

## AquaPod Installation Guide

## AquaPod installation guide

Please note this document is to be used as guidance only. All installations should be designed and planned by a fully qualified civil engineer.

### Prior to delivery

A suitable foundation must be installed and be fully cured.

The ground bearing slab should be suitable for the purposes and designed to support the AquaPod unit when filled to maximum capacity, typically a minimum of 250 mm thick.

Visually inspect the AquaPod on receipt of delivery, please report any damage to Direct Pumps and Tanks prior to installation.

### Installation

The AquaPod must remain level during all lifting operations.

The AquaPod must be installed onto a dry, debris-free foundation.

The walls should be 400-500 mm thick and the cover slab be suitable to support loadings due to usage.

During the installation process, the area must remain dry. Any water entering the excavated area must be pumped out immediately as this may cause buoyancy issues prior to full concrete installation and curing. It is the responsibility of the Structural Engineer to specify, confirm and verify all load bearing structural details.

### Note

All AquaPods are a liner only and must always be supported by a structural concrete base and structural concrete surround of adequate design and thickness for the ground conditions and the general usage. Direct Pumps and Tanks will accept no warranty claims for fracture failures, caused by incorrect installation.

It is the responsibility of the client to ensure that any tank and or associated equipment is suitable for the application and will pass through any access restriction present on site.

All Direct Pumps and Tanks AquaPods must be positioned on a continuous flat, level and solid foundation. The foundation should be no smaller than the external footprint of the tank and be no more than + or -2mm over any given metre.

The foundation must not have any local debris or other items to the surface or damage to the combipod base will occur.

The foundation must be suitable for the purposes of providing structural support for the AquaPod, including all connections & additional components, when the tank is full to maximum nominal capacity.

The lid is a structural part of the combipod and should be correctly fitted and secured to the AquaPod at all times.

No liability will be accepted by Direct Pumps and Tanks for any consequence resulting from incorrect installation of, or incorrect working practices associated with, any AquaPod, tank and or associated equipment provided by Direct Pumps and Tanks.

To reduce the possibility of difficulties resulting from incorrect installation or unsuitable application of any equipment provided by Direct Pumps and Tanks it is essential that our office is contacted on 01159 444474 prior to filling, commissioning or use of such equipment.

It is essential to note that all AquaPods are made to order and will be chargeable once design work or production has commenced.

## Connections

Where connections are either factory fitted or fitted on site our engineers ensure a watertight seal. If leaks are reported from any connection, Direct Pumps and Tanks will, if required, return to site to inspect the connection.

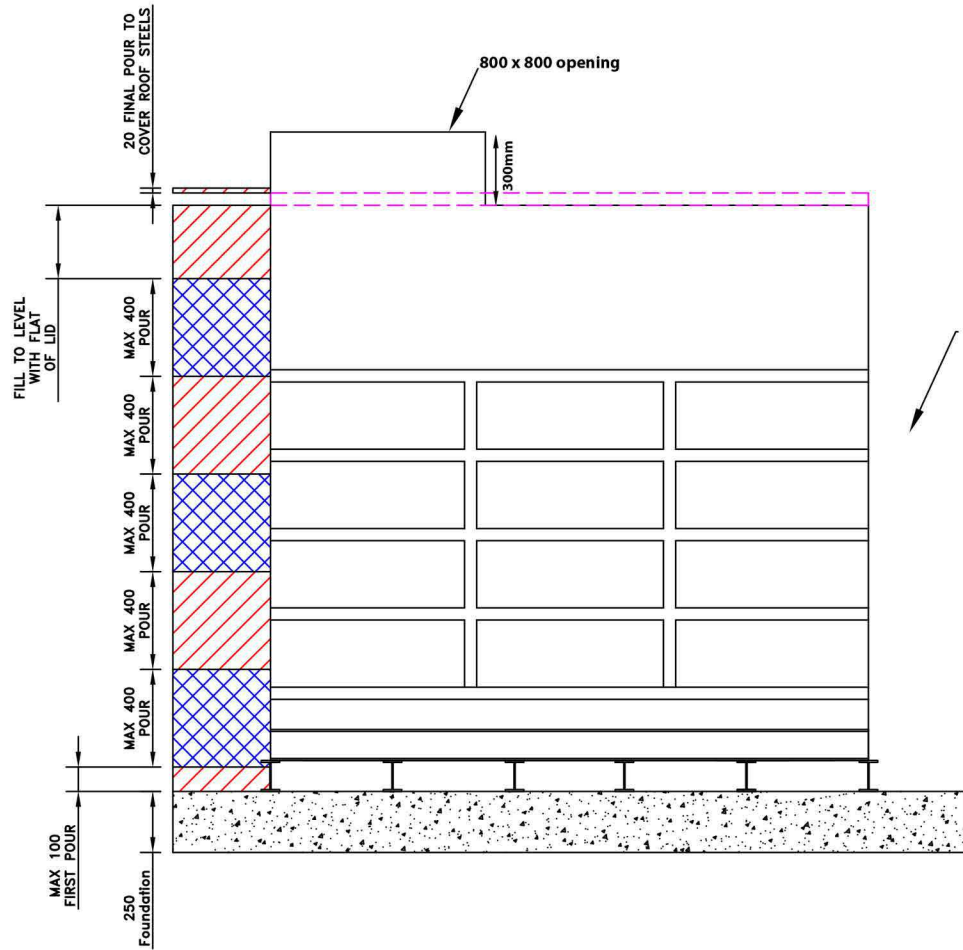
Upon inspection where any connection has been either:

