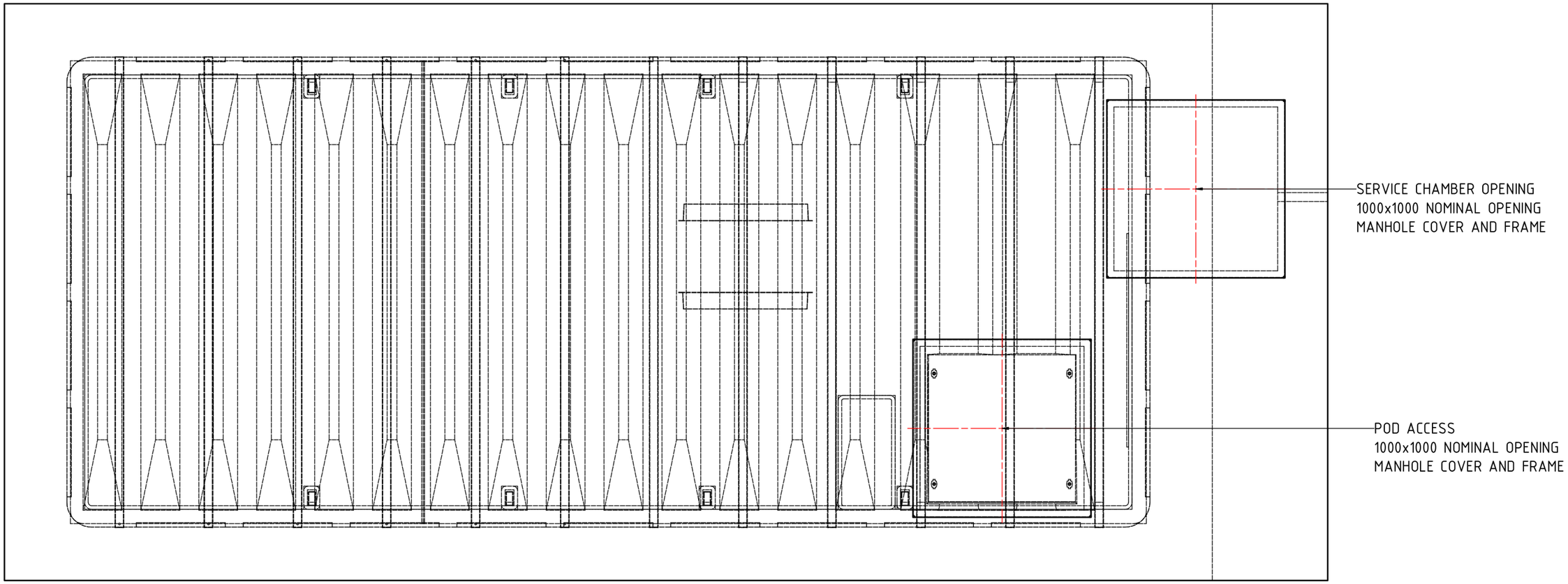
UPOD - SERVICE DETAILS - ALL SIZES



PLAN AT FINISHED GROUND LEVEL

NOTES:
1.ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED
2.UPOD SUITABLE FOR INSTALLATION WITH UP TO 1000mm COVER ABOVE THE UPOD RIM IN FULLY SATURATED GROUND CONDITIONS
3.REINFORCED CONCRETE COVER SLAB REQUIRED TO RESIST BACKFILL AND IMPOSED LOADS
4.GROUND BEARING SLAB REQUIRED TO DISTRIBUTE LOADS INTO SUBGRADE AND PROVIDE FLAT UNIFORM SUPPORT TO THE UPOD BASE BEARERS
5.MASS CONCRETE OR REINFORCED CONCRETE WALLS REQUIRED TO PROVIDE MASS AGAINST BUOYANT UPLIFT AND TO RESIST LATERAL SOIL PRESSURES AND SURCHARGES - BUOYANCY CONDITION TO BE CHECKED BY STRUCTURAL ENGINEER AS IT WILL DEPEND UPON SLAB THICKNESSES AND DEPTH OF COVER ON SITE
6.LIFTS PLACING CONCRETE WALLS ARE LIMITED BY THE UPOD STIFFNESS AND STRENGTH
7.THE THICKNESS OF THE COVER SLAB IS RESTRICTED BY THE STRENGTH AND STIFFNESS OF THE UPOD COVER DURING CONCRETE PLACING
8.UPOD COVER TO BE FULLY SEALED AND BOLTED BEFORE PLACING IN EXCAVATION
9.UPOD HATCH AND ANY SERVICES APERTURES TO BE KEPT SEALED - EXCEPT WHEN IN USE - TO PREVENT THE RISK OF ACCIDENTAL FLOODING
10.GROUND BEARING SLAB TO BE FLAT AND TRUE TO PROVIDE UNIFORM SUPPORT TO THE UPOD BASE
11.KEEP UPOD FLAT AND LEVEL WHEN HOISTING
12.DO NOT DROP, SUBJECT TO IMPACT - AVOID DAMAGE THROUGH CONTACT WITH POKER VIBRATOR
13.DEWATERING MAY BE REQUIRED UNTIL THE CONCRETE WORKS ARE WELL ADVANCED TO PREVENT FLOTATION
14.ALL CONNECTIONS TO BE MADE BY SUITABLY QUALIFIED AND EXPERIENCED PERSON IAW WITH APPROPRIATE REGULATIONS AND WITH THE APPROVAL OF THE WATER PROVIDER

