



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-762.901(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-762.851, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: WESTERN GLOBAL INC. Contact Name: AHMED KHAN
Company Address: 10233 RODNEY STREET, City, State: PINEVILLE, N.C. Zip: 28134
E-mail: ahmed.khan@western-global Contact Number: +1 (866) 814-2470, +1 (204) 289-3530
Product Name: PAT & FPAT SERIES ABOVEGROUND PROTECTED TANKS UL2085 / UL142 / ULC-S655-14 LISTED FUEL STORAGE TANKS
Model Number(s): PAT-Series & FPAT500, FPAT1000, FPAT2000 Se Product Type: AST FIREPROTECTED TANKS/PAT & FPAT Series
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: 62-762 (AS)

Write a brief description of equipment registration request including product limitations:

PROTECTED ABOVEGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS: UL2085, Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids. UL142, Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids. CAN/ULC-S655-15, Standard for Aboveground Protected Tank Assemblies for Flammable and Combustible Liquids. New Tanks are pre-installed and supplied with UL Listed OPD/OPV and Emergency Vents.

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	☒	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☒	☐	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☒	☐	☐
4. Technical information and drawings included?	☒	☐	☐
5. Installation instructions included?	☒	☐	☐
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	☒	☐	☐
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?	☒	☐	☐
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☒	☐	☐
9. Has the product been approved or registered in other countries or states? (If so provide list)	☒	☐	☐
10. Any requirements for company-certified installers or trainers?	☐	☐	☒
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- <u>955</u>	☒	☐	☐
12. Any changes or modifications to the equipment since the last submittal to DEP?	☒	☐	☐

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

Aboveground Secondary Containment Rectangular Protected Tanks for Flammable and Combustible Liquids, listed as UL-2085, UL-142 and CAN/ULC-S655 Tanks vide UL File MH64103 in about four varying storage capacities. Being Protected Aboveground Flammable-Liquid Tanks, Western Global recommends getting these tanks installed by the state certified petroleum technician / pollutant storage contractor in consultation with the local / county / state AHJ and in compliance to the NFPA30 and NFPA70 (NEC) requirements. Periodic operability and integrity testing must be carried out per state regulations.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

AHMED KHAN - REGULATORY & ENGINEERING COMPLIANCE

Printed Name and Title

Ahmed Khan

Signature (right click to sign)

01/13/2026

Date

For Department Use Only:

Date Application Received: 1/13/2026

Application complete:

Yes: ☒ No: ☐

EQ- 955 Date of complete or incomplete letter sent: 1/20/2026

Date Equipment Requires Renewal: 1/20/2031

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.



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Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: WESTERN GLOBAL Contact Name: AHMED KHAN
Company Address: 1707 NORTHWOOD DR. City, State: TROY, MICHIGAN Zip: 48084
E-mail: ahmed.khan@western-global.com Contact Number: +1(866) 814-2470, +1(204)289-3530
Product Name: PAT or ABOVEGROUND PROTECTED TANKS UL-2085 / UL- 142 / ULC-S655-14 LISTED FUEL STORAGE TANKS
Model Number(s): PAT04, PAT10, PAT20, PAT40 Product Type: Tanks Protected / AST with Secondary Containment
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: 62-762-851 (AST)

Write a brief description of equipment registration request including product limitations:

PROTECTED ABOVEGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS: UL2085, Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids. UL142, Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids. CAN/ULC-S655-15, Standard for Aboveground Protected Tank Assemblies for Flammable and Combustible Liquids. New Tanks are pre-installed and supplied with UL Listed OPD/OPV and Emergency Vents.

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Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

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Aboveground Secondary Containment Rectangular Protected Tanks for Flammable and Combustible Liquids, listed as UL-2085, UL-142 and CAN/ULC-S655 Tanks vide UL File MH64103 in about four varying storage capacities. Being Protected Aboveground Flammable-Liquid Tanks, Western Global recommends getting these tanks installed by the state certified petroleum technician / pollutant storage contractor in consultation with the local / county / state AHJ and in compliance to the NFPA30 and NFPA70 (NEC) requirements. Periodic operability and integrity testing must be carried out per state regulations.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

AHMED KHAN - REGULATORY & ENGINEERING COMPLIANCE

Printed Name and Title

Signature (right click to sign)

03/25/2021

Date

For Department Use Only:

Date Application Received: 04/23/2021 Application complete: Yes: ☒ No: ☐

EQ- 955 Date of complete or incomplete letter sent: 04/26/2021 Date Equipment Requires Renewal: 04/26/2026

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.

CERTIFICATE OF COMPLIANCE

Certificate Number MH64103
Report Reference MH64103-20191211
Issue Date 2019-DECEMBER-16

Issued to: Western Global Holdings
Western House
Broad Lane, Yate
Bristol
BS37 7LB UNITED KINGDOM

**This certificate confirms that
representative samples of**

PROTECTED ABOVEGROUND TANKS FOR
FLAMMABLE AND COMBUSTIBLE LIQUIDS

Protected secondary containment aboveground tanks for
flammable liquids.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:

UL2085, Standard for Protected Aboveground Tanks for
Flammable and Combustible Liquids.
UL142, Standard for Steel Aboveground Tanks for
Flammable and Combustible Liquids.
CAN/ULC-S655-15, Standard for Aboveground Protected
Tank Assemblies for Flammable and Combustible Liquids.

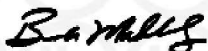
Additional Information:

See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



NOTICE OF COMPLETION
AND
AUTHORIZATION TO APPLY THE UL MARK



February 14, 2020

Mr. Ahmed Khan
Western Global Holdings
Western House
Broad Lane
Yate
Bristol, BS37 7LB, GB

Our Reference: File MH64103, Vol. 1

Order: 13215422
Project 4789356275

Your Reference: POHL008873

Project Scope: Investigation of Model PAT20 protected tanks for flammable and combustible liquids

Dear Mr. Khan:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File MH64103, Vol. 1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site: <http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Tim Crews
Staff Engineer
Timothy.A.Crews@ul.com

Reviewed by:

Bruce A. Mahrenholz
CPO Director
Bruce.A.Mahrenholz@ul.com

df7fb5ae-82c5-4595-b54f-9fea35f3fbb

NOTICE OF COMPLETION
AND
AUTHORIZATION TO APPLY THE UL MARK



December 13, 2019

Mr. Ahmed Khan
Western Global Holdings
Western House
Broad Lane
Yate
Bristol, BS37 7LB, GB

Our Reference: File MH64103, Vol. 1 Order 12704820

Your Reference: POHL006536

Project Scope: Model PAT10 Secondary Containment Protected Tanks for Flammable and
Combustible Liquids

Dear Mr. Khan:

Congratulations! UL's investigation of your products has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturers with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File MH64103, Vol. 1 and *including any special instructions as indicated in the addendum to this letter.*

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site:
<http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Tim Crews
Staff Engineer
Timothy.A.Crews@ul.com

Reviewed by:

Bruce A. Mahrenholz
CPO Director
Bruce.A.Mahrenholz@ul.com

688249df-76af-46a3-86fe-0b680f38ce48

NOTICE OF COMPLETION
AND
AUTHORIZATION TO APPLY THE UL MARK



IPI ADDENDUM

December 13, 2019

Mr. Ahmed Khan
Western Global Holdings
Western House
Broad Lane
Yate
Bristol, BS37 7LB, GB

Our Reference: File MH64103, Vol. 1 Order 12704820

Your Reference: POHL006536

Project Scope: Model PAT10 Secondary Containment Protected Tanks for Flammable and
Combustible Liquids

This addendum covers products manufactured at the following location:

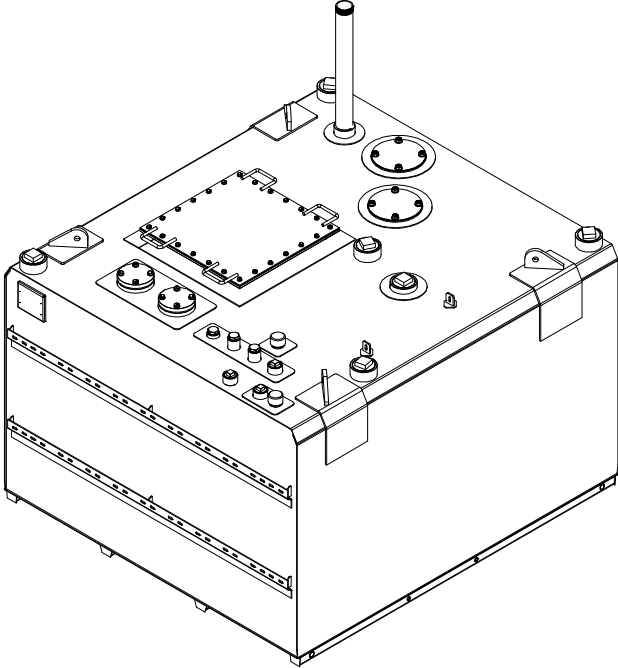
Manufacturer	Party Site Number	Account	Factory ID	Country
Western Global Polska SP Z.O.O.	1585828		P6	Poland

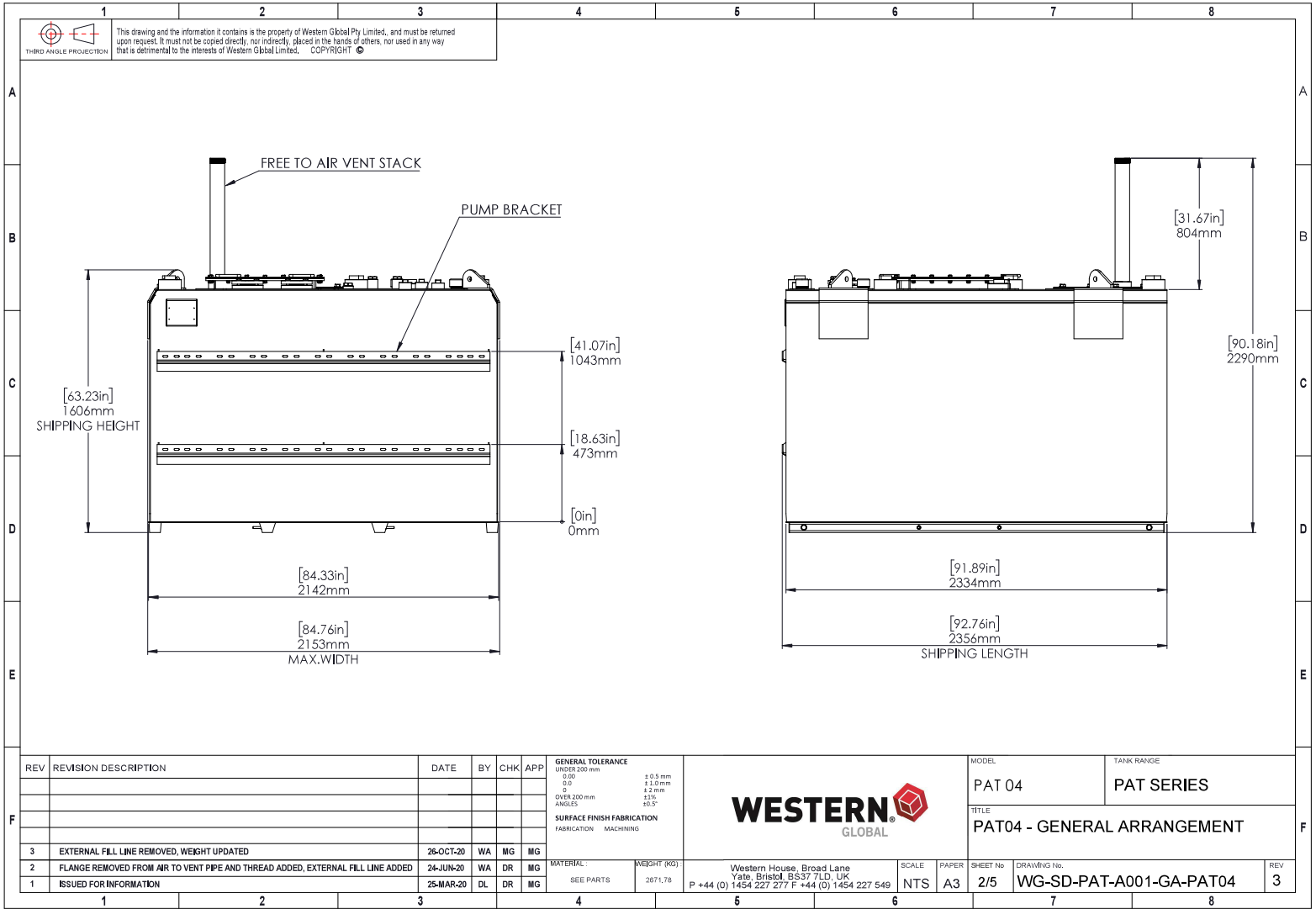
Before you may begin shipping product with the UL Mark at the above manufacturing locations, an Initial Production Inspection (IPI) must be successfully performed by a UL representative at the location.

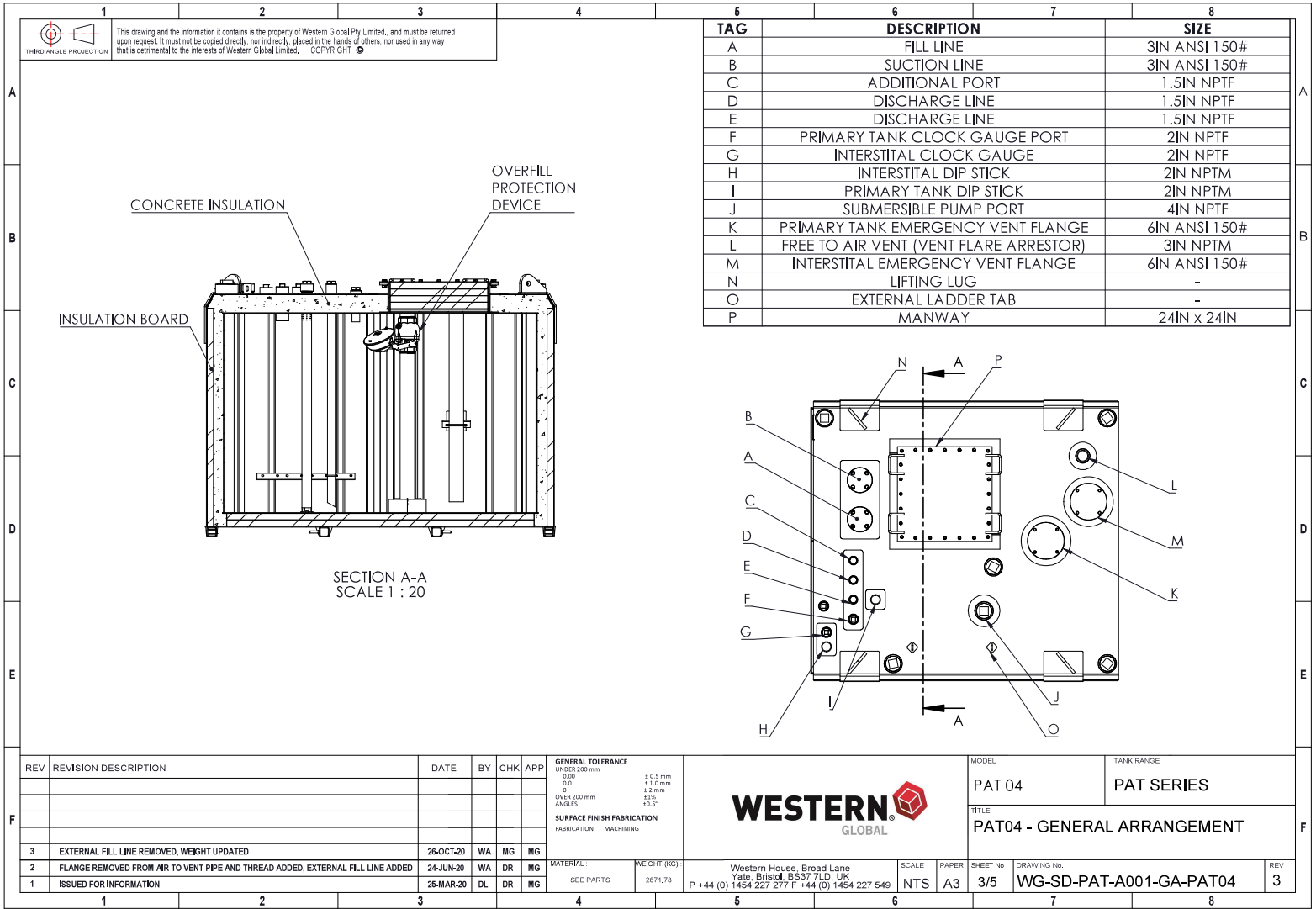
The IPI is intended to confirm that your manufacturing location is capable of producing a product in accordance with UL's requirements. **YOU MAY NOT SHIP PRODUCTS WITH THE UL MARK UNTIL THE IPI HAS BEEN COMPLETED AND UL HAS FOUND THE PRODUCTS AT THE FACTORY TO COMPLY WITH OUR REQUIREMENTS.** Once the IPI has been successfully completed, you will be granted authorization to ship products bearing the UL Mark.

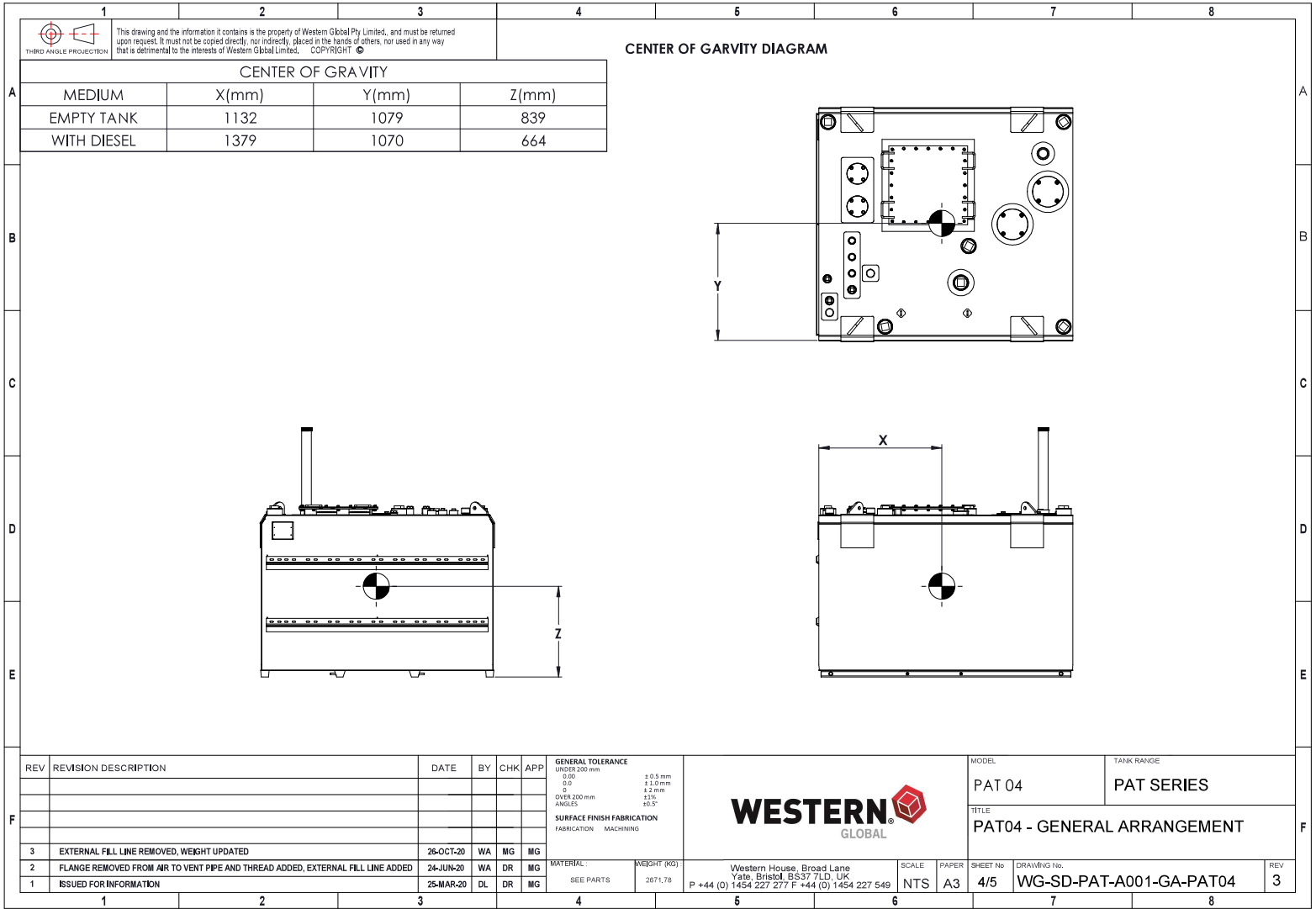
Instructions for the IPI will be sent to our inspection center nearest to you. The Inspection Center will contact you shortly to make arrangements for the IPI.

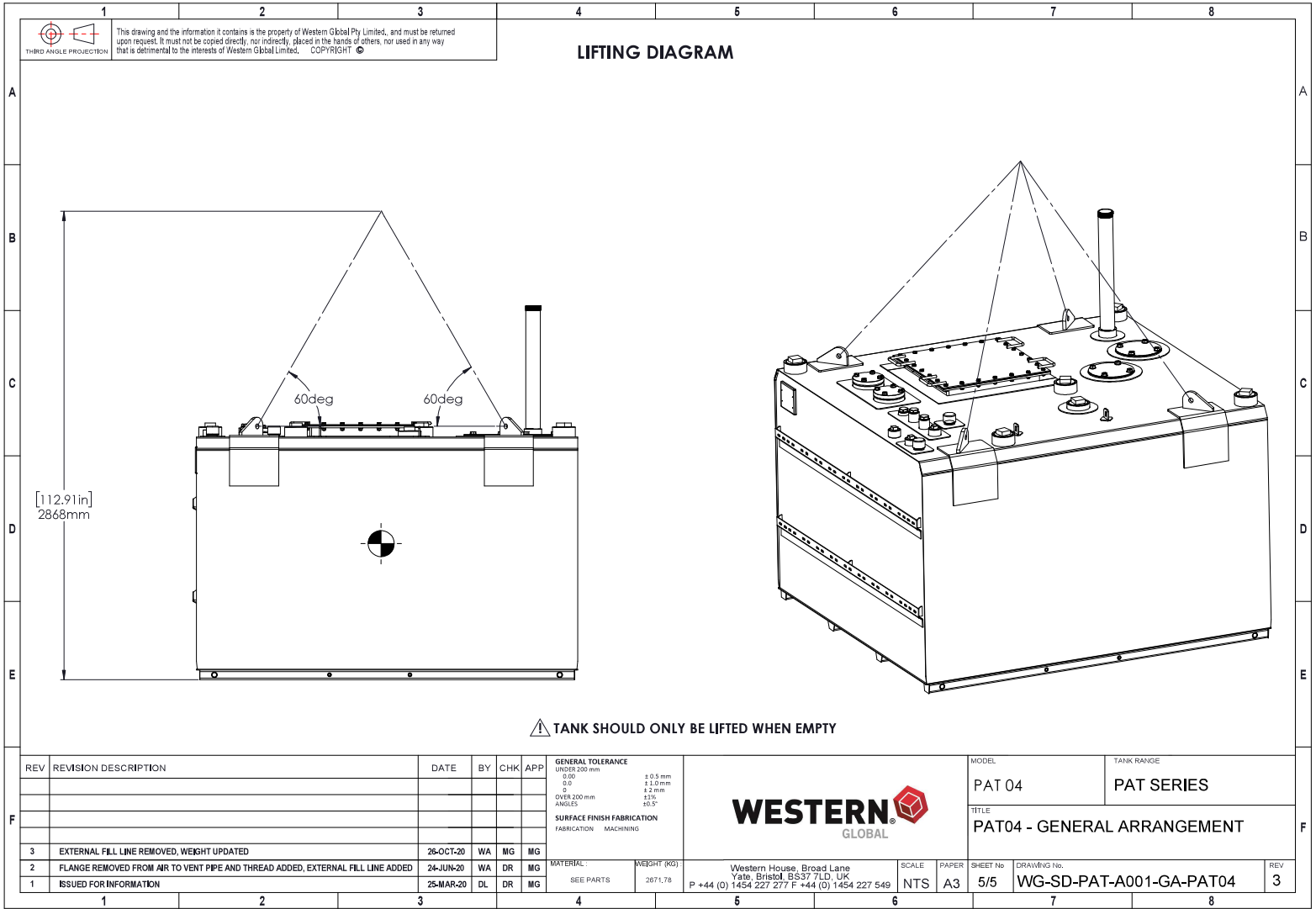
MARIUSZ PYRCIK
FIELD SERVICE AREA MANAGER
UL INSPECTION CENTER POLAND
UL INTERNATIONAL POLSKA SP Z O O
ALEJA KRAKOWSKA 81
SEKOCIN NOWY, K WARSZAWY, Poland, 05-090.
PHONE: 48-509-855-437
FAX: 48-22-336-33-01
EMAIL: mariusz.pyrcik@ul.com