- ▶ Over tightening of the joint to pipe work, resulting in movement of the fitting, disturbing the seal to the tank.
- ▶ Subjected to heat from localized brazing, soldering or similar, resulting in damage to the seal to the tank.
- ▶ Damaged in any way during transportation, off-loading or on site.
- ▶ Where pipework is insufficiently supported resulting in the weight being carried by the tank and tank connector.

A charge will be made for the return visit and any replacement connections will be charged for.



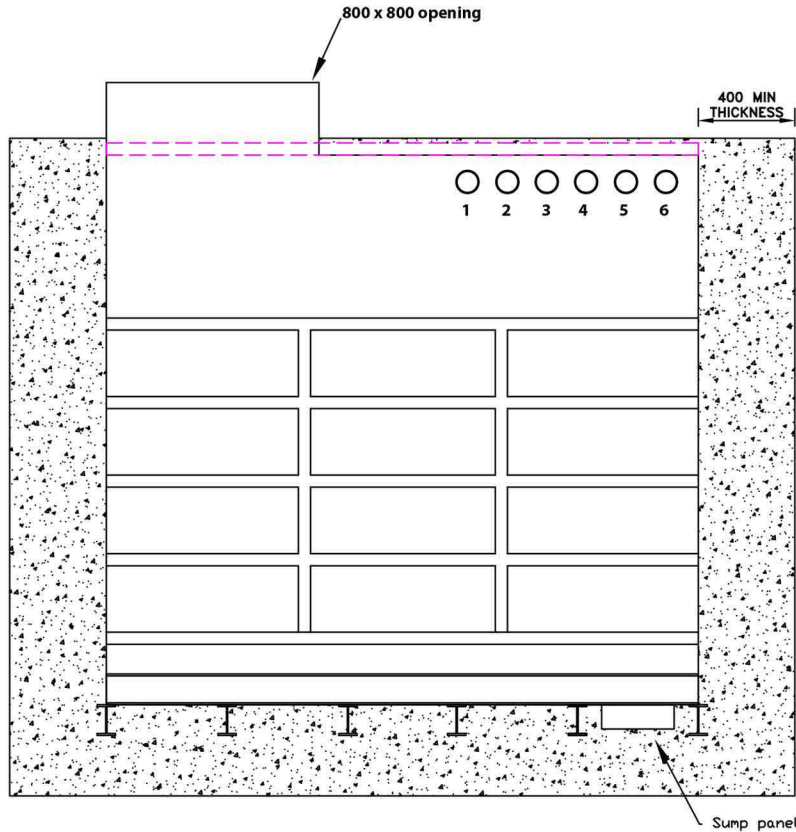
All concrete details are indicated and are subject to design by structural engineer as per site conditions.



Ensure all layers are completely dry and cured before starting the next pour phase

First fill must be 100mm deep (high) onto the pre-set concrete slab.  
 Each further fill must be a maximum of 400mm high onto a fully cured layer below.  
 Repeat the process until level with flat area of the roof section  
 Using a structural foam core infill the roof of the unit so the foam is level with the top of the roof ribs (50mm foam core required)  
 The final fill is a maximum of 20mm - fully encasing the raised ribs on the roof of the unit and connecting to the external concrete walls  
 All AquaPods are a liner only and must always be supported by a structural concrete base and structural concrete surround of adequate design and thickness for the ground conditions and the general usage

DRAWING No. <b>AquaPod</b>		TITLE <b>AquaPod Installation</b>		DATE DATE	MOD A	NOTES FIRST ISSUE	
ALL DIMENSIONS ± 1mm UNLESS OTHERWISE STATED	DRAWN BY <b>JON ELLISON</b>	DATE <b>21.09.2021</b>					
SCALE <b>1:50</b>	CUSTOMER <b>A4</b>						
			ALL DIMENSIONS IN MM - DO NOT SCALE				



1. inlet 1" up to 3"
2. Outlet 1¼ up to 4"
3. Duct - 110mm
4. Extractor 100mm to be vented to atmosphere
5. Sump discharge 32mm to be taken to drain
6. Vent 110mm to be taken to atmosphere

The AquaPod must remain level during all lifting operations.

