HUNTER DEVELOPMENT HOLDINGS LIMITED
NASH MANOR
Nutbourne Lane
Nutbourne
West Sussex
RH20 2HS

[redacted]
EMAIL: lg@thehuntergroup.co.uk
www.thehuntergroup.co.uk

PLANNING STATEMENT

NASH MANOR, NUTBOURNE LANE, NUTBOURNE, WEST SUSSEX, RH20 2HS

DISCHARGE OF CONDITIONS – DC/24/0883 INSTALLATION OF SWIMMING POOL AND ASSOCIATED PLANT ROOM (PART RETROSPECTIVE)

CONDTION 3

Nash Manor water efficiency measures and rainwater harvesting system:

A 1500l Graf Platin Rainwater underground tank has been installed into which all rainwater down pipes collect water from 95 sqm of pitched roof and 25 sqm of flat roofs of Nash Manor discharge.

The underground rainwater tank is fitted with a pump leading to an automatic top up system for the swimming.

Appendix A: Graf underground tank details

Appendix B: Invoice for the purchase of the tank

Appendix C: Image of the tank installed with access hatches showing

CONDTION 4

Evidence has been submitted to prove the rainwater harvesting system has been installed as required.

Further we have provided evidence that the initial water fill was sourced from outside the Sussex North Supply Zone through the production of the invoice for the purchase of water from Water Direct Essex.

Appendix D: Invoice of purchase of water

Company registration: 03606898. Incorporated United Kingdom. Registered address: Amelia House, Crescent Road, Worthing, BN11 1RL

HUNTER DEVELOPMENT HOLDINGS LIMITED
NASH MANOR
Nutbourne Lane
Nutbourne
West Sussex
RH20 2HS

[redacted]
EMAIL: lg@thehuntergroup.co.uk
www.thehuntergroup.co.uk

APPENDIX A: GRAF UNDERGROUND TANK DETAILS

Company registration: 03606898. Incorporated United Kingdom. Registered address: Amelia House, Crescent Road, Worthing, BN11 1RL

mail@graf.info
www.graf.info

Installation and maintenance instructions for PLATIN Rainwater Underground Tank

PLATIN	
1500 L	Order No. 390000
3000 L	Order No. 390001
5000 L	Order No. 390002
7500 L	Order No. 390005



The points described in these instructions must be observed under all circumstances. All warranty rights are invalidated in the event of non-observance. Separate installation instructions are enclosed in the transportation packaging for all additional articles purchased from GRAF.

Missing instructions must be requested from us immediately.

The tank must be checked for any damage prior to insertion into the trench under all circumstances.

Missing instructions can be downloaded on www.graf.info or can be requested from GRAF.

Table of contents

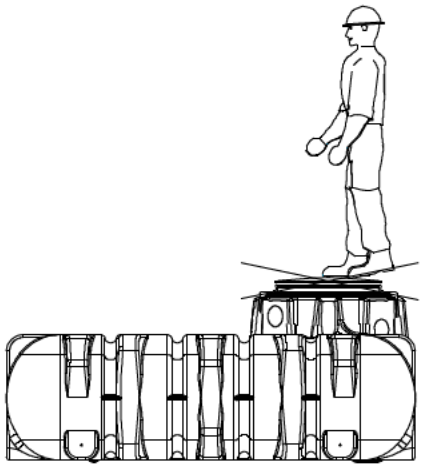
1.	GENERAL NOTES	12
1.1	Security	12
1.2	Identification obligation	12
2.	INSTALLATION CONDITIONS	13
3.	TECHNICAL DATA	14
3.1	Technical Data Platin	14
3.2	Overview tanks Platin	14
4.	TANK STRUCTURE	15
5.	INSTALLATION AND ASSEMBLY	15
5.1	Construction site	16
5.2	Trench	16
5.3	Insertion and filling	18
5.4	Routing connections	18
6.	ASSEMBLING THE AND TELESCOPIC DOME SHAFT	19
6.1	Assembling the telescopic dome shaft	19
6.2	Telescopic dome shaft on which persons may walk...	
6.3	Telescopic dome shaft over which passenger cars may drive	19
6.4	Telescopic dome shaft for HGV loading	19
7.	ASSEMBLY OF THE ADAPTER	20
7.1	Assembling the extension	20
8.	INSPECTION AND SERVICING	20

1. General notes

1.1 Security

The relevant accident prevention regulations according to BGV C22 must be observed during all work. Particularly when walking on the tanks, a 2nd person is required to secure the tank.

The relevant regulations and standards must additionally be taken into consideration during installation, assembly, servicing, repair, etc. Relevant notes can be found in the corresponding sections of these instructions.



During all work on the system or parts of the system, the entire system must always be rendered inoperable and secured to prevent unauthorised reactivation.