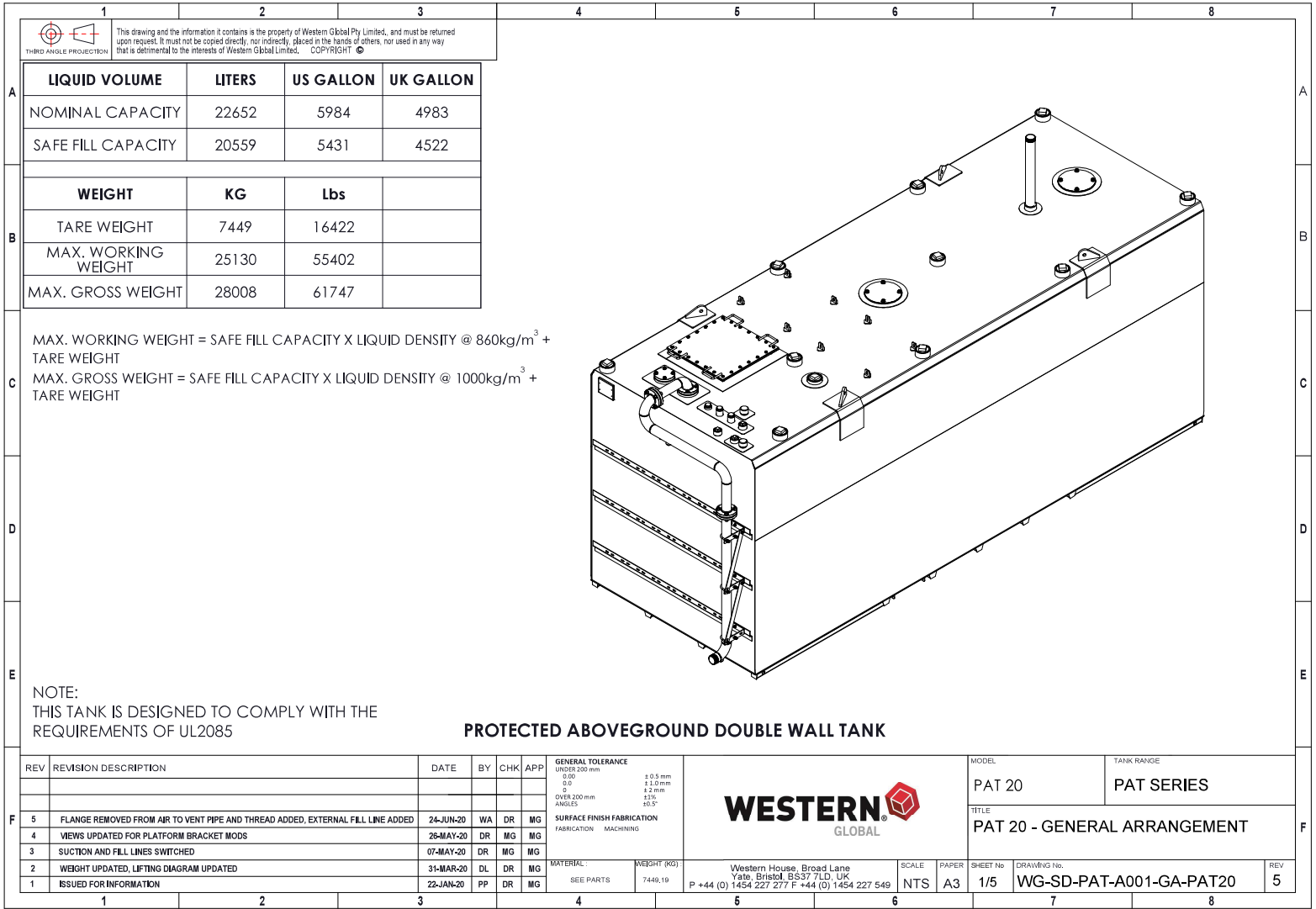
1		2		3		4		5		6		7		8										
		This drawing and the information it contains is the property of Western Global Pty Limited, and must be returned upon request. It must not be copied directly, nor indirectly, placed in the hands of others, nor used in any way that is detrimental to the interests of Western Global Limited. COPYRIGHT ©																						
LIQUID VOLUME		LITERS	US GALLON	UK GALLON																				
NOMINAL CAPACITY		4672	1234	1028																				
SAFE FILL CAPACITY		3900	1030	858																				
WEIGHT		KG	Lbs																					
TARE WEIGHT		2672	5891																					
MAX. WORKING WEIGHT		6026	13285																					
MAX. GROSS WEIGHT		6572	14489																					
MAX. WORKING WEIGHT = SAFE FILL CAPACITY X LIQUID DENSITY @ 860kg/m3 + TARE WEIGHT MAX. GROSS WEIGHT = SAFE FILL CAPACITY X LIQUID DENSITY @ 1000kg/m3 + TARE WEIGHT																								
																								
NOTE: THIS TANK IS DESIGNED TO COMPLY WITH THE REQUIREMENTS OF UL2085																								
PROTECTED ABOVEGROUND DOUBLE WALL TANK																								
REV	REVISION DESCRIPTION			DATE	BY	CHK	APP	GENERAL TOLERANCE UNDER 200 mm 0.00 ± 0.5 mm 0.0 ± 1.0 mm 0 ± 1.2 mm OVER 200 mm ±1% ANGLES 10.5° SURFACE FINISH FABRICATION FABRICATION MACHINING				MODEL PAT 04		TANK RANGE PAT SERIES										
3	EXTERNAL FILL LINE REMOVED, WEIGHT UPDATED			26-OCT-20	WA	MG	MG					TITLE PAT04 - GENERAL ARRANGEMENT												
2	FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED			24-JUN-20	WA	DR	MG					MATERIAL : SEE PARTS				WEIGHT (KG) 2671.78		Western House, Broad Lane Yate, Bristol, BS37 7LD, UK P +44 (0) 1454 227 277, F +44 (0) 1454 227 549		SCALE NTS	PAPER A3	SHEET No 1/5	DRAWING No. WG-SD-PAT-A001-GA-PAT04	REV 3
1	ISSUED FOR INFORMATION			25-MAR-20	DL	DR	MG																	
1		2		3		4		5		6		7		8										

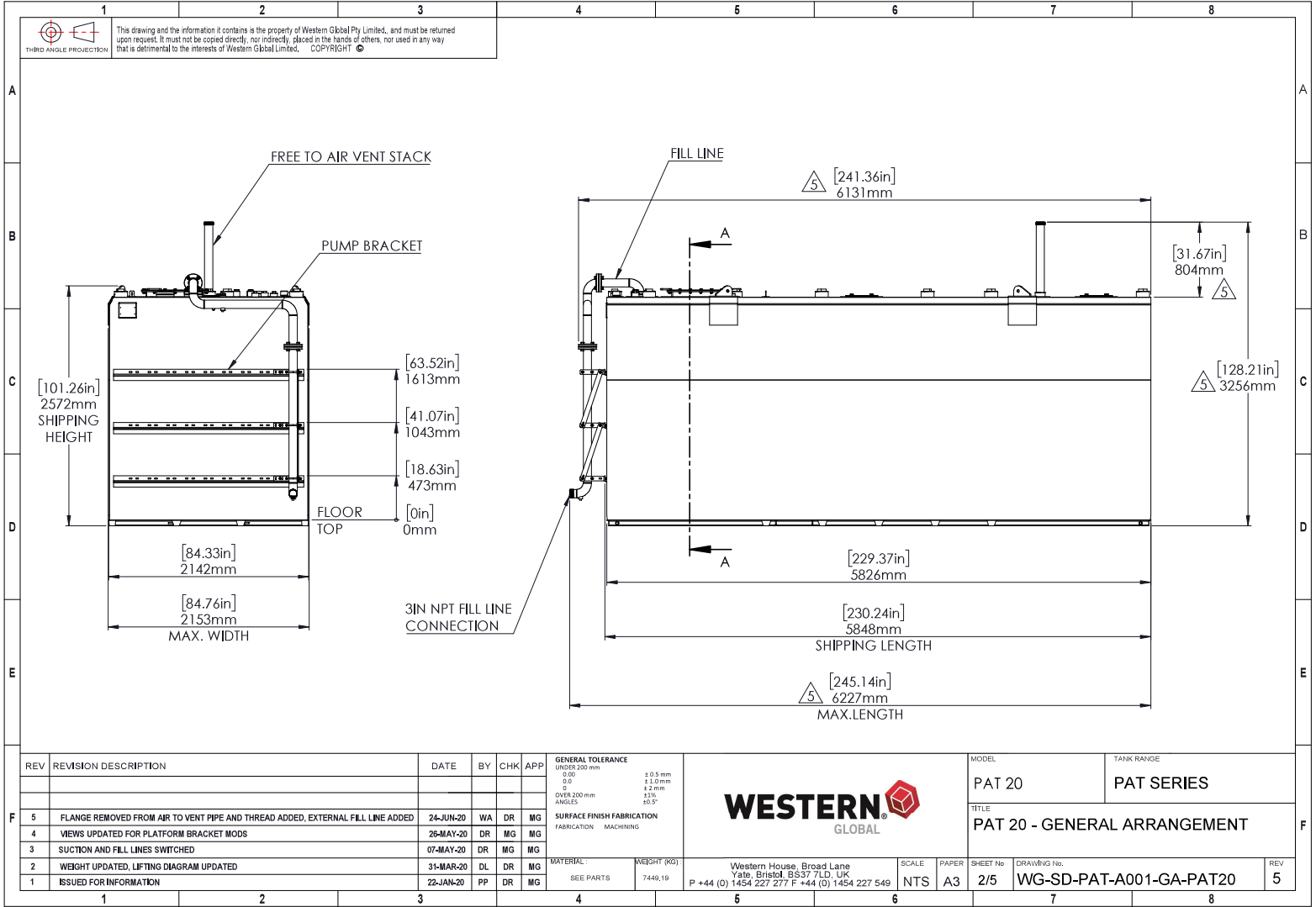








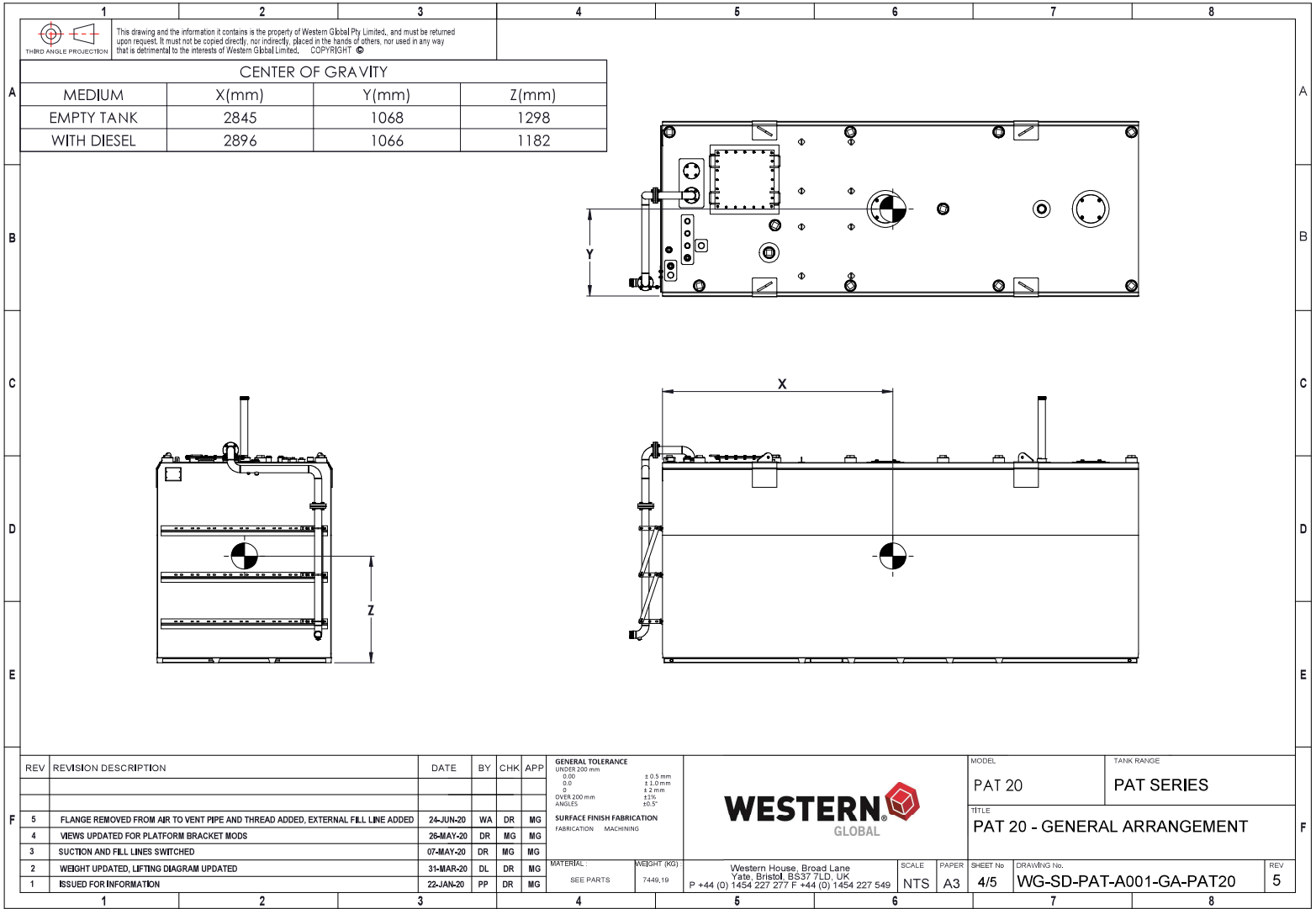






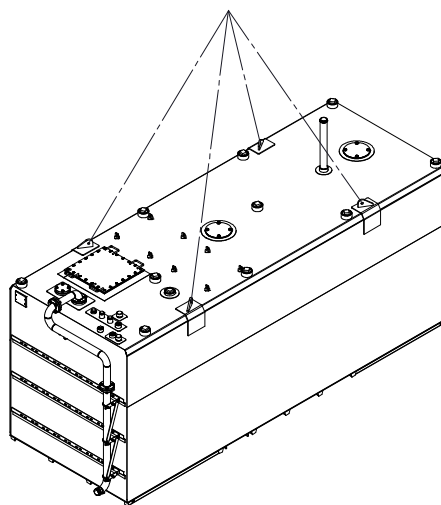
Technical drawing of the rear view of the device, showing various components labeled A through M. The drawing includes a central rectangular panel with a grid of small circles, surrounded by a frame. Various ports, connectors, and mounting points are labeled with letters and numbers. A scale bar is present in the top right corner.

REV						REVISION DESCRIPTION	DATE	BY	CHK	APP	GENERAL TOLERANCE				MODEL		TANK RANGE																														
											UNDER 200 mm ± 0.5 mm 0.0 ± 1.0 mm 0.0 ± 2.0 mm 0 ± 3.0 mm OVER 200 mm ± 1.5° ANGLES 10.5°				PAT 20		PAT SERIES																														
											WESTERN® GLOBAL				TITLE																																
											SURFACE FINISH FABRICATION FABRICATION MACHINING				PAT 20 - GENERAL ARRANGEMENT																																
											MATERIAL:		WEIGHT (KG)		SCALE		PAPER	SHEET No	DRAWING No.	REV																											
											SEE PARTS		7449.10		Western House, Broad Lane Farn, Bristol BS37 7JL, UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 459		NTS		A3	3/5	WG-SD-PAT-A001-GA-PAT20	5																									
1						2						3						4						5						6						7						8					



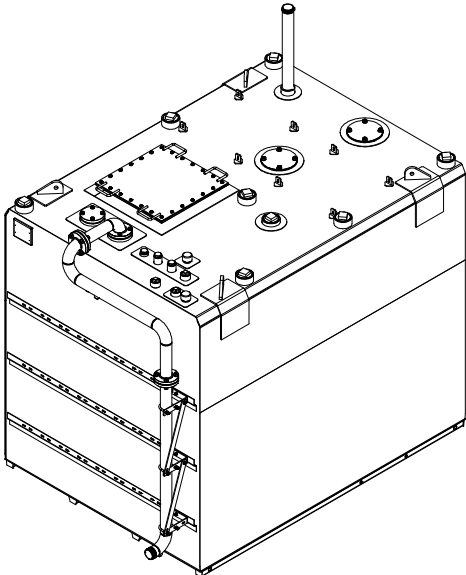


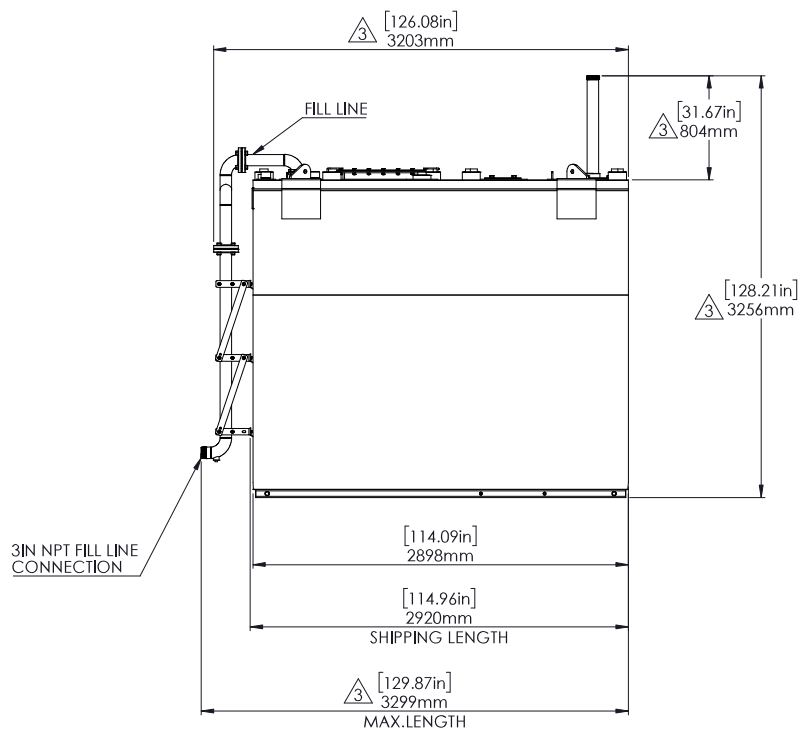
Technical drawing of a rectangular tank with a conical roof. The drawing shows a side elevation with a central circular hatch. Dimensions include a height of 205.16 in (5211 mm) and a 60-degree angle for the roof structure.



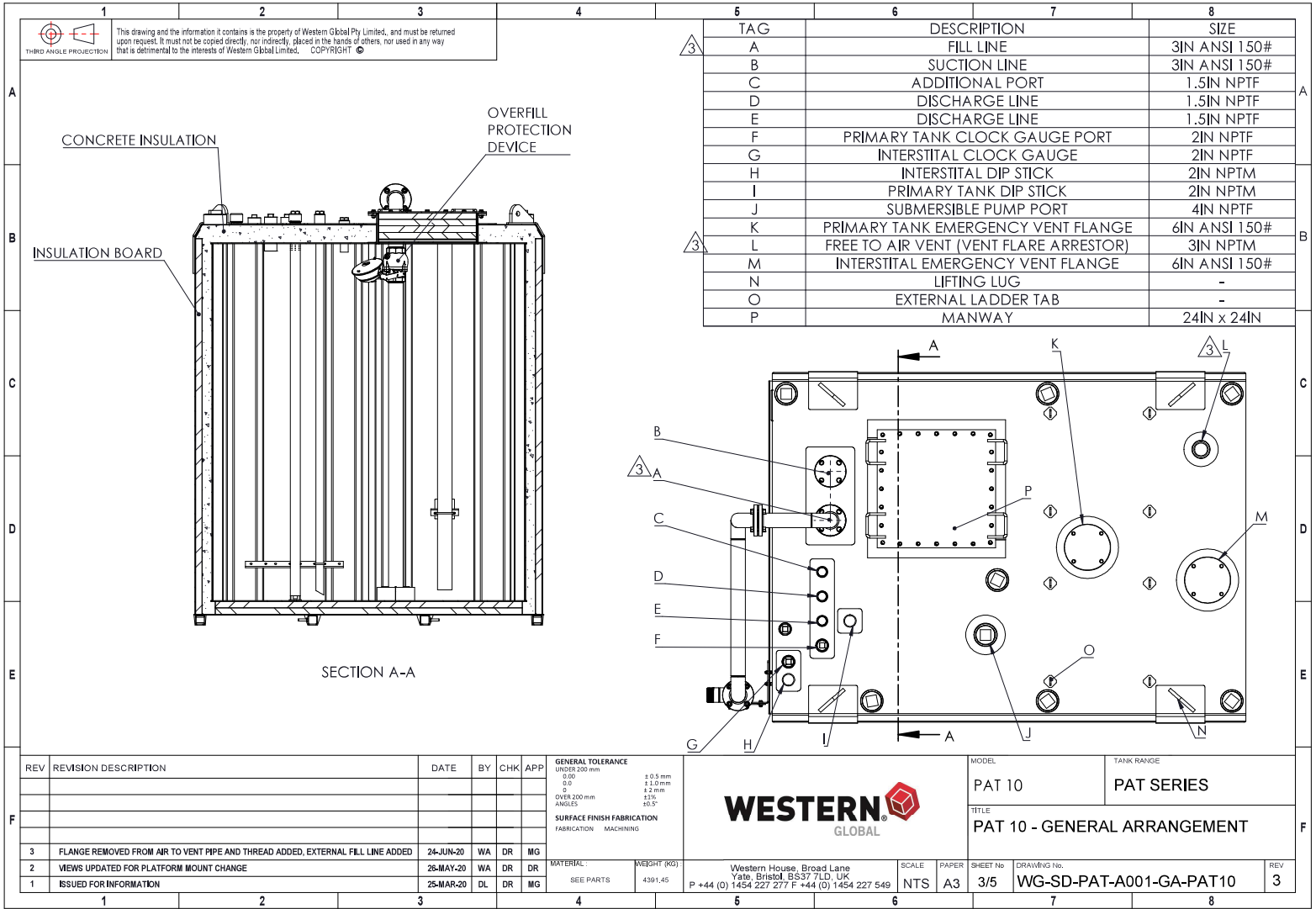
 TANK SHOULD ONLY BE LIFTED WHEN EMPTY

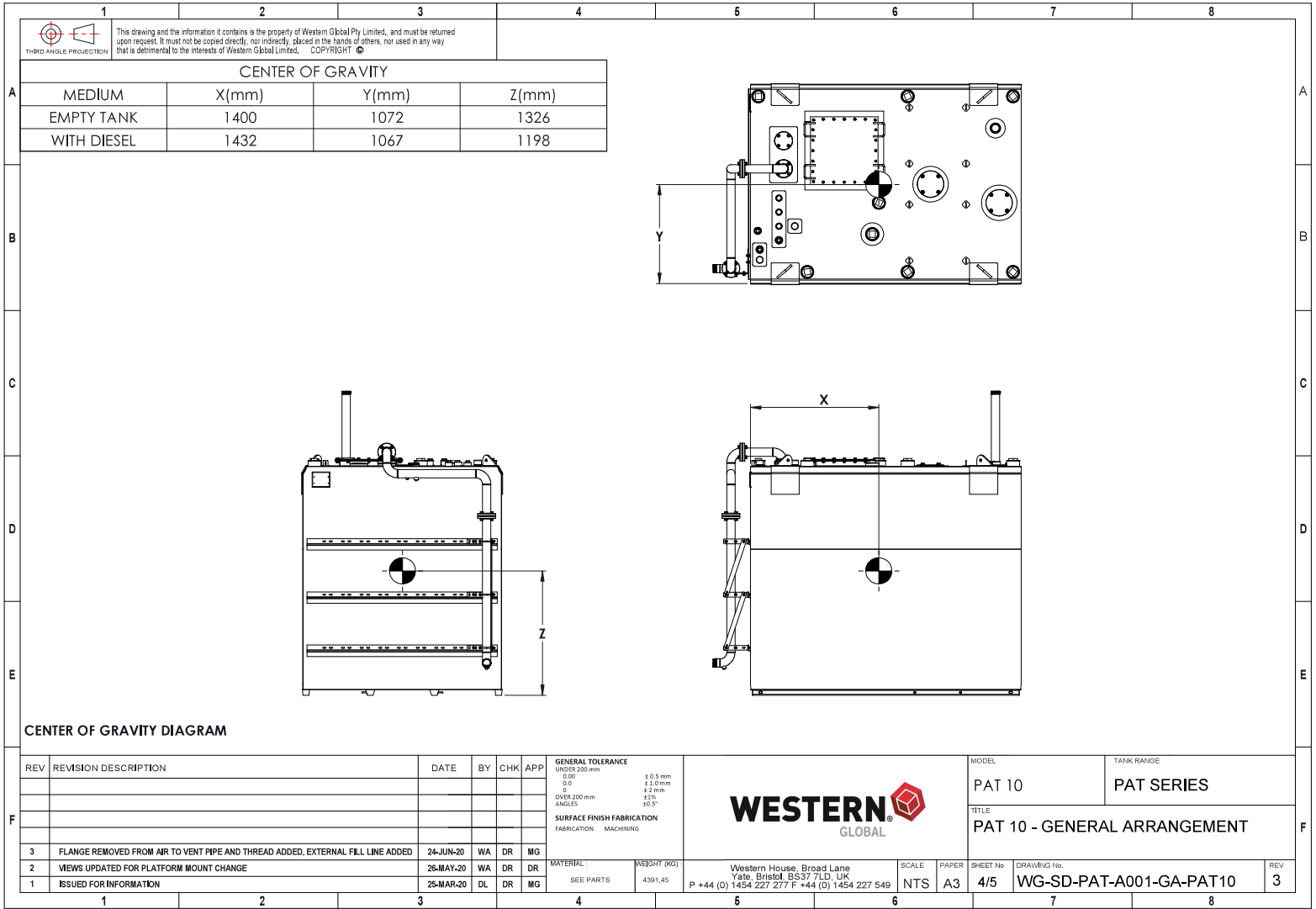
REV	REVISION DESCRIPTION	DATE	BY	CHK	APP	GENERAL TOLERANCE				MODEL		TANK RANGE			
						UNDER 200 mm	0.0	2.0 ± mm	PAT 20		PAT SERIES				
						0	0	1.0 ± mm							
						OVER 200 mm	0	1.2 ± mm							
						ANGLES	0	17°							
								10.5°							
F	5	FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED	24-JUN-20	WA	DR	MG	SURFACE FINISH FABRICATION		WESTERN[®] GLOBAL		PAT 20 - GENERAL ARRANGEMENT				
	4	VIEWS UPDATED FOR PLATFORM BRACKET MODS	26-MAY-20	DR	MG	MG	FABRICATION MACHINING								
	3	SUCTION AND FILL LINES SWITCHED	07-MAY-20	DR	MG	MG									
	2	WEIGHT UPDATED, LIFTING DIAGRAM UPDATED	31-MAR-20	DL	DR	MG									
	1	ISSUED FOR INFORMATION	22-JAN-20	PP	DR	MG									
		1	2	3	4	5	6								
						MATERIAL:		WEIGHT (KG):		SCALE	PAPER	SHEET No.	DRAWING No.	REV	
						SEE PARTS		7449.19		NTS	A3	5/5	WG-SD-PAT-A001-GA-PAT20	5	
								Western House, Broad Lane Yate, Bristol, BS37 7LD, UK							
								P +44 (0) 1454 227 277 F +44 (0) 1454 227 549							