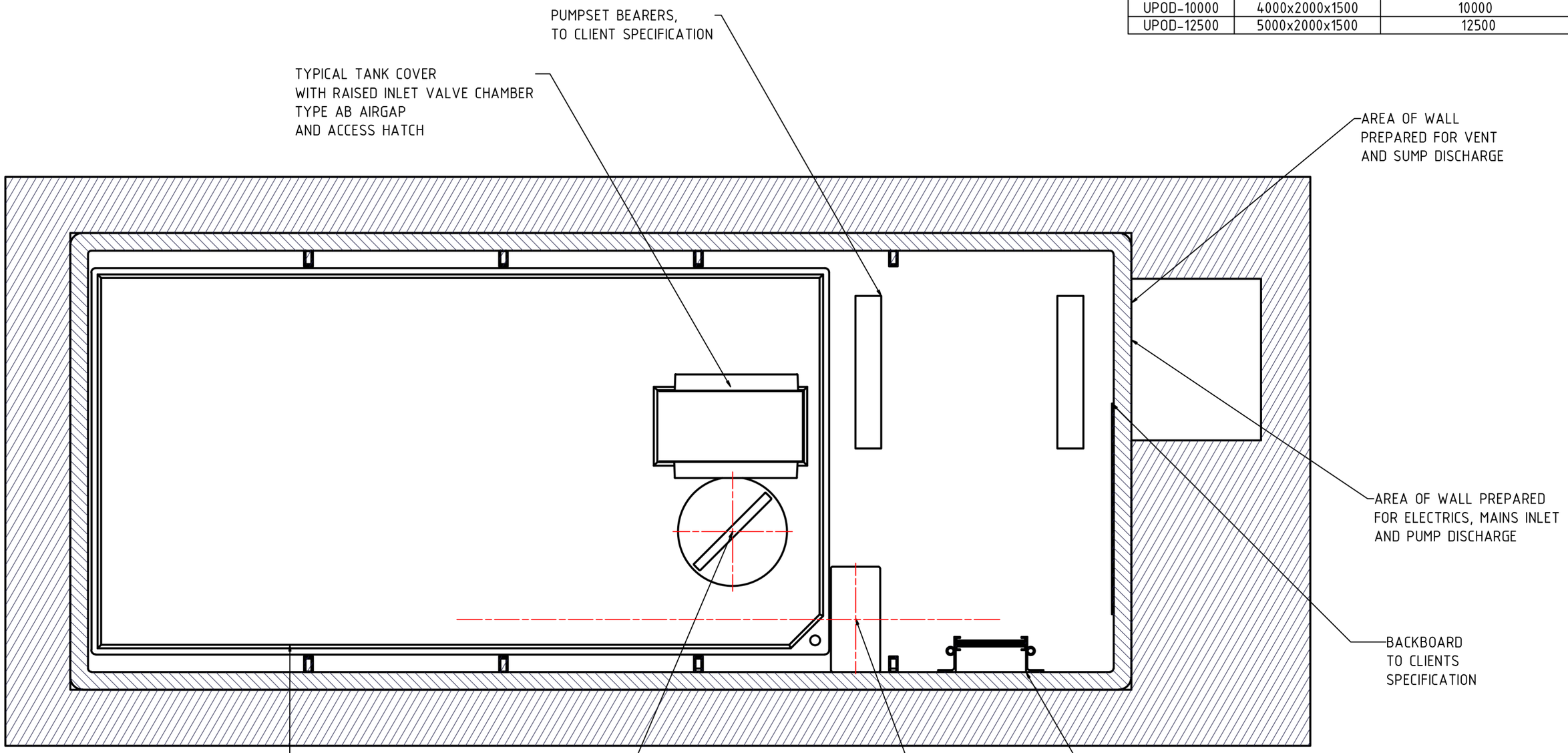
BUOYANCY
REFER TO PAGE 3 FOR MINIMUM WEIGHTS WITHOUT FIT-OUT AND EMPTY TANK WATER TANK SPECIFICATION
1.TANK CONNECTION POSITIONS SUBJECT TO CLIENTS AGREEMENT.
2.ONE PIECE MOULDED GRP TANK COMPRISING TANK BODY AND SEALED COVER.
3.MOULDED FROM WRAS APPROVED GEL COATS AND GLASS REINFORCED UP RESIN
4.INTERNAL LOW GLASS DENSE UNIFORM LIGHT GREY. EXTERNAL RESIN RICH DARK GREY AND LIGHT GREY.
5.WRAS APPROVED FOR DRINKING WATER (W16-4) AND COMPLIANT WITH BS EN 13280:2001.
6.FACTORY PRE-INSULATED WITH 25 THICK PUF INSULATION FULLY ENCAPSULATED AND PROTECTED BY A GRP LAMINATE PROVIDING A NOMINAL U VALUE OF 0.8W/m K. INSULATION TO TANK SIDE WALL AND COVER ONLY
7.FASTENERS INSIDE TANK TO BE A4-70 STAINLESS, AND A2 STAINLESS EXTERNALLY.
8.ALL PIPEWORK AND VALVES TO BE SUFFICIENTLY STIFF AND RIGIDLY SUPPORTED TO PREVENT STRAINING OF THE TANK WALLS.

