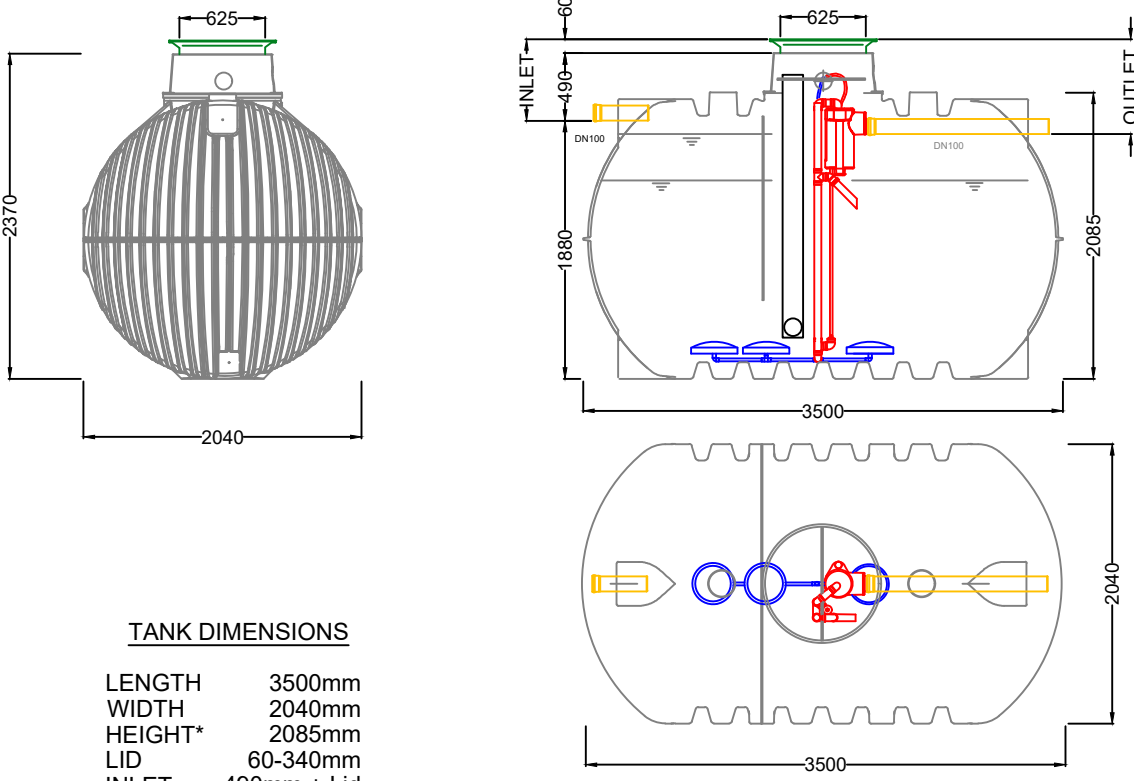


TANK DIMENSIONS

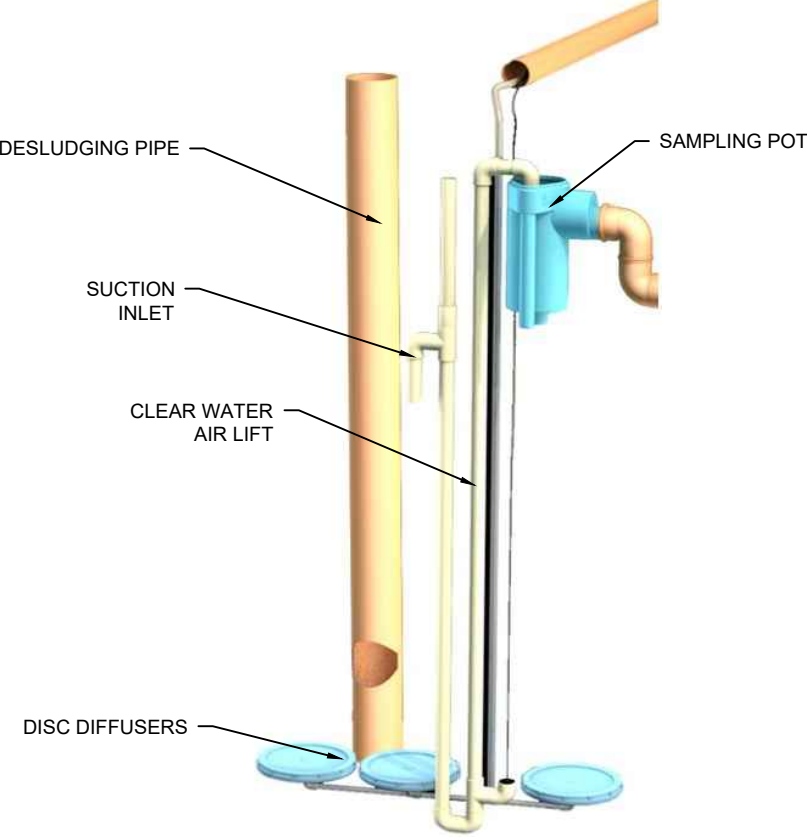


TANK DIMENSIONS

LENGTH	3500mm
WIDTH	2040mm
HEIGHT*	2085mm
LID	60-340mm
INLET	490mm + Lid
OUTLET	590mm + Lid

*WITHOUT DOME OR LID

PIPE SCHEMATIC



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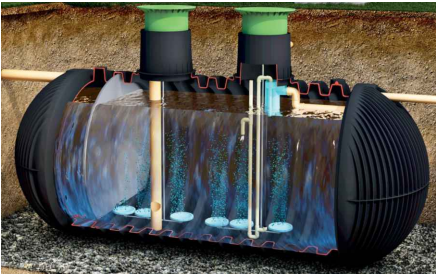
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GRAF 12PE ONE2CLEAN SPECIFICATION



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.
- If opting for an Internal Pump System (IPS), the system must be supplied with a Tank Dome (Maxi) and a Raised Outlet (RO).
- Raised Outlet (RO) upgrade available upon request, please contact GRAF UK for more information.
- If opting for an Extension sleeve (1m), the sleeve can be cut into smaller sizes of 750mm or 500mm of working height.

ONE2CLEAN PACKAGE ADD ONS

(SEE PAGE 2 FOR CONTROL PANEL INFORMATION)



CARBON DOSING



PUMPED OUTLET



HYGIENE



DENITRIFICATION



PHOSPHATE REMOVAL



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