	1	2	3	4	5	6	7	8																																																														
	 This drawing and the information it contains is the property of Western Global Pty Limited, and must be returned upon request. It must not be copied directly, nor indirectly, placed in the hands of others, nor used in any way that is detrimental to the interests of Western Global Limited. COPYRIGHT ©																																																																					
A	<table><tr><th>LIQUID VOLUME</th><th>LITERS</th><th>US GALLON</th><th>UK GALLON</th></tr><tr><td>NOMINAL CAPACITY</td><td>10682</td><td>2822</td><td>2350</td></tr><tr><td>SAFE FILL CAPACITY</td><td>9698</td><td>2562</td><td>2133</td></tr></table>				LIQUID VOLUME	LITERS	US GALLON	UK GALLON	NOMINAL CAPACITY	10682	2822	2350	SAFE FILL CAPACITY	9698	2562	2133																																																						
LIQUID VOLUME	LITERS	US GALLON	UK GALLON																																																																			
NOMINAL CAPACITY	10682	2822	2350																																																																			
SAFE FILL CAPACITY	9698	2562	2133																																																																			
B																																																																						
	<th>WEIGHT</th> <th>KG</th> <th>Lbs</th>	WEIGHT	KG	Lbs																																																																		
	TARE WEIGHT	4391	9680																																																																			
	MAX. WORKING WEIGHT	12731	28067																																																																			
	MAX. GROSS WEIGHT	14089	31061																																																																			
C	MAX. WORKING WEIGHT = SAFE FILL CAPACITY X LIQUID DENSITY @ 860kg/m³ + TARE WEIGHT MAX. GROSS WEIGHT = SAFE FILL CAPACITY X LIQUID DENSITY @ 1000kg/m³ + TARE WEIGHT																																																																					
D																																																																						
E	NOTE: THIS TANK IS DESIGNED TO COMPLY WITH THE REQUIREMENTS OF UL2085				PROTECTED ABOVEGROUND DOUBLE WALL TANK																																																																	
F	<table><tr><th>REV</th><th>REVISION DESCRIPTION</th><th>DATE</th><th>BY</th><th>CHK</th><th>APP</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td>FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED</td><td>24-JUN-20</td><td>WA</td><td>DR</td><td>MG</td></tr><tr><td>2</td><td>VIEWS UPDATED FOR PLATFORM MOUNT CHANGE</td><td>26-MAY-20</td><td>WA</td><td>DR</td><td>DR</td></tr><tr><td>1</td><td>ISSUED FOR INFORMATION</td><td>25-MAR-20</td><td>DL</td><td>DR</td><td>MG</td></tr></table>			REV	REVISION DESCRIPTION	DATE	BY	CHK	APP																			3	FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED	24-JUN-20	WA	DR	MG	2	VIEWS UPDATED FOR PLATFORM MOUNT CHANGE	26-MAY-20	WA	DR	DR	1	ISSUED FOR INFORMATION	25-MAR-20	DL	DR	MG	<table><tr><td colspan="2">GENERAL TOLERANCE</td></tr><tr><td>UNDER 200 mm</td><td>± 0.5 mm</td></tr><tr><td>0/00</td><td>± 1.0 mm</td></tr><tr><td>0/0</td><td>± 2 mm</td></tr><tr><td>OVER 200 mm</td><td>± 1%</td></tr><tr><td>ANGLES</td><td>10.5°</td></tr><tr><td colspan="2">SURFACE FINISH FABRICATION</td></tr><tr><td>FABRICATION</td><td>MACHINING</td></tr></table>		GENERAL TOLERANCE		UNDER 200 mm	± 0.5 mm	0/00	± 1.0 mm	0/0	± 2 mm	OVER 200 mm	± 1%	ANGLES	10.5°	SURFACE FINISH FABRICATION		FABRICATION	MACHINING	 Western House, Broad Lane Yate, Bristol, BS37 7LD, UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 549		SCALE NTS	PAPER A3	SHEET No 1/5	DRAWING No. WG-SD-PAT-A001-GA-PAT10	REV 3
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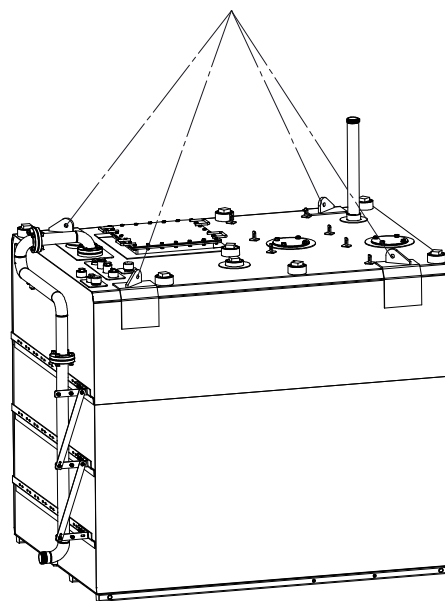
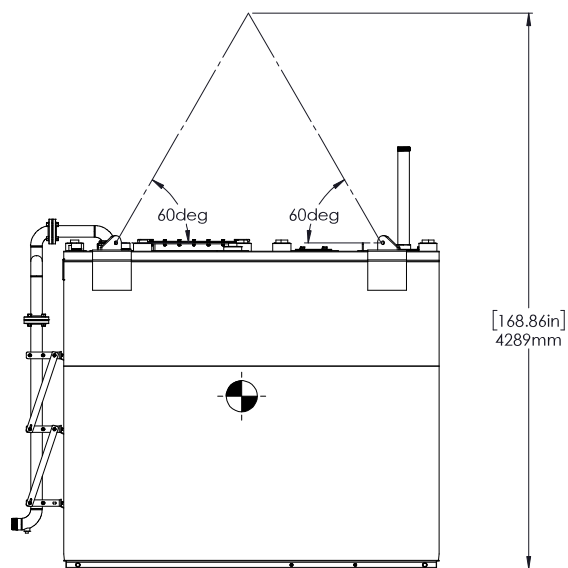
REV	REVISION DESCRIPTION	DATE	BY	CHK	APP	GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED: 0.00 ± 0.5 mm 0.05 ± 1.0 mm 0 ± 2 mm OVER 200 mm ± 0.75 mm ANGLES 10.5° SURFACE FINISH FABRICATION FABRICATION MACHINING										MODEL PAT 10	TANK RANGE PAT SERIES
												TITLE PAT 10 - GENERAL ARRANGEMENT				F	
3	FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED	24-JUN-20	WA	DR	MG	MATERIAL:	WEIGHT (KG)	Western House, Broad Lane Yate, Bristol BS37 7LJ UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 549				SCALE	PAPER	SHEET No	DRAWING No.	REV	
2	VIEWS UPDATED FOR PLATFORM MOUNT CHANGE	26-MAY-20	WA	DR	DR	SEE PARTS	439.145					NTS	A3	2/5	WG-SAD-PAT-A001-GA-PAT10	3	
1	ISSUED FOR INFORMATION	25-MAR-20	DL	DR	MG												
1		2		3		4		5		6		7		8			





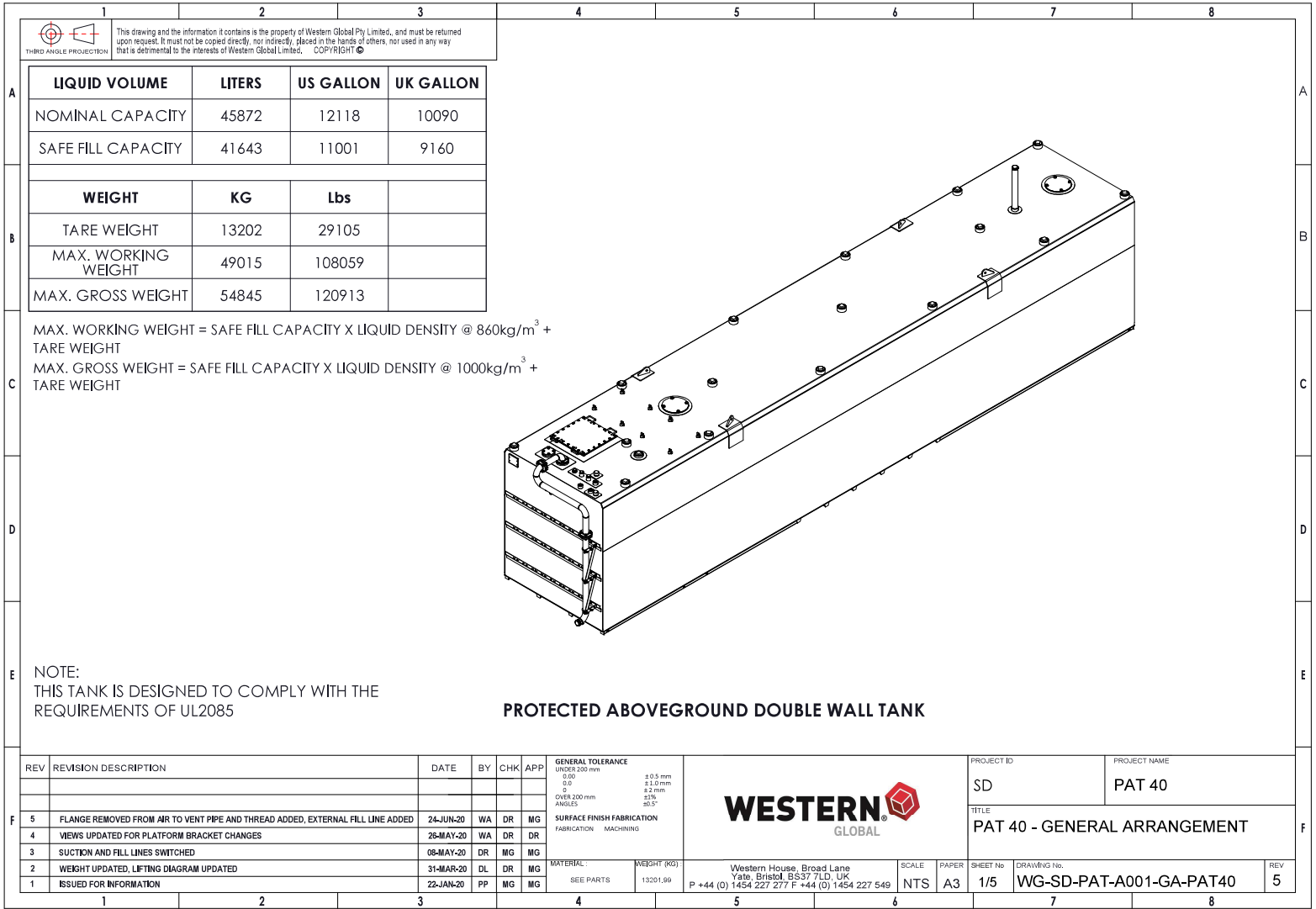


LIFTING DIAGRAM



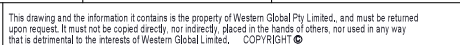
 TANK SHOULD ONLY BE LIFTED WHEN EMPTY

F	REV	REVISION DESCRIPTION	DATE	BY	CHK	APP	GENERAL TOLERANCE UNDER 200 mm ± 0.3 mm 0.0 ± 1.0 mm 0.0 5 OVER 200 mm ± 1.5 mm ANGLES ± 0.5° SURFACE FINISH FABRICATION FABRICATION MACHINING						MODEL PAT 10		TANK RANGE PAT SERIES		
							TITLE PAT 10 - GENERAL ARRANGEMENT		F								
	3	FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED	24-JUN-20	WA	DR	MG	MATERIAL:	WEIGHT (KG)		Western House, Broad Lane Farn, Bristol BS37 7JL, UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 745			SCALE	PAPER	SHEET No	DRAWING No.	REV
	2	VIEWS UPDATED FOR PLATFORM MOUNT CHANGE	26-MAY-20	WA	DR	DR	SEE PARTS	4391.45					NTS	A3	5/5	WG-SD-PAT-A001-GA-PAT10	3
	1	ISSUED FOR INFORMATION	25-MAR-20	DL	DR	MG											
	1	2	3	4	5	6	7	8									

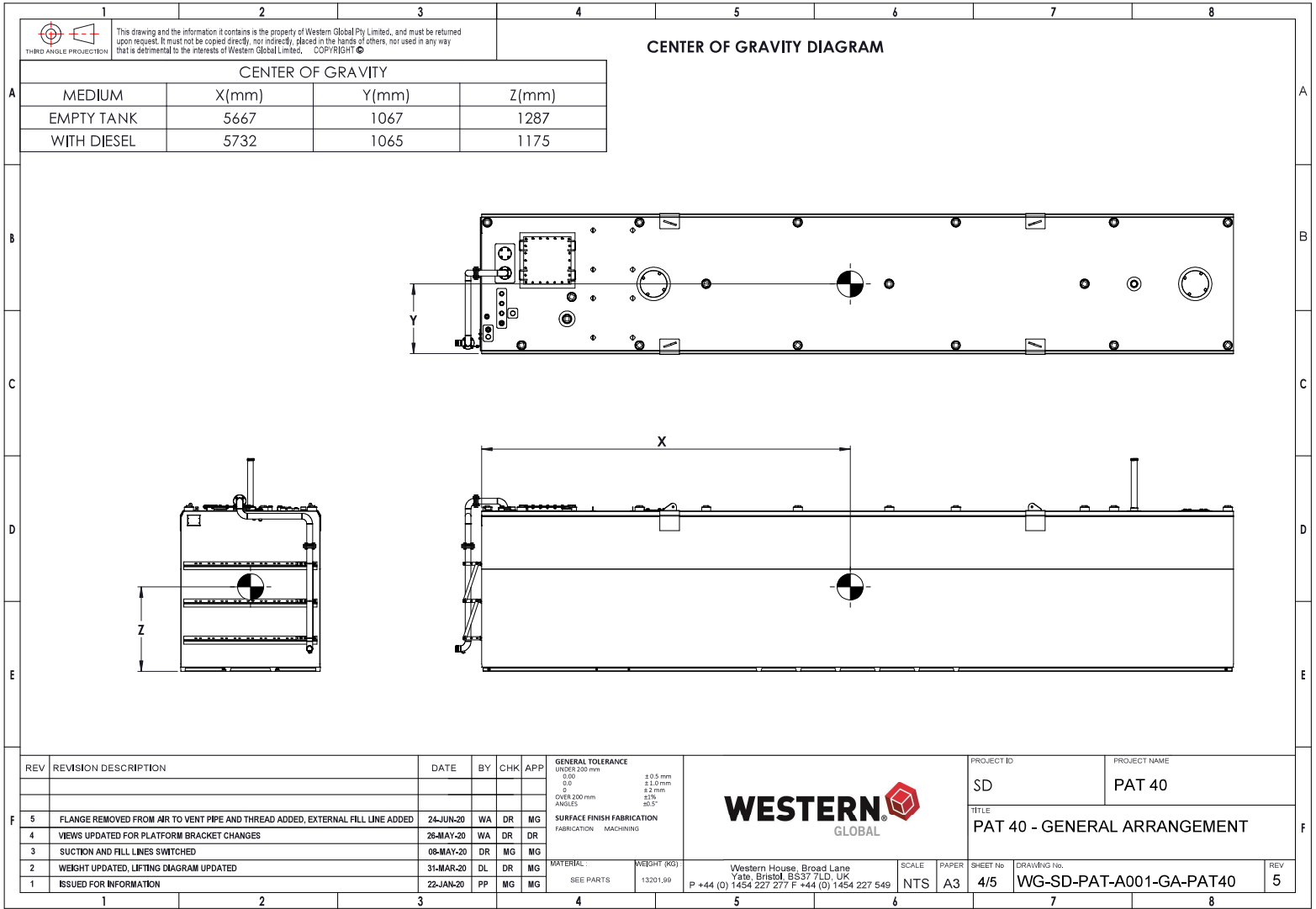


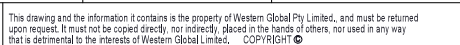


F	REV	REVISION DESCRIPTION	DATE	BY	CHK	APP	GENERAL TOLERANCE UNDER 200 mm 0.00 0.0 ±0.5 mm ±1.0 mm ±2.0 mm OVER 200 mm ±1% ANGLES 80.5° SURFACE FINISH FABRICATION FABRICATION MACHINING MATERIAL WEIGHT (KG) SEE PARTS 13201.99 Western House, Broad Lane Yate, Bristol, BS37 7LD, UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 549 WESTERN[®] GLOBAL SD				PROJECT ID		PROJECT NAME		
	SD	PAT 40													
	5	FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED	24-JUN-20	WA	DR	MG	TITLE PAT 40 - GENERAL ARRANGEMENT								
	4	VIEWS UPDATED FOR PLATFORM BRACKET CHANGES	26-MAY-20	WA	DR	DR									
	3	SUCTION AND FILL LINES SWITCHED	06-MAY-20	DR	MG	MG									
	2	WEIGHT UPDATED, LIFTING DIAGRAM UPDATED	31-MAR-20	DL	DR	MG									
1	ISSUED FOR INFORMATION	22-JAN-20	PP	MG	MG	SHEET No				DRAWING No.		REV			
1		2		3		4		5		6		7		8	
								P +44 (0) 1454 227 277 F +44 (0) 1454 227 549		NTS		A3		2/5	
												WG-SD-PAT-A001-GA-PAT40		5	

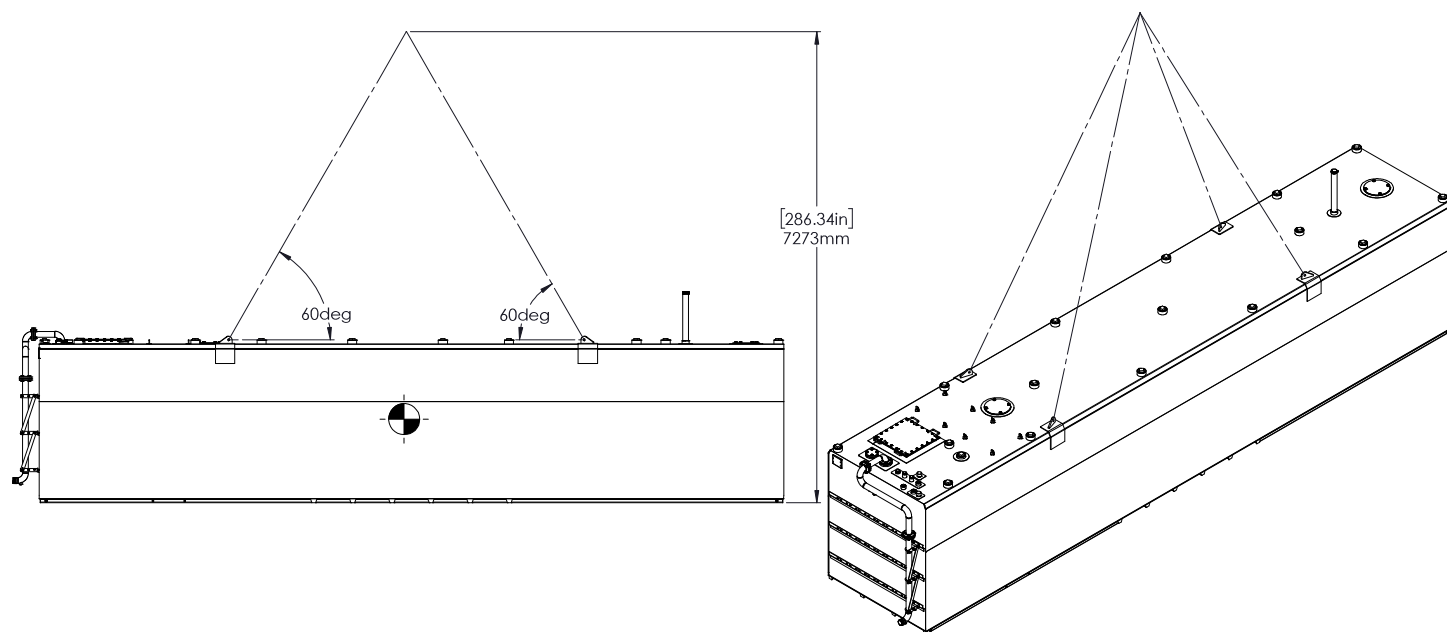
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REV	REVISION DESCRIPTION	DATE	BY	CHK	APP	GENERAL TOLERANCE UNDER 200 mm ± 0.5 mm 0.00 ± 1.0 mm 0.0 ± 2.0 mm OVER 200 mm ± 15% ANGLES ±0.5°				PROJECT ID SD		PROJECT NAME PAT 40			
F	5	FLANGE REMOVED FROM AIR TO VENT PIPE AND THREAD ADDED, EXTERNAL FILL LINE ADDED	24-JUN-20	WA	DR	MG	WESTERN GLOBAL				TITLE PAT 40 - GENERAL ARRANGEMENT				
	4	VIEWS UPDATED FOR PLATFORM BRACKET CHANGES	26-MAY-20	WA	DR	DR									
	3	SUCTION AND FILL LINES SWITCHED	05-MAY-20	DR	MG	MG	SURFACE FINISH FABRICATION FABRICATION MACHINING		MATERIAL		WEIGHT (KG)				
	2	WEIGHT UPDATED, LIFTING DIAGRAM UPDATED	31-MAR-20	DL	DR	MG	Western House, Broad Lane Yate, Bristol BS37 7LJ, UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 549		SCALE	PAPER	SHEET No.	DRAWING No.	REV		
	1	ISSUED FOR INFORMATION	22-JAN-20	PP	MG	MG	SEE PARTS 13201.99		NTS	A3	3/5	WG-SD-PAT-A001-GA-PAT40	5		
1		2		3		4		5		6		7		8	



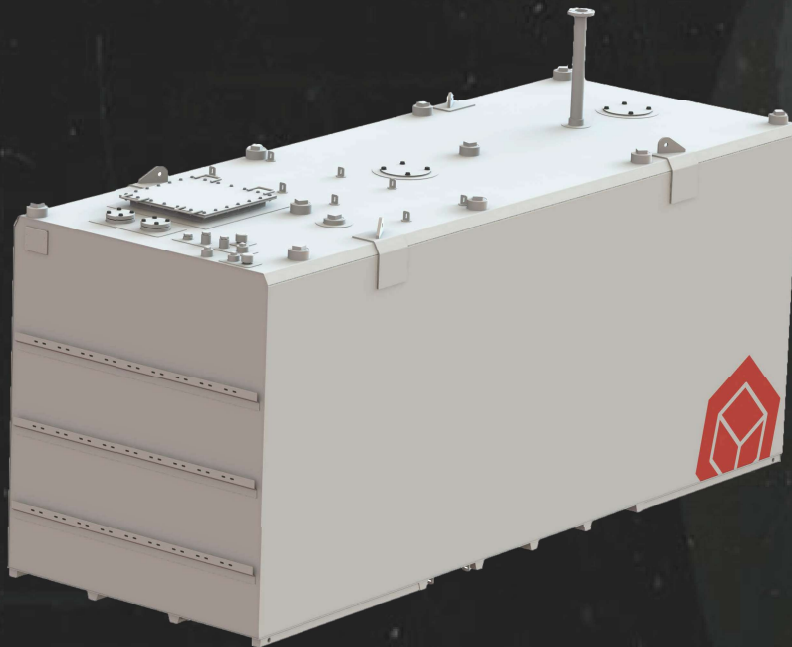


LIFTING DIAGRAM



⚠ TANK SHOULD ONLY BE LIFTED WHEN EMPTY

REV	REVISION DESCRIPTION	DATE	BY	CHK	APP	GENERAL TOLERANCE	PROJECT ID	PROJECT NAME	
						UNDER 200 mm 0.00 ±0.5 mm 0.0 ±1.0 mm 0 ±2 mm OVER 200 mm ±5% ANGLES 30.5°			
							WESTERN GLOBAL		
						SURFACE FINISH FABRICATION FABRICATION MACHINING			
								TITLE	
								PAT 40 - GENERAL ARRANGEMENT	
						MATERIAL:	WEIGHT (KG):		
						Western House, Broad Lane Farn, Bristol BS37 7JL, UK	SCALE	PAPER	
						SEE PARTS	13201.99	NTS	A3
						P +44 (0) 1454 227 277 F +44 (0) 1454 227 549			



PROTECTED ABOVEGROUND TANKS FOR FLAMMABLE AND
COMBUSTIBLE LIQUIDS

PAT04, 10, 20 and 40

WM013

WHY WESTERN?