UPOD TECHNICAL SPECIFICATION
DESIGN
DESIGNED IN ACCORDANCE WITH THE BRITISH WATER SPECIFICATION BW: COP:22.96 FIBRE REINFORCED PLASTICS FOR USE IN WATER AND EFFLUENT TREATMENT.
DESIGN BASIS IS
I) LONG-TERM EXPOSURE TO A WATER TABLE NOT EXCEEDING 1000MM ABOVE UPOD COVER LEVEL, ASSUMING THAT THE CONCRETE SURROUND AND COVER ARE PERMEABLE OR OTHERWISE FLOODED.
II) SHORT TERM PRESSURES FROM PLACING AND CURING OF CONCRETE SURROUND AND COVER SLAB.
THE DESIGN CONCEPT IS FOR THE UPOD BASE TO BE SUPPORTED BY GRP ENCAPSULATED STRUCT. STEEL BEARERS WITH THEIR ENDS EMBEDDED INTO THE CONCRETE SURROUND TO RESIST BUOYANCY UPLIFT. THE POD WALLS ARE DESIGNED TO SPAN BETWEEN WHOLLY COMPOSITE RIBS, THE RIBS SPANNING BETWEEN THEIR ENDS AND THE INTERNAL BRACING FRAMES. THE COVER IS DESIGNED TO SPAN BETWEEN WHOLLY COMPOSITE RIBS, THE RIBS BEING SUPPORTED AT THEIR ENDS BY THE UPOD WALLS.
THE DESIGN ALSO ALLOWS FOR SHORT-DURATION LOADS ARISING FROM PLACING OF THE MASS CONCRETE SURROUND AND COVER SLAB.
THE POD STRUCTURE IS IN NO WAY DEPENDENT UPON THE INTERNAL STORAGE TANK OTHER THAN AS (EMPTY) MASS TO RESIST BUOYANCY.

CONSTRUCTION
CORROSION RESISTANT POLYESTER RESIN REINFORCED WITH E-GLASS FIBRES (RANDOM, WOVEN AND NON-CRIMP FABRICS) IN BOTH MONOLITHIC AND SANDWICH LAMINATES OVER A HIGH SHEAR STRENGTH STRUCTURAL CORE.
INTERNAL FINISH: ISOPHTHALIC GELCOAT
EXTERNAL FINISH: FLOWCOAT
LAMINATION IN ACCORDANCE WITH BW.COP:22.96
ROT-PROOF NON-STRUCTURAL CORES TO RIB PROFILES, ALL FULLY ENCAPSULATED
ALL PENETRATIONS TO BE FULLY SEALED
STEELWORK - S275 HOT DIP GALVANISED / 316 STAINLESS

TABLE *

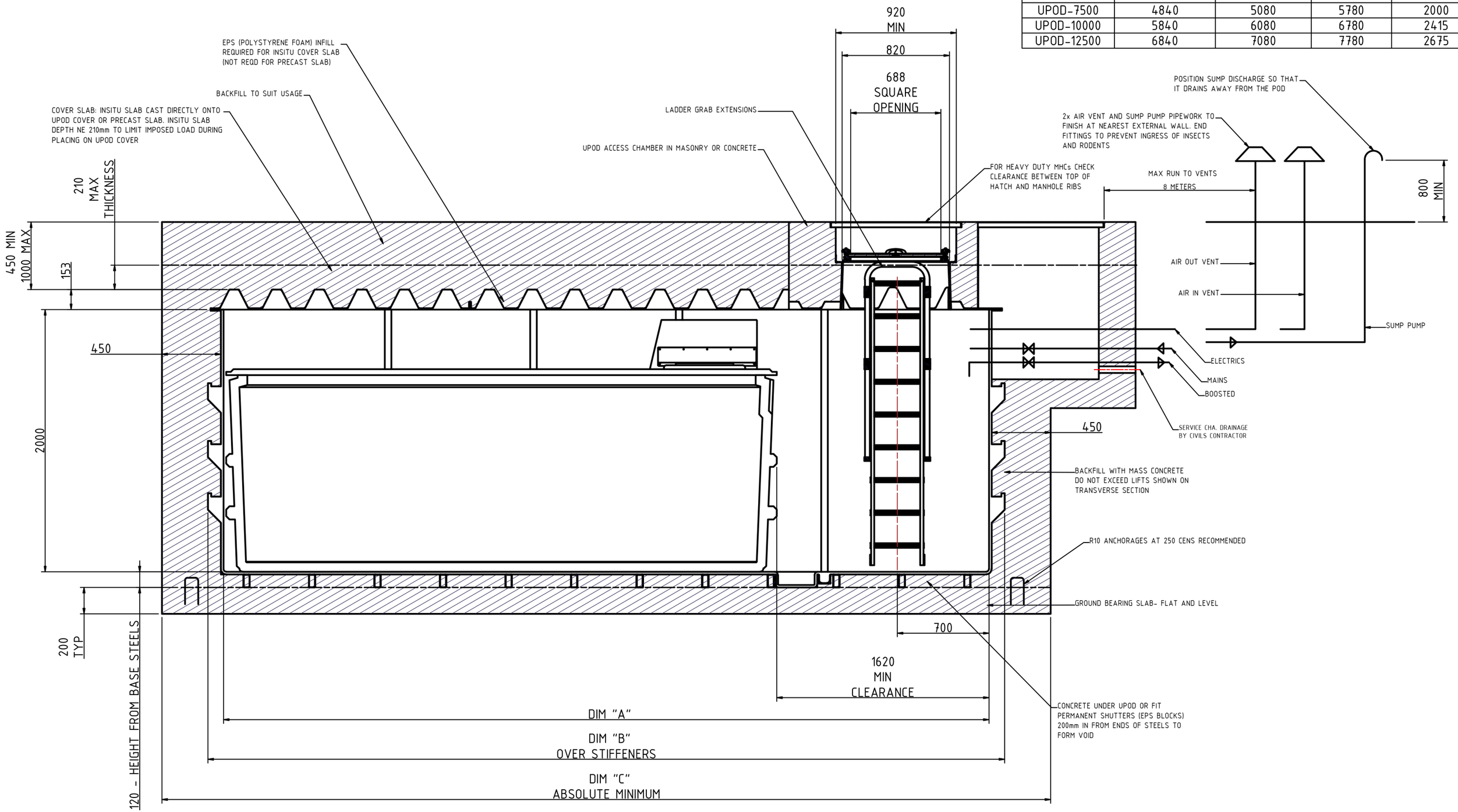
PART NUMBER	TANK DIMENSIONS	ACTUAL CAPACITY (LITRES) @ 1300 WATER LEVEL
UPOD-2600	2000x500x1500	1300
UPOD-5000	2000x2000x1500	5200
UPOD-7500	3150x2000x1500	7800
UPOD-10000	4000x2000x1500	10000
UPOD-12500	5000x2000x1500	12500

