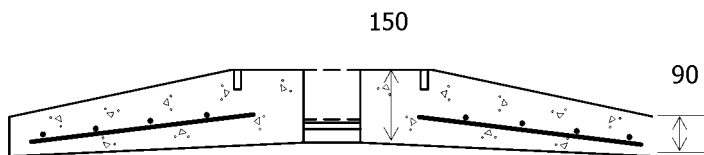
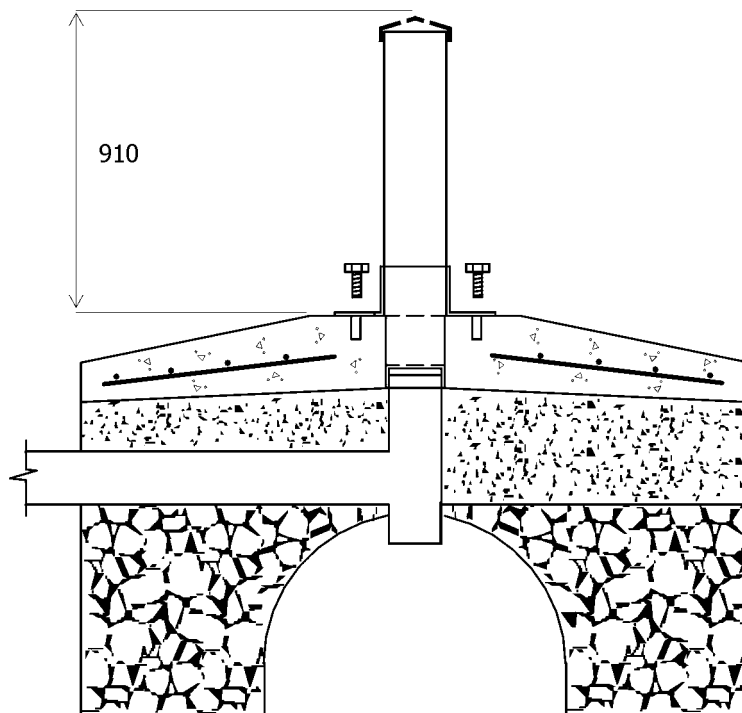
PVC effluent diverter junction

- 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 with left and right hand diversion



Induct vents

Item	Approx Mass
Induct vent base complete	386kg



'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.

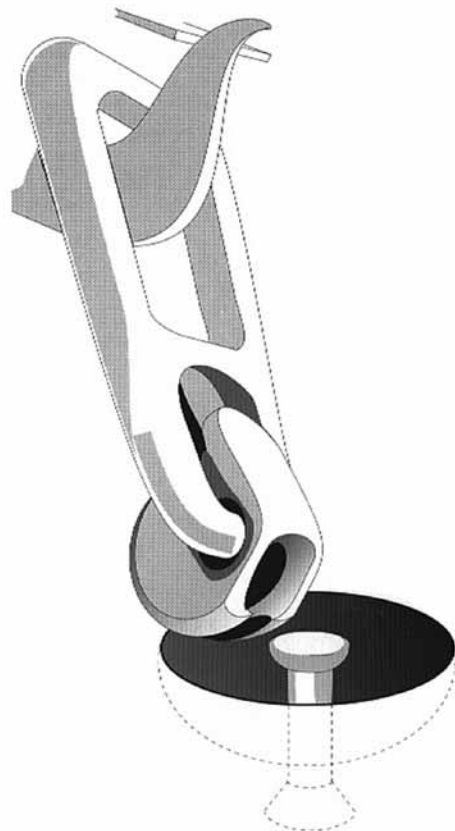
The system uses forged steel anchors which are normally hot dipped galvanised. Each anchor has its capacity, in tonnes, clearly marked on the head to ensure maximum safety on site.

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" 560 - 5,000 litre horizontal cylindrical type septic tank. Where 'Swiftlift' anchors are fitted, these may be used for lifting with an appropriate lifting eye.

