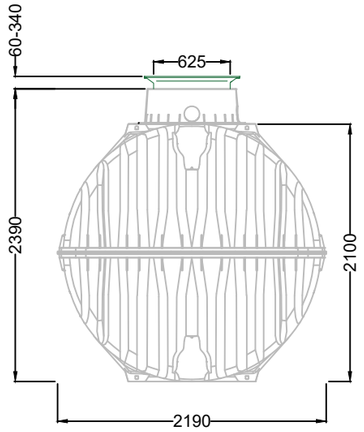
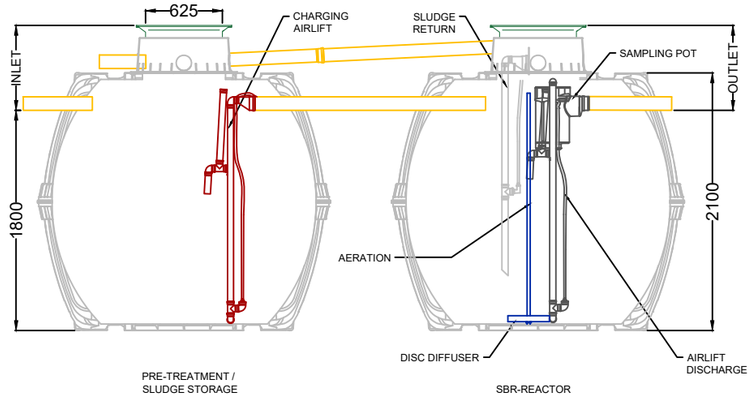
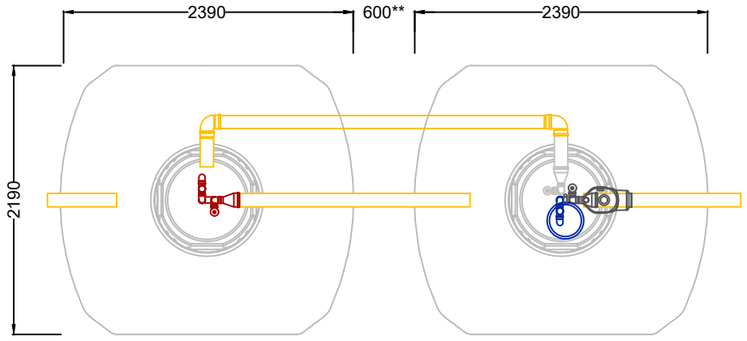
TANK DIMENSIONS







TANK DIMENSIONS

LENGTH	2x2390mm
WIDTH	2190mm
HEIGHT*	2100mm
LID	60-340mm
INLET	590mm + LID
OUTLET	595mm + LID

*WITHOUT DOME OR LID

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GRAF 28PE ONEADVANCED SPECIFICATION



Supply Information:

- *Pedestrian Loading lid (Mini) is part of the standard supply, all other lids are supplied upon request or unless otherwise specified.*
- *Tank Dome (Mini) is part of the standard supply,all other domes are supplied upon request or unless otherwise specified.*
- *Raised Outlet (RO) and Internal Pump Station (IPS) are possible but require specialist information.*
- *If opting for an Extension sleeve (1m), the sleeve can be cut into smaller sizes of 750mm or 500mm of working height.*

ONEADVANCED PACKAGE ADD ONS

(SEE PAGE 2 FOR CONTROL PANEL INFORMATION)

+B BUFFER | +C CARBON DOSING | +O PUMPED OUTLET | +H HYGIENE | +R REMOTE MONITORING | +D DENITRIFICATION | +P PHOSPHATE REMOVAL



INTERNAL PUMP SYSTEM (IPS)
ONLY SUPPLIED WITH MAXI DOME AND RO



COOLING FAN



WARNING LAMP



DOSING PUMP

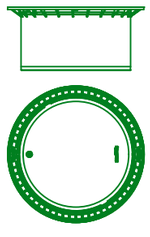
Tank Accessories

Item	Diameter ⌀	Min. Height (mm)	Max. Height (mm)	Max. Loading (kg)*
Pedestrian Loading Lid (Mini)	⌀ 600mm	60mm	340mm	150kg
Pedestrian Loading Lid (Maxi)	⌀ 600mm	60mm	440mm	150kg
Vehicle Loading Lid	⌀ 625mm	60mm	440mm	3,500kg
Extension Sleeve (1m)	⌀ 670mm	500mm	1,000mm	
Extension Sleeve	⌀ 680mm	250mm		
Tank Dome (Maxi)	⌀ 650mm	610mm		
Tank Dome (Mini)	⌀ 650mm	285mm		
Tank Dome (Micro)	⌀ 650mm	90mm		