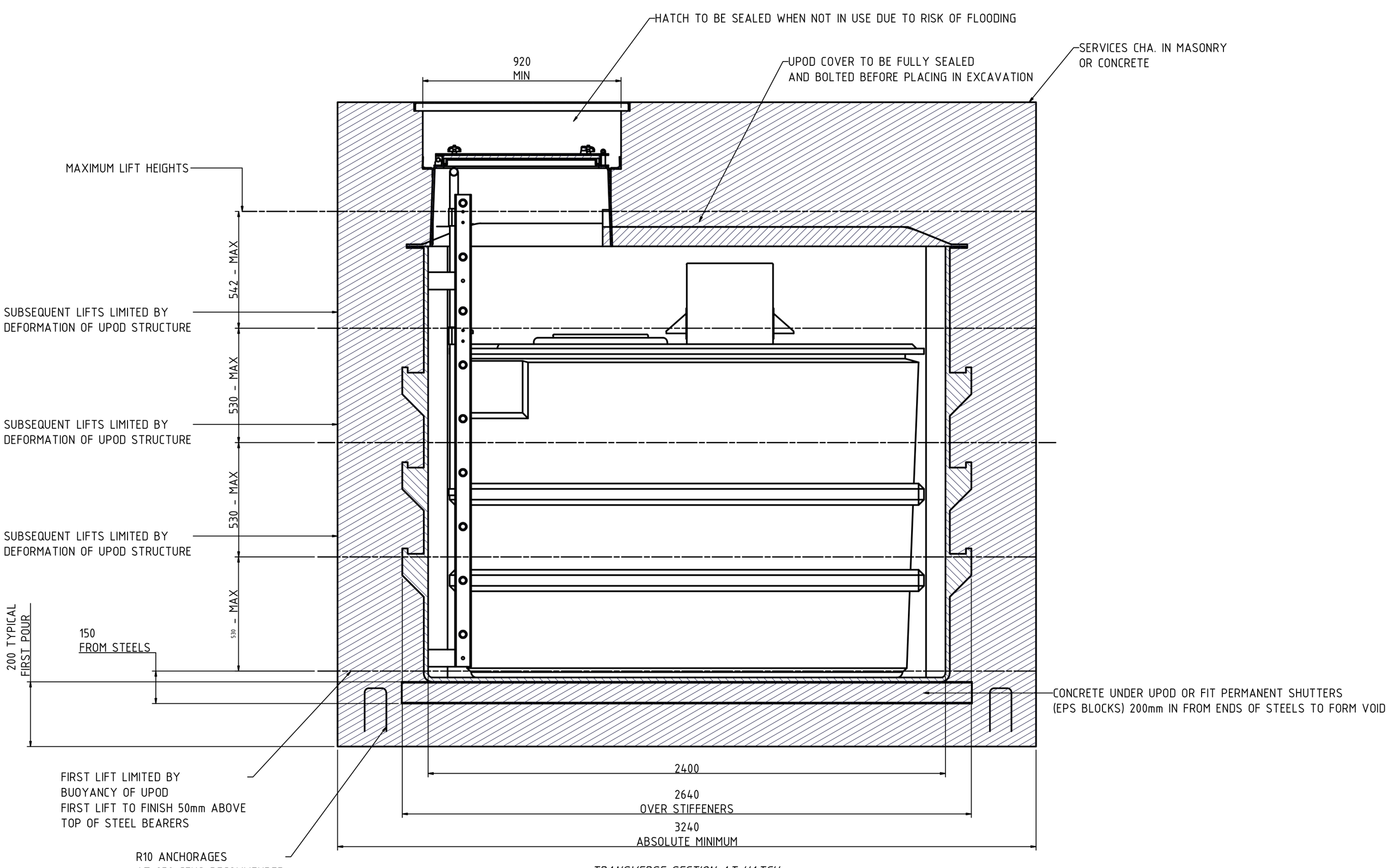


PLAN SECTION VIEW AT TANK COVER LEVEL

PAGE 3 DIMENSIONS

PART NUMBER	DIM "A"	DIM "B"	DIM "C"	EMPTY WEIGHT (kg)
UPOD-2600	2840	3080	3780	1320
UPOD-5000	3840	4080	4780	1655
UPOD-7500	4840	5080	5780	2000
UPOD-10000	5840	6080	6780	2415
UPOD-12500	6840	7080	7780	2675