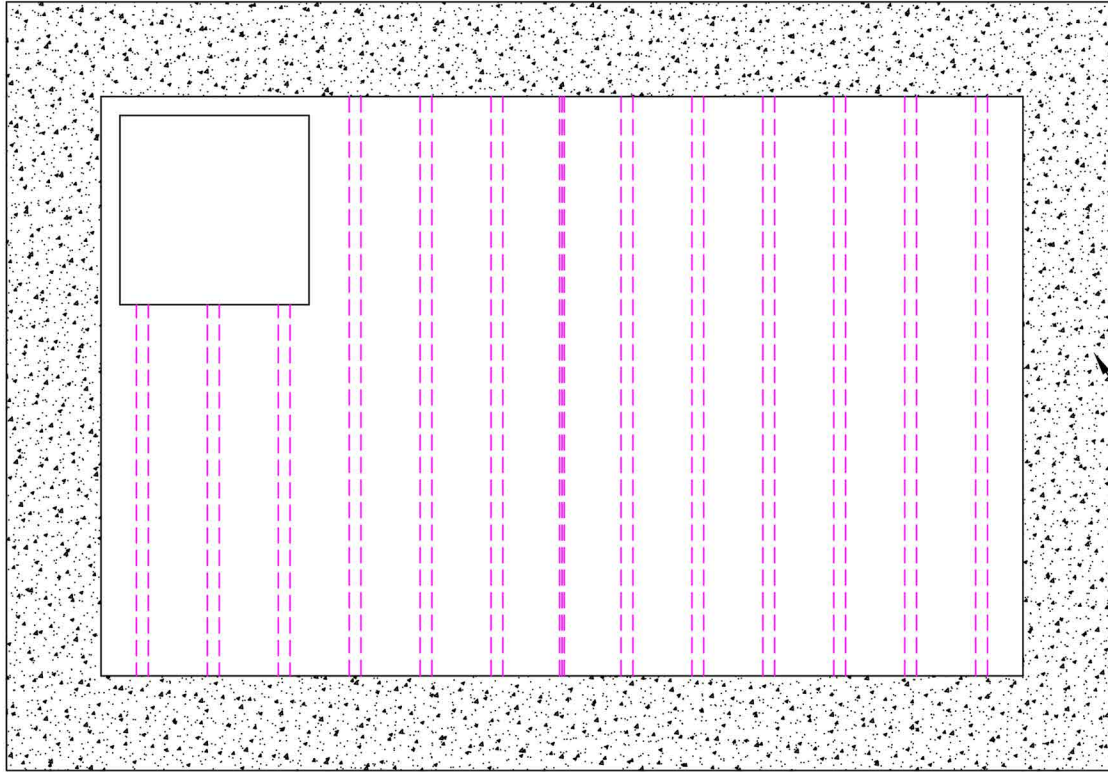
The AquaPod must be installed onto a dry, debris-free foundation.

The walls should be 400–500 mm thick and the cover slab be suitable to support loadings due to usage.

During the installation process, the area must remain dry. Any water entering the excavated area must be pumped out immediately as this may cause buoyancy issues prior to full concrete installation and curing.

It is the responsibility of the Structural Engineer to specify, confirm and verify all load bearing structural details.

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ALL DIMENSIONS ± 1mm UNLESS OTHERWISE STATED	DRAWN BY JON ELLISON	DATE 21.09.2021					
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Complete dry and cured foundation concrete.  
Concrete foundation MUST NOT be smaller than external footprint of the AquaPod (+/-2mm per meter)