Except in the event of work carried out in the tank, the cover of the tank must always be kept sealed, as this otherwise constitutes a maximum risk of accident. The rain protection installed on delivery is merely transportation packaging. It cannot be walked on and is not child-proof; it must be replaced with a suitable cover immediately following delivery (telescopic dome shaft with corresponding cover)!

Only original GRAF covers or covers approved in writing by GRAF must be used.

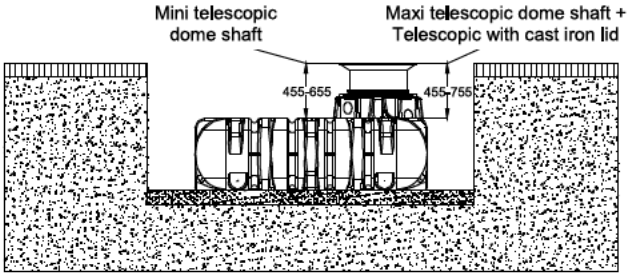
GRAF offers an extensive range of accessories, all of which are designed to match each other and which can be extended to form complete systems. The use of accessories that have not been approved by GRAF results in the exclusion of the warranty/guarantee.

1.2 Identification obligation

All service water pipes and outlets must be identified in writing with the words "**Not drinking water**" or in the form of images (DIN 1988 Part 2, Para. 3.3.2.) in order to avoid inadvertent connection with the drinking water mains even after a number of years. Mix-ups, e.g. by children, may still occur even in the case of correct identification. All service water extraction points must therefore be installed with valves with **child-proof locks**.

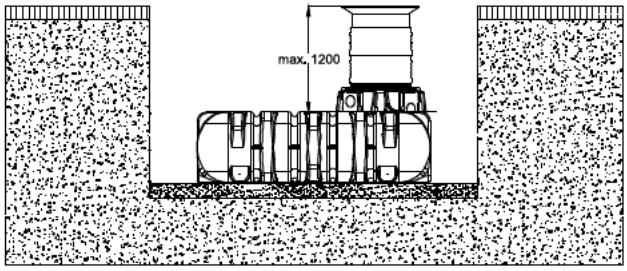
2. Installation conditions

Coverage heights with telescopic dome shaft in green areas.



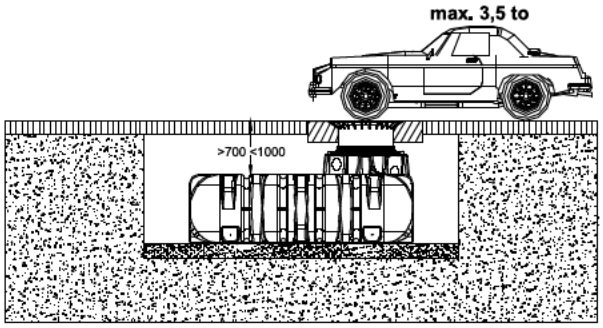
Maximum coverage heights with extension and telescopic dome shaft.

(in green areas only – not under passable areas)



Cover heights with cast iron telescopic dome shaft (class B) in area driven over by vehicles up to 3.5 tonnes.

(without groundwater and stratum water)

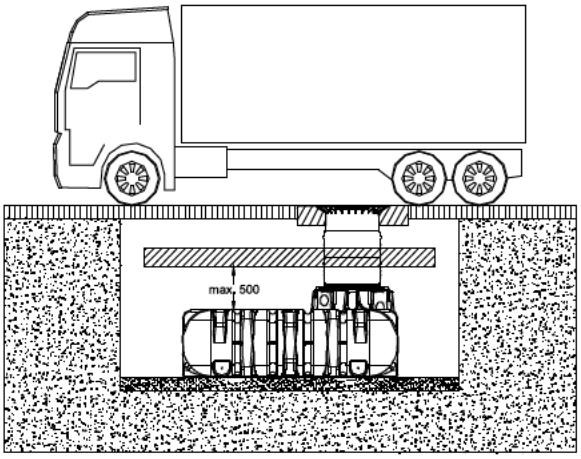


Cover heights with cast or HGV-bearing telescopic dome shaft

(with cover class B or D – provided by customer), in area driven over by HGVs.

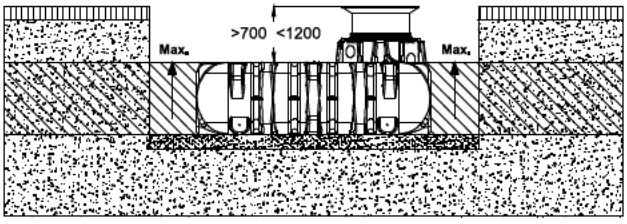
(without groundwater and stratum water)

Please note: HGV can only be driven over if a self-supporting, (Steel)-reinforced concrete plate is installed



Coverage heights on installation in groundwater – the hatched area specifies the permissible immersion depth for the tank.

