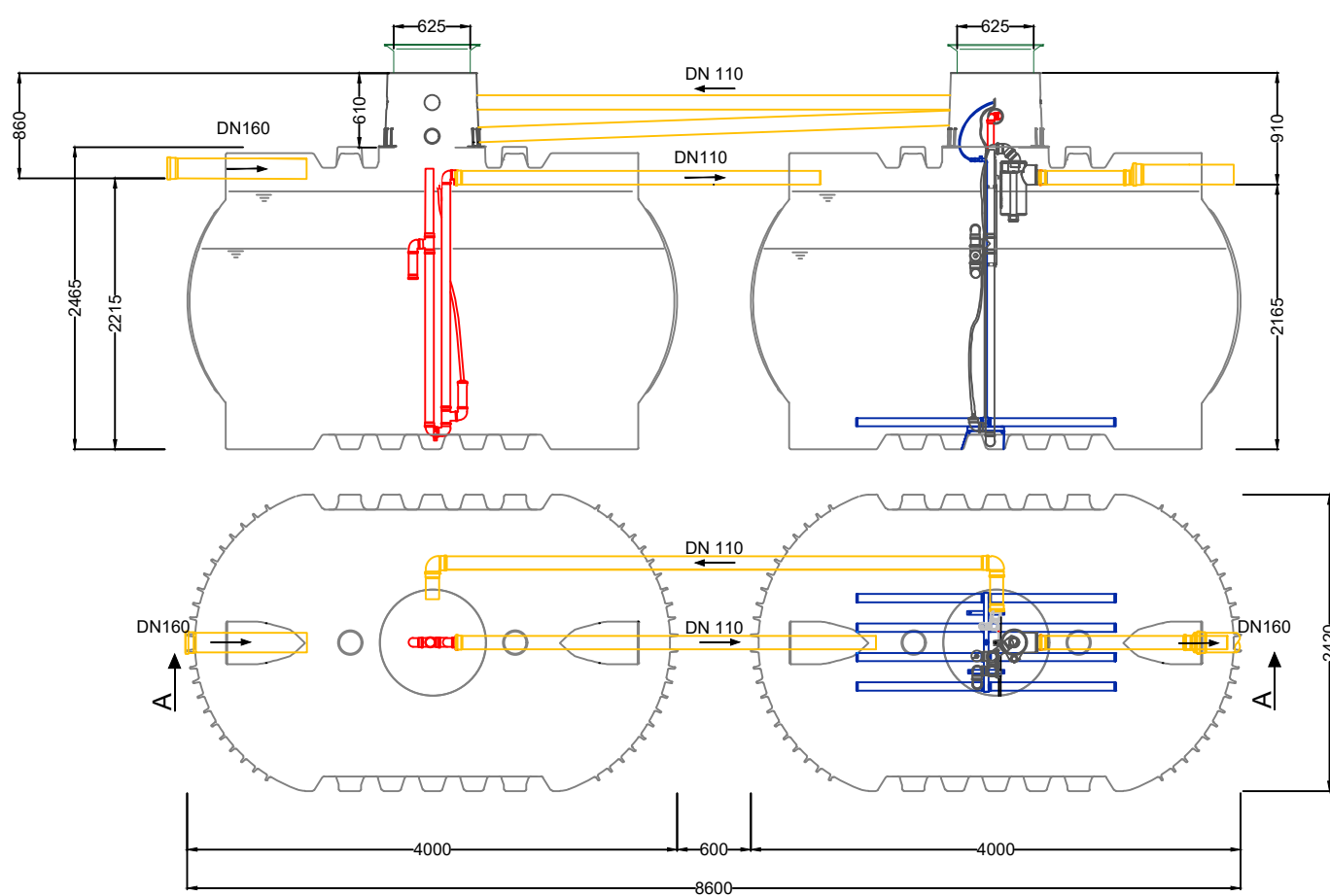
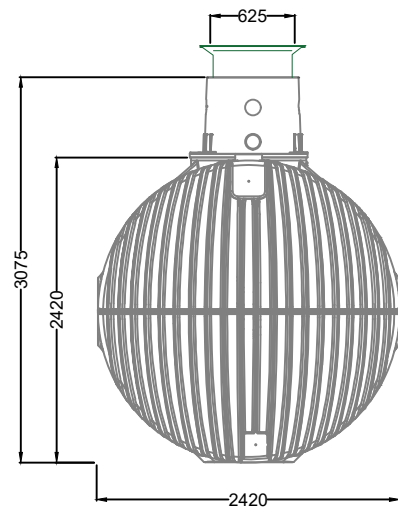