Ensure site stays dry throughout the whole installation process

Ensure concrete foundation is debris-free before loading into the excavated site

**Aqua Pod Installation Process:**

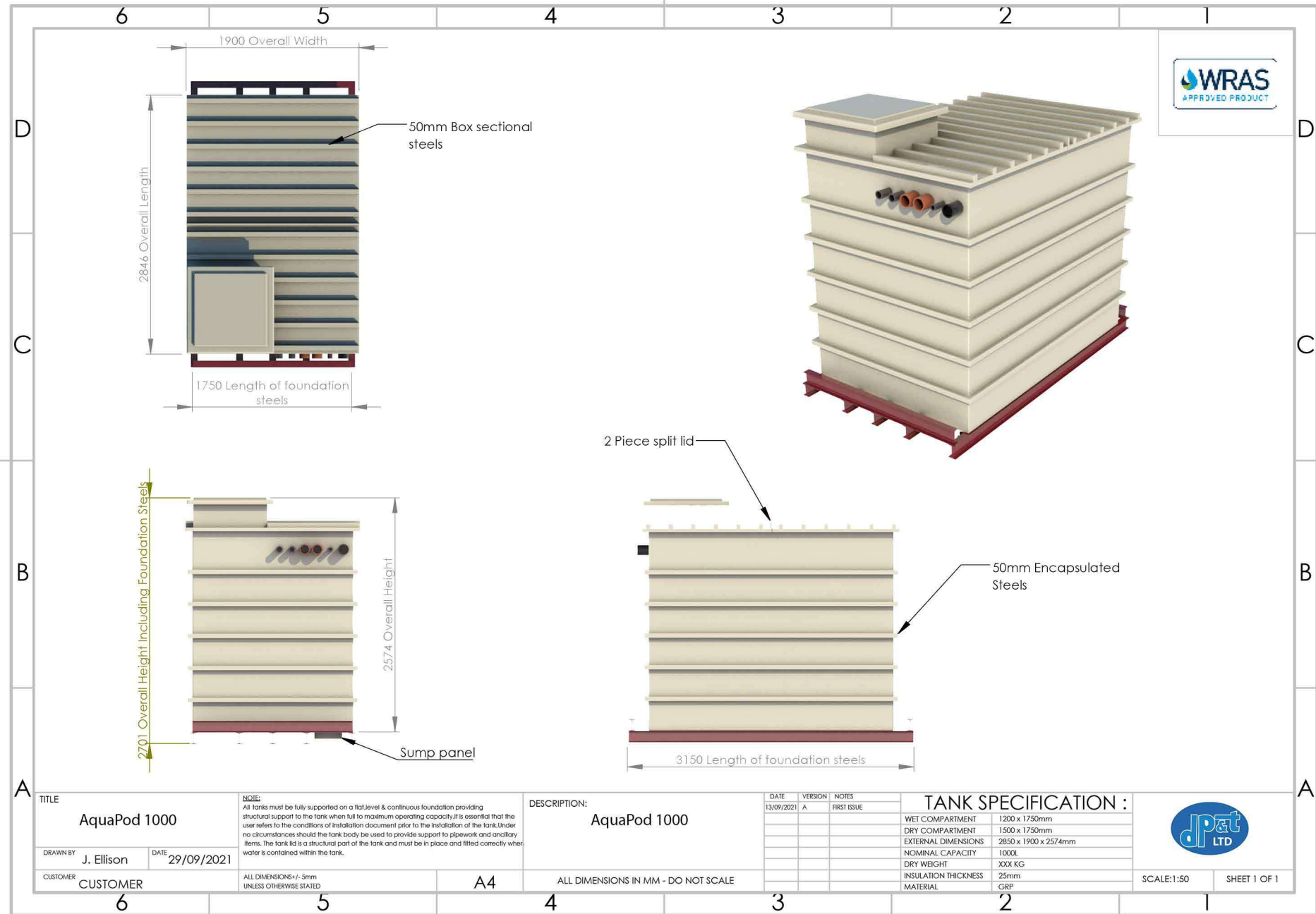
Please position the combpod on a fully cured dry foundation in its final position.

Prior to any concrete fill please ensure the water storage tank inside the unit is filled with water to its operating level - this ensure the whole AquaPod is being installed at its operating weight.

Leave 24 hours and check for leaks from tank. Only commence concrete process if there are no leaks present.

During the installation process, the area must remain dry. Any water entering the excavated area must be pumped out immediately as this may cause buoyancy issues prior to full concrete installation and curing

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SCALE <b>1:25</b>		CUSTOMER <b>CUSTOMER</b>		DATE	A		FIRST ISSUE
A4		ALL DIMENSIONS IN MM – DO NOT SCALE					



TITLE	
AquaPod 1000	
DRAWN BY	DATE
J. Ellison	29/09/2021
CUSTOMER	
CUSTOMER	

**NOTE:**  
All tanks must be fully supported on a flat, level & continuous foundation providing structural support to the tank when full to maximum operating capacity. It is essential that the user refers to the conditions of installation document prior to the installation of the tank. Under no circumstances should the tank body be used to provide support to pipework and ancillary items. The tank lid is a structural part of the tank and must be in place and fitted correctly when water is contained within the tank.

ALL DIMENSIONS +/- 5mm UNLESS OTHERWISE STATED

DESCRIPTION:  
AquaPod 1000

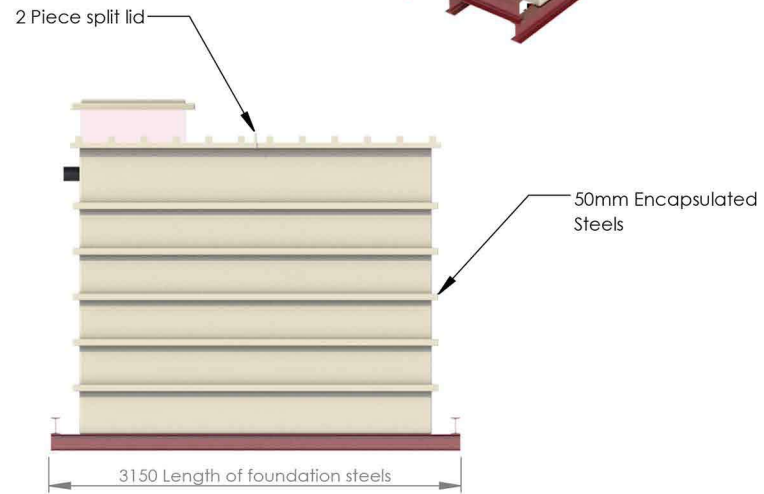
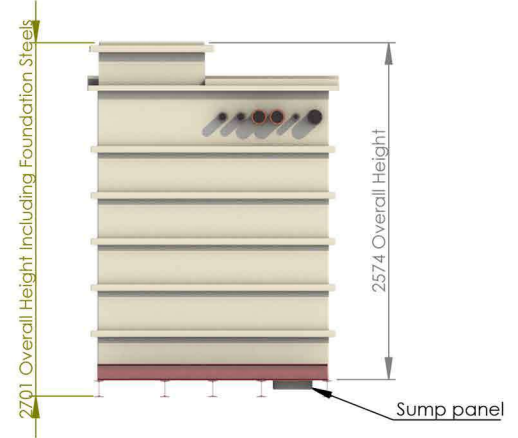
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DATE	VERSION	NOTES
13/09/2021	A	FIRST ISSUE