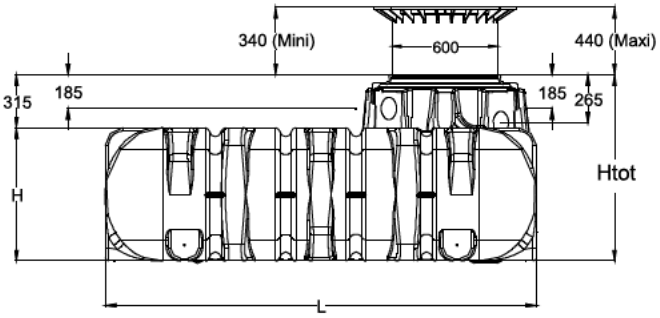
(not under passable areas)

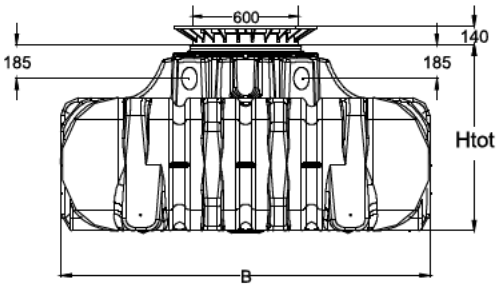


3. Technical data

3.1 Technical Data Platin

(1500 L, 3000 L, 5000 L, 7500 L)





3.2 Overview tanks Platin

Tank	1500 L	3000 L	5000 L	7500 L
Art. No.	390000	390001	390002	390005
Weight	82 kg	180 kg	250 kg	380 kg
L	2100 mm	2450 mm	2890 mm	3600 mm
W	1250 mm	2100 mm	2300 mm	2250 mm
H	700 mm	735 mm	1000 mm	1250 mm
Htot*	1015 mm	1050 mm	1315 mm	1565 mm

* Htot = total height

4. Tank structure

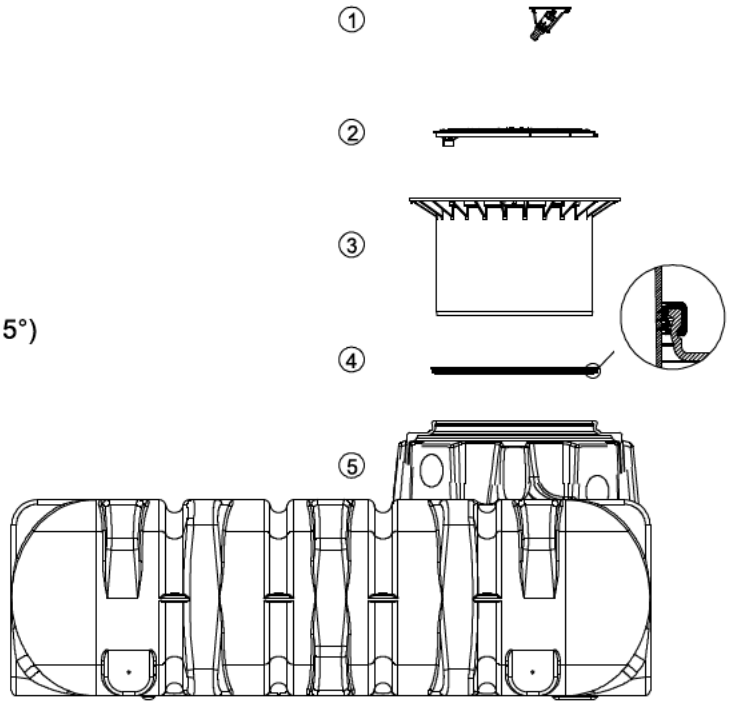
① Water connector box internal (optional)

② PE cover for telescopic dome shaft

③ Telescopic dome shaft (can be inclined by 5°)