COOLING FAN



WARNING LAMP



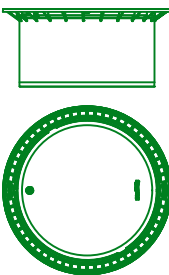
DOSING PUMP

Tank Accessories

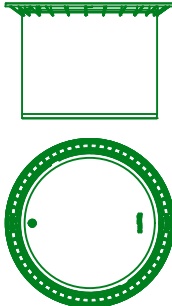
Item	Diameter ø	Min. Height (mm)	Max. Height (mm)	Max. Loading (kg)*
Pedestrian Loading Lid (Mini)	ø 600mm	60mm	340mm	150kg
Pedestrian Loading Lid (Maxi)	ø 600mm	60mm	440mm	150kg
Vehicle Loading Lid	ø 625mm	60mm	440mm	3,500kg
Extension Sleeve (1m)	ø 670mm	500mm	1,000mm	
Extension Sleeve	ø 680mm	250mm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

* Loading up to 12,000kg achievable (suitable cover to be provided by others)
** Tank Dome (Maxi) available with DN100 or DN150 connections

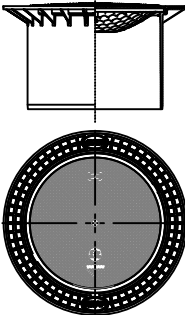
Pedestrian Loading Lid (Mini)
Supplied as standard



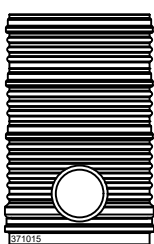
Pedestrian Loading Lid (Maxi)



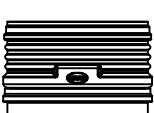
Vehicle Loading Lid



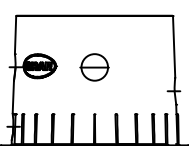
Extension Sleeve (1m)



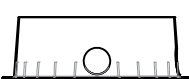
Extension Sleeve



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.