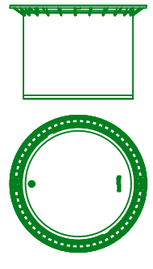
* Loading up to 12,000kg achievable (suitable cover to be provided by others)

** Tank Dome (Maxi) available with DN100 or DN150 connections

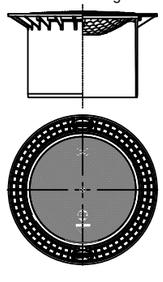
Pedestrian Loading Lid (Mini)
Supplied as standard



Pedestrian Loading Lid (Maxi)



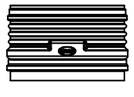
Vehicle Loading Lid



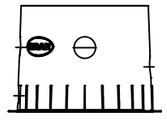
Extension Sleeve (1m)



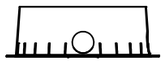
Extension Sleeve



Tank Dome (Maxi)



Tank Dome (Mini)
Supplied as standard



NOTE:- Tank accessory suitability may vary depending on project. Please contact Graf UK for sizing and support.

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P0	LATEST REVISION	KS	18.06.2025

GRAF UK Limited

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T: 01608 661500 F: 01295 211333

E: info@grafuk.co.uk www.grafuk.co.uk

DRAWN : KS DATE : 18.06.2025

CHECKED : DS SCALE : VARIOUS@A3

PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

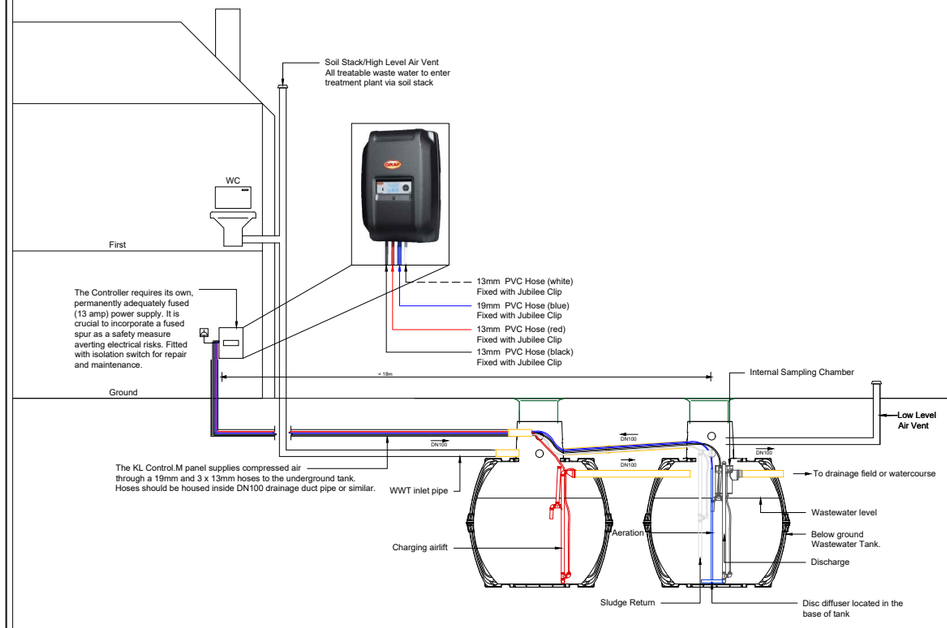
28PE ONEADVANCED
2x6,500L CARAT S

DRAWING No.