TANK SPECIFICATION :	
WET COMPARTMENT	1200 x 1750mm
DRY COMPARTMENT	1500 x 1750mm
EXTERNAL DIMENSIONS	2850 x 1900 x 2574mm
NOMINAL CAPACITY	1000L
DRY WEIGHT	XXX KG
INSULATION THICKNESS	25mm
MATERIAL	GRP



SCALE:1:50 SHEET 1 OF 1



TITLE  
**AquaPod 1500**

DRAWN BY  
J. Ellison

DATE  
29/09/2021

CUSTOMER  
CUSTOMER

NOTE:  
All tanks must be fully supported on a flat level & continuous foundation providing structural support to the tank when full to maximum operating capacity. It is essential that the user refers to the conditions of installation document prior to the installation of the tank. Under no circumstances should the tank body be used to provide support to pipework and ancillary items. The tank lid is a structural part of the tank and must be in place and fitted correctly when water is contained within the tank.

ALL DIMENSIONS ± 5mm UNLESS OTHERWISE STATED

DESCRIPTION:  
**AquaPod 1500**

A4

ALL DIMENSIONS IN MM - DO NOT SCALE

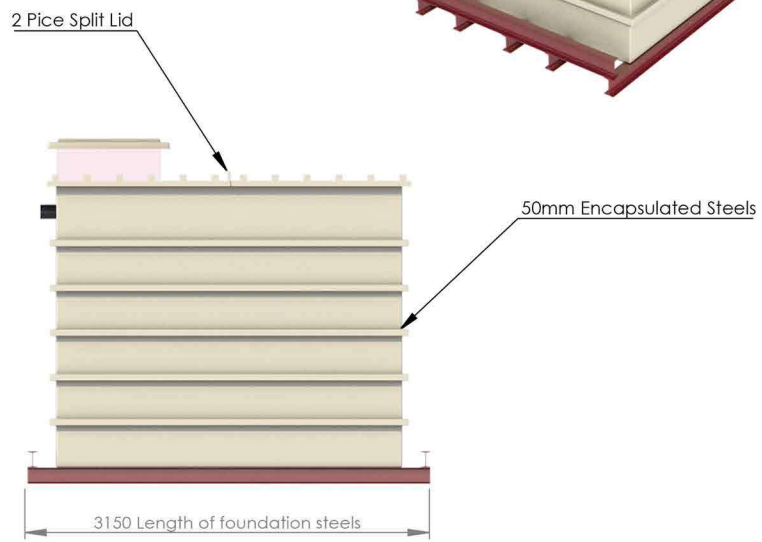
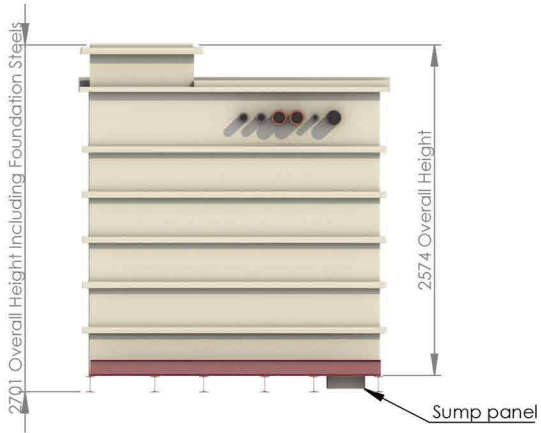
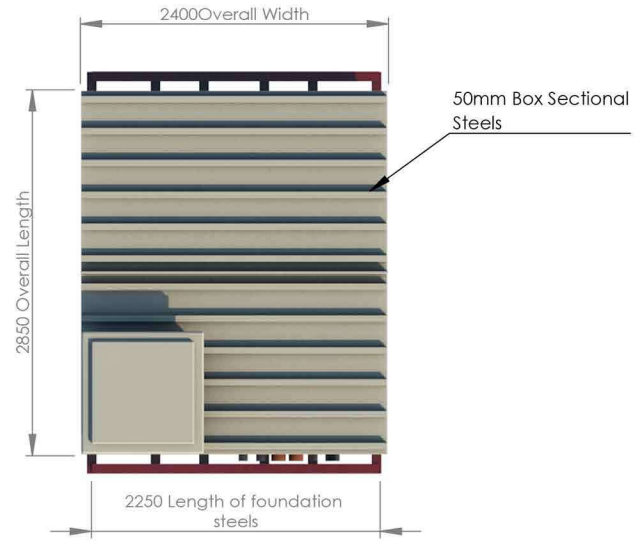
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**TANK SPECIFICATION :**