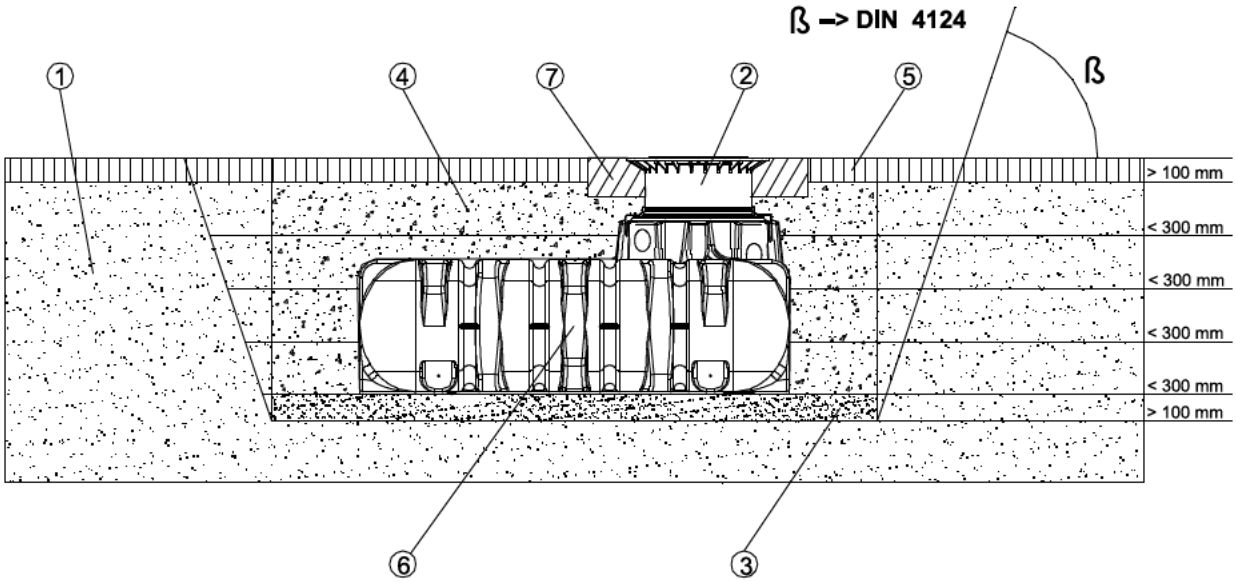
④ Profile seal

⑤ Tank dome



5. Installation and assembly

① Subsoil
② Telescopic dome shaft
③ Compacted foundation
④ Surrounding (round-grained gravel, max. grain size 8/16)
⑤ Covering layer
⑥ PLATIN Rainwater Underground Tank
⑦ Concrete layer for passable surfaces
ß –> DIN 4124 from 1250 mm depth of the trench



5. Installation and assembly

5.1 Construction site

Under all circumstances, the following points must be clarified prior to installation:

- The structural suitability of the ground according to DIN 18196
- Maximum groundwater levels which occur and drainage capability of the subsoil
- Types of load which occur, e.g. traffic loads
- **Please note:** HGV can only be driven over if a self-supporting, steel-reinforced concrete plate is installed!

An expert ground report should be requested from the local planning authority to determine the physical characteristics of the subsoil.

5.2 Trench

To ensure that sufficient space is available for working, the base area of the trench must exceed the dimensions of the tank by > 100 mm on each side; the distance from solid constructions must be at least 1000 mm.

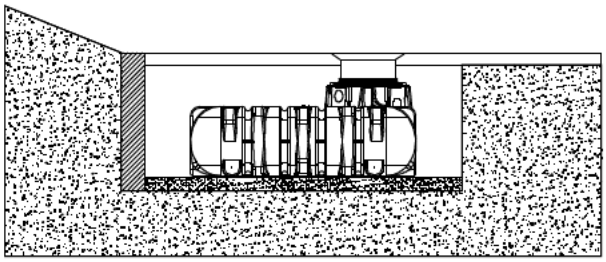
If the depth of the trench is > 1250 mm an embankment must be designed according to DIN 4124. The construction site must be horizontal and plane and must guarantee sufficient load-bearing capacity.

The depth of the trench must be dimensioned so that the max. earth coverage (see point 2 – installation conditions) above the tank is not exceeded. To use the system throughout the entire year, it is necessary to install the tank and those parts of the system which conduct water in the frost-free area. The frost-free depth is usually approx. 600 mm – 800 mm; precise information in this regard can be obtained from the responsible authority.

A layer of compacted, round-grain gravel (grain size 8/16, thickness approx. 100 - 150 mm) is applied as the foundation.

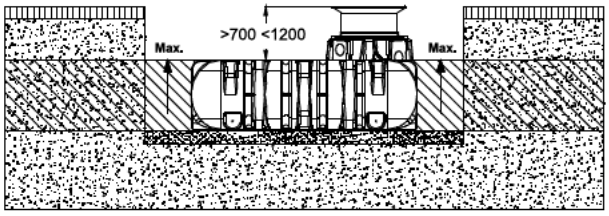
5.2.1 Slope, embankment, etc.

On installation of the tank in the immediate vicinity (< 5 m) of a slope, earthen mound or slope, a statically calculated supporting wall must be erected to absorb the soil pressure. The wall must exceed the dimensions of the tank by at least 500 mm in all directions, and must be located at least 1000 mm away from the tank.



5.2.2 Groundwater and cohesive (water-impermeable) soils (e.g. clay soil)

If it is anticipated that the tanks will be immersed deeper into the groundwater than is shown in the adjacent figure, sufficient dissipation must be ensured. (See table for max. immersion depth).