TANK DIMENSIONS



TANK DIMENSIONS

LENGTH	2x4000mm
WIDTH	2420mm
HEIGHT*	2465mm
LID	60-340mm
INLET	860mm + LID
OUTLET	910mm + LID

*WITHOUT DOME OR LID

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GRAF 60PE ONEADVANCED SPECIFICATION



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
		 COOLING FAN	 WARNING LAMP	 DOSING PUMP		

Tank Accessories

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

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

Supply Information:

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

P0	LATEST REVISION	KS	07.07.2025
REV.	DESCRIPTION	BY	DATE

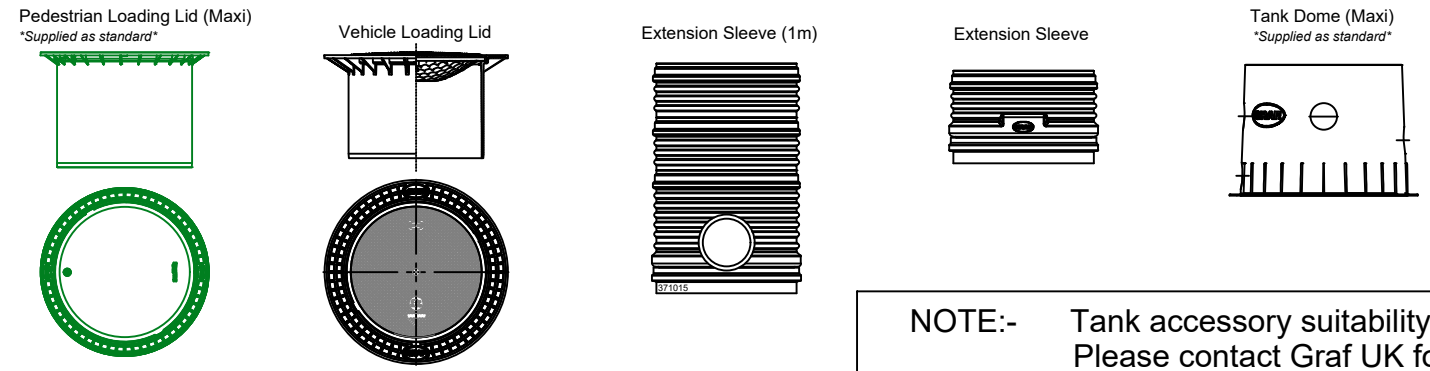
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PROJECT
GRAF STANDARD DETAILS

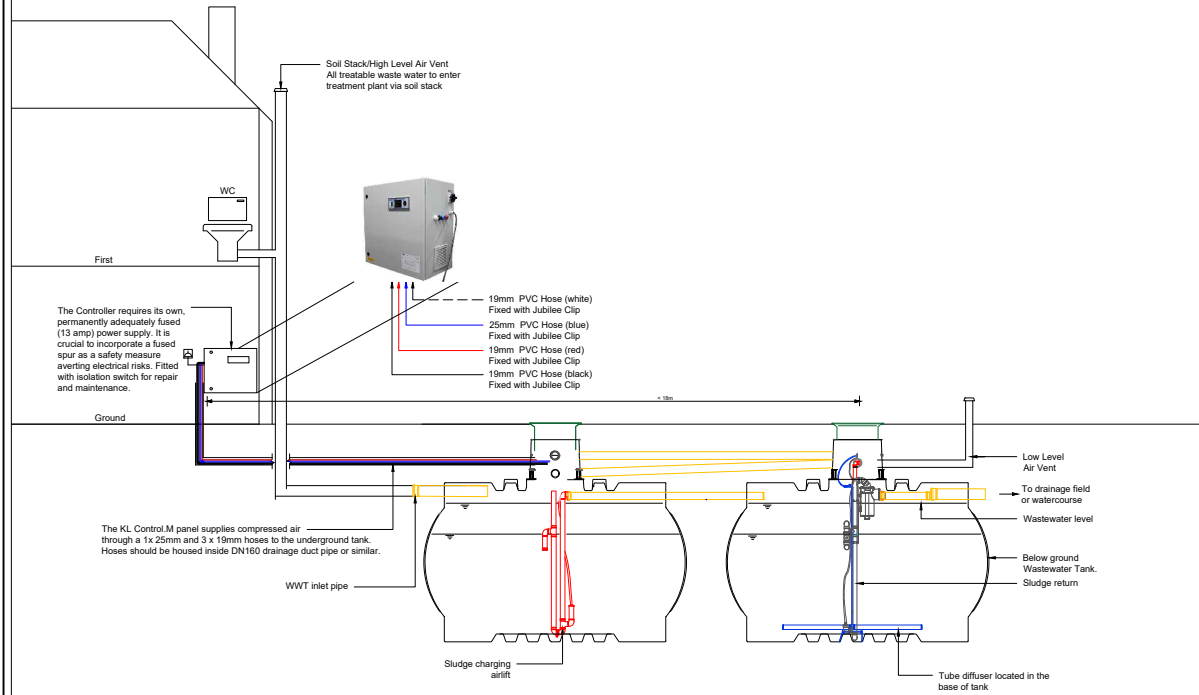
DESCRIPTION
**GRAF 60PE ONEADVANCED
2x13,000L CARAT XL**