P0	LATEST REVISION	KS	21.11.23
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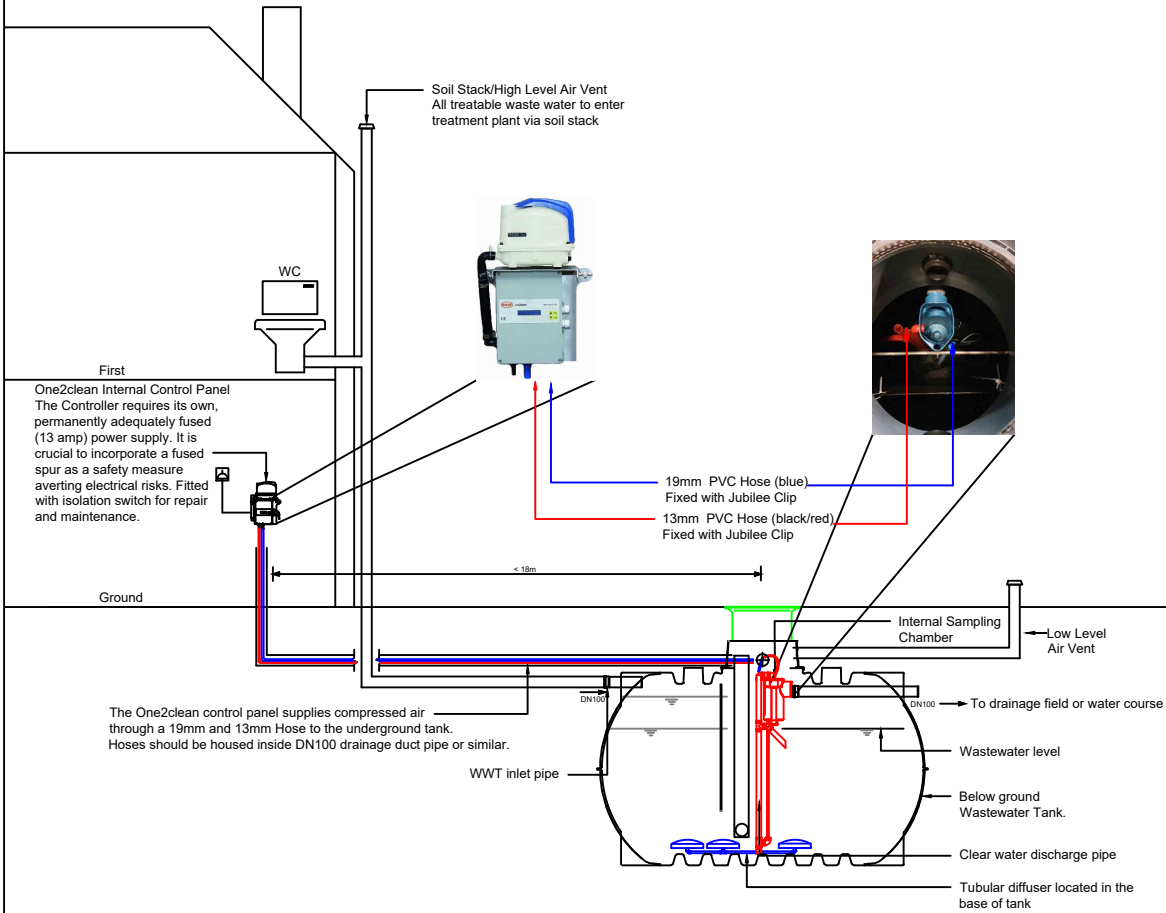
DRAWN :	KS	DATE :	21.11.2023
CHECKED :	FC	SCALE :	VARIOUS@A3