WITH AN INNOVATIVE RANGE OF SOLUTIONS BACKED BY
A TEAM OF INDUSTRY EXPERTS, WESTERN GLOBAL
FOCUSES ON MAKING YOU MORE PRODUCTIVE, MORE
EFFICIENT AND ULTIMATELY MORE PROFITABLE.



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INTRODUCTION



Please read the contents of this manual before using the PAT Tank.

- Ensure all operators are fully conversant with the procedures for lifting, loading, positioning, filling and maintaining the unit.
- By understanding and following the information and procedures in this manual, your Western Global PAT tank will give you many years of safe use.
- Certain information in this manual is governed by law and is subject to change without prior notice.
- Great care has been taken to ensure that the information is correct at the time of publication. However, it is the owner's / user's sole responsibility to ensure that they and the PAT tank fully comply with all legal requirements. Western Global Ltd cannot and will not accept any liability for any inaccuracy or incorrectly stated legal requirements.
- Western Global reserves the right to alter product specifications without prior notice or obligation.

PAT Tanks are designed approved and Listed by Underwriters Laboratories and listed as "PROTECTED ABOVEGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS" in compliance to the following applicable standards of safety:

1. UL2085, Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids.
2. UL142, Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids.
3. CAN/ULC-S655-15, Standard for Aboveground Protected Tank Assemblies for Flammable and Combustible Liquids

DESCRIPTION

- The range has been designed to enable safe storage of Flammable and Combustible fluids.
- The PAT tank can be used as an auxiliary fuel tank and for refuelling independent equipment via a dedicated fuel pump.
- To aid handling, the PAT tank is fitted with 'empty only' crane sling lifting points
- Bund capacity is equal to 110% of the main tank's capacity.

SAFETY

General

- If there is anything you do not understand, contact your supplier for advice
- The unit must be operated by authorised personnel only
- This unit must not be moved, filled, maintained or operated by persons who are under the influence of alcohol or drugs, tired or unwell
- You **MUST** perform a risk assessment before using this equipment to ensure your safety and the safety of others
- Wear the correct Personal Protective Equipment for the task you are performing
- Do not wear loose jewellery or clothing that may get in the way or become trapped in the mechanism
- Inspect the unit before use, if there is any doubt about its condition, **DO NOT USE IT**
- Do not smoke – No naked flames near tank



No Smoking



No Open Flames



Authorised Access Only



Wear Safety Glasses



Wear Safety Helmet



Wear Ear Protection



Wear Safety Shoes



Wear Safety Gloves



Wear Coveralls

NOTE: Please check with the local authority for any further site requirements or regional legislation. A full risk assessment may be required

Limitations of use

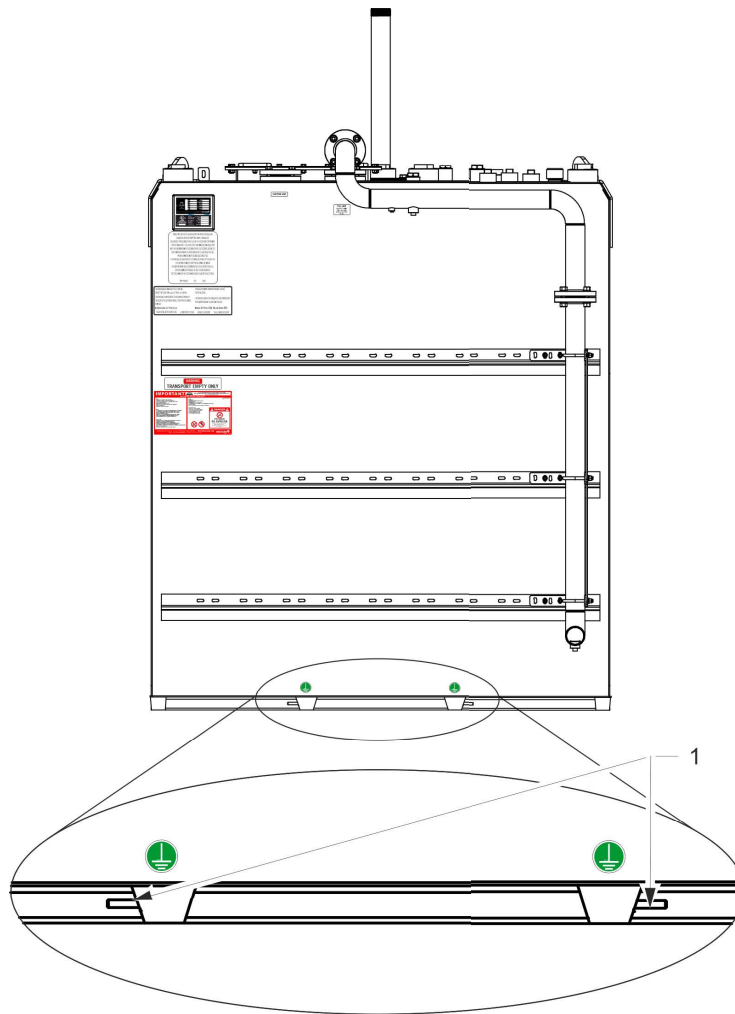
- The PAT Tank is designed for the safe storage of flammable and combustible fluids
- Each unit has a safe fill limit (See Unit Specification)
- The PAT tank can supply fuel to external equipment
- The PAT tank can be used to refuel independent equipment.

Safe practice

The storage and dispensing of Flammable and Combustible fluids are governed by law and it is the user/operator who has sole responsibility to ensure that any such rules and regulations are abided by.

Earthing point

- The PAT tanks are fitted with earthing points. These are found on the front of the tank on the bottom frame.
- Used to protect against static electricity build up, these should be connected to a suitable earthing point by a qualified electrician.

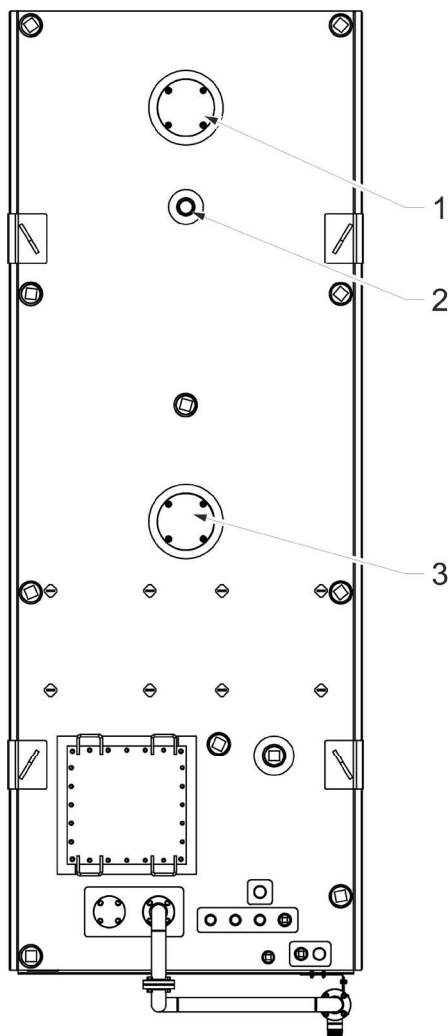


1 – Earth Points

Venting

Each unit has tank and bund vents¹; these are found in the roof access area.

NOTE: All vents must be installed prior to use.



¹ Install before use

ACCESS AND SECURITY

Access

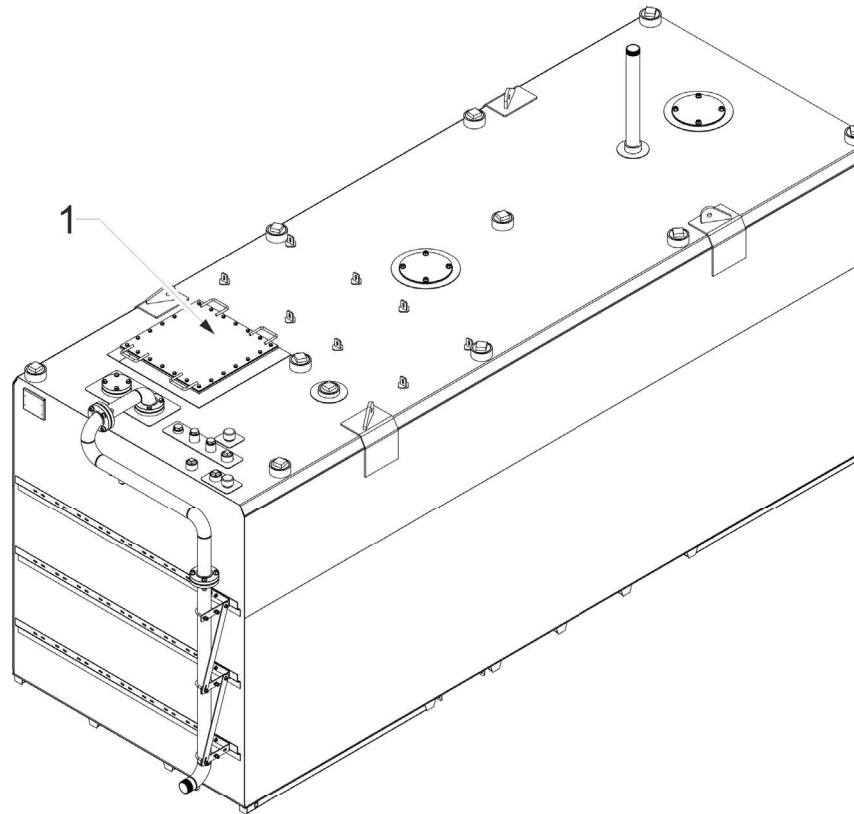
SAFETY.

Ingress to the inner tank must only be carried out by trained personal only and after a full risk assessment has been carried out.

Access to the inner tank

- For maintenance, inspection and cleaning access can be made through the installed access lid located on the top of the tank. See point 1 below, the access is common to all tank capacities.

NOTE: Access lid is heavy – 2 persons lift only!



1 – Access lid

UNIT SPECIFICATION

Capacities / Dimensions

Model	Capacity					
	Litres		US Gallon		Imp. Gallon	
	Nominal	Safe Fill ²	Nominal	Safe Fill	Nominal	Safe Fill
04	4627	3900	1222	1161	1018	967
10	10682	9698	2822	2562	2350	2133
20	22652	20559	5984	5431	4983	4522
40	45872	41643	12118	11001	10090	9160

See STRAPPING CHART (Dip) for Safe Fill data

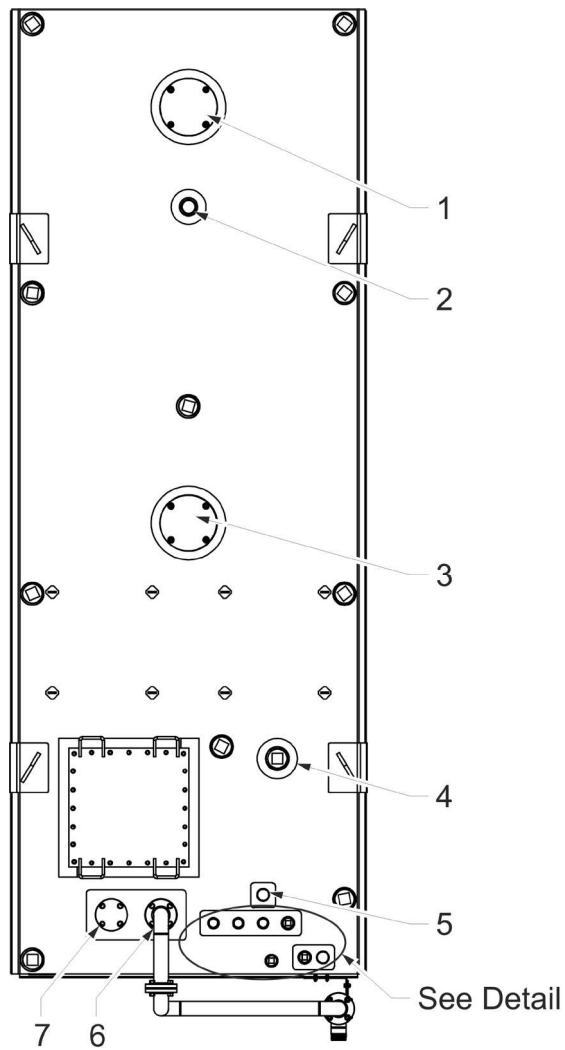
Model	Weight			
	KG		LBS	
	TARE	GROSS	TARE	GROSS
04	2675	6575	5897	14495
10	4318	15000	9520	33069
20	7365	30017	16237	66176
40	13116	58988	28916	130046

Model	Dimension					
	Metric (mm)			Imperial (Inch)		
	L	W	H	L	W	H
04	2356	2153	1606	93	85	63
10	2920	2153	2572	115	85	101
20	5848	2153	2572	230	85	101
40	11524	2153	2572	454	85	101

Maximum overall dimensions

² Safe Fill level set by Overfill Prevention Device

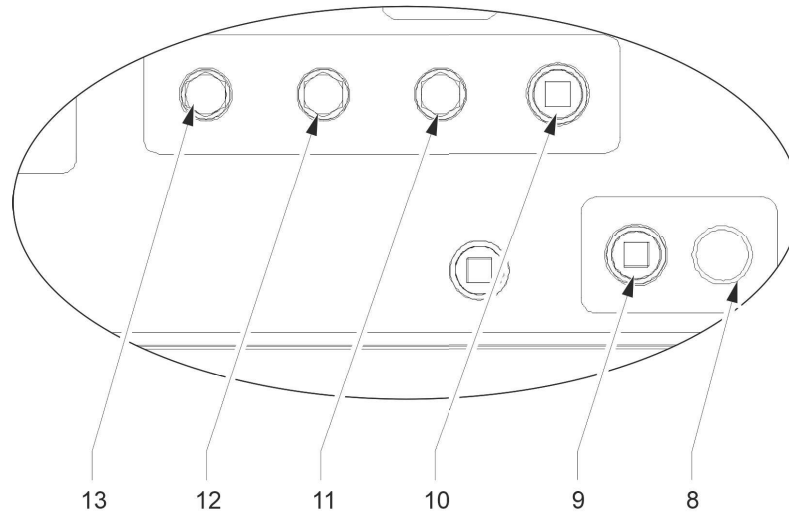
OVERVIEW (Standard Units)



NOTE: UNC bolt length to be determined at installation

1. INTERSTITIAL EMERGENCY VENT
- FLANGED TYPE
 - a) PAT04 & PAT10 - 6" ANSI 150# (8 x 3/4" - 10 UNC)
 - b) PAT20 - 8" ANSI 150# (8 x 3/4" - 10 UNC)
 - c) PAT40 - 10" ANSI 150# (8 x 7/8" - 9 UNC)
2. FLAME ARRESTOR STACK PIPE WITH 3" NPT (Tank Side) / ANSI 150 FLANGED (Vent Side)
 - a) 3" ANSI 150# (4 x 5/8" - 11 UNC)
3. PRIMARY TANK EMERGENCY VENT - FLANGED TYPE
 - a) PAT04 & PAT10 - 6" ANSI 150# (8 x 3/4" - 10 UNC)
 - b) PAT20 - 8" ANSI 150# (8 x 3/4" - 10 UNC)
 - c) PAT40 - 10" ANSI 150# (8 x 7/8" - 9 UNC)
4. SUBMERSIBLE PUMP PORT 4" NPT
5. PRIMARY TANK DIP STICK
6. FILL LINE - FLANGED TYPE
 - a) 3" ANSI 150# (4 x 5/8" - 11 UNC)
7. SUCTION LINE - FLANGED TYPE
 - a) 3" ANSI 150# (4 x 5/8" - 11 UNC)

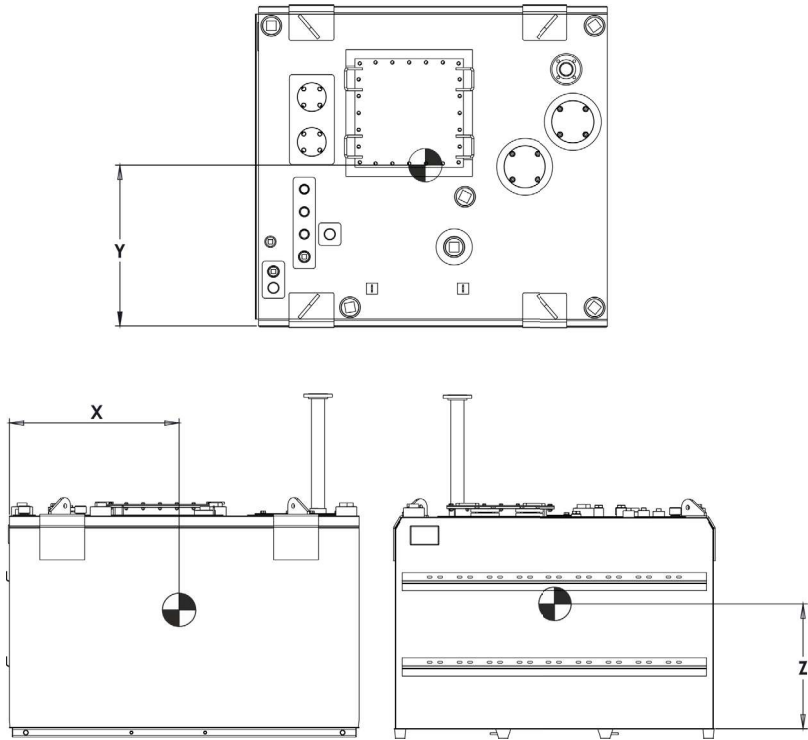
Detail (Standard Units)



1. INTERSTITIAL DIP STICK
2. INTERSTITIAL CLOCK GAUGE PORT 2" NPT
3. PRIMARY TANK CLOCK GAUGE PORT 2" NPT
4. DISCHARGE LINE 1.5" NPT
5. DISCHARGE LINE 1.5" NPT
6. ADDITIONAL PORT 1.5" NPT

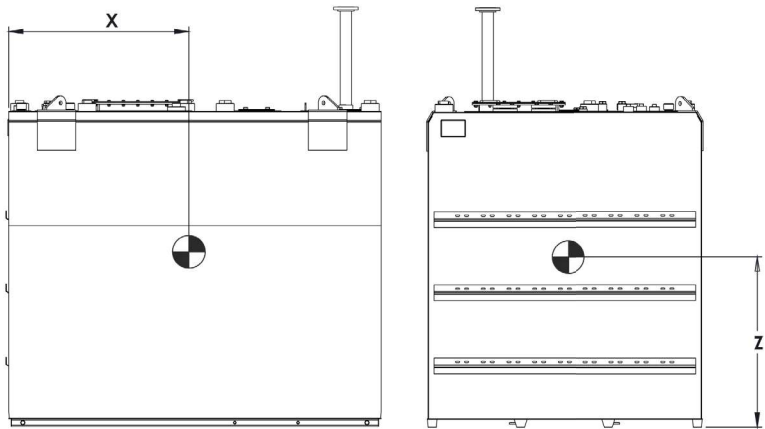
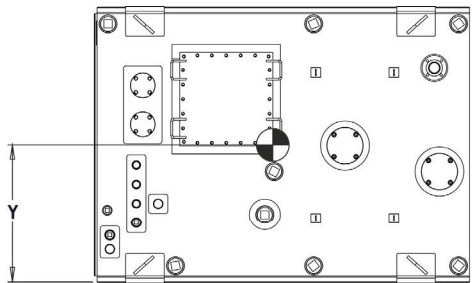
CENTRE OF GRAVITY

PAT04



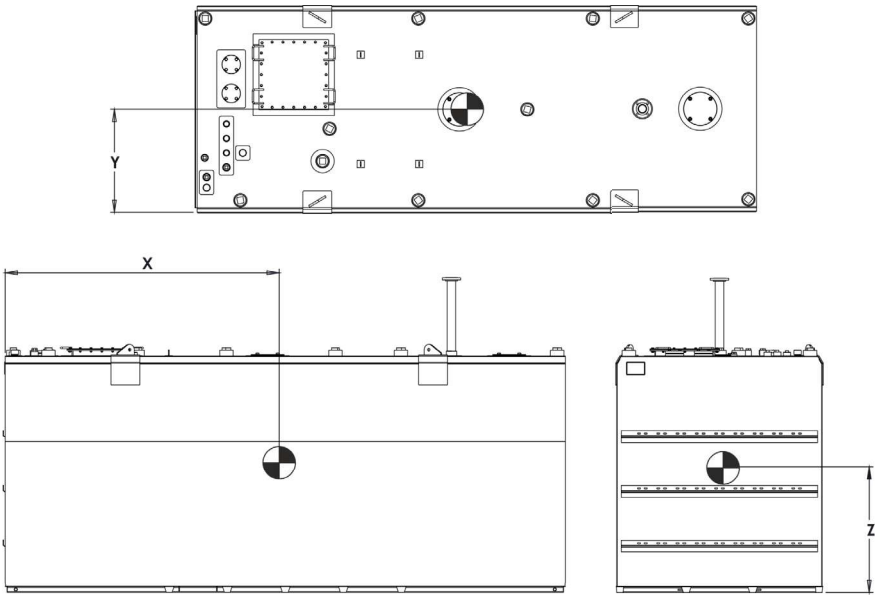
CENTER OF GRAVITY			
MEDIUM	X(mm)	Y(mm)	Z(mm)
EMPTY TANK	1132	1079	839
WITH DIESEL	1379	1070	664

PAT10



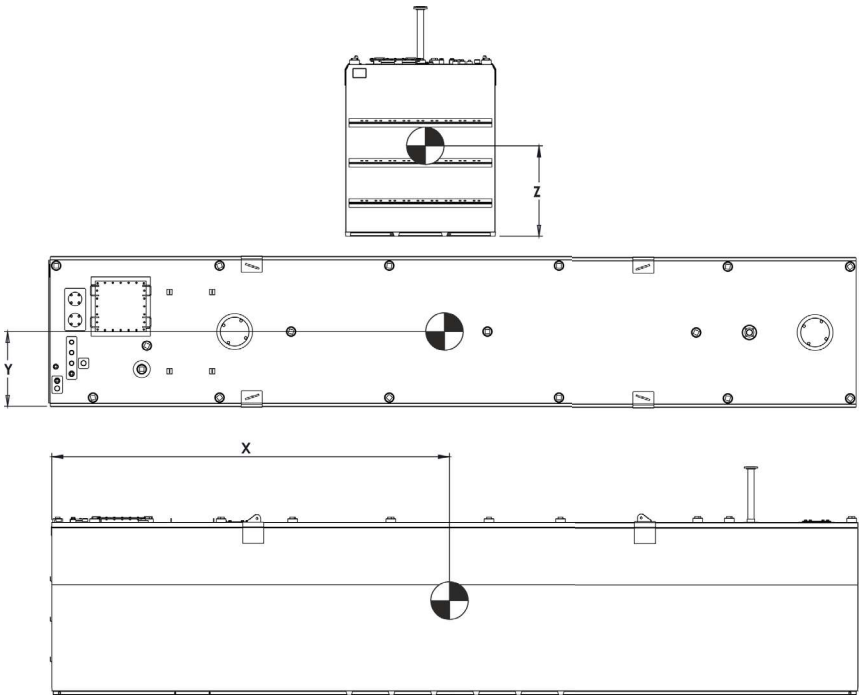
CENTER OF GRAVITY			
MEDIUM	X(mm)	Y(mm)	Z(mm)
EMPTY TANK	1400	1072	1326
WITH DIESEL	1432	1067	1198

PAT20



CENTER OF GRAVITY			
MEDIUM	X(mm)	Y(mm)	Z(mm)
EMPTY TANK	2845	1068	1298
WITH DIESEL	2896	1066	1182

PAT40



CENTER OF GRAVITY			
MEDIUM	X(mm)	Y(mm)	Z(mm)
EMPTY TANK	5667	1067	1287
WITH DIESEL	5732	1065	1175

TRANSPORTING

- Transport Empty ONLY
- In transport ALL ports, valves and vents must be closed.
- Ensure pump is turned off.
- The PAT tank must be secured firmly to its means of transport.