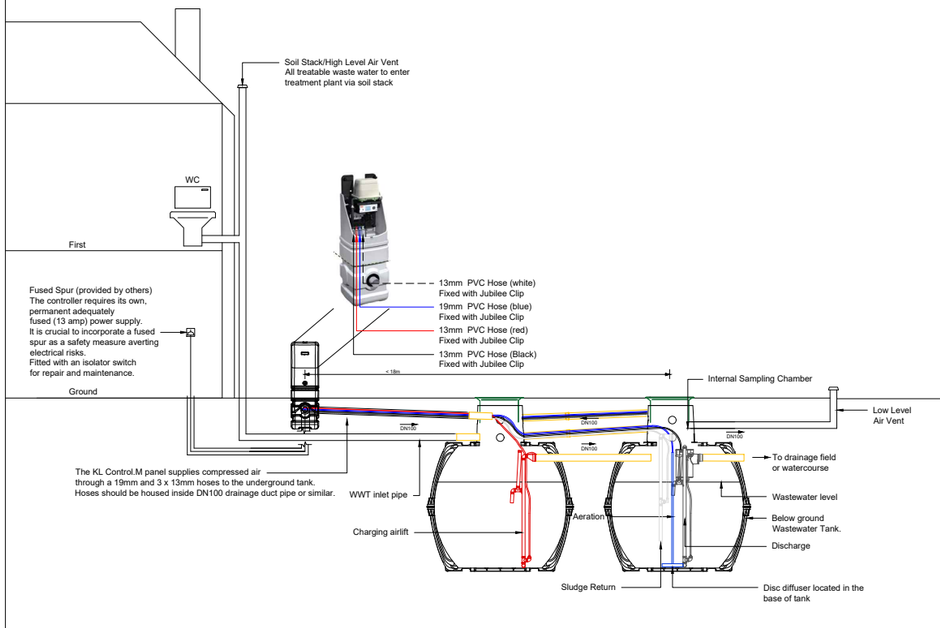
28PE ONEADVANCED STANDARD DETAIL

REV. P0

28PE ONEADVANCED WITH INTERNAL CABINET



28PE ONEADVANCED WITH EXTERNAL CABINET



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GRAF 28PE ONEADVANCED SPECIFICATION



CABINETS

INTERNAL PP CABINET
FOR KL CONTROL.M PANEL



EXTERNAL PLASTIC CABINET M
FOR KL CONTROL.M PANEL &
STANDARD ONE2CLEAN CONTROL PANEL



COMPRESSOR

HIBLOW HP 200
COMPRESSOR



CONTROL PANEL

KL CONTROL M



SYSTEM HOSES

**PLEASE NOTE THAT HOSE COLOURS MAY VARY*



13MM CHARGING AIR LIFT

19MM AERATION

13MM DISCHARGING AIR LIFT

13MM SLUDGE RETURN

NOTE:- Tank accessory suitability may vary depending on project. Please contact Graf UK for sizing and support.

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PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
GRAF 28PE ONEADVANCED
2x6,500L CARAT S

DRAWING No.
28PE ONEADVAANCED STANDARD DETAIL

REV.
P0

TRENCH DETAILS

FOR SUFFICIENT WORKING ROOM, THE BASE AREA OF THE TRENCH MUST EXCEED THE DIMENSIONS OF THE TANK BY 500mm ON ALL SIDES.

MINIMUM DISTANCE FROM SOLID STRUCTURES TO BE 1000mm.

THE TRENCH EMBANKMENT MUST BE DESIGNED SO SLIPPAGE OR COLLAPSE OF THE EMBANKMENT WALL IS NOT TO BE ANTICIPATED.

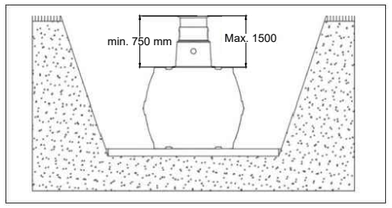
THE CONSTRUCTION SITE MUST BE HORIZONTAL AND PLANE AND MUST GUARANTEE SUFFICIENT LOAD-BEARING CAPACITY.

THE DEPTH OF THE TRENCH MUST BE DIMENSIONED SO THAT THE MAXIMUM COVER ABOVE THE TANK IS NOT EXCEEDED (SEE BELOW DETAILS).