WET COMPARTMENT	1200 x 1750mm
DRY COMPARTMENT	1500 x 1750mm
EXTERNAL DIMENSIONS	2850 x 1900 x 2574mm
NOMINAL CAPACITY	1000L
DRY WEIGHT	XXX KG
INSULATION THICKNESS	25mm
MATERIAL	GRP

SCALE: 1:50

SHEET 1 OF 1



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AquaPod 2000		
DRAWN BY	DATE	
D Challans	29/09/2021	
CUSTOMER		
CUSTOMER		

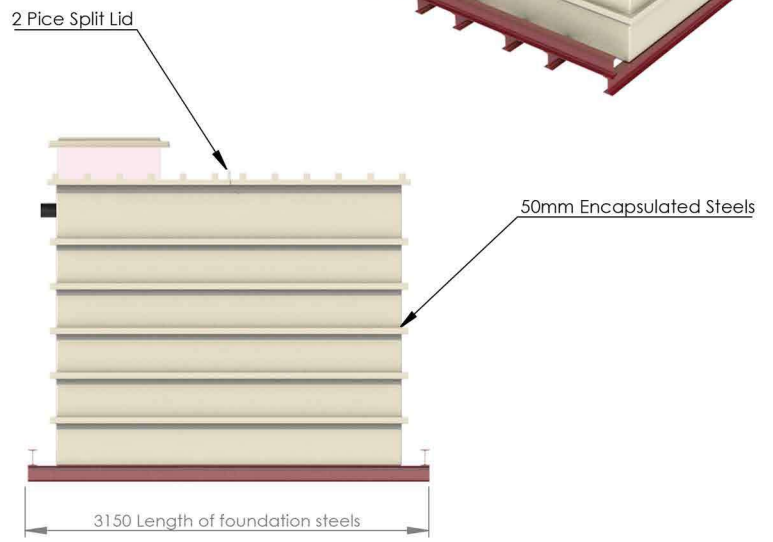
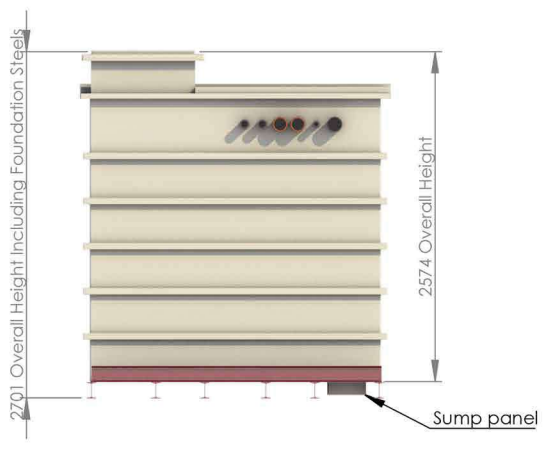
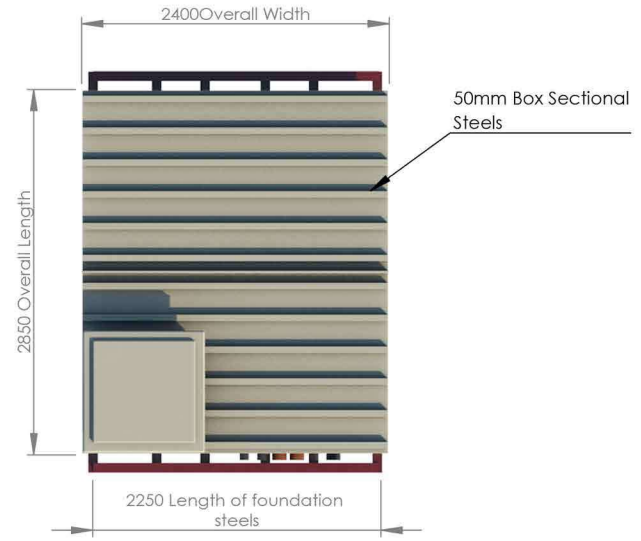
DESCRIPTION:	
AquaPod 2000	
A4	
ALL DIMENSIONS IN MM - DO NOT SCALE	

DATE	VERSION	NOTES
13/09/2021	A	FIRST ISSUE

TANK SPECIFICATION :	
WET COMPARTMENT	1200 x 2250mm
DRY COMPARTMENT	1500 x 2250mm
EXTERNAL DIMENSIONS	2850 x 2400 x 2574mm
NOMINAL CAPACITY	2000L
DRY WEIGHT	XXX KG
INSULATION THICKNESS	25mm
MATERIAL	GRP

SCALE: 1:50      SHEET 1 OF 1





TITLE	
AquaPod 3000	
DRAWN BY	DATE
D Challans	29/09/2021
CUSTOMER	
CUSTOMER	

**NOTE:**  
All tanks must be fully supported on a flat level & continuous foundation providing structural support to the tank when full to maximum operating capacity. It is essential that the user refers to the conditions of installation document prior to the installation of the tank. Under no circumstances should the tank body be used to provide support to pipework and ancillary items. The tank lid is a structural part of the tank and must be in place and fitted correctly when water is contained within the tank.