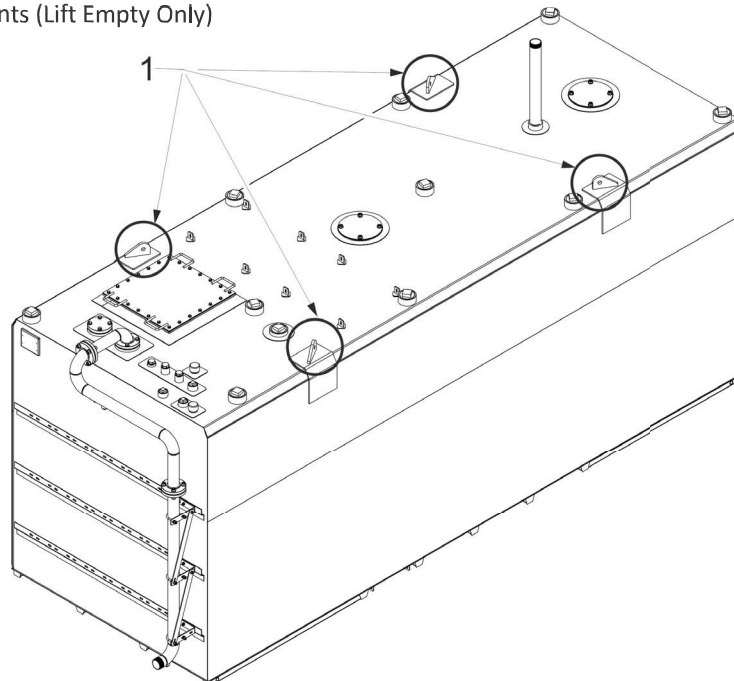
LIFTING (LIFT EMPTY ONLY)

IMPORTANT: Always prepare a Lifting Plan/Risk Assessment.

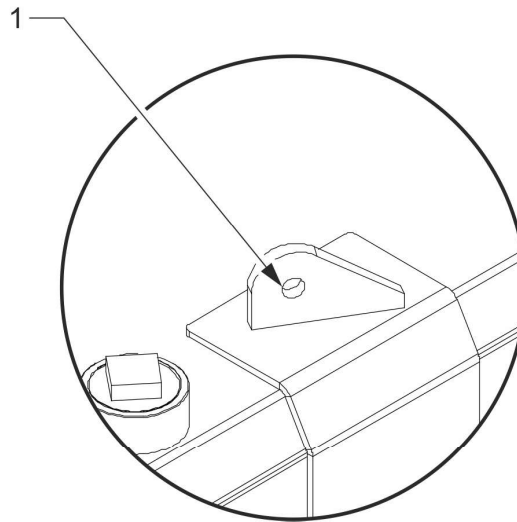
By Lifting Points

- The PAT tanks must ONLY be lifted via the dedicated crane lifting points found in each corner.
- ALL lifting points must be used during a lift.
- The lifting points MUST be inspected for condition and safe use. The inspection must be carried out by a competent person.
- DO NOT lift from the base with slings.
- NOTE: LIFT EMPTY ONLY

- Lifting points (Lift Empty Only)



PAT20 is shown for illustration



1 - Lifting point detail

Crane and Chain Slings; Lifting Equipment

- You will require a lifting device (crane) and suitable four leg chain sling fitted with hooks with safety catches/gates. Ensure the equipment used has the appropriate rating.
- Always check and obtain official confirmation from the chain sling supplier that it is both suitable in SWL and chain length.
- With the chain slings correctly attached to the lifting equipment, attach each hook to the lifting points. Once attached, ensure the safety catches/gates fitted to all hooks are closed.
- Attach tag lines to the base of the unit to control rotation.
- Lifting - Lift the chains until taut and check that the hooks are correctly positioned with gate closed and that the chains are not twisted. If a fault is found, lower and reattach correctly.
- Lift the unit until just off the ground and check that it is balanced and stable. Once you are satisfied that everything is correctly and safely set up, you can continue with the lift.

WARNING

Do not allow anyone under the raised load at any time or for any reason.

- Use suitable tag lines to help control the movement of the unit and always keep constant communication with the crane operator.
- Move slowly and smoothly to ensure full control of the unit's whereabouts.
- Lower the unit to its required resting place using great care.

Note: that most four leg chain slings' SWL are rated at 90 degrees and the SWL usually decreases, depending upon the angle the chain is used at

POSITIONING

Where the PAT tank is to be permanently positioned (long or short term) it is important to consider.

- The position should be selected where the tank will be protected from accidental impact. You should also make sure that both supplying vehicles and receiving vehicles have safe and easy access to the PAT tank.
- Consideration should be given to the location of overhead services such as telecommunications and power cables and overhanging obstructions. Be aware of the location of underground services, such as drains, and manhole covers.
- You must also consider the ground surface and make sure it can support the weight of the PAT tank, its contents when full and any stored equipment such as pumps, without the risk of subsidence. It should be positioned on smooth and level ground with access available to the rear and sides.
- Allow for access that may be required by the emergency services should it become necessary.

INSTALLATION INSTRUCTIONS:

Installation instructions shall be provided with each tank to describe the proper installation procedure. They shall include the following:

USL:

- A. "Consult local authorities before installing this tank" or an equivalent statement.
- B. "This tank shall be investigated to determine acceptability for use after fire exposure damage, other physical damage, or misuse," or an equivalent statement.
- C. "This tank is intended for installation in accordance with NFPA 30, NFPA 30A, and the Uniform Fire Code," or an equivalent statement.
- D. Instructions for lifting, handling, periodically inspecting, testing, and servicing the tank.
- E. Instructions stating that guard posts or other barriers shall be installed in accordance with local codes to provide protection from vehicle impact.
- F. Instructions for installing flame arresters in normal vents.
- G. Instructions for monitoring the interstitial space for leakage.
- H. Grounding instructions.
- I. Instructions for the proper installation of emergency vent devices that are provided with a tank but not assembled to the tank during shipment.

CNL:

- A. The protected tank assembly installer shall consult with the applicable Authority Having Jurisdiction to ensure that the requirements of CAN/ULC-S655-15 Standard and all applicable Federal, Provincial, and Local Codes are met prior to installation.
- B. The protected tank assembly shall be installed on a bed or base designed to support the assembly plus 100% liquid loading.
- C. The secondary containment shall be checked on a weekly basis to confirm that neither precipitation nor product is accumulating therein. The disposal of any liquid found in the containment shall be in accordance with the requirements of the applicable Authority Having Jurisdiction.
- D. The normal vent shall be equipped with a weatherproof hood.
- E. Coatings shall be inspected annually. Any necessary coating repairs required shall be done in accordance with the coating manufacturer's instructions; and
- F. The protected tank assembly shall not continue in service after fire exposure, other physical damage or misuse, unless it is investigated to confirm its acceptability for continued use by the tank manufacturer and the applicable Authority Having Jurisdiction.

INSTALLATION OF ANCILLARY EQUIP.

- Always follow manufacture's guidelines
- All electrical installation must be carried out by suitable qualified personnel and rated accordingly

FILLING THE PAT tank

- DO NOT FILL TANK WHEN DISPENSING IS IN OPERATION
- Only fill the PAT tank to its safe fill capacity.
- Filling should only be performed by a suitably trained person and only following a full risk assessment.
- The PAT tank must be positioned on a firm level surface, whether static, truck or trailer mounted.
- Where truck or trailer mounted, ensure that the parking brake is set to ON and the wheels are chocked.
- Before filling, ensure that you have a suitable spillage kit and that you are wearing all required PPE.
- Hard Couple fill only.
- Observe the fuel level gauge for an indication of tank capacity then once filled, replace the filler cap and clean up any fuel spillages.

CONTAINMENT

The PAT tank bund/containment area safeguards against any spillage exiting the unit and polluting the immediate area. The bund is designed to retain up to 110% of the unit's maximum storage capability.

- Check regularly for liquid in the bund/containment.
- Remove any water.
- Take immediate remedial action if product or water is found.

IMPORTANT Waste may only be collected by a registered carrier.

SPILLAGES

Should a spillage occur when emptying the bund, or when filling or transferring fuel, clear the spillage as quickly as possible using absorbent material. Ideally, you should use a dedicated spillage kit which will contain all the necessary items to retain and remove such a spillage.

- DO NOT hose the area down or use any detergents.
- DO NOT allow the fuel to enter drains or water courses.
- Spillages must be reported to your local Authority

WM013 PAT v2 EN Jun 2020

- All material used to retain and remove a spillage should be bagged and collected by a registered carrier.

STRAPPING CHART (Dip)

PAT04

From bottom of tank (mm)	From bottom of tank (In)	Fuel Level (Litre)	Fuel Level (US Gallon)	Fuel Level (Imperial Gallon)
50	2.0	192	50.7	42.2
100	3.9	384	101.4	84.5
150	5.9	577	152.4	126.9
200	7.9	769	203.1	169.2
250	9.8	961	253.9	211.4
300	11.8	1153	304.6	253.6
350	13.8	1345	355.3	295.9
400	15.7	1537	406.0	338.1
450	17.7	1730	457.0	380.5
500	19.7	1922	507.7	422.8
550	21.7	2114	558.5	465.0
600	23.6	2306	609.2	507.2
650	25.6	2498	659.9	549.5
700	27.6	2690	710.6	591.7
750	29.5	2883	761.6	634.2
800	31.5	3075	812.3	676.4
850	33.5	3267	863.0	718.6
900	35.4	3459	913.8	760.9
950	37.4	3651	964.5	803.1
1000	39.4	3843	1015.2	845.3
1016	40.0	3905	1031.6	859.0
1050	41.3	4036	1066.2	887.8
1100	43.3	4228	1116.9	930.0
1150	45.3	4420	1167.6	972.3
1200	47.2	4612	1218.4	1014.5
1217.5	47.9	4679	1236.1	1029.2

NOTE:

1. The strapping charts reading marked in grey shaded row is the maximum safe fill level. DO NOT FILL ABOVE THIS LEVEL
2. The dip chart volume is taken from the lowest point in the tank.
3. When programming a level monitoring system, the difference in floor height at the port location (where the instrument is mounted) should be subtracted from the fill height for each volume increment line to equate to corresponding fill height at the instrument location.

PAT10

From bottom of tank (mm)	From bottom of tank (In)	Fuel Level (Litre)	Fuel Level (US Gallon)	Fuel Level (Imperial Gallon)
50	2.0	245	64.7	53.9
100	3.9	490	129.4	107.8
150	5.9	735	194.2	161.7
200	7.9	980	258.9	215.6
250	9.8	1225	323.6	269.5
300	11.8	1470	388.3	323.4
350	13.8	1714	452.8	377.0
400	15.7	1959	517.5	430.9
450	17.7	2204	582.2	484.8
500	19.7	2449	647.0	538.7
550	21.7	2694	711.7	592.6
600	23.6	2939	776.4	646.5
650	25.6	3184	841.1	700.4
700	27.6	3429	905.8	754.3
750	29.5	3674	970.6	808.2
800	31.5	3918	1035.0	861.8
850	33.5	4163	1099.7	915.7
900	35.4	4408	1164.5	969.6
950	37.4	4653	1229.2	1023.5
1000	39.4	4898	1293.9	1077.4
1050	41.3	5143	1358.6	1131.3
1100	43.3	5388	1423.4	1185.2
1150	45.3	5633	1488.1	1239.1
1200	47.2	5878	1552.8	1293.0
1250	49.2	6123	1617.5	1346.9
1300	51.2	6367	1682.0	1400.5
1350	53.1	6612	1746.7	1454.4
1400	55.1	6857	1811.4	1508.3
1450	57.1	7102	1876.1	1562.2
1500	59.1	7347	1940.9	1616.1
1550	61.0	7592	2005.6	1670.0
1600	63.0	7837	2070.3	1723.9
1650	65.0	8082	2135.0	1777.8
1700	66.9	8327	2199.8	1831.7
1750	68.9	8572	2264.5	1885.6
1800	70.9	8816	2328.9	1939.2
1850	72.8	9061	2393.7	1993.1
1900	74.8	9306	2458.4	2047.0
1950	76.8	9551	2523.1	2100.9
1982	78.0	9708	2564.6	2135.5
2000	78.7	9796	2587.8	2154.8
2050	80.7	10041	2652.6	2208.7
2100	82.7	10286	2717.3	2262.6
2150	84.6	10530	2781.7	2316.3
2183.5	86.0	10693	2824.8	2352.1

PAT20

From bottom of tank (mm)	From bottom of tank (In)	Fuel Level (Litre)	Fuel Level (US Gallon)	Fuel Level (Imperial Gallon)
0	0.0	0	0.0	0.0
50	2.0	519	137.1	114.2
100	3.9	1037	273.9	228.1
150	5.9	1556	411.1	342.3
200	7.9	2075	548.2	456.4
250	9.8	2593	685.0	570.4
300	11.8	3112	822.1	684.5
350	13.8	3631	959.2	798.7
400	15.7	4149	1096.0	912.7
450	17.7	4668	1233.2	1026.8
500	19.7	5187	1370.3	1141.0
550	21.7	5705	1507.1	1254.9
600	23.6	6224	1644.2	1369.1
650	25.6	6743	1781.3	1483.3
700	27.6	7261	1918.2	1597.2
750	29.5	7780	2055.3	1711.4
800	31.5	8299	2192.4	1825.5
850	33.5	8817	2329.2	1939.5
900	35.4	9336	2466.3	2053.6
950	37.4	9855	2603.4	2167.8
1000	39.4	10373	2740.3	2281.7
1050	41.3	10892	2877.4	2395.9
1100	43.3	11411	3014.5	2510.1
1150	45.3	11929	3151.3	2624.0
1200	47.2	12448	3288.4	2738.2
1250	49.2	12967	3425.5	2852.3
1300	51.2	13485	3562.4	2966.3
1350	53.1	14004	3699.5	3080.4
1400	55.1	14523	3836.6	3194.6
1450	57.1	15041	3973.4	3308.6
1500	59.1	15560	4110.5	3422.7
1550	61.0	16079	4247.6	3536.9
1600	63.0	16597	4384.5	3650.8
1650	65.0	17116	4521.6	3765.0
1700	66.9	17635	4658.7	3879.2
1750	68.9	18153	4795.5	3993.1
1800	70.9	18672	4932.6	4107.3
1850	72.8	19191	5069.7	4221.4
1900	74.8	19709	5206.6	4335.4
1950	76.8	20228	5343.7	4449.5
1982	78.0	20560	5431.4	4522.6
2000	78.7	20747	5480.8	4563.7
2050	80.7	21265	5617.6	4677.6
2100	82.7	21784	5754.7	4791.8
2150	84.6	22301	5891.3	4905.5
2183.5	86.0	22647	5982.7	4981.6

PAT40

From bottom of tank (mm)	From bottom of tank (In)	Fuel Level (Litre)	Fuel Level (US Gallon)	Fuel Level (Imperial Gallon)
50	2.0	1051	277.6	231.2
100	3.9	2101	555.0	462.2
150	5.9	3152	832.7	693.3
200	7.9	4203	1110.3	924.5
250	9.8	5253	1387.7	1155.5
300	11.8	6304	1665.3	1386.7
350	13.8	7354	1942.7	1617.7
400	15.7	8405	2220.4	1848.8
450	17.7	9456	2498.0	2080.0
500	19.7	10506	2775.4	2311.0
550	21.7	11557	3053.0	2542.2
600	23.6	12608	3330.7	2773.4
650	25.6	13658	3608.1	3004.3
700	27.6	14709	3885.7	3235.5
750	29.5	15760	4163.4	3466.7
800	31.5	16810	4440.7	3697.7
850	33.5	17861	4718.4	3928.9
900	35.4	18912	4996.0	4160.1
950	37.4	19962	5273.4	4391.0
1000	39.4	21013	5551.0	4622.2
1050	41.3	22064	5828.7	4853.4
1100	43.3	23115	6106.3	5084.6
1150	45.3	24165	6383.7	5315.6
1200	47.2	25216	6661.4	5546.7
1250	49.2	26267	6939.0	5777.9
1300	51.2	27317	7216.4	6008.9
1350	53.1	28368	7494.0	6240.1
1400	55.1	29419	7771.7	6471.3
1450	57.1	30469	8049.1	6702.2
1500	59.1	31520	8326.7	6933.4
1550	61.0	32571	8604.3	7164.6
1600	63.0	33621	8881.7	7395.6
1650	65.0	34672	9159.4	7626.8
1700	66.9	35723	9437.0	7858.0
1750	68.9	36773	9714.4	8088.9
1800	70.9	37824	9992.0	8320.1
1850	72.8	38875	10269.7	8551.3
1900	74.8	39925	10547.1	8782.3
1950	76.8	40976	10824.7	9013.4
1982	78.0	41648	11002.2	9161.3
2000	78.7	42027	11102.4	9244.6
2050	80.7	43077	11379.7	9475.6
2100	82.7	44128	11657.4	9706.8
2150	84.6	45175	11934.0	9937.1
2183.5	86.0	45875	12118.9	10091.1

INSPECTION AND MAINTENANCE

It is a requirement of the warranty that the owner of the PAT tank should carry out regular inspections and ensure a record of each inspection is kept.

V = Visual inspection P = Physical Check L = Lubricate R = Replace C = Calibrate / Certify					
Item	Weekly	Monthly	6 Monthly	Yearly	Reference / Comments
Housekeeping	V		P		Check site and tank. Remove rubbish etc.
Firefighting media (if fitted)	V		P		V = Check in place and unused, P = Test pressure and function
Lighting	V				V = Check function
Signage		V			Check damage and wear
Ball valves	P				P = Check operation
Vents, fittings and pipelines	V		P		V = Visual checks for leaks and damage, P = physical check, bolt tightness, paint deterioration
Interstitial space (Bund)	P				Check for water or product
Tank and pipework earthing			V	P	V = Visual check OK, P = Test continuity
Level gauges	V			P	V = Visual checks for leaks and damage, P = Remove and check operation

Where fault is found, the unit MUST be removed from service until the fault is rectified and the unit is retested successfully.

NOTE: Repairs should only be carried out by a certified agent.

ENVIRONMENTAL RESPONSIBILITY

Correct and considerate management of **Flammable & Combustible fluids**, its storage and transfer are the responsibility of everyone who operates or maintains this equipment. All necessary precautions should be taken to prevent spillages and subsequent pollution of the environment.

Have in place a clear action plan to deal with accidental spillages, no matter how small or large. Ensure that you have a **Flammable & Combustible fluids** spillage containment kit available and that you understand its correct use.

If a large spillage occurs, contact your local agency for immediate advice.

DISPENSING FUEL

There are two options available for dispensing/supplying fuel. Either manually via a fuel pump and nozzle or by direct coupling to the equipment, such as a generator.

By Fuel Pump

Please refer to the documentation/instructions supplied with this unit for the correct information covering the pump system you have fitted to this PAT tank

Direct Coupling

Direct coupling enables continuous fuel feed to equipment such as generators where power is required continuously. Western Global can supply ¼", ½" and ¾" feed and return hoses, complete with quick release couplings.

Please contact Western Global for further information.

DISPOSAL

When maintaining, servicing or disposing of the PAT tank or consumable components, do not dispose of contaminated parts within general refuse.

Refer to local authority regulations for their correct disposal.

WARRANTY

The Company undertakes to replace or repair, free of charge, any defect which the Company considers to be due to faulty workmanship or material within 12 months (or otherwise stated) for steel tanks from the sale date, except for:

- Defects arising from neglect, misuse or unauthorised modifications.
- Damage caused by abuse, misuse, dropping or other similar damage caused by or because of a failure to follow transportation, storage, loading or operation instructions.
- Alterations, additions or repairs carried out by persons other than the manufacturer or their recognised distributors.
- Transportation or shipment costs to and from the Manufacturer or their recognised agents, for repair or assessment against a warranty claim, on any product or component.
- Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.
- Faults arising from the use of non-standard or additional parts, or any consequential Damage or wear caused by the fitting or use of such parts.

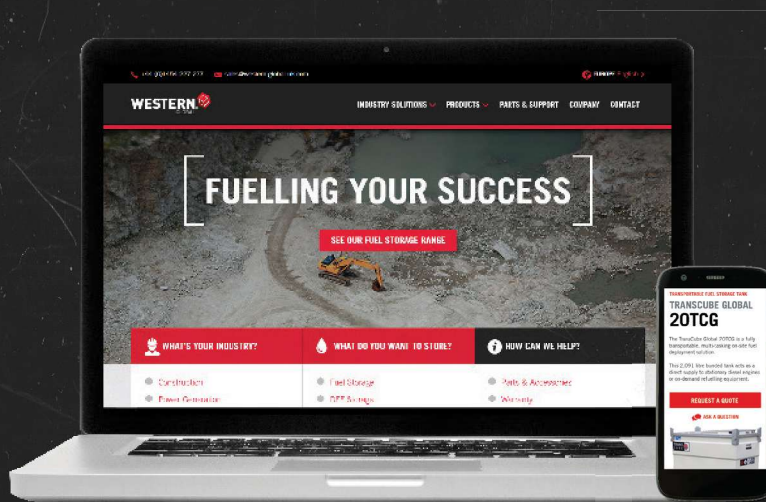
IMPORTANT

Warranty may, at the sole discretion of the manufacturer, be voided if the scheduled service/inspections are not carried out in accordance with the logbook. The manufacturer and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with, or by reason of, or due to the inability to use the product for any purpose.

NOTES



NEED MORE INFORMATION?



- Product Details and Specifications
- Accessories and Support Information
- Company News & Updates

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Certificate of Compliance

Certificate Number:

UL-US-2587285-0

Report Reference:

MH64103-20251002

Issue Date:

2025-10-06

Issued to:

**Western Global Holdings Limited
Western House
Broad Lane
Yate Bristol BS37 7LB
United Kingdom**

This certificate confirms that representative samples of:

EELU - Protected Aboveground Tanks for Flammable and Combustible Liquids

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 2085, 2nd Ed., Issue Date: 1997-12-30, Revision Date: 2010-09-29

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



A handwritten signature in black ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2587285-0
Report reference MH64103-20251002
Date 2025-10-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Fixed and Stationary Storage Tanks

Model(s): Tanks



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

Certificate of Compliance

Certificate Number:

UL-CA-2563780-0

Report Reference:

MH64103-20251002

Issue Date:

2025-10-06

Issued to:

**Western Global Holdings Limited
Western House
Broad Lane
Yate Bristol BS37 7LB
United Kingdom**

This certificate confirms that representative samples of:

EELU7 - Protected Aboveground Tanks for Flammable and Combustible Liquids Certified for Canada

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

**CAN/ULC 655:2015 (R2024), Edition 2, Issue Date 2015-09-01,
Revision Date 2024-04-02**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

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A handwritten signature in black ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2563780-0
Report reference MH64103-20251002
Date 2025-10-06

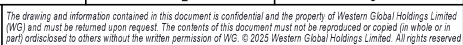
This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Fixed and Stationary Storage Tanks

Model(s): Tanks



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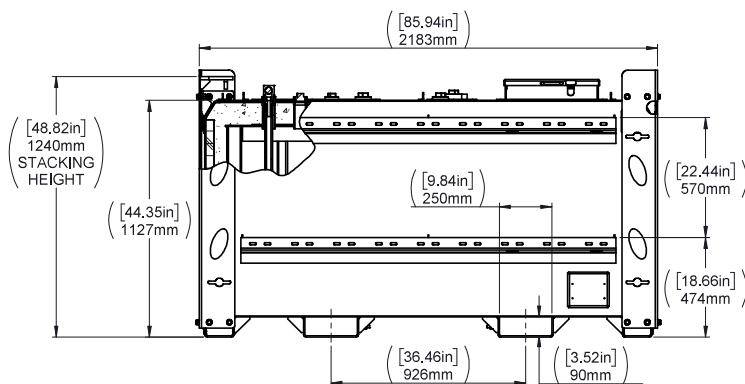
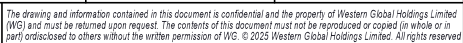


This diagram shows the battery pack assembly in an exploded view. It includes the battery pack itself, which is a rectangular unit with a handle on top. Surrounding the pack are various mounting brackets and hardware, including corner brackets, side rails, and numerous screws and bolts. The diagram illustrates how these components fit together to form the complete battery pack assembly.