PROJECT	GRAF STANDARD DETAILS
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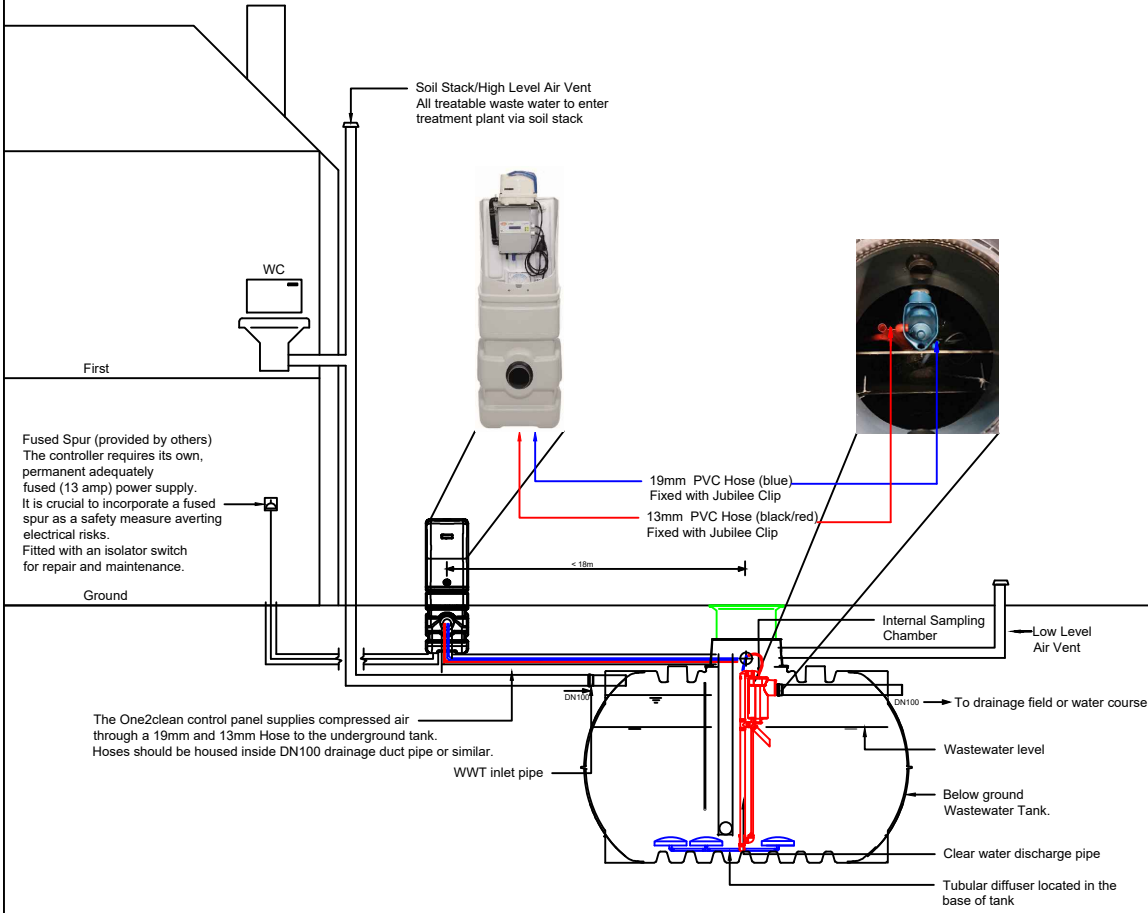
DESCRIPTION	GRAF 12PE ONE2CLEAN 8,500L CARAT XL
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DRAWING No.	12PE ONE2CLEAN STANDARD DETAIL	REV.	P0
			Page.1