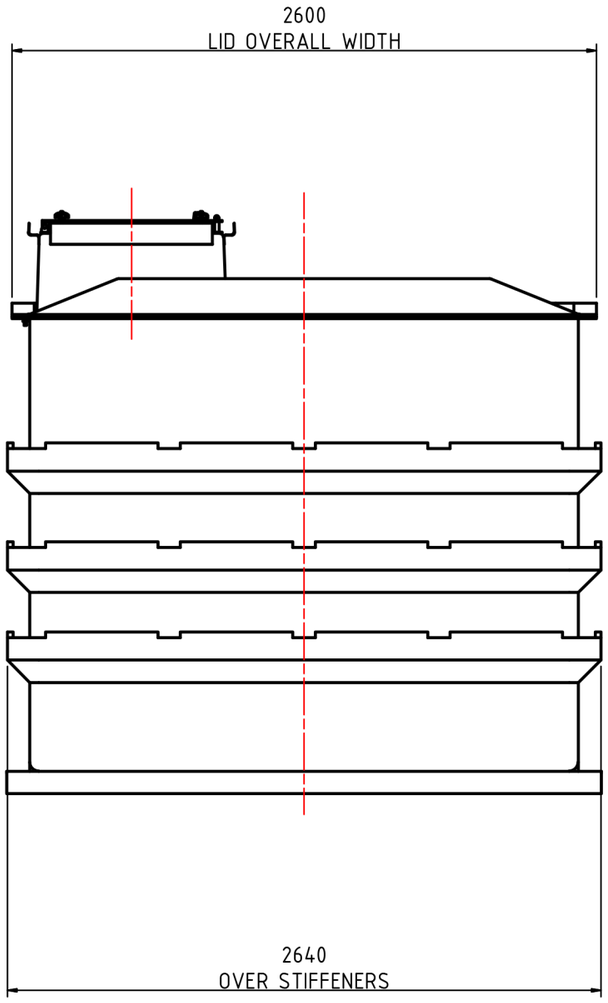




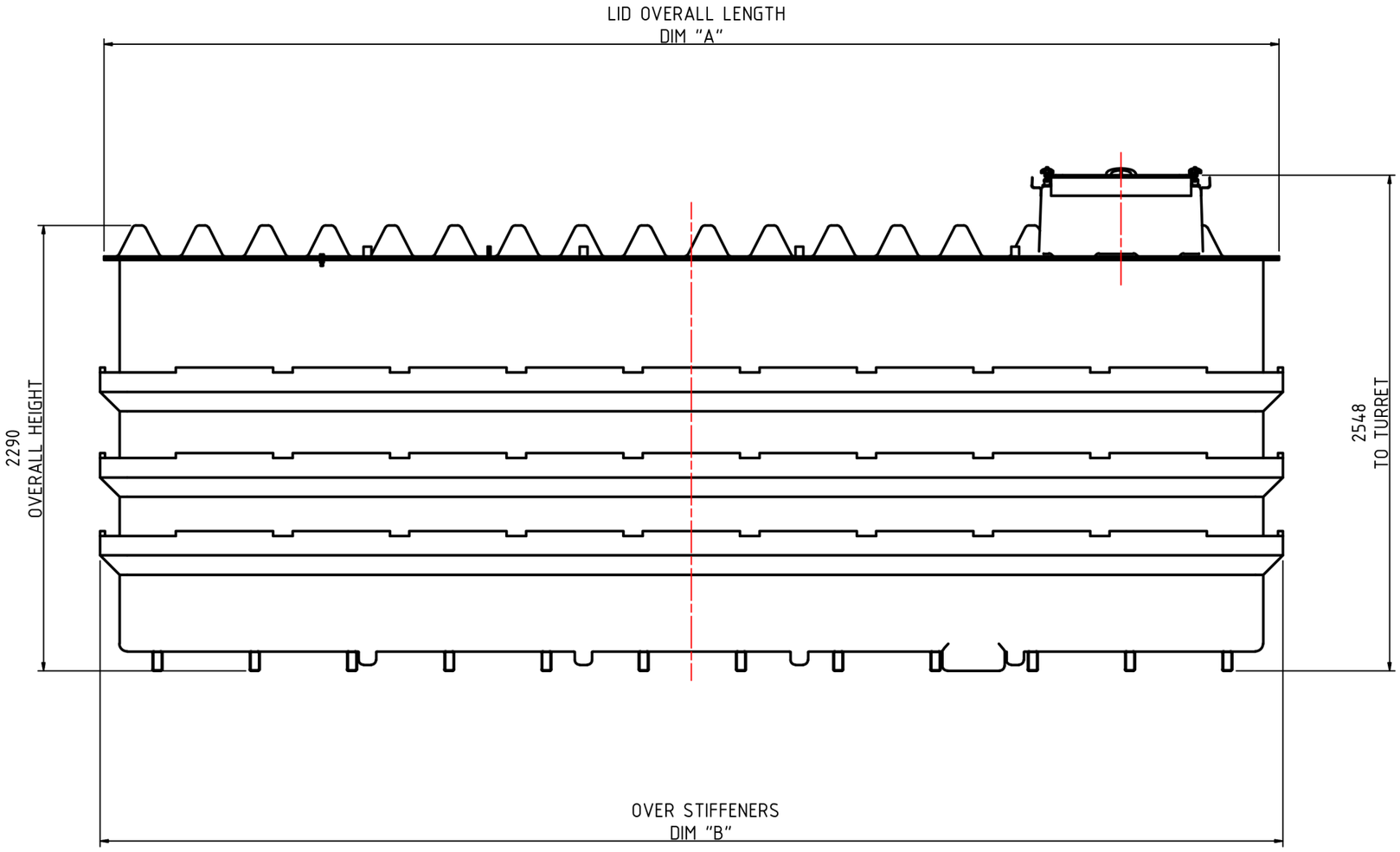
TRANSVERSE SECTION AT HATCH

PAGE 5 DIMENSIONS