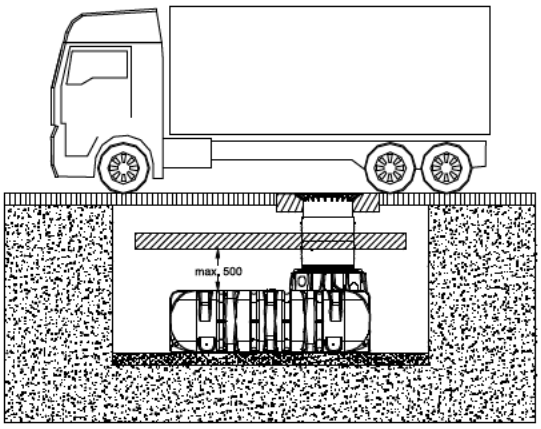
Dissipation of the drainage water (e.g. via an annular drainage system) is recommended in the case of cohesive, water-impermeable soils.

Tank	1500 L	3000 L	5000 L	7500 L
max. immersion depth	700 mm	735 mm	1000 mm	1250 mm

5.2.3 Installation below HGV-bearing surfaces

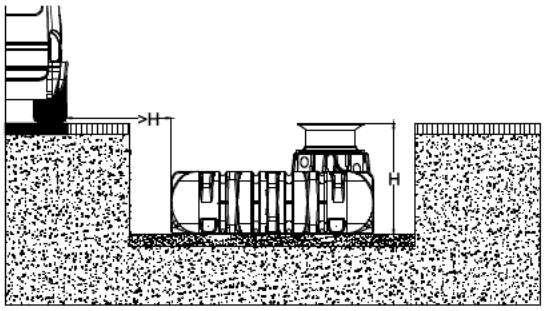
The shaft can only be driven over with HGV in conjunction with a self-supporting, iron-reinforced concrete plate. To ensure that no additional forces or effects of HGV-bearing are transferred to the tanks, the dimensions and strength of the concrete plate must be statically calculated.

If you have any questions in this regard, please contact your GRAF-Team.



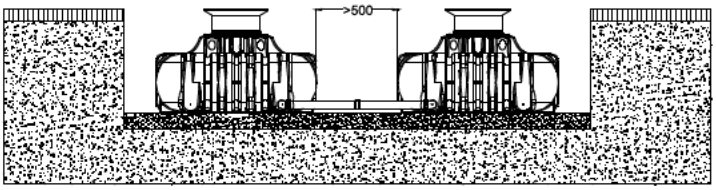
5.2.4 Installation adjacent to surfaces used by vehicles

If the underground tanks are installed adjacent to surfaces which are used by heavy vehicles weighing over 3,5 t, the minimum distance away from these surfaces is at least the depth of the trench.



5. Installation and assembly

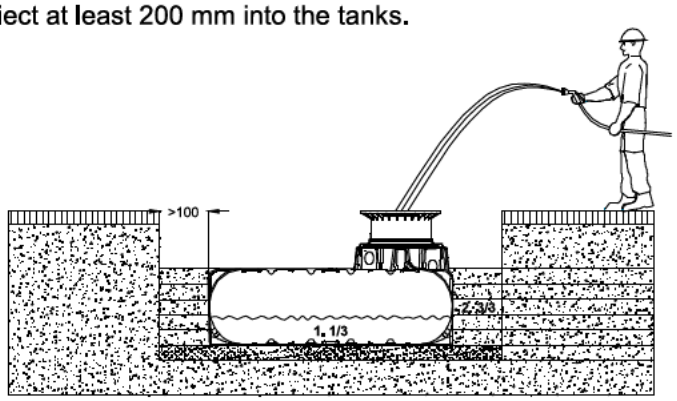
5.2.5 Connection of several tanks



Two or more tanks are connected via the assembly surfaces by means of GRAF special seals and basic pipes (to be provided at construction site).

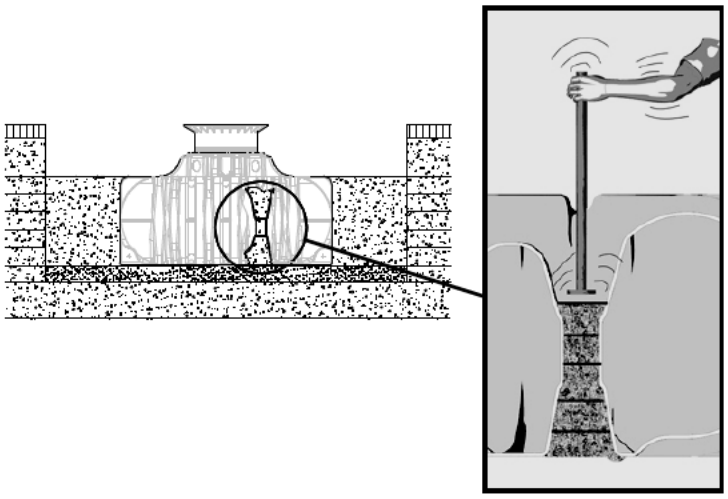
The apertures must be drilled to the corresponding size using only the GRAF special crown bit. It must be ensured that the distance between the tanks is at least 500 mm. The pipes must project at least 200 mm into the tanks.