THE TANK AND ANY OTHER COMPONENTS THAT CARRY WATER MUST BE INSTALLED IN A FROST-FREE AREA. THE FROST-FREE DEPTH IS USUALLY APPROX. 600mm-800mm. EXACT DEPTHS CAN BE OBTAINED FROM THE RESPONSIBLY AUTHORITY.

A 150mm-200mm COMPACTED LAYER OF 10-20mm ROUND GRAIN GRAVEL IS INSTALLED AT THE BASE OF THE EXCAVATION.

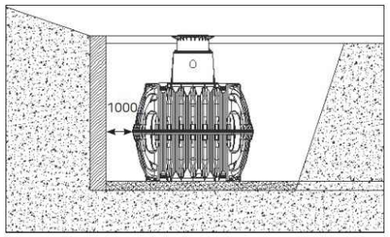
MINIMUM & MAXIMUM COVER



MINIMUM COVER IN A LANDSCAPED AREA TO BE 750mm FROM SHOULDER OF TANK.

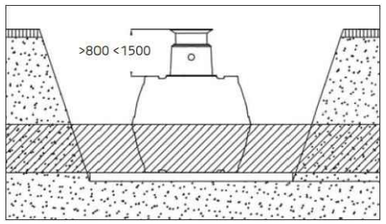
MAXIMUM COVER IN A LANDSCAPED AREA TO BE 1500mm FROM SHOULDER OF TANK.

SLOPE/EMBANKMENT INSTALLATIONS



IF THE TANK IS TO BE INSTALLED IN THE IMMEDIATE VICINITY (<5m) OF A SLOPE OR EMBANKMENT, A STATICALLY CALCULATED RETAINING WALL MUST BE ERECTED TO ABSORB ANY ADDITIONAL LOADING FROM THE SOIL. THE WALL MUST EXCEED THE DIMENSIONS OF THE TANK BY AT LEAST 500mm IN ALL DIRECTIONS AND MUST BE LOCATED AT LEAST 1000mm AWAY FROM THE TANK.

GROUNDWATER INSTALLATIONS



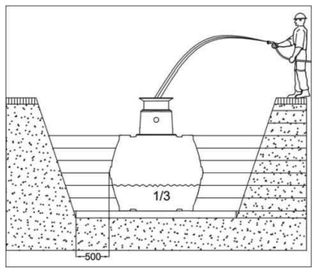
IF IT IS ANTICIPATED THAT THE TANK WILL BE IMMERSED IN GROUNDWATER DEEPER THAN SHOWN IN THE BELOW TABLE, SUFFICIENT DISSIPATION MUST BE ENSURED. DISSIPATION OF THE DRAINAGE WATER (E.G. VIA AN ANNULAR DRAINAGE SYSTEM) IS RECOMMENDED IN CASES OF COHESIVE, WATER-IMPERMEABLE SOIL.

TANK SIZE	2,700L	3,750L	4,800L	6,500L
IMMERSION DEPTH	700mm	795mm	910mm	1050mm

MINIMUM COVER TO BE 800mm FROM SHOULDER OF TANK IN AREAS WITH GROUNDWATER.

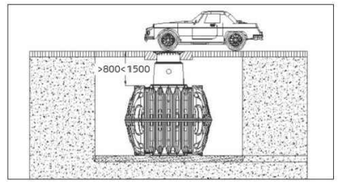
MAXIMUM COVER TO BE 1500mm FROM SHOULDER OF TANK IN AREAS WITH GROUNDWATER.

INSERTION & FILLING



THE TANK MUST BE INSERTED, IMPACT-FREE, INTO THE PREPARED TRENCH USING SUITABLE EQUIPMENT.
THE TANK IS FILLED WITH $\frac{1}{3}$ WATER BEFORE BACKFILLING.
THE 10-20mm ROUND GRAIN GRAVEL IS BACKFILLED IN LAYERS OF MAX. 300mm STEPS AND IS TO BE WELL COMPACTED WITH A MANUAL TAMPER.
MECHANICAL COMPACTION MACHINES ARE NOT TO BE USED UNDER ANY CIRCUMSTANCES.
SURROUND MUST BE AT LEAST 500mm ON ALL SIDES OF THE TANK.