12PE ONE2CLEAN WITH INTERNAL CABINET



12PE ONE2CLEAN WITH EXTERNAL CABINET



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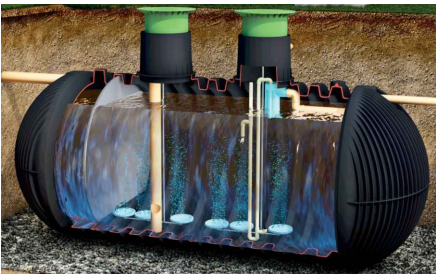
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GRAF 12PE ONE2CLEAN SPECIFICATION



CABINETS

EXTERNAL PLASTIC CABINET S
FOR STANDARD ONE2CLEAN
CONTROL PANEL



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



COMPRESSOR

HIBLOW HP 150
COMPRESSOR



CONTROL PANEL

ONE2CLEAN
CONTROL PANEL



SYSTEM HOSES

*PLEASE NOTE THAT HOSE COLOURS
MAY VARY



13MM DISCHARGING
AIR LIFT



19MM AERATION

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

P0	LATEST REVISION	KS	21.11.23
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REV.	DESCRIPTION	BY	DATE
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PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

GRAF 12PE ONE2CLEAN
8,500L CARAT XL

DRAWING No.	REV.
12PE ONE2CLEAN STANDARD DETAIL	P0
	Page.2

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.

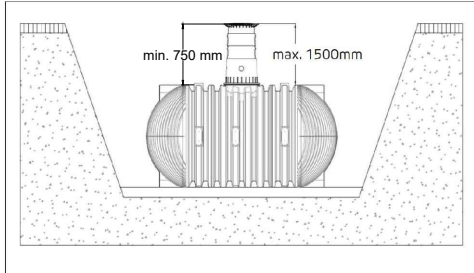
THE CONSTRUCTION SITE MUST BE HORIZONTAL AND PLANE AND MUST GUARANTEE SUFFICIENT LOAD-BEARING CAPACITY.

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 8-16mm ROUND GRAIN GRAVEL IS INSTALLED AT THE BASE OF THE EXCAVATION.

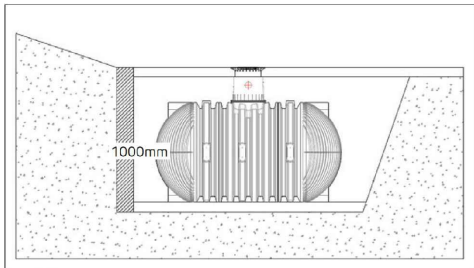
MINIMUM & MAXIMUM COVER



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

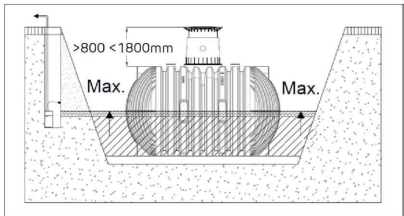
MAXIMUM COVER IN A LANDSCAPED AREA TO BE 2000mm FROM SHOULDER OF TANK.

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



TO MAINTAIN THE DESIRED TANK DEPTH, ENSURE PROPER DRAINAGE IS APPLIED IN AREAS WITH GROUND WATER AND IMPERMEABLE SOIL. USING A DRAINAGE LINE ENDING IN WITH A CHAMBER AND AN IMMERSION PUMP TO PUMP EXCESS WATER AWAY FROM THE SITE. REGULARLY INSPECT THE PUMP FOR OPTIMAL FUNCTIONALITY. IF IT IS EXPECTED THAT THE TANK MAY SINK LOWER, ADEQUATE DRAINAGE MUST BE ENSURED.

TANK SIZE	8,500L	10,000L	13,000L
IMMERSION DEPTH	1042,50mm	1142,50mm	1232,50mm

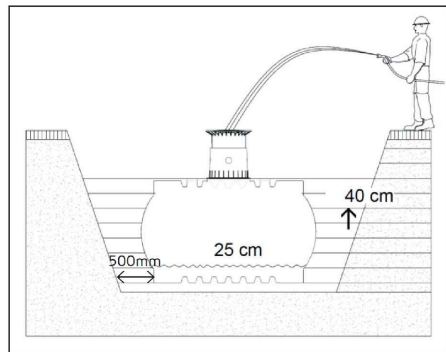
MINIMUM COVER TO BE 800mm FROM SHOULDER OF TANK IN AREAS WITH GROUNDWATER.