5.3 Insertion and filling



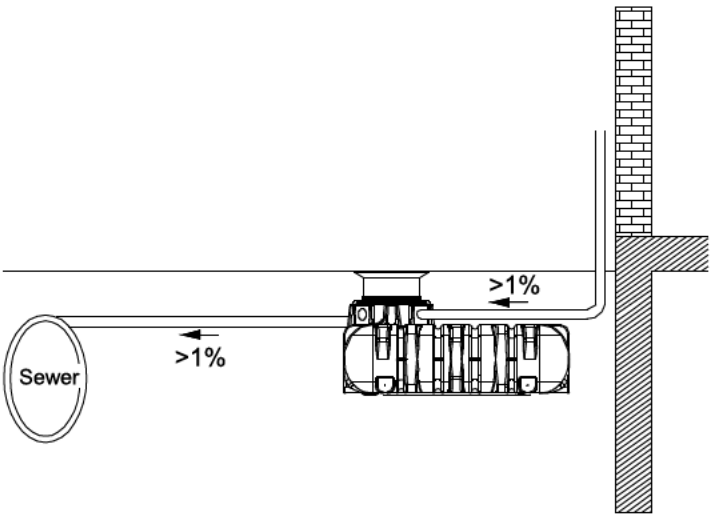
The tanks must be inserted, impact-free, into the prepared trench using suitable equipment. To avoid deformities, the tank is filled 1/3 with water before filling in the tank surrounding.

Afterwards the surrounding (roundgrain gravel, max. grain size 8/ 16) is then filled in layers of max. 30 cm steps and is compacted.



The individual layers as well as the medial support column must be well-compacted (manuel tamper). Damage to the tank must be avoided during compaction. Mechanical compaction machines must not be used under any circumstances. The surrounding towards the trench must be at least 100 mm wide.

5.4 Routing connections



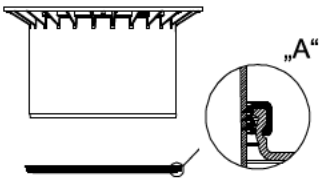
All feed and overflow pipes must be routed with a decline of at least 1 % in the direction of flow (possible, subsequent settling must be taken into consideration in this case). If the tank overflow is connected to a public sewer, this must be protected against reflux by means of a lifting station (mixed sewer) or reflux seal (pure rainwater sewer) according to DIN 1986.

All suction, pressure and control lines must be routed in an empty pipe, which must be routed as straight as possible, without bending, to the tank with a decline. Necessary bends must be formed using 30° moulded sections.

Important: The empty pipe must be connected to an aperture **above** the max. water level.

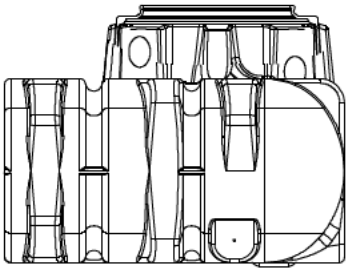
6. Assembling the telescopic dome shaft

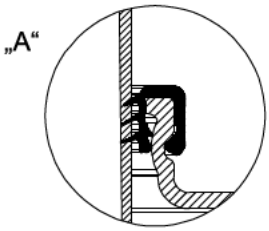
6.1 Assembling the telescopic dome shaft



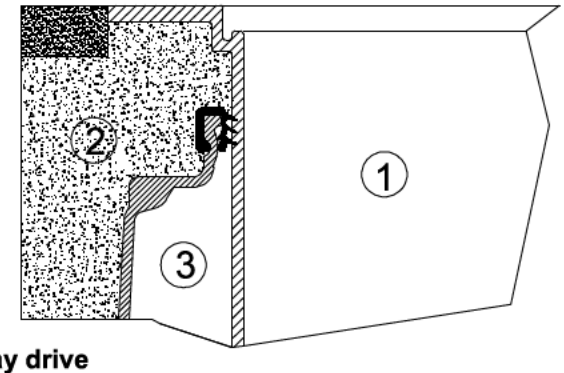
The telescopic dome shaft enables infinite adaptation of the tank to given site surfaces with earth coverage of between 455 mm and 655 mm (Mini telescopic dome shaft) or 455 mm and 755 mm (Maxi telescopic dome shaft).

For assembly purposes, the enclosed profile seal (material EPDM) is inserted into the tank dome's sealing groove and is coated generously with soft soap (do not use mineral oil-based lubricants, as these attack the seal). The telescope is then greased, inserted and aligned with the surface of the site.