DRAWING No.	REV.
60PE ONEADVANCED STANDARD DETAIL	P0
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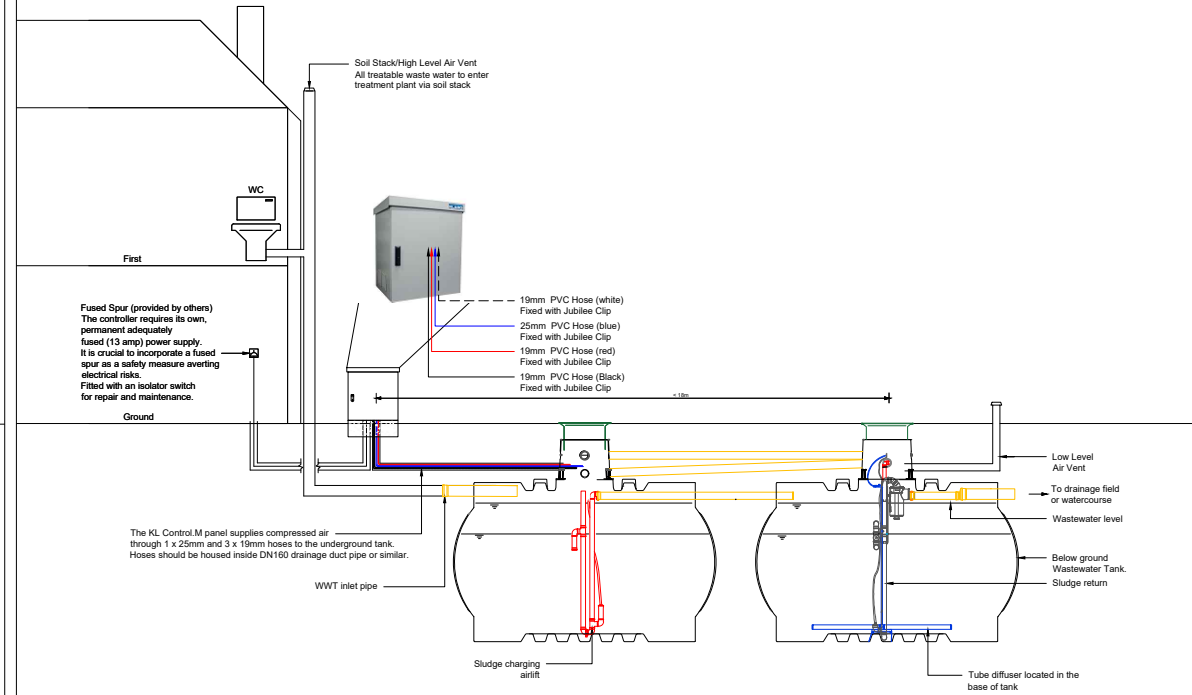


NOTE:- Tank accessory suitability may vary depending on project. Please contact Graf UK for sizing and support.

60PE ONEADVANCED WITH INTERNAL CABINET



60PE ONEADVANCED WITH EXTERNAL CABINET



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GRAF 60PE ONEADVANCED SPECIFICATION



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CABINETS

INTERNAL STEEL CABINET TYPE 3 FOR KL CONTROL.M PANEL



OUTDOOR CABINET 3 FOR KL CONTROL M PANEL



COMPRESSOR

2X HIBLOW HP 200 COMPRESSOR



CONTROL PANEL

KL CONTROL M



SYSTEM HOSES

**PLEASE NOTE THAT HOSE COLOURS MAY VARY*

-  19MM CHARGING AIR LIFT
-  25MM AERATION
-  19MM DISCHARGING AIR LIFT
-  19MM SLUDGE RETURN

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PROJECT
GRAF STANDARD DETAILS

DESCRIPTION
**GRAF 60PE ONEADVANCED
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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.

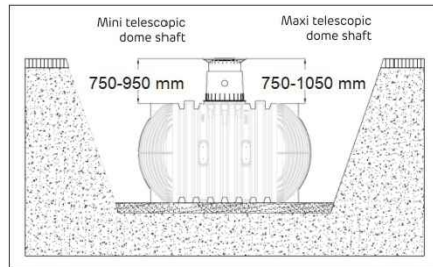
THE CONSTRUCTION SITE MUST BE HORIZONTAL AND PLANE AND MUST GUARANTEE SUFFICIENT LOAD-BEARING CAPACITY.