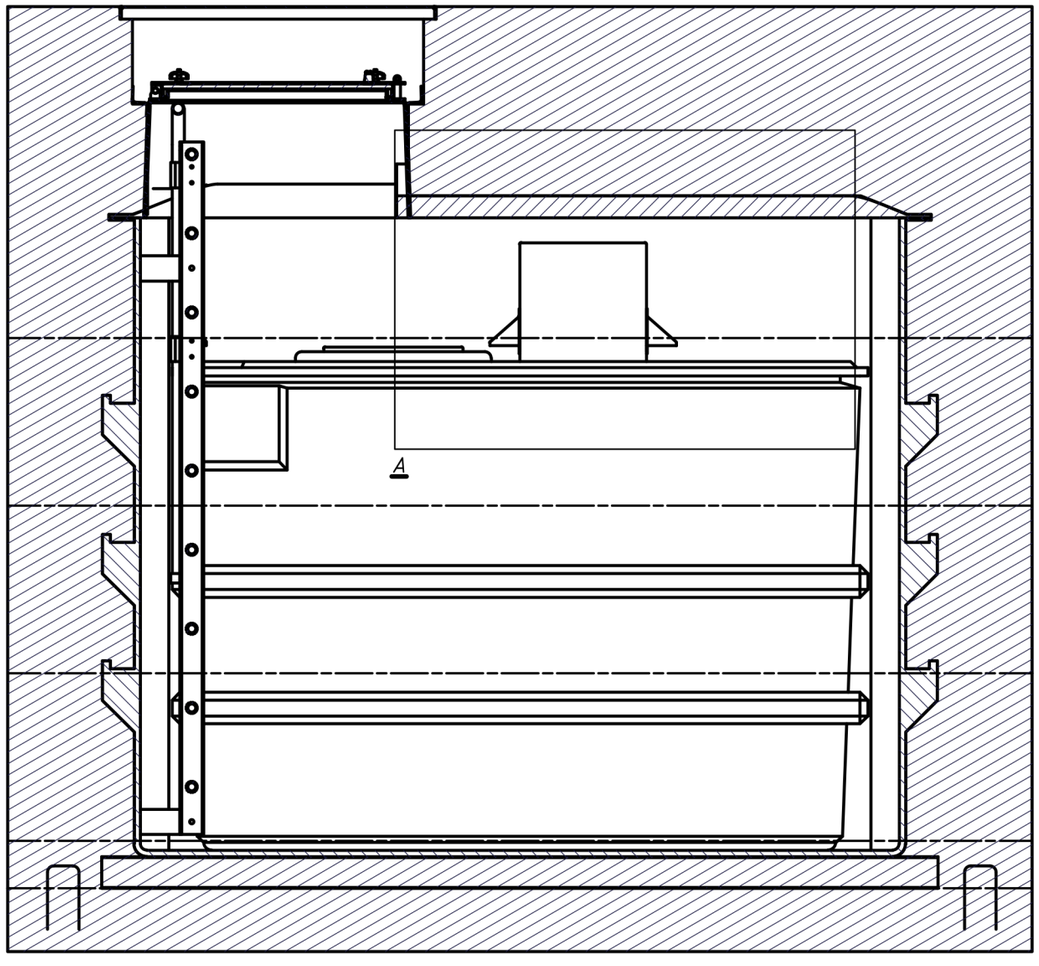
PART NUMBER	DIM "A"	DIM "B"
UPOD-2600	3040	3080
UPOD-5000	4040	4080
UPOD-7500	5040	5080
UPOD-10000	6040	6080
UPOD-12500	7040	7080