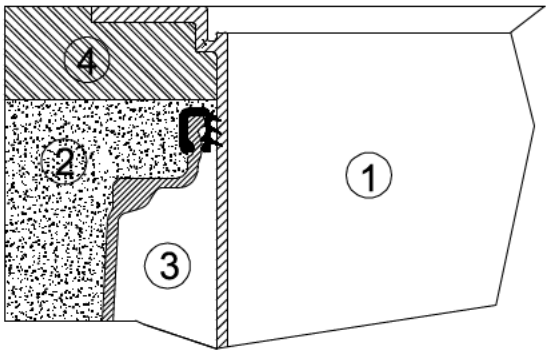


6.2 Telescopic dome shaft on which persons may walk



Important: To prevent loads from being transferred onto the tank, round-grain gravel ② (max. grain size 8/ 16) is filled in in layers around the telescope ① and is evenly compacted. Damage to the tank dome ③ and telescope must be avoided during this step. The cover is then positioned and is sealed to prevent entry by children. **Tighten the threaded connection on the cover so tightly that it cannot be opened by a child!**

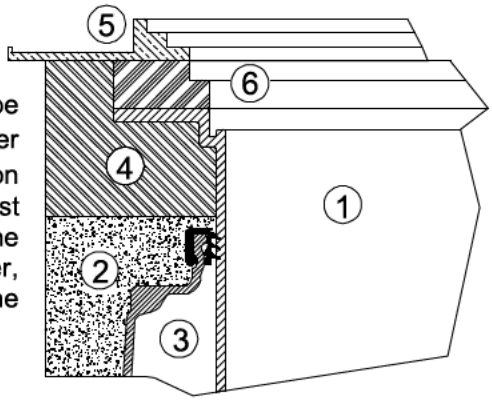
6.3 Telescopic dome shaft over which passenger cars may drive



If the tank is installed under areas used by passenger cars, the collar area of the telescope ① (colour anthracite) must be supported with concrete ④ (load class B25 = 250 kg/ m²). The layer of concrete to be installed must be at least 300 mm wide and approx. 200 mm high all around. The permitted coverage above the shoulder of the tank is min. **700 mm** and max. **1000 mm.** There are different possibilities for lengthening the tank dome (315 mm): telescopic dome shaft with cast iron lid or Begu (max. effective length 440 mm) as well as the Adapter (max. effective length 300 mm).

Attention: Use the cast cover under all circumstances.

6.4 Telescopic dome shaft for HGV loading



When installing below surfaces driven on by HGVs, the telescope is lined ① as described in 7.3. The concrete rings ⑥ (diameter 600 mm) and a cast frame ⑤ with star-shaped load distribution are then installed to support the cast cover. The cast frame must have a contact area of approx. 1 m². To extend the shaft, the telescopic dome shaft for HGV loading with class D cover, provided by the customer (max. useful length 440 mm), and the spacer (max. useful length 300 mm) can be used.

Please note: Can only be driven over with HGV, if a self-supporting, steel -reinforced concrete plate is installed

7. Assembly of the adapter

7.1 Assembling the extension

For larger coverage heights an extension is needed. To insert the extension into the tank dome, soft soap is needed. Into the highest groove of the extension the profile seal is inserted an greased generously. Afterwards push the telescopic dome shaft into the extension and adapt it to the planned area surface.

1 Extension = max. earth-cover 955 mm respectively 1055 mm

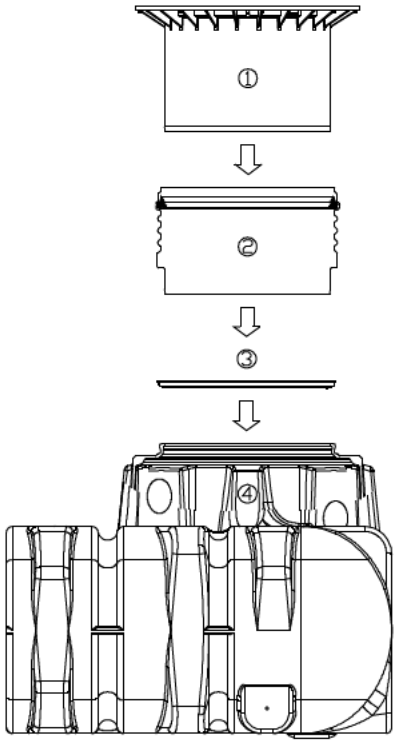
(in connection with Mini respectively Maxi telescopic dome shaft)

① Telescopic dome shaft (can be inclined by 5°)

② Extension

③ Profile seal

④ Tank dome Platin



8. Inspection and servicing

The entire system must be checked for leaks, cleanliness and stability at least every three months.

The entire system should be serviced at intervals of approx. 5 years. In this case, all parts of the system must be cleaned and their function checked. Servicing should be carried out as follows:

- Drain the tank completely
- Clean surfaces and internal parts with water
- Remove all dirt from the tank
- Check that all internal parts are firmly seated.