MAXIMUM COVER TO BE 1800mm FROM SHOULDER OF TANK IN AREAS WITH GROUNDWATER.

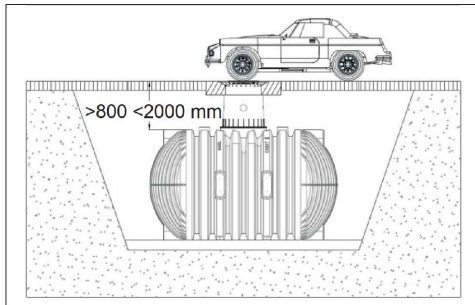
INSERTION & FILLING

THE TANK MUST BE INSERTED, IMPACT-FREE, INTO THE PREPARED TRENCH USING SUITABLE EQUIPMENT.

THE TANK IS FILLED WITH 25cm WATER BEFORE BACKFILLING. THE 10-20mm ROUND GRAIN GRAVEL IS BACKFILLED IN LAYERS OF MAX. 400mm 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.



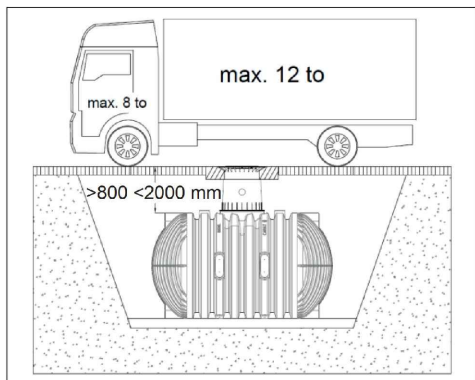
VEHICLE LOADING CONDITIONS



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 2000mm FROM THE SHOULDER OF THE TANK.

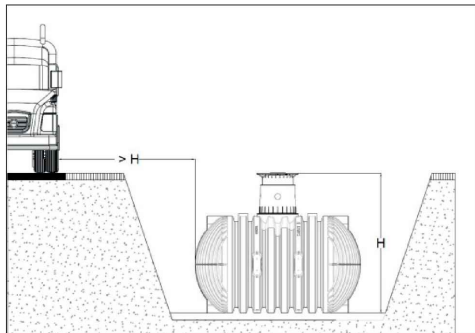


FOR LOADINGS OF MORE THAN 3,500KG AND UP TO 12,000KG IN AREAS OF NO GROUNDWATER, THERE MUST BE;

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

MAXIMUM COVER OF 2000mm 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.

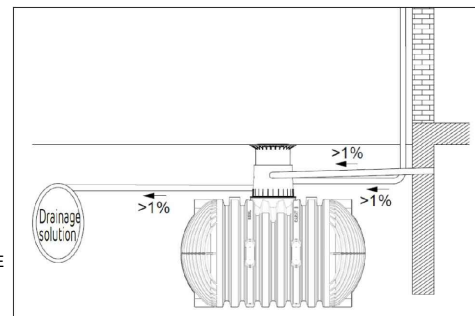
PIPE CONNECTIONS

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.



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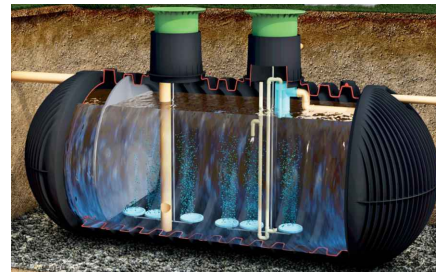
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GRAF 12PE ONE2CLEAN INSTALLATION



PO LATEST REVISION KS 14.06.23

REV. DESCRIPTION BY DATE



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PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

GRAF 12PE ONE2CLEAN 8,500L CARAT XL

DRAWING No.

12PE ONE2CLEAN STANDARD DETAIL

REV.

P0

Page.3

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