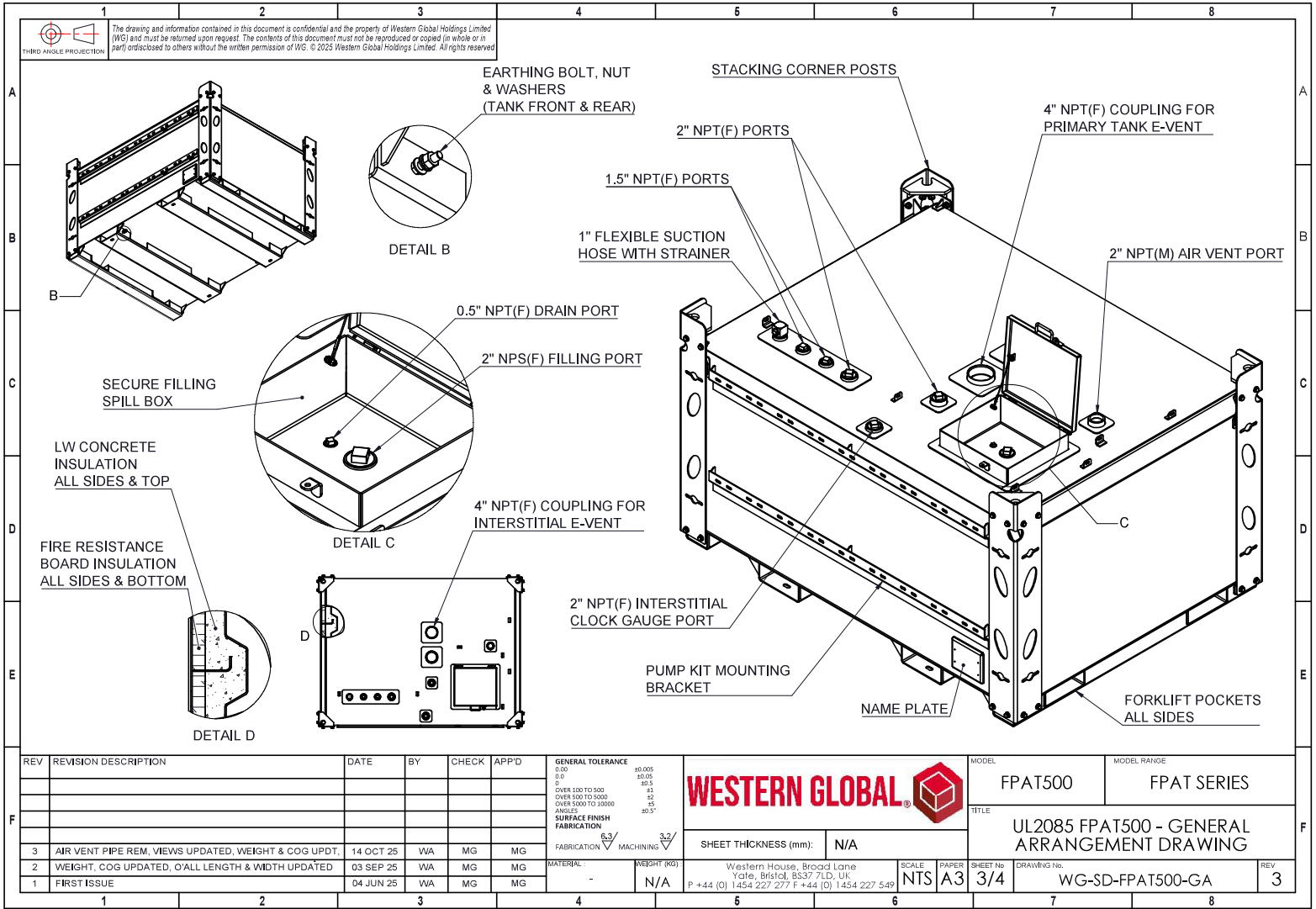
MGW CALCULATED AS FOLLOWS:
TARE WEIGHT + (SAFE FILL CAPACITY X DENSITY OF LIQUID)

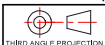
THIS TANK IS DESIGNED TO COMPLY WITH THE
REQUIREMENTS OF UL2085

REV	REVISION DESCRIPTION	DATE	BY	CHECK	APP'D	GENERAL TOLERANCE		WESTERN GLOBAL®			MODEL	MODEL RANGE			
							0.00 0.0 0 OVER 100 TO 500 OVER 500 TO 5000 OVER 5000 TO 10000 ANGLES SURFACE FINISH FABRICATION				±0.005 ±0.005 ±0.5 ±3 ±2 ±5 ±0.5°				
							FABRICATION $\frac{6.3}{\sqrt{}}$ MACHINING $\frac{3.2}{\sqrt{}}$	SHEET THICKNESS (mm):		N/A	TITLE	UL2085 FPAT500 - GENERAL ARRANGEMENT DRAWING			
3	AIR VENT PIPE REM, VIEWS UPDATED, WEIGHT & COG UPDT,	14 OCT 25	WA	MG	MG	MATERIAL:	WEIGHT (KG)	Western House, Broad Lane Yate, Bristol, BS37 7LD, UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 549			SCALE	PAPER	SHEET No	DRAWING No.	REV
2	WEIGHT, COG UPDATED, O'ALL LENGTH & WIDTH UPDATED	03 SEP 25	WA	MG	MG	-	N/A	NTS			A3	1/4	WG-SD-FPAT500-GA		3
1	FIRST ISSUE	04 JUN 25	WA	MG	MG										
1		2		3		4		5		6		7		8	



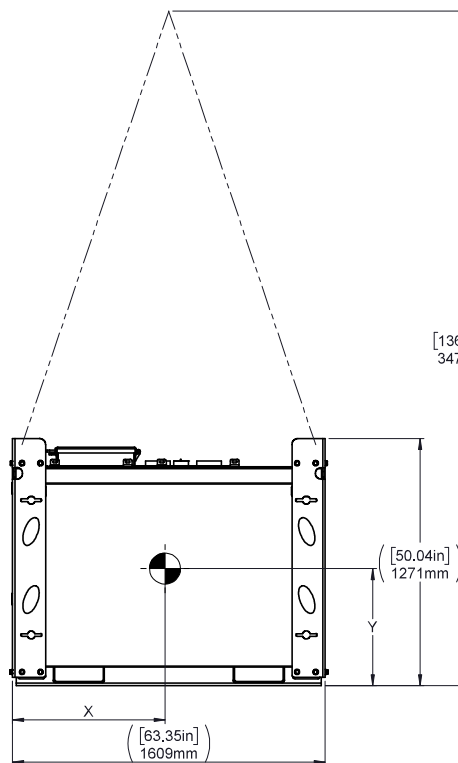
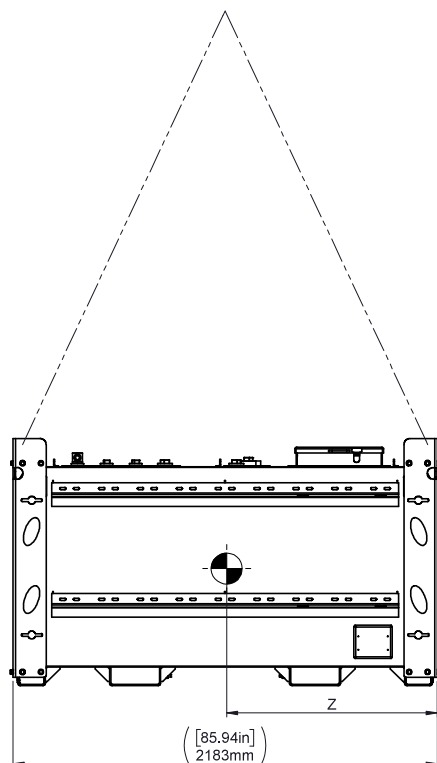
F	REV	REVISION DESCRIPTION	DATE	BY	CHECK	APP'D	GENERAL TOLERANCE 0.00 0.0 0.05 OVER 100 TO 500 OVER 500 TO 1000 OVER 1000 TO 1500 OVER 1500 TO 2000 OVER 2000 TO 2500 OVER 2500 TO 3000 OVER 3000 TO 3500 OVER 3500 TO 4000 OVER 4000 TO 4500 OVER 4500 TO 5000 OVER 5000 TO 5500 OVER 5500 TO 6000 OVER 6000 TO 6500 OVER 6500 TO 7000 OVER 7000 TO 7500 OVER 7500 TO 8000 OVER 8000 TO 8500 OVER 8500 TO 9000 OVER 9000 TO 9500 OVER 9500 TO 10000 OVER 10000 TO 10500 OVER 10500 TO 11000 OVER 11000 TO 11500 OVER 11500 TO 12000 OVER 12000 TO 12500 OVER 12500 TO 13000 OVER 13000 TO 13500 OVER 13500 TO 14000 OVER 14000 TO 14500 OVER 14500 TO 15000 OVER 15000 TO 15500 OVER 15500 TO 16000 OVER 16000 TO 16500 OVER 16500 TO 17000 OVER 17000 TO 17500 OVER 17500 TO 18000 OVER 18000 TO 18500 OVER 18500 TO 19000 OVER 19000 TO 19500 OVER 19500 TO 20000 OVER 20000 TO 20500 OVER 20500 TO 21000 OVER 21000 TO 21500 OVER 21500 TO 22000 OVER 22000 TO 22500 OVER 22500 TO 23000 OVER 23000 TO 23500 OVER 23500 TO 24000 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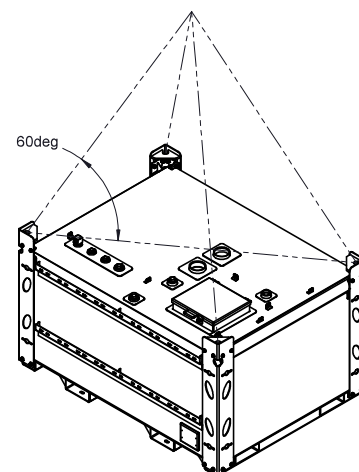


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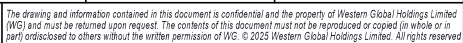
LIFTING DIAGRAM & CENTER OF GRAVITY DIAGRAM



CENTER OF GRAVITY			
MEDIUM	X (mm, in)	Y (mm, in)	Z (mm, in)
EMPTY TANK	785mm, 30.9in	603mm, 23.75in	1083mm, 42.6in
WITH FUEL @ 95% LEVEL	794mm, 31.3in	588mm, 23.1in	1087mm, 42.8in



F	REV	REVISION DESCRIPTION	DATE	BY	CHECK	APP'D	GENERAL TOLERANCE 0.00 0.0 0.05 OVER 100 TO 500 OVER 500 TO 1000 OVER 1000 TO 1500 OVER 1500 TO 2000 OVER 2000 TO 2500 OVER 2500 TO 3000 OVER 3000 TO 3500 OVER 3500 TO 4000 OVER 4000 TO 4500 OVER 4500 TO 5000 OVER 5000 TO 5500 OVER 5500 TO 6000 OVER 6000 TO 6500 OVER 6500 TO 7000 OVER 7000 TO 7500 OVER 7500 TO 8000 OVER 8000 TO 8500 OVER 8500 TO 9000 OVER 9000 TO 9500 OVER 9500 TO 10000 OVER 10000 TO 10500 OVER 10500 TO 11000 OVER 11000 TO 11500 OVER 11500 TO 12000 OVER 12000 TO 12500 OVER 12500 TO 13000 OVER 13000 TO 13500 OVER 13500 TO 14000 OVER 14000 TO 14500 OVER 14500 TO 15000 OVER 15000 TO 15500 OVER 15500 TO 16000 OVER 16000 TO 16500 OVER 16500 TO 17000 OVER 17000 TO 17500 OVER 17500 TO 18000 OVER 18000 TO 18500 OVER 18500 TO 19000 OVER 19000 TO 19500 OVER 19500 TO 20000 OVER 20000 TO 20500 OVER 20500 TO 21000 OVER 21000 TO 21500 OVER 21500 TO 22000 OVER 22000 TO 22500 OVER 22500 TO 23000 OVER 23000 TO 23500 OVER 23500 TO 24000 OVER 24000 TO 24500 OVER 24500 TO 25000 OVER 25000 TO 25500 OVER 25500 TO 26000 OVER 26000 TO 26500 OVER 26500 TO 27000 OVER 27000 TO 27500 OVER 27500 TO 28000 OVER 28000 TO 28500 OVER 28500 TO 29000 OVER 29000 TO 29500 OVER 29500 TO 30000 OVER 30000 TO 30500 OVER 30500 TO 31000 OVER 31000 TO 31500 OVER 31500 TO 32000 OVER 32000 TO 32500 OVER 32500 TO 33000 OVER 33000 TO 33500 OVER 33500 TO 34000 OVER 34000 TO 34500 OVER 34500 TO 35000 OVER 35000 TO 35500 OVER 35500 TO 36000 OVER 36000 TO 36500 OVER 36500 TO 37000 OVER 37000 TO 37500 OVER 37500 TO 38000 OVER 38000 TO 38500 OVER 38500 TO 39000 OVER 39000 TO 39500 OVER 39500 TO 40000 OVER 40000 TO 40500 OVER 40500 TO 41000 OVER 41000 TO 41500 OVER 41500 TO 42000 OVER 42000 TO 42500 OVER 42500 TO 43000 OVER 43000 TO 43500 OVER 43500 TO 44000 OVER 44000 TO 44500 OVER 44500 TO 45000 OVER 45000 TO 45500 OVER 45500 TO 46000 OVER 46000 TO 46500 OVER 46500 TO 47000 OVER 47000 TO 47500 OVER 47500 TO 48000 OVER 48000 TO 48500 OVER 48500 TO 49000 OVER 49000 TO 49500 OVER 49500 TO 50000 OVER 50000 TO 50500 OVER 50500 TO 51000 OVER 51000 TO 51500 OVER 51500 TO 52000 OVER 52000 TO 52500 OVER 52500 TO 53000 OVER 53000 TO 53500 OVER 53500 TO 54000 OVER 54000 TO 54500 OVER 54500 TO 55000 OVER 55000 TO 55500 OVER 55500 TO 56000 OVER 56000 TO 56500 OVER 56500 TO 57000 OVER 57000 TO 57500 OVER 57500 TO 58000 OVER 58000 TO 58500 OVER 58500 TO 59000 OVER 59000 TO 59500 OVER 59500 TO 60000 OVER 60000 TO 60500 OVER 60500 TO 61000 OVER 61000 TO 61500 OVER 61500 TO 62000 OVER 62000 TO 62500 OVER 62500 TO 63000 OVER 63000 TO 63500 OVER 63500 TO 64000 OVER 64000 TO 64500 OVER 64500 TO 65000 OVER 65000 TO 65500 OVER 65500 TO 66000 OVER 66000 TO 66500 OVER 66500 TO 67000 OVER 67000 TO 67500 OVER 67500 TO 68000 OVER 68000 TO 68500 OVER 68500 TO 69000 OVER 69000 TO 69500 OVER 69500 TO 70000 OVER 70000 TO 70500 OVER 70500 TO 71000 OVER 71000 TO 71500 OVER 71500 TO 72000 OVER 72000 TO 72500 OVER 72500 TO 73000 OVER 73000 TO 73500 OVER 73500 TO 74000 OVER 74000 TO 74500 OVER 74500 TO 75000 OVER 75000 TO 75500 OVER 75500 TO 76000 OVER 76000 TO 76500 OVER 76500 TO 77000 OVER 77000 TO 77500 OVER 77500 TO 78000 OVER 78000 TO 78500 OVER 78500 TO 79000 OVER 79000 TO 79500 OVER 79500 TO 80000 OVER 80000 TO 80500 OVER 80500 TO 81000 OVER 81000 TO 81500 OVER 81500 TO 82000 OVER 82000 TO 82500 OVER 82500 TO 83000 OVER 83000 TO 83500 OVER 83500 TO 84000 OVER 84000 TO 84500 OVER 84500 TO 85000 OVER 85000 TO 85500 OVER 85500 TO 86000 OVER 86000 TO 86500 OVER 86500 TO 87000 OVER 87000 TO 87500 OVER 87500 TO 88000 OVER 88000 TO 88500 OVER 88500 TO 89000 OVER 89000 TO 89500 OVER 89500 TO 90000 OVER 90000 TO 90500 OVER 90500 TO 91000 OVER 91000 TO 91500 OVER 91500 TO 92000 OVER 92000 TO 92500 OVER 92500 TO 93000 OVER 93000 TO 93500 OVER 93500 TO 94000 OVER 94000 TO 94500 OVER 94500 TO 95000 OVER 95000 TO 95500 OVER 95500 TO 96000 OVER 96000 TO 96500 OVER 96500 TO 97000 OVER 97000 TO 97500 OVER 97500 TO 98000 OVER 98000 TO 98500 OVER 98500 TO 99000 OVER 99000 TO 99500 OVER 99500 TO 100000 OVER 100000 TO 100500 OVER 100500 TO 101000 OVER 101000 TO 101500 OVER 101500 TO 102000 OVER 102000 TO 102500 OVER 102500 TO 103000 OVER 103000 TO 103500 OVER 103500 TO 104000 OVER 104000 TO 104500 OVER 104500 TO 105000 OVER 105000 TO 105500 OVER 105500 TO 106000 OVER 106000 TO 106500 OVER 106500 TO 107000 OVER 107000 TO 107500 OVER 107500 TO 108000 OVER 108000 TO 108500 OVER 108500 TO 109000 OVER 109000 TO 109500 OVER 109500 TO 110000 OVER 110000 TO 110500 OVER 110500 TO 11	
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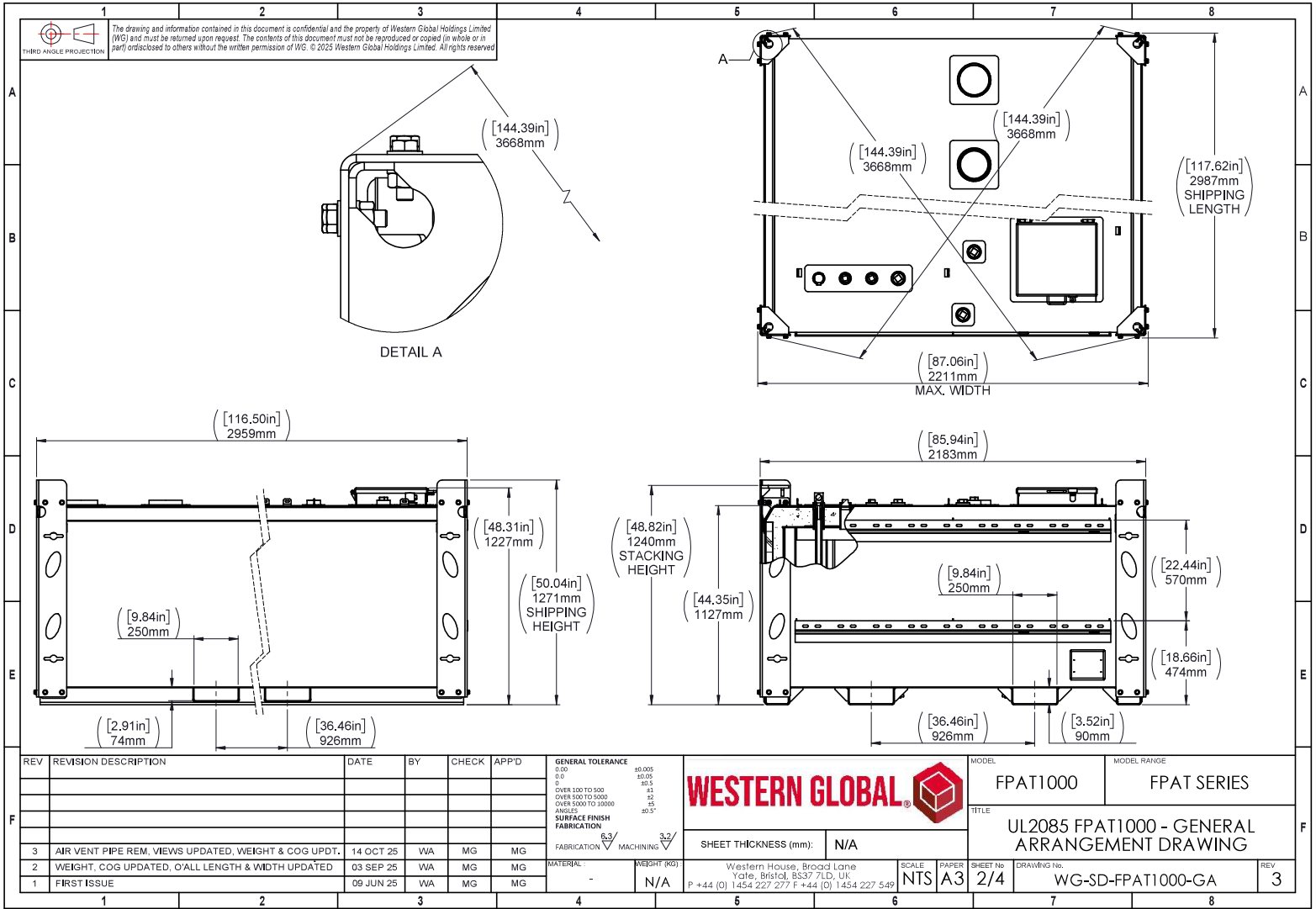


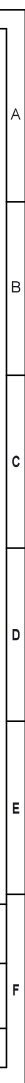
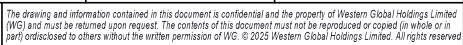
This diagram shows an exploded view of a power supply unit designed for 19-inch rack mounting. The unit consists of a main rectangular chassis and a separate mounting bracket. The chassis features a top panel with two circular ventilation holes, a central square component (likely a fan or filter), and several mounting points. The mounting bracket is designed to fit into a standard 19-inch rack, with slots for screws and a handle for easy access. The diagram illustrates how the power supply unit is assembled into the rack structure.

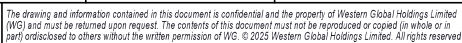
MGW CALCULATED AS FOLLOWS:
TARE WEIGHT + (SAFE FILL CAPACITY X DENSITY OF LIQUID)

THIS TANK IS DESIGNED TO COMPLY WITH THE
REQUIREMENTS OF UL2085

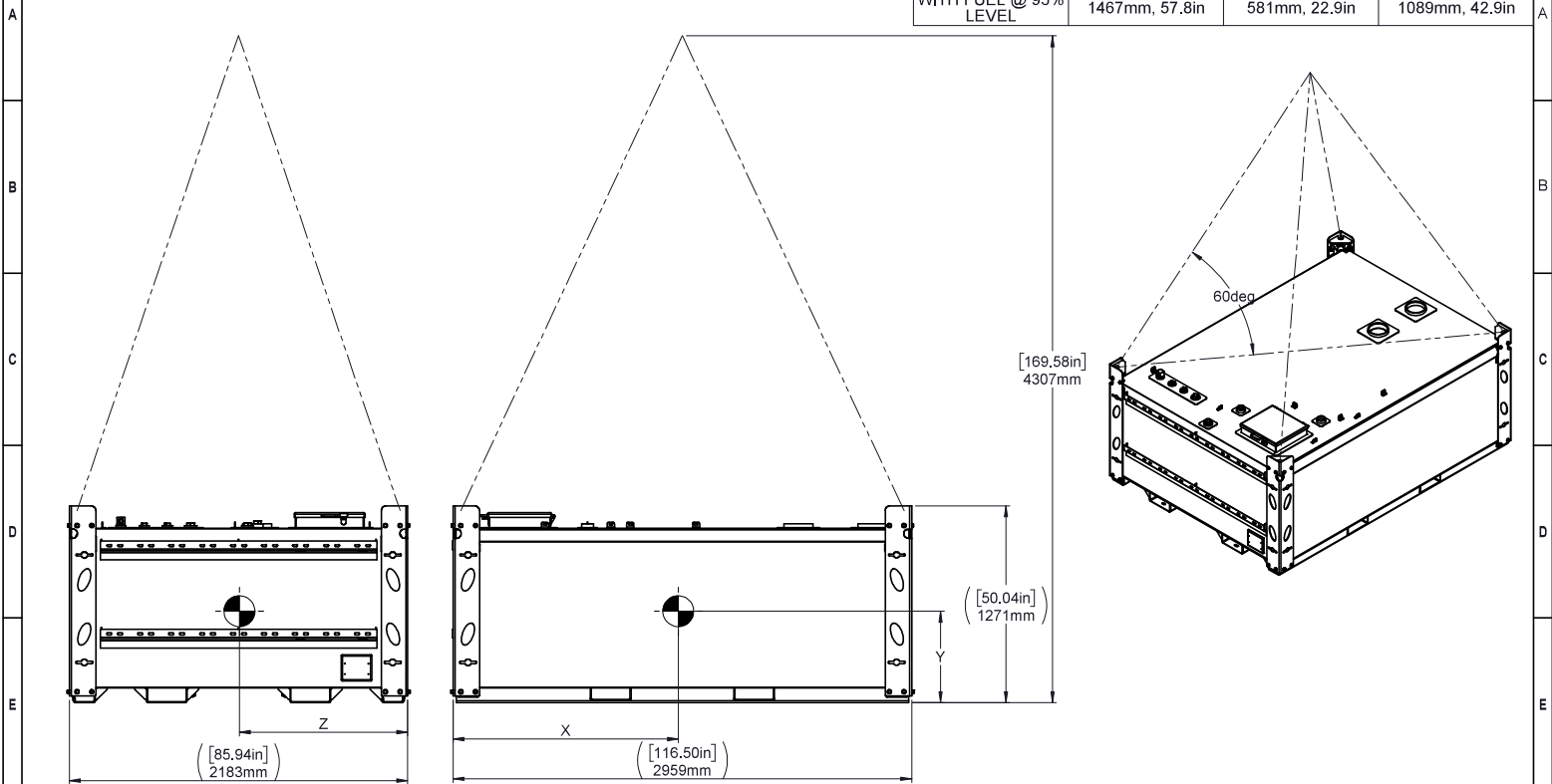
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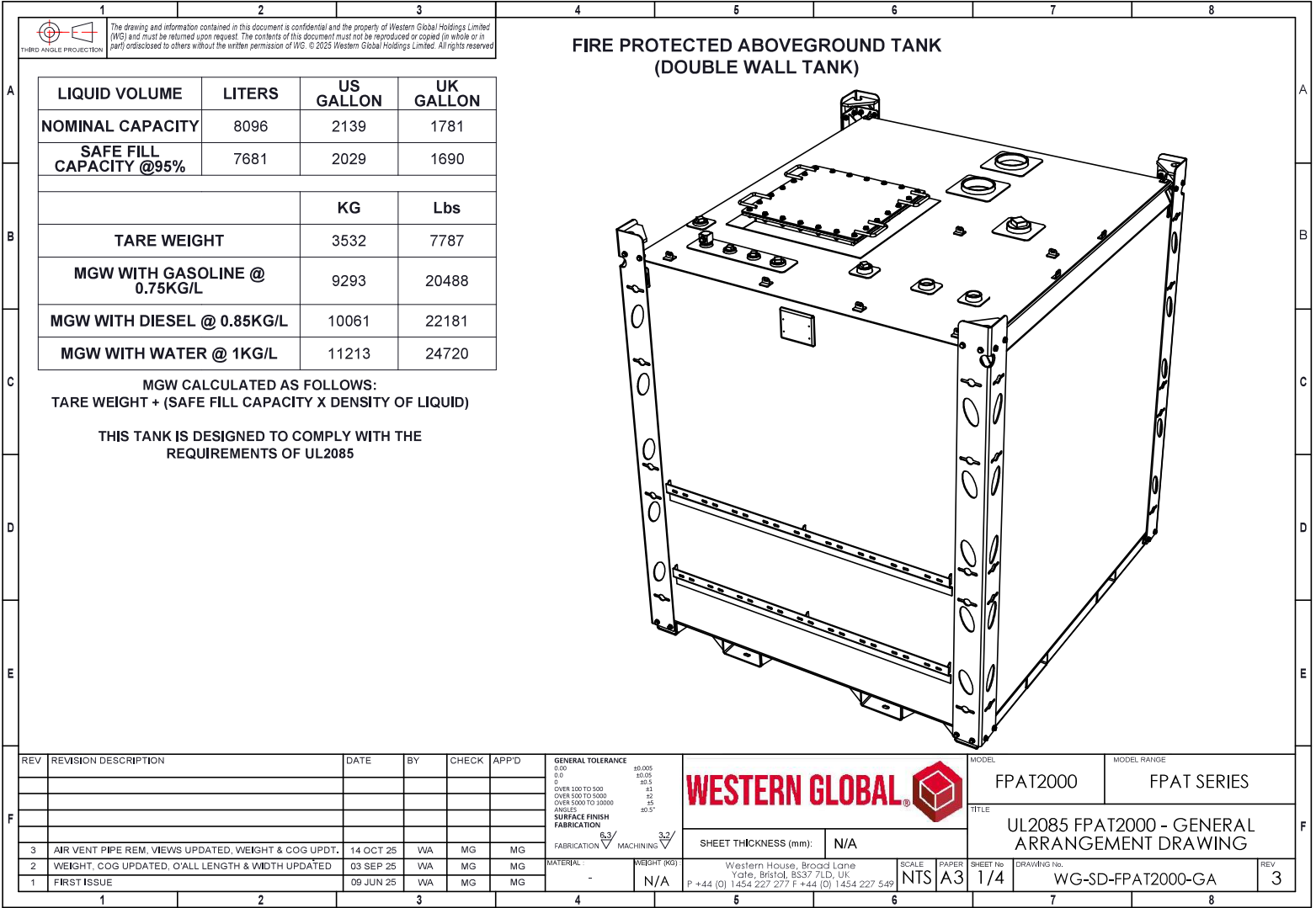