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.

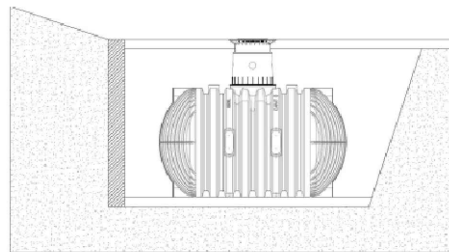
MINIMUM & MAXIMUM COVER



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

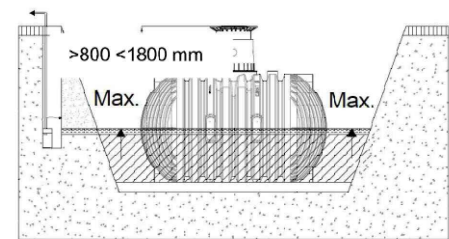
MAXIMUM COVER IN A LANDSCAPED AREA TO BE 2000mm FROM SHOULDER OF TANK.

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

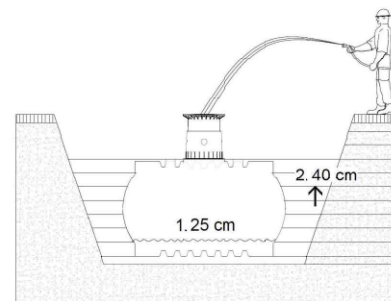
MINIMUM COVER TO BE 800mm FROM SHOULDER OF TANK IN AREAS WITH GROUNDWATER.

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

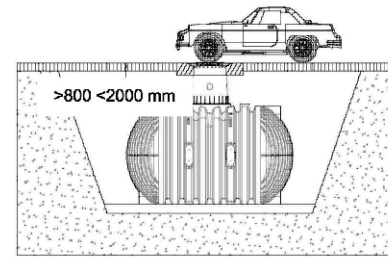
INSERTION & FILLING

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

THE TANK IS FILLED WITH 25cm WATER BEFORE BACKFILLING. THE 8-16mm 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.



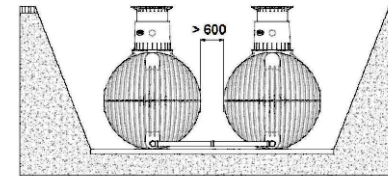
VEHICLE LOADING CONDITIONS



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

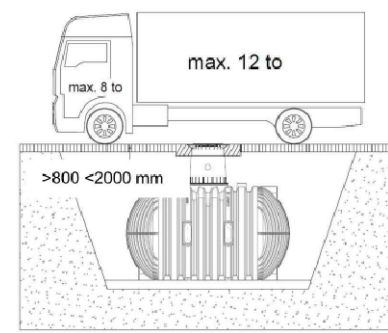
MINIMUM COVER OF 800mm FROM THE SHOULDER OF THE TANK, AND

MAXIMUM COVER OF 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 100-150MM INTO THE TANKS.

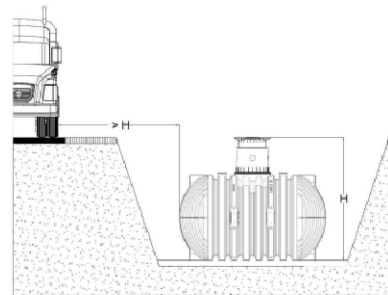


FOR LOADINGS OF MORE THAN 3,500KG AND UP TO 12,000KG IN AREAS OF NO GROUNDWATER, THERE MUST BE;

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

MAXIMUM COVER OF 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 12,000KG, THE TANK MUST BE INSTALLED AT A DISTANCE FROM THE ROAD SURFACE THAT IT AT LEAST THE DEPTH OF THE TRENCH.

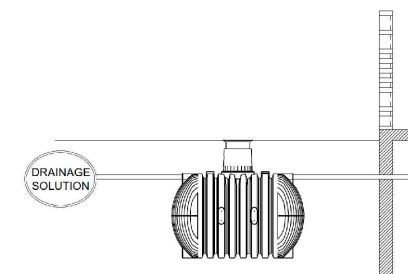
PIPE CONNECTIONS

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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GRAF 60PE ONEADVANCED INSTALLATION



PO LATEST REVISION KS 07.07.2025

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PROJECT

GRAF STANDARD DETAILS

DESCRIPTION

GRAF 60PE ONEADVANCED
2x13,000L CARAT XL

DRAWING No. 60PE ONEADVANCED 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.