ALL DIMENSIONS +/- 5mm UNLESS OTHERWISE STATED

DESCRIPTION:

AquaPod 3000

A4

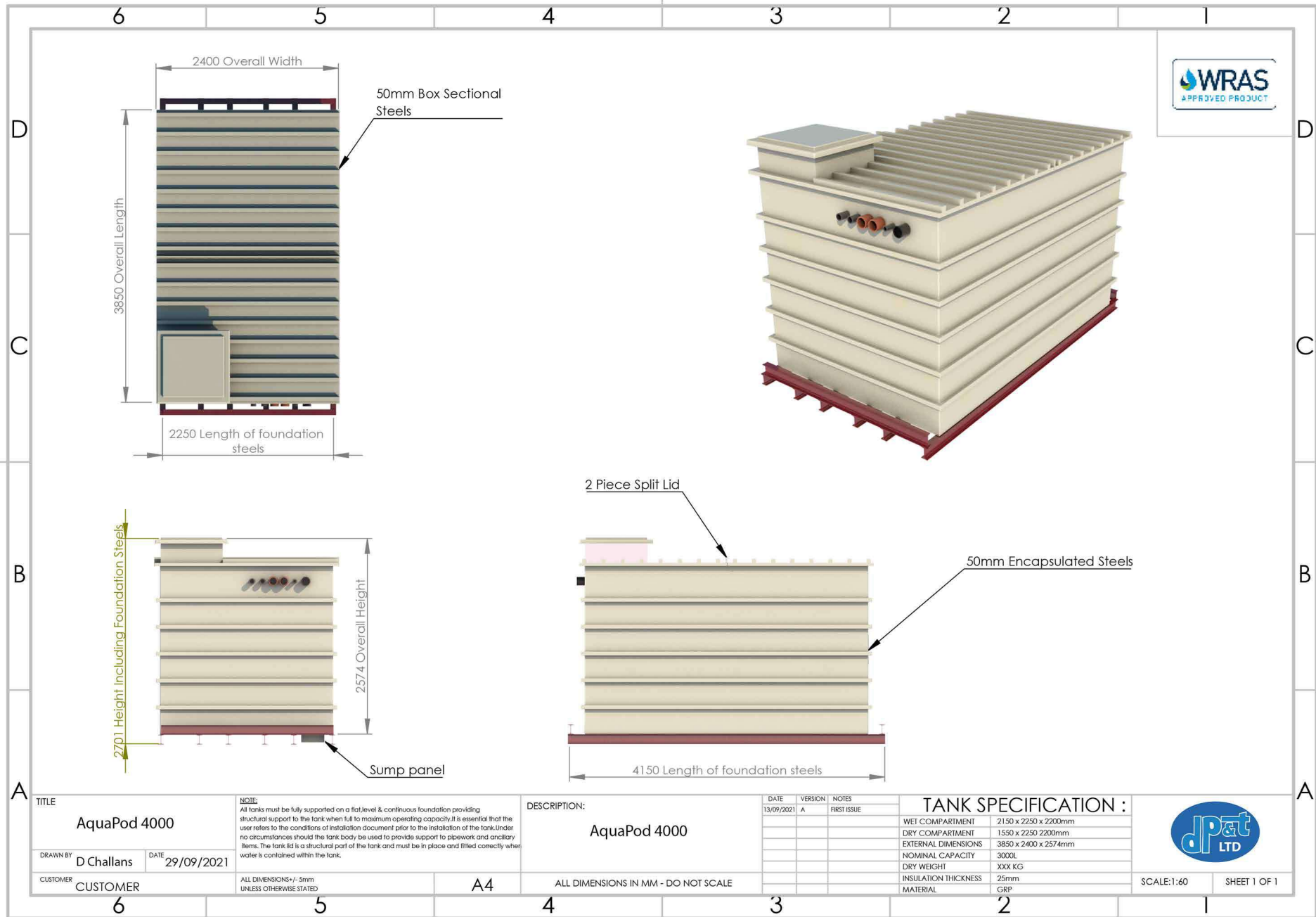
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TANK SPECIFICATION :	
WET COMPARTMENT	1200 x 2250mm
DRY COMPARTMENT	1500 x 2250mm
EXTERNAL DIMENSIONS	2850 x 2400 x 2574mm
NOMINAL CAPACITY	2000L
DRY WEIGHT	XXX KG
INSULATION THICKNESS	25mm
MATERIAL	GRP

SCALE: 1:50

SHEET 1 OF 1



TITLE	
AquaPod 4000	
DRAWN BY	DATE
D Challans	29/09/2021
CUSTOMER	
CUSTOMER	

**NOTE:**  
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ALL DIMENSIONS +/- 5mm UNLESS OTHERWISE STATED

DESCRIPTION:

AquaPod 4000

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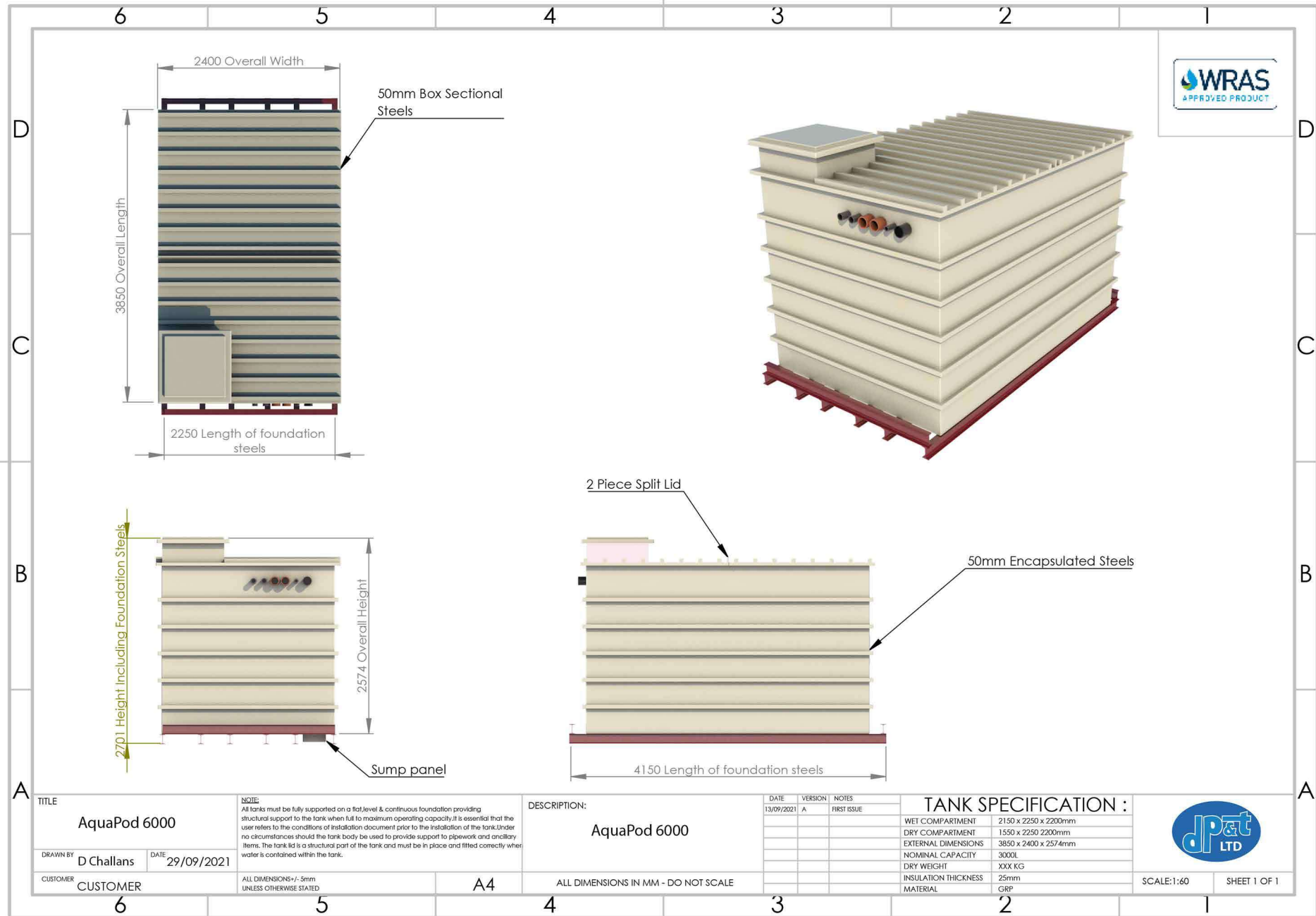
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TANK SPECIFICATION :	
WET COMPARTMENT	2150 x 2250 x 2200mm
DRY COMPARTMENT	1550 x 2250 2200mm
EXTERNAL DIMENSIONS	3850 x 2400 x 2574mm
NOMINAL CAPACITY	3000L
DRY WEIGHT	xxx KG
INSULATION THICKNESS	25mm
MATERIAL	GRP

SCALE:1:60

SHEET 1 OF 1



TITLE  
**AquaPod 6000**

DRAWN BY  
D Challans

DATE  
29/09/2021

CUSTOMER  
CUSTOMER

NOTE:  
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**AquaPod 6000**

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WET COMPARTMENT	2150 x 2250 x 2200mm
DRY COMPARTMENT	1550 x 2250 2200mm
EXTERNAL DIMENSIONS	3850 x 2400 x 2574mm
NOMINAL CAPACITY	3000L
DRY WEIGHT	XXX KG
INSULATION THICKNESS	25mm
MATERIAL	GRP