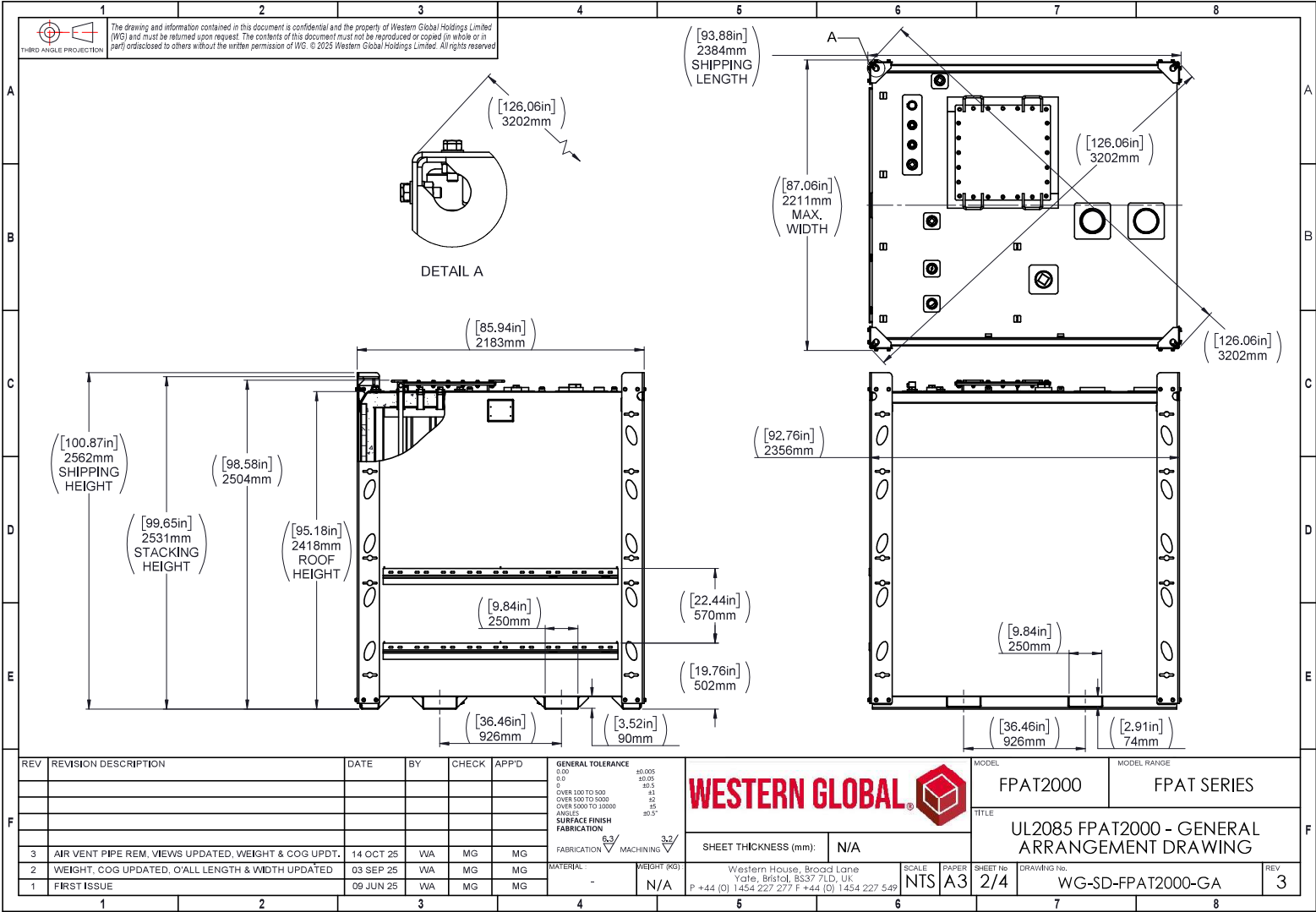


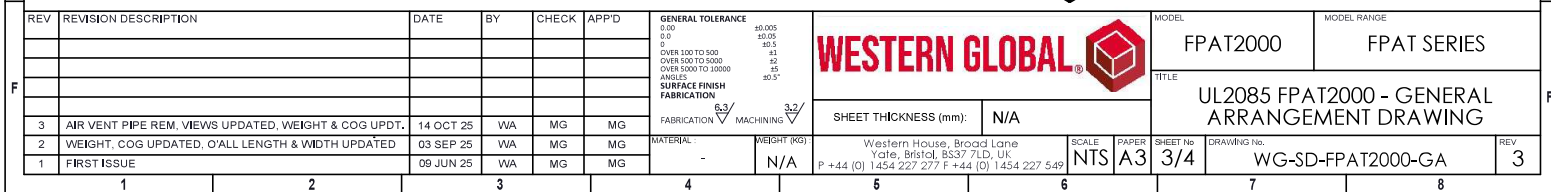
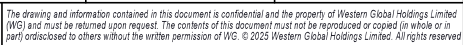
CENTER OF GRAVITY			
MEDIUM	X (mm, in)	Y (mm, in)	Z (mm, in)
EMPTY TANK	1453mm, 57.2in	590mm, 23.2in	1086mm, 42.8in
WITH FUEL @ 95% LEVEL	1467mm, 57.8in	581mm, 22.9in	1089mm, 42.9in

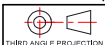


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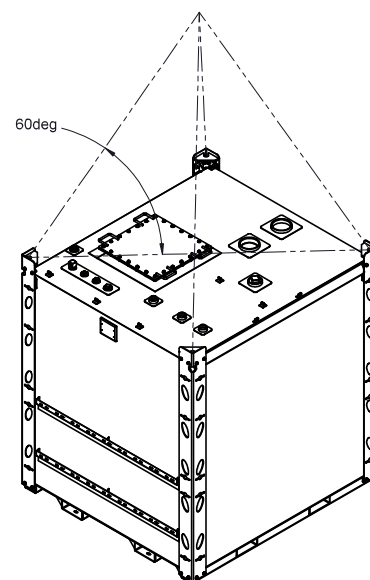
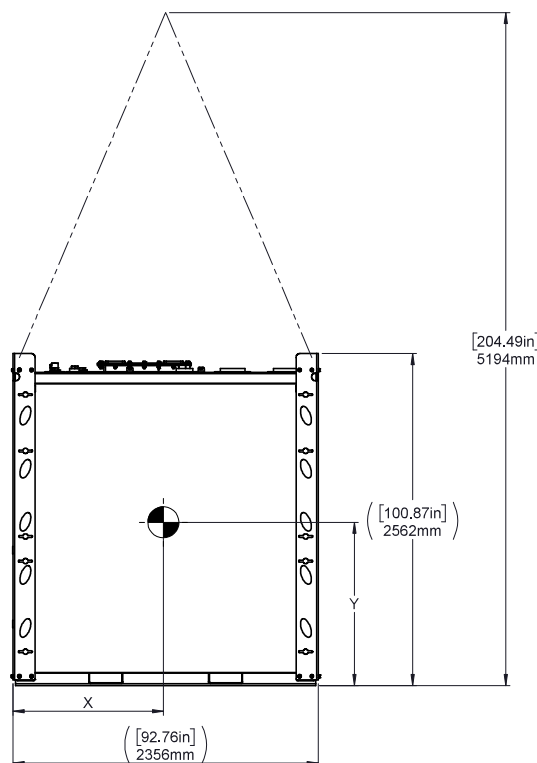
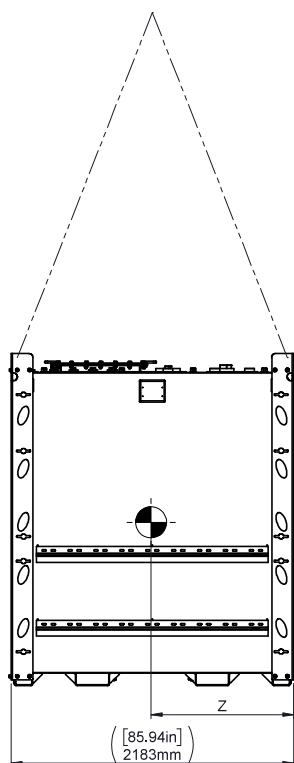




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LIFTING DIAGRAM & CENTER OF GRAVITY DIAGRAM

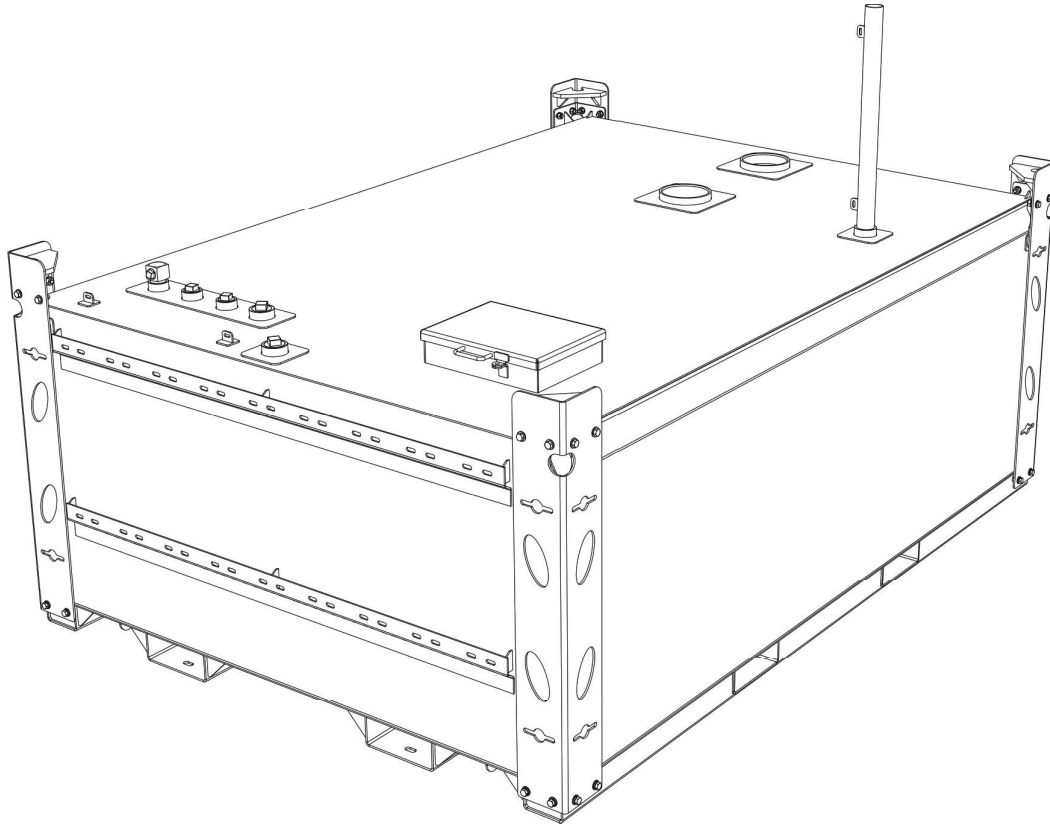
CENTER OF GRAVITY			
MEDIUM	X (mm, in)	Y (mm, in)	Z (mm, in)
EMPTY TANK	1160mm, 45.7in	1260mm, 49.6in	1101mm, 43.3in
WITH FUEL @ 95% LEVEL	1171mm, 46.1in	1213mm, 47.8in	1095mm, 43.1in



F	REV	REVISION DESCRIPTION	DATE	BY	CHECK	APP'D	GENERAL TOLERANCE ±0.005 ±0.0 ±0.05 ±0.1 OVER 100 TO 500 OVER 500 TO 1000 OVER 1000 TO 10000 ANGLES SURFACE FINISH FABRICATION		MODEL	MODEL RANGE			
							FABRICATION 3/32 MACHINING 3/32		SHEET THICKNESS (mm):	N/A	FPAT2000	FPAT SERIES	
	3	AIR VENT PIPE REM. VIEWS UPDATED, WEIGHT & COG UPDT.	14 OCT 25	WA	MG	MG	MATERIAL		WEIGHT (KG)	SCALE	PAPER	TITLE	UL2085 FPAT2000 - GENERAL ARRANGEMENT DRAWING
	2	WIEGHT, COG UPDATED, O'ALL LENGTH & WMDTH UPDATED	03 SEP 25	VIA	MG	MG	Western House, Broad Lane Yateley, Hants RG20 7JD, UK P +44 (0) 1454 227 277 F +44 (0) 1454 227 549		NTS	A3	SHEET No	DRAWING No.	
	1	FIRST ISSUE	09 JUN 25	VIA	MG	MG	-		N/A	4/4	WG-SD-FPAT2000-GA	REV	
	1	2	3	4	5	6	7		8	9	10	11	

FIRE PRO

Product Manual - WM105



PROTECTED SECONDARY CONTAINMENT ABOVEGROUND

TANK FOR FLAMMABLE LIQUIDS

MODELS: FPAT500, FPAT1000, FPAT2000

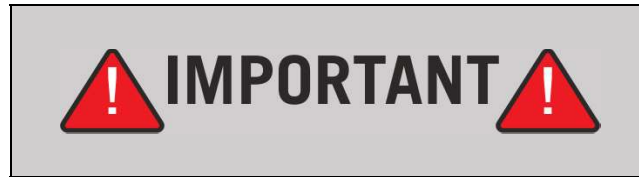
NUMBER ONE IN STORAGE

From farm to a rock concert, our customers have one thing in common. They need a cost efficient, environmentally secure and safe storage system that's ready to go.

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Introduction



Read this manual thoroughly before operating the FPAT Tank.

Operator Responsibilities

Ensure all operators are fully trained and familiar with the procedures for:

- Lifting
- Loading
- Positioning
- Filling
- Maintaining the unit

Safe Operation

Follow all instructions and procedures in this manual to ensure safe and reliable operation of your Western Global FPAT tank for many years.

Legal Compliance

Certain information in this manual is governed by law and may change without prior notice.

Although every effort has been made to ensure accuracy at the time of publication, it is the owner's and user's sole responsibility to comply with all applicable legal requirements.

Western Global Ltd accepts no liability for inaccuracies or incorrectly stated legal requirements.

Product Specifications

Western Global reserves the right to modify product specifications without prior notice or obligation.

Certification and Standards

- FPAT tanks are designed, approved, and listed by Underwriters Laboratories as "Protected Aboveground Tanks for Flammable and Combustible Liquids" in compliance with the following standards:
- UL2085 – Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids
- UL142 – Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids
- CAN/ULC-S655-15 – Standard for Aboveground Protected Tank Assemblies for Flammable and Combustible Liquids
- California CARB - Executive Order VR-302 Standing Loss Control Vapor Recovery System for New Installations

Description

- The range has been designed to enable safe storage of Flammable and Combustible fluids.
- The FPAT tank can be used as an auxiliary fuel tank and for refuelling independent equipment via a dedicated fuel pump.
- To aid handling, the FPAT tank is fitted with 'empty only' crane sling lifting points
- Bund capacity is equal to 110% of the main tank's capacity.

Safety

General Guidelines

Seek Advice if Unsure

If there is anything you do not understand, contact your supplier for guidance before proceeding.

- **Authorized Personnel Only**
The unit must be operated by trained and authorized personnel.
- **Fitness to Operate**
Do **not** move, fill, maintain, or operate the unit if you are:
 - Under the influence of alcohol or drugs
 - Tired or feeling unwell
- **Risk Assessment**
You **must** perform a risk assessment before using this equipment to ensure your safety and the safety of others.
- **Personal Protective Equipment (PPE)**
Wear the correct PPE for the task being performed.
- **Clothing and Accessories**
Do not wear loose clothing or jewellery that could become trapped in the mechanism.
- **Pre-Use Inspection**
Inspect the unit before use. If there is any doubt about its condition, **DO NOT USE IT**.
- **Fire Safety**
Do not smoke or allow naked flames near the tank.

		
No Smoking	No Open Flames	Authorised Access Only
		
Wear Safety Glasses	Wear Safety Helmet	Wear Ear Protection
		
Wear Safety Shoes	Wear Safety Gloves	Wear Coveralls

NOTE: Please check with the local authority for any further site requirements or regional legislation. A full risk assessment may be required

Limitations of Use

- The FPAT Tank is designed exclusively for the safe storage of flammable and combustible fluids.
- Each unit has a safe fill limit – refer to the Unit Specification for details.
- The FPAT Tank can supply fuel to external equipment.
- The FPAT Tank can also be used to refuel independent equipment.

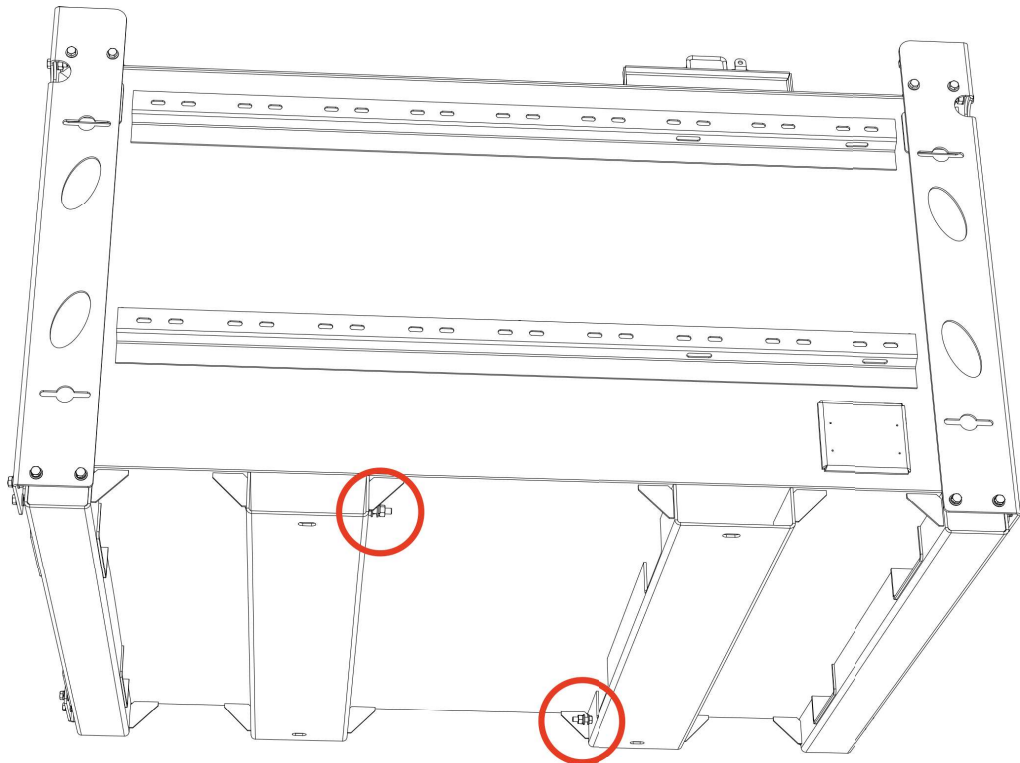
Safe Practice

The storage and dispensing of flammable and combustible fluids are governed by law.

It is the sole responsibility of the user/operator to ensure compliance with all applicable rules and regulations.

Earthing point

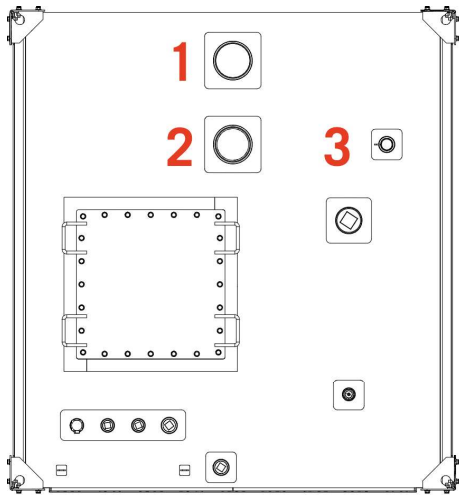
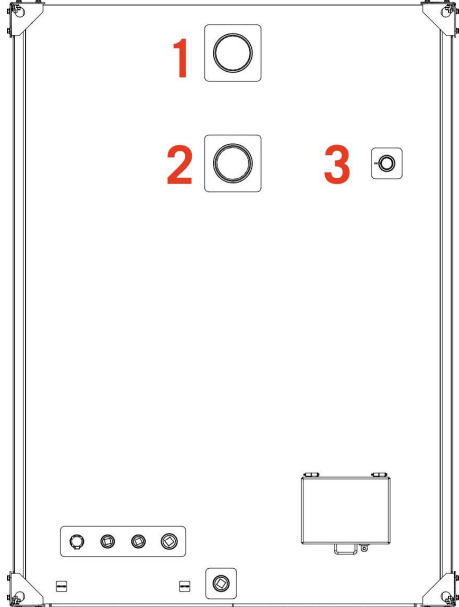
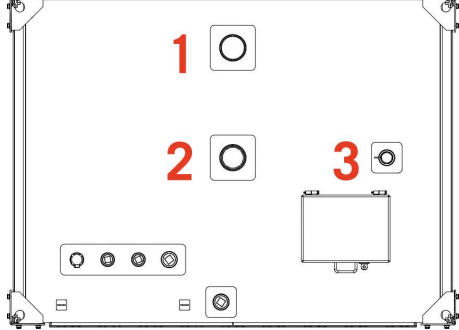
- The FPAT tanks are fitted with earthing points. These are found on the front and back of the tank on the bottom frame, shown below.
- Used to protect against static electricity build-up, these should be connected to a suitable earthing point by a qualified electrician.



1 – Earth Points

Venting

- Each unit is equipped with tank vents and bund vents, located in the roof access area.
- NOTE: All vents must be installed before the unit is used.