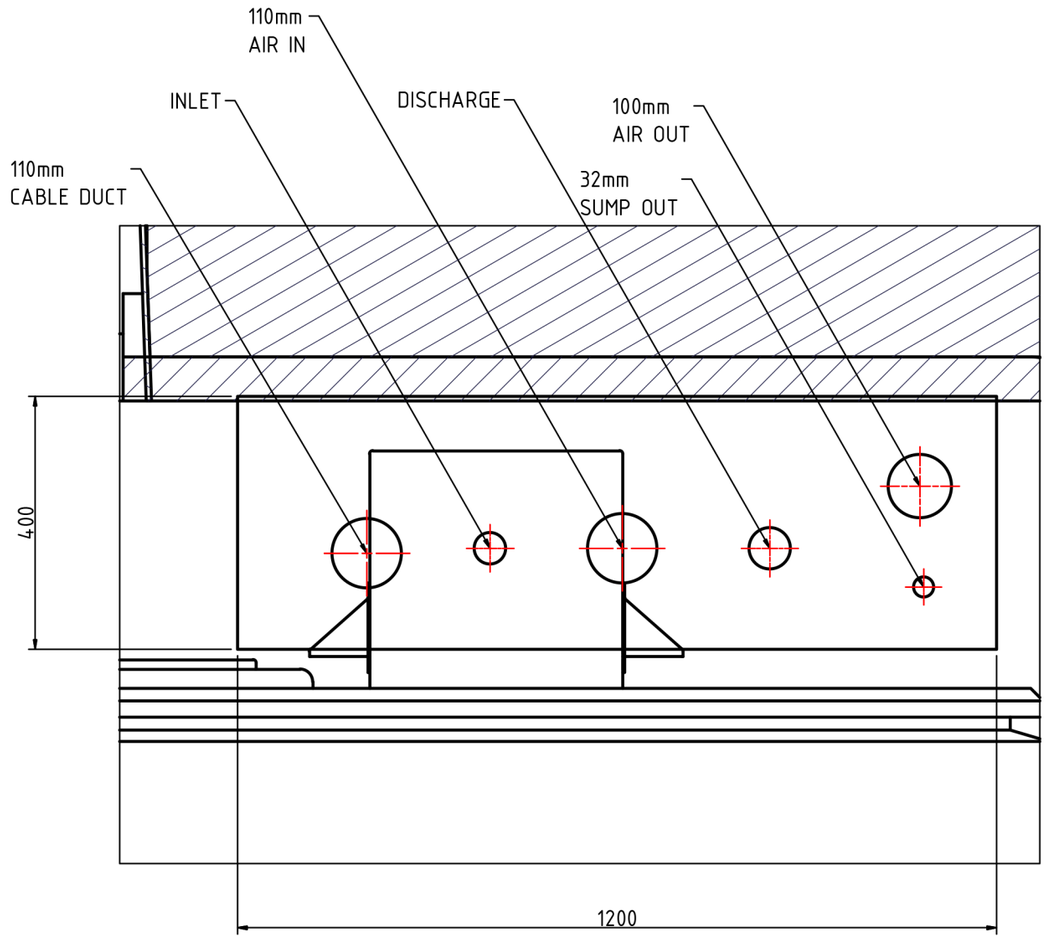
END ELEVATION OF UPOD



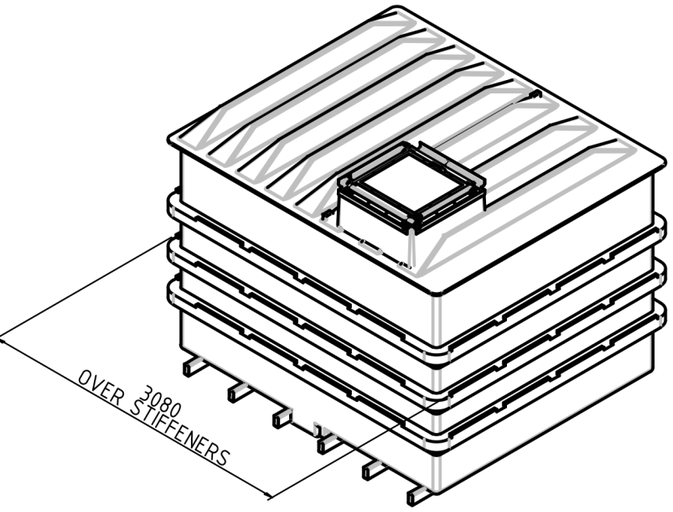
SIDE ELEVATION OF UPOD



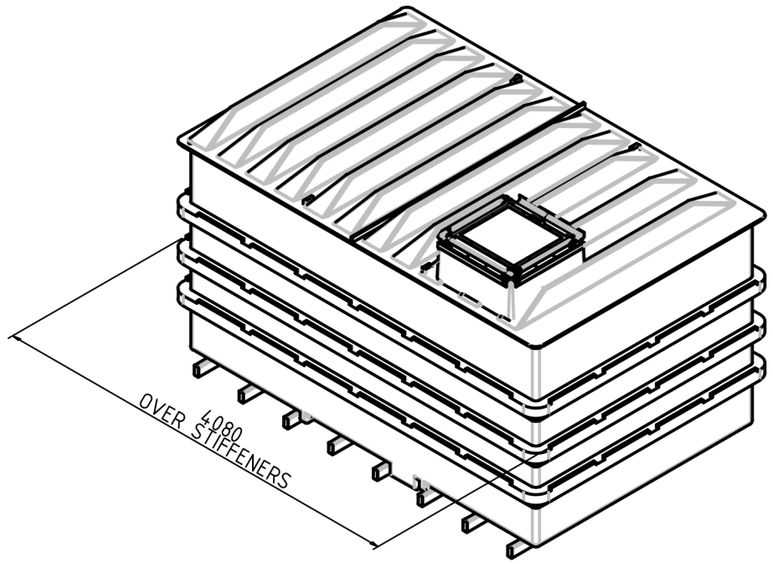
SECTION VIEW



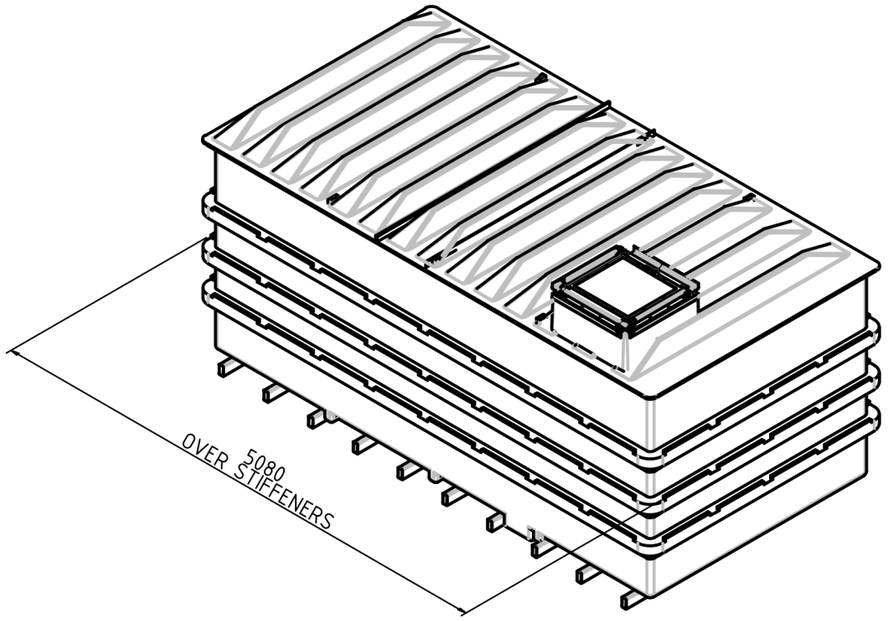
A - INLET AND DISCHARGE SIZE MAY VARY TO SUIT QUOTE
ALL MEASUREMENTS ARE +/- 50mm