HUNTER DEVELOPMENT HOLDINGS LIMITED
NASH MANOR
Nutbourne Lane
Nutbourne
West Sussex
RH20 2HS

[redacted]
EMAIL: lg@thehuntergroup.co.uk
www.thehuntergroup.co.uk

APPENDIX B: INVOICE FOR THE PURCHASE OF THE TANK

Company registration: 03606898. Incorporated United Kingdom. Registered address: Amelia House, Crescent Road, Worthing, BN11 1RL

Invoice

Kingspan Water & Energy Ltd
180 Gilford Road
Portadown
Co Armagh
BT63 5LF

Telephone: 01643 703358
Email: sales@tanks-direct.co.uk
Website: https://www.tanks-direct.co.uk

Mr Lee Goossens
Nash Manor, Lower Nash
Nutbourne Lane, Nutbourne
Pulborough
West Sussex
RH20 2HS
GB

Order no: [redacted]

Please contact us to request a return or alternatively use the link below:
Request a return

Order No: [redacted] **Order Date:** 02/07/2024 **Invoice Number:** INV117452 **Invoice Date:** 03/07/2024
PO Reference:
Customer: Mr Lee Goossens [redacted] **Email:** lg@thehuntergroup.co.uk

Billing Address

Mr Lee Goossens
Hunter Developments
Nash Manor, Lower Nash
Nutbourne Lane, Nutbourne
Pulborough
West Sussex
RH20 2HS
GB

Delivery Address

Mr Lee Goossens
Nash Manor, Lower Nash
Nutbourne Lane, Nutbourne
Pulborough
West Sussex
RH20 2HS
GB

Qty	Description	Status	Unit Net	Price	Line VAT	Total
1	**Platin Direct Complete Package 1500L (G70175)** G70175	To follow	[redacted]	[redacted]	[redacted]	[redacted]
1	GRFREE Delivery	-	£0.00	£0.00	£0.00	£0.00

Sub Total (ex VAT): [redacted]
VAT Total: [redacted]
Total (inc VAT): [redacted]

Amount Paid: [redacted]

THANK YOU FOR YOUR PURCHASE

VAT No: GB 412 512 403
Company No. NI017631
Registered in Northern Ireland

HUNTER DEVELOPMENT HOLDINGS LIMITED
NASH MANOR
Nutbourne Lane
Nutbourne
West Sussex
RH20 2HS

[redacted]
EMAIL: lg@thehuntergroup.co.uk
www.thehuntergroup.co.uk

APPENDIX C: IMAGE OF THE TANK INSTALLED WITH ACCESS HATCHES SHOWING

Company registration: 03606898. Incorporated United Kingdom. Registered address: Amelia House, Crescent Road, Worthing, BN11 1RL



HUNTER DEVELOPMENT HOLDINGS LIMITED
NASH MANOR
Nutbourne Lane
Nutbourne
West Sussex
RH20 2HS

[redacted]
EMAIL: lg@thehuntergroup.co.uk
www.thehuntergroup.co.uk

APPENDIX D: INVOICE OF PURCHASE OF WATER

Company registration: 03606898. Incorporated United Kingdom. Registered address: Amelia House, Crescent Road, Worthing, BN11 1RL

Liquiline and Water Direct have come together, you can read more here.

INVOICE

Victor Building, Unit 19
Earls Colne Business Park
Earls Colne
Colchester
Essex
CO6 2NS

t. 0345 345 1725
e. accounts@water-direct.co.uk

www.water-direct.co.uk
VAT No: 740 6451 47

The Hunter Group [RH20 2HS]
Nash Manor
Lower Nash
Nutbourne Lane
///event.massaging.icebergs
Pulborough
RH20 2HS
UNITED KINGDOM

Customer Order No	Invoice Date	Due Date	Invoice Number
[redacted]	09 August 2024	09 Aug 2024	[redacted]

Description	Quantity	Unit Price	VAT	Amount
Delivery Address: Nash Manor, Lower Nash, Nutbourne Lane, Pulborough RH20 2HS		£		£
Planned Rate- Delivery of up to 18,000 litres of quality assured drinking water (Including up to 4 hrs on site)	[redacted]	[redacted]	20%	[redacted]
Tanker 1 - Arrival 8am - 8th Aug Tanker 2 - Arrival 12pm - 8th Aug Tanker 3 - Arrival 8am - 9th Aug Tanker 4 - Arrival 12pm - 9th aug Arrival on site at a specific time (Per Vehicle)	[redacted]	[redacted]	20%	[redacted]
PAID BY BACS 10.07.24		£		£

	Subtotal	[redacted]
	Total VAT 20%	[redacted]
	Invoice Total	[redacted]

Payment Terms: Strictly 30 Days From Date of Invoice

Bank Details for BACS Payment:
HSBC Bank Plc, 38 High Street, Dartford, Kent, DA1 1DG.
[redacted]