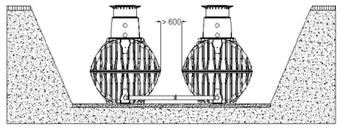
VEHICLE LOADING CONDITIONS



FOR LOADINGS OF UP TO 3,500KG IN TRAFFICKED AREAS WITH NO GROUNDWATER, THERE MUST BE;

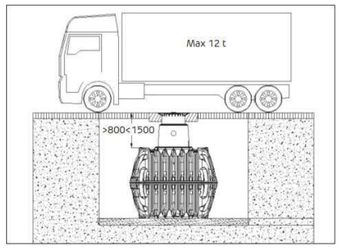
MINIMUM COVER OF 800mm FROM THE SHOULDER OF THE TANK, AND

MAXIMUM COVER OF 1500mm FROM THE SHOULDER OF THE TANK.



TWO OR MORE TANKS ARE CONNECTED VIA THE ASSEMBLY SURFACES USING GRAF SEALS AND BASIC PIPES (TO BE PROVIDED ON-SITE).

THE OPENINGS MUST BE DRILLED TO THE CORRESPONDING SIZE USING ONLY GRAF SPECIAL CROWN BITS. IT IS ESSENTIAL TO ENSURE A MINIMUM GAP OF 600MM BETWEEN THE TANKS. THE PIPES MUST PROJECT 200MM INTO THE TANKS.

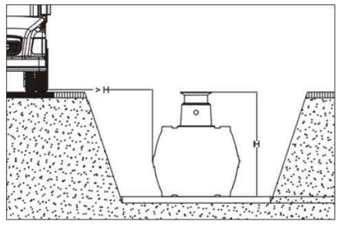


FOR LOADINGS OF MORE THAN 3,500KG AND UP TO 12,000KG IN AREAS OF NO GROUNDWATER, THERE MUST BE;

MINIMUM COVER OF 800mm FROM THE SHOULDER OF THE TANK,

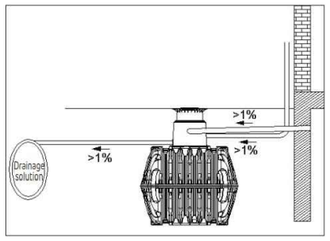
MAXIMUM COVER OF 1500mm FROM THE SHOULDER OF THE TANK, AND

SUITABLE MANHOLE COVER & FRAME (PROVIDED BY OTHERS).



FOR INSTALLATIONS ADJACENT TO SURFACES USED BY VEHICLES OF OVER 3,500KG, THE TANK MUST BE INSTALLED AT A DISTANCE FROM THE ROAD SURFACE THAT IT AT LEAST THE DEPTH OF THE TRENCH.

PIPE CONNECTIONS



ALL PIPE CONNECTIONS MUST BE INSTALLED WITH A FALL OF AT LEAST 1% IN THE DIRECTION OF FLOW (POSSIBLE, SUBSEQUENT SETTLING MUST BE TAKEN INTO ACCOUNT).
IF THE TANK OVERFLOW IS CONNECTED TO A PUBLIC SEWER, THIS MUST BE PROTECTED AGAINST REFLUX BY MEANS OF A LIFTING STATION OR REFLUX SEAL IN ACCORDANCE WITH DIN 1986.
ALL SUCTION, PRESSURE & CONTROL LINES MUST BE INSTALLED IN AN EMPTY PIPE / DUCT AND AS STRAIGHT AS POSSIBLE.
ANY NECESSARY BENDS MUST BE FORMED IN 30 DEGREE MOULDED SECTIONS.
IMPORTANT: THE EMPTY PIPE / DUCT MUST BE CONNECTED TO AN APERTURE **ABOVE** THE MAX. WATER LEVEL.

PLEASE REFER TO TANK INSTALLATION GUIDE FOR DETAILS ON; SAFETY, PRODUCT FEATURES, IDENTIFICATION OBLIGATIONS, TECHNICAL DATA, TANK STRUCTURE, TANK ASSEMBLY & SERVICING AND INSPECTION.

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GRAF 28PE ONEADVANCED INSTALLATION



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PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
GRAF 28PE ONEADVANCED 2x6,500L CARAT S

DRAWING No.
28PE ONEADVANCED STANDARD DETAIL

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P0