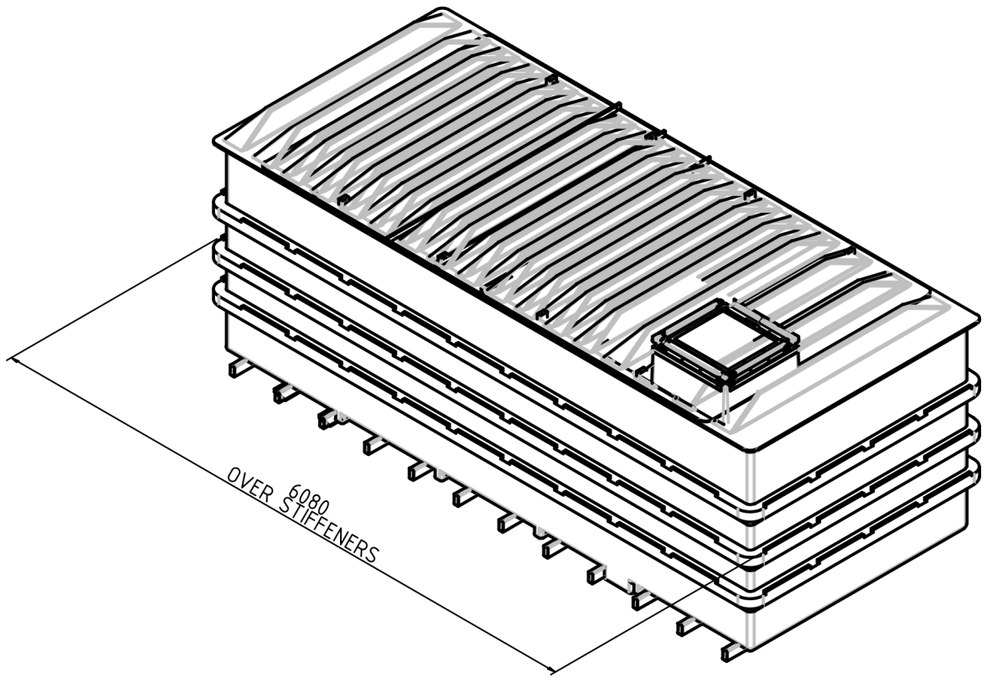
POD-2600



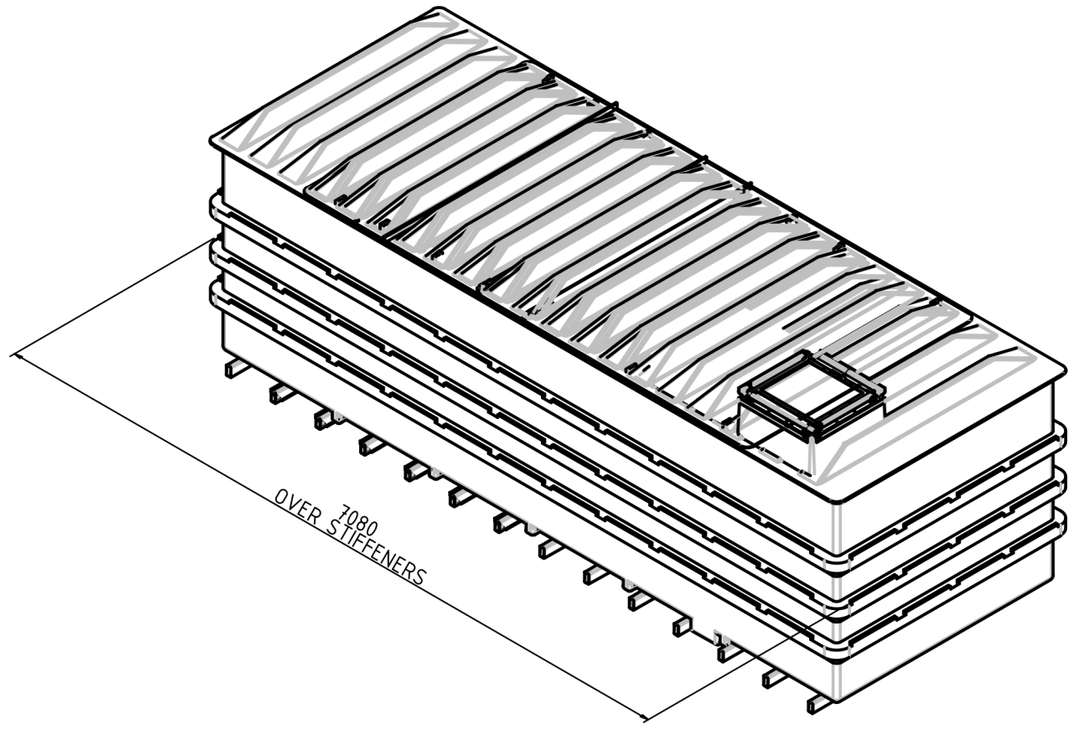
POD-5000



POD-7500



POD-10000



POD-12500