	1. Interstitial Tank Emergency Vent (EVR Approved) 2. Primary Tank Emergency Vent (EVR Approved) 3. Normal Vent Stack Pipe – fitted with options: a. 2" Free to Air vent for use with Diesel b. 2" Pressure / Vacuum Vent for use with Gasoline c. Model 5885 EVR Approved Vent for CARB Compliance See table below for size of item1 and 2 (Emergency vents) FPAT500 2x 4" Morrison Bros 244OM-0170AVEVR FPAT1000 2x 6" Morrison Bros 244OM-0200AVEVR FPAT2000 2x 6" Morrison Bros 244OM-0200AVEVR
	
	

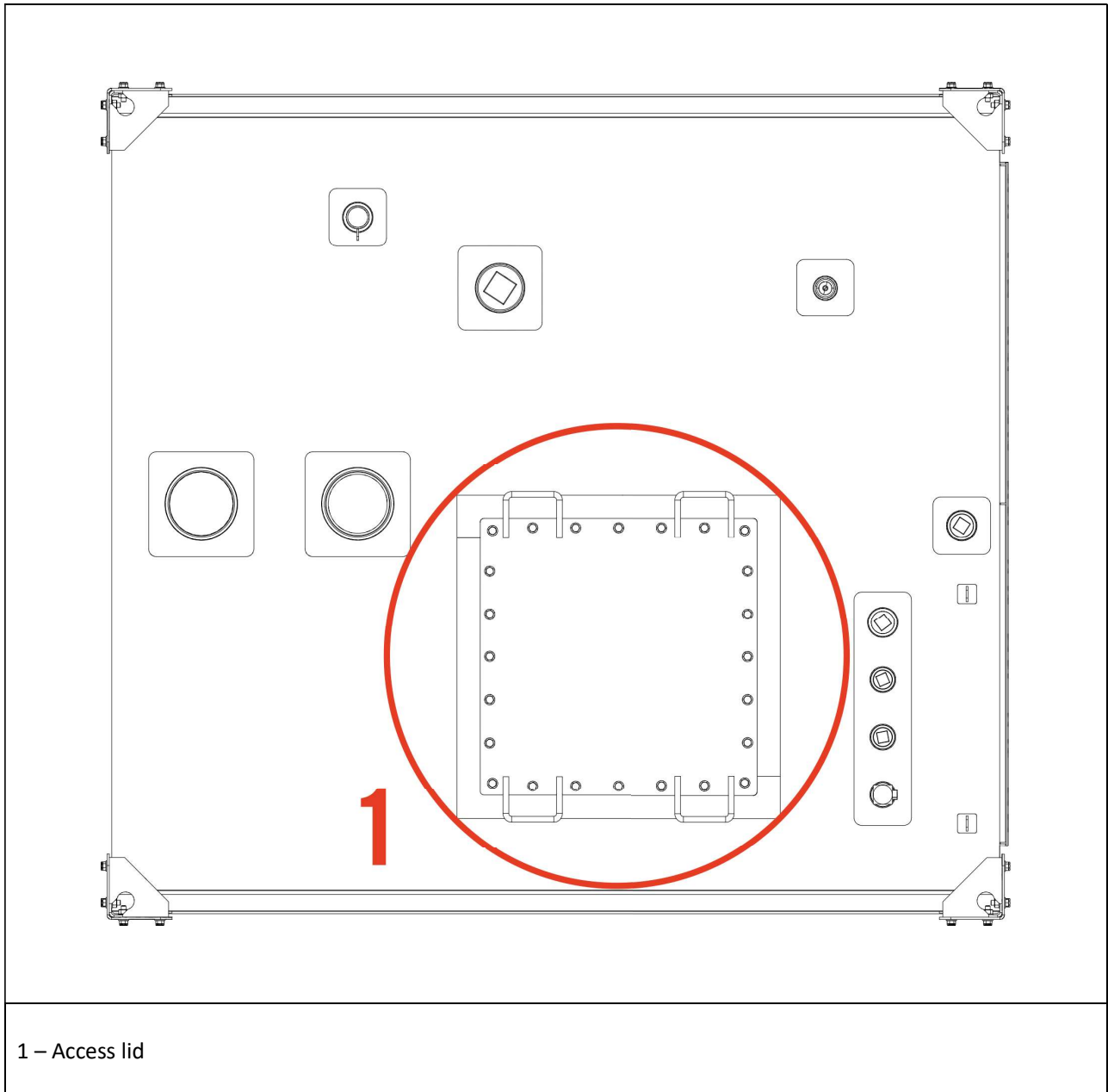
Access FPAT2000

Safety

**Ingress to the inner tank must only be performed by trained personnel.
A full risk assessment must be completed before entry.**

Access to the Inner Tank

- For maintenance, inspection, and cleaning, access is provided through the installed access lid located on the top of the tank.
- This access point is available on FPAT2000 ONLY.
- NOTE:
 - The access lid is heavy – two-person lift only.
 - Follow OSHA guidelines on confined space entry



Unit Specification

Capacities / Dimensions

Model	Capacity			
	Litres		US Gallon	
	Nominal	Safe Fill ¹	Nominal	Safe Fill
500	1993	1893	526	500
1000	4064	3861	1074	1020
2000	8096	7691	2139	2032

See STRAPPING CHART (Dip) for Safe Fill data

Model	Weight			
	KG		LBS	
	TARE	GROSS*	TARE	GROSS*
500				
1000				
2000				

Model	Dimension					
	Metric (mm)			Imperial (Inch)		
	L	W	H	L	W	H
500	1637	2211	1271	64.5	87	50
1000	2987	2211	1271	117.6	87	50
2000	2384	2211	2562	93.9	87	101

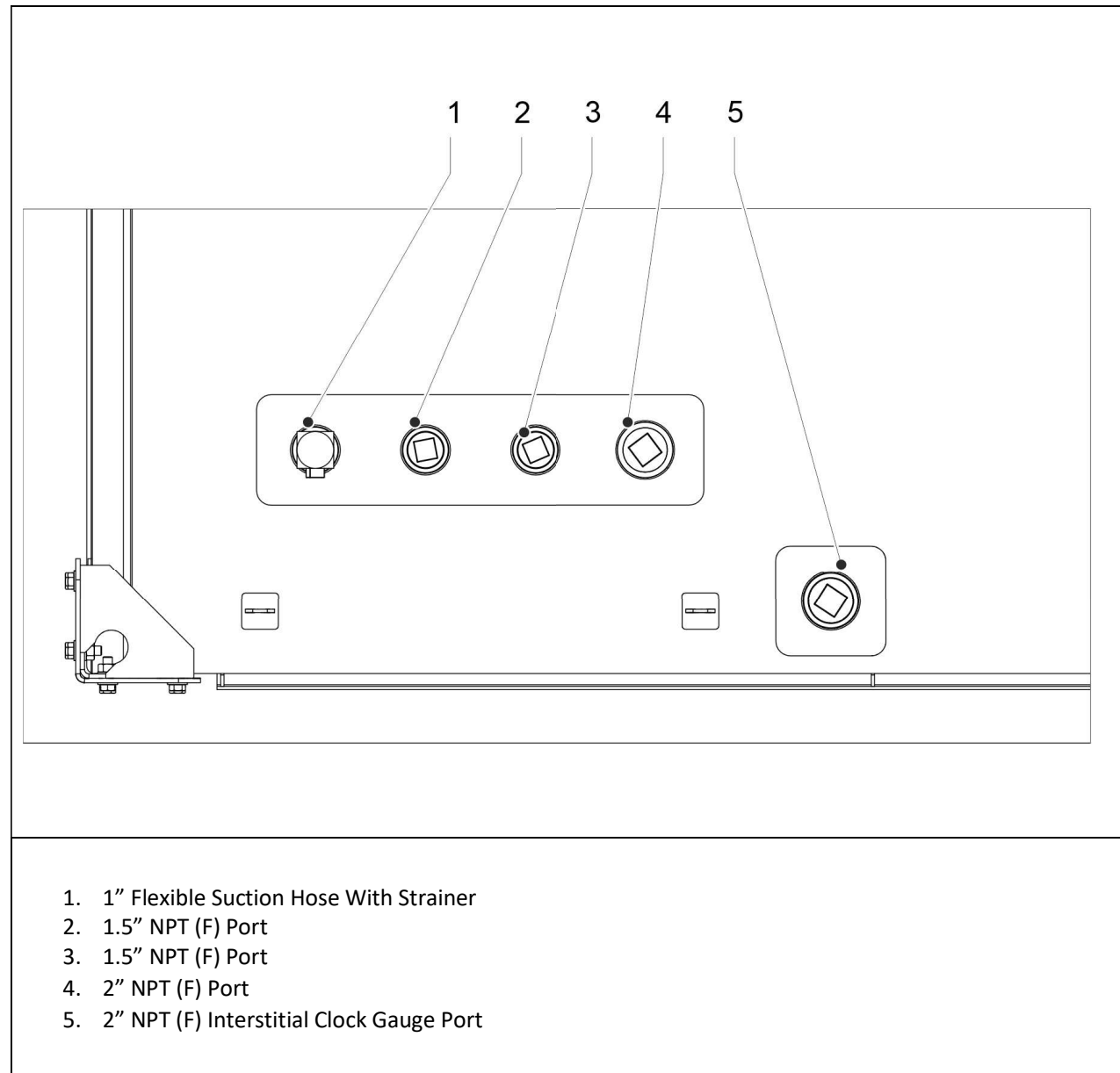
*When filled with Gasoline @0.75KG/L

Maximum overall dimensions

¹ Safe Fill level set by Overfill Prevention Device

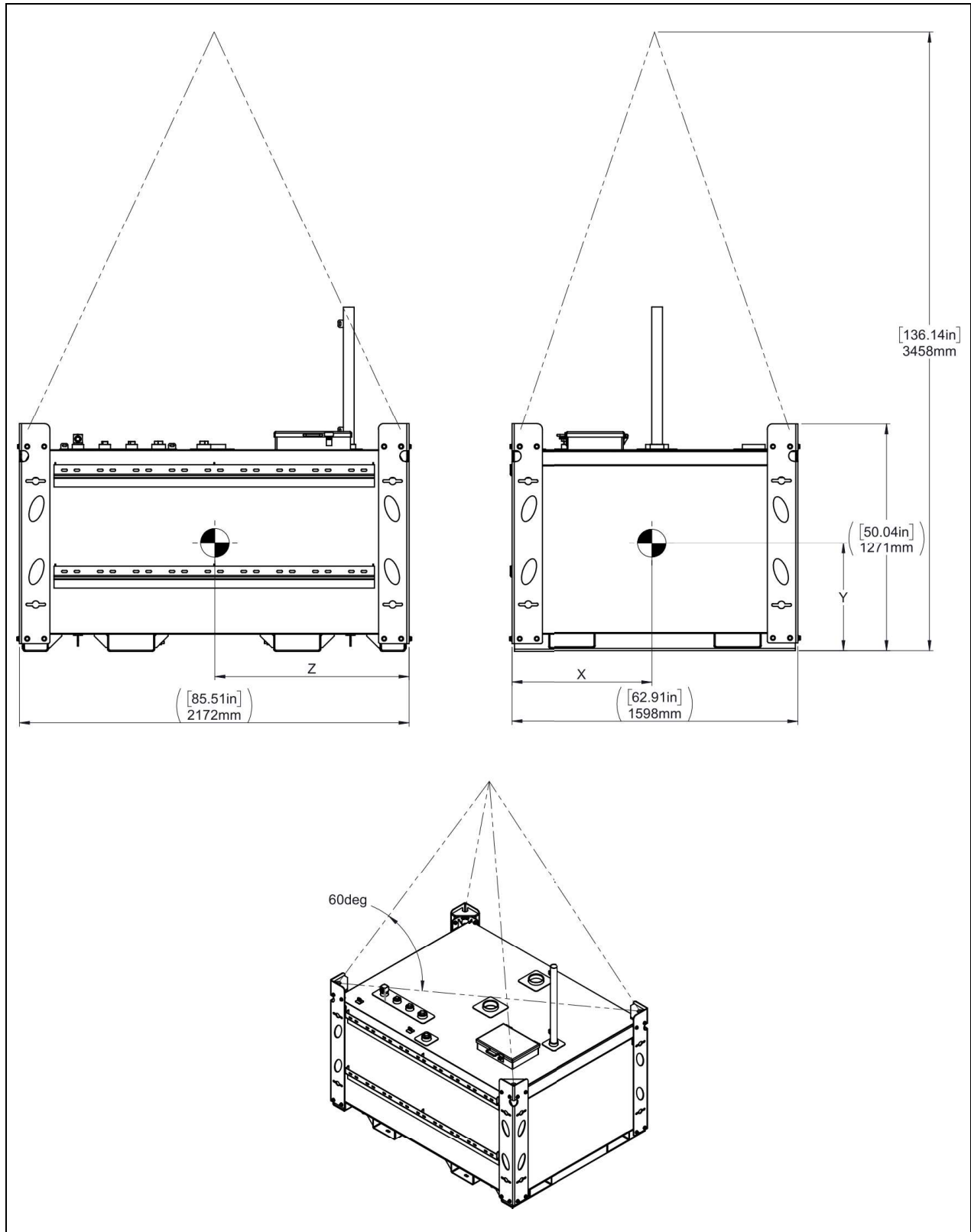
Overview (Standard Units)

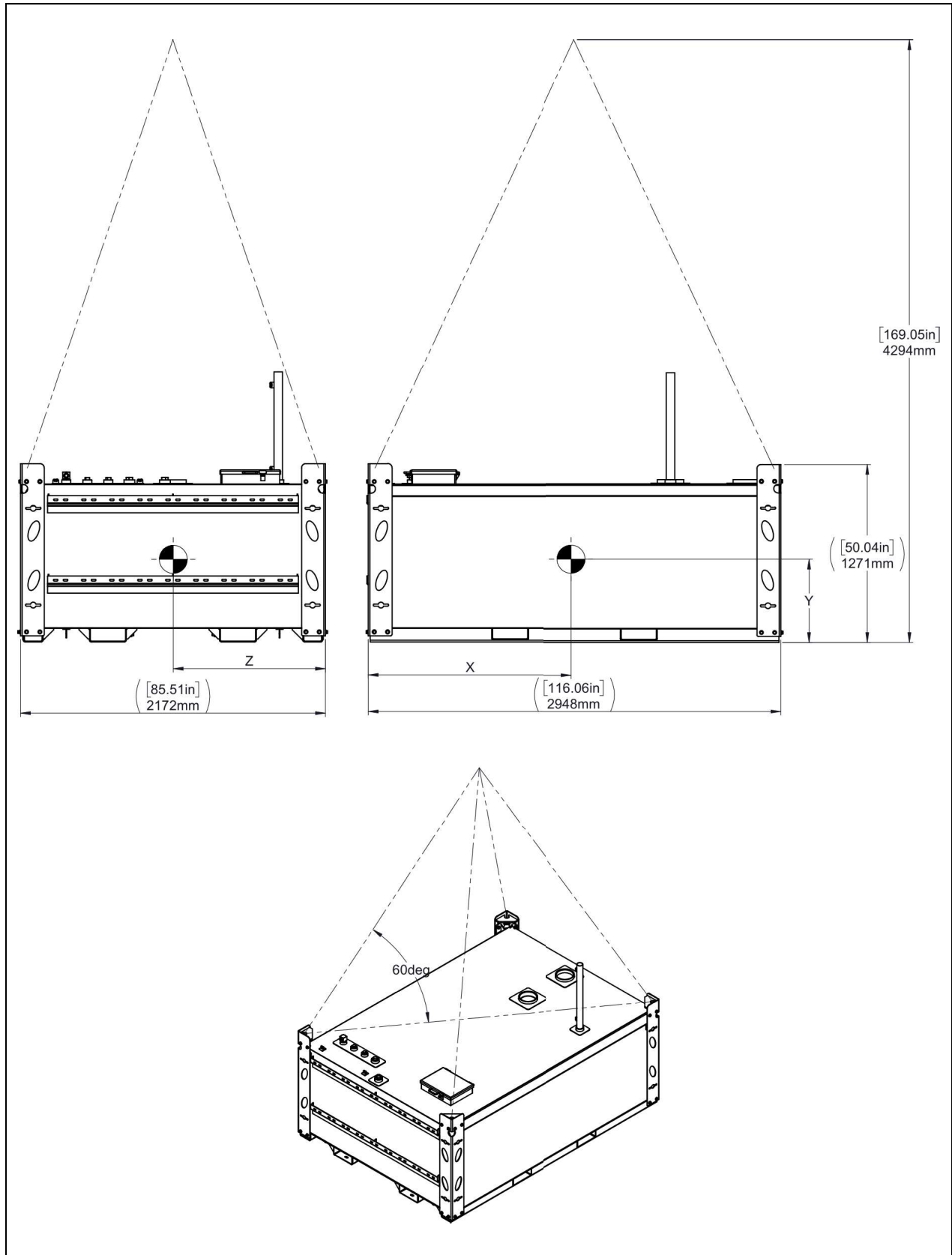
Common to all tanks

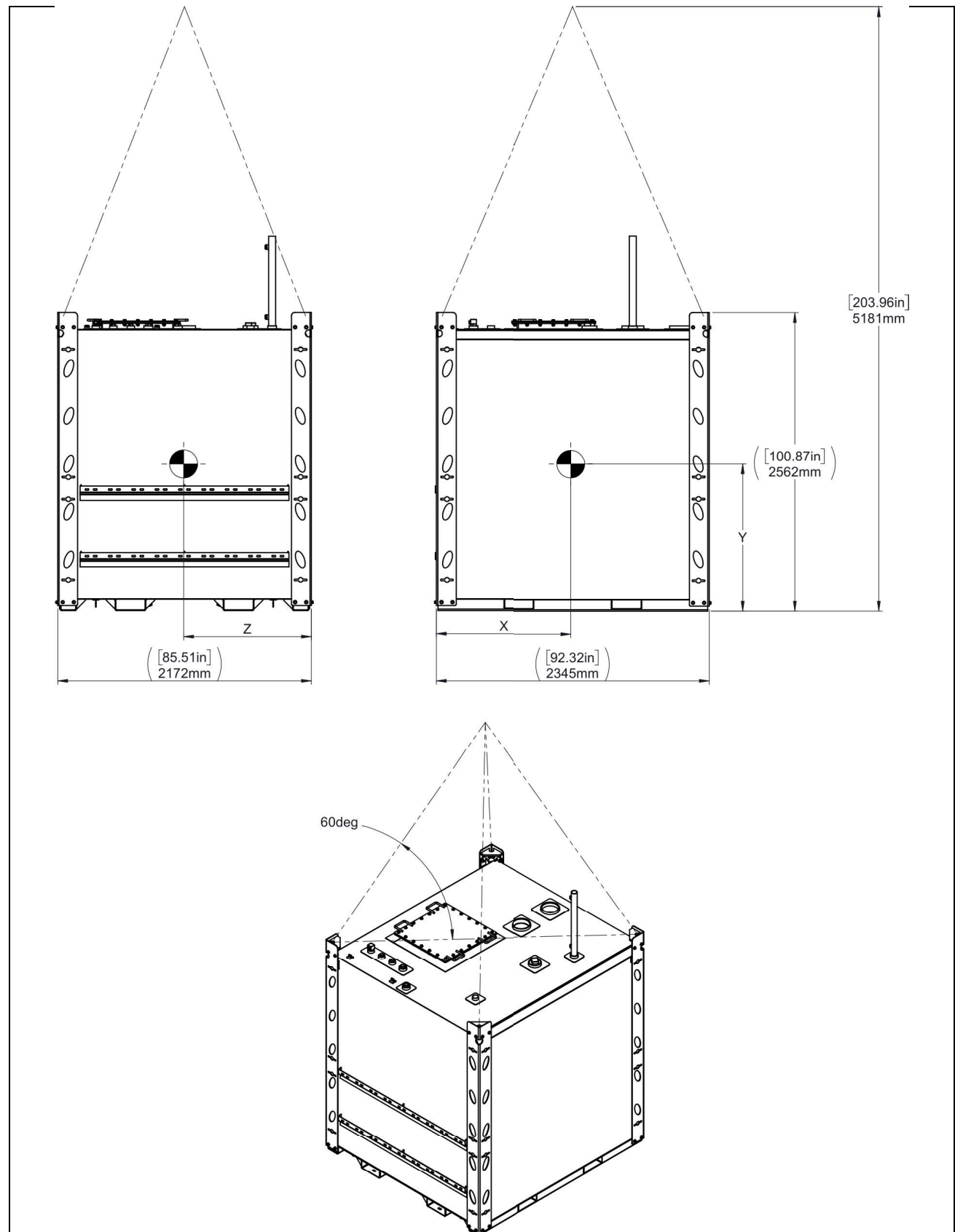


Centre Of Gravity

FPAT500







Transporting

Transport the tank empty only.

During transport:

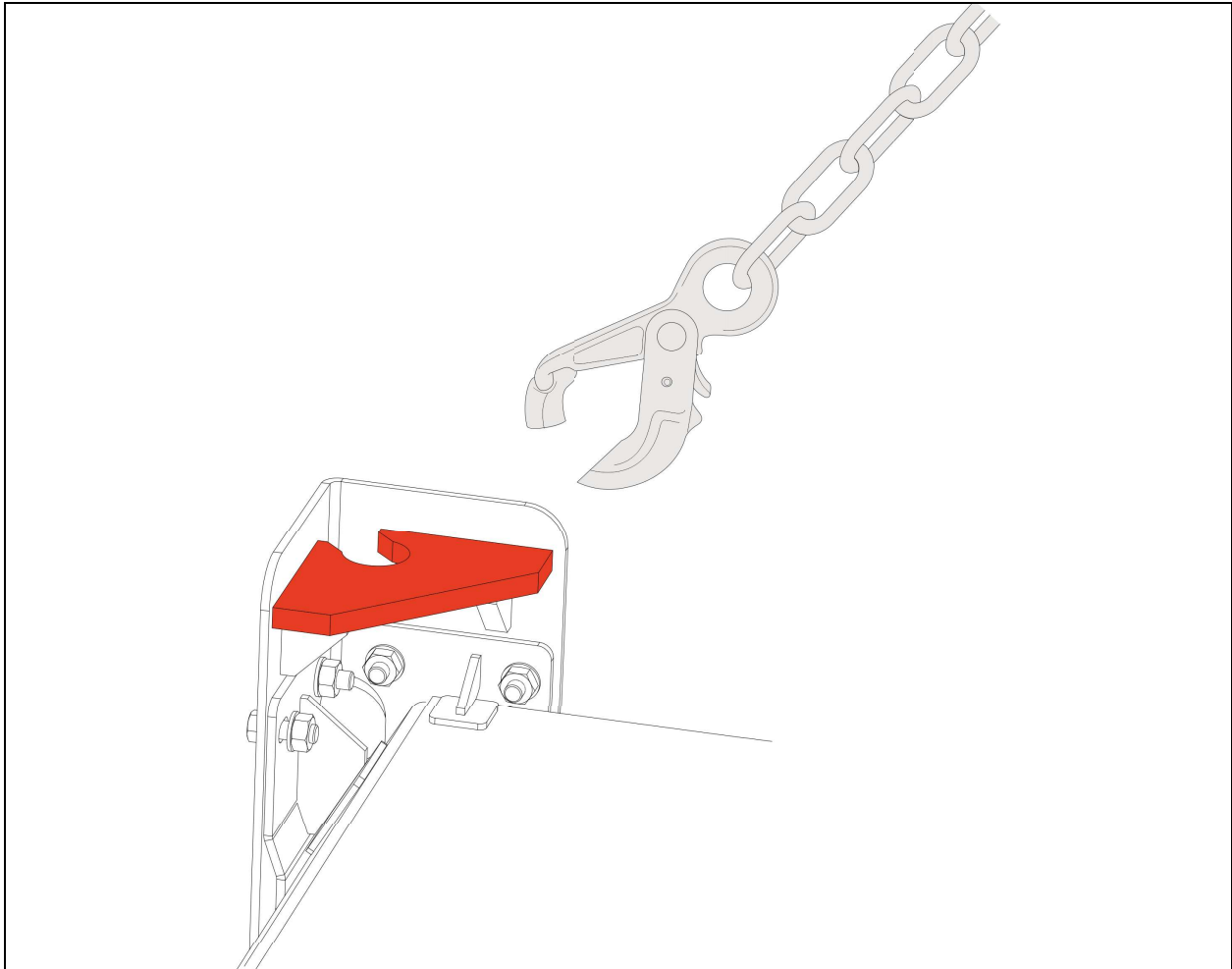
- Close all ports, valves, and vents.
- Ensure the pump is turned off.
- Secure the FPAT tank firmly to the transport vehicle.

Lifting (Lift Empty Only)

IMPORTANT: Always prepare a Lifting Plan and perform a Risk Assessment before lifting.

By Lifting Points:

- Lift the FPAT tank only via the dedicated crane lifting points located at each corner, shown below.
- All lifting points must be used during the lift.
- Inspect lifting points for condition and safe use. Inspection must be carried out by a competent person.
- Do NOT lift from the base using slings.
- NOTE: Lift empty only.



Crane and Chain Slings – Lifting Equipment

- Use a lifting device (crane) and a suitable four-leg chain sling fitted with hooks equipped with safety catches/gates. Ensure all lifting equipment is correctly rated for the load.
- Obtain official confirmation from the chain sling supplier that the sling is suitable for both Safe Working Load (SWL) and chain length.
- Attach the chain slings to the lifting equipment, then connect each hook to the designated lifting points. Ensure all safety catches/gates are fully closed.
- Attach tag lines to the base of the unit to control rotation during lifting.
- Begin lifting by raising the chains until taut. Check:
 - Hooks are correctly positioned with gates closed.
 - Chains are not twisted.
- If any fault is found, lower the unit and reattach correctly.
- Lift the unit slightly off the ground and verify that it is balanced and stable. Once confirmed, proceed with the lift.

WARNING

Never allow anyone to stand or pass under a raised load at any time or for any reason.

- Use suitable tag lines to control the movement of the unit and maintain constant communication with the crane operator.
- Move the unit slowly and smoothly to ensure full control of its position.
- Lower the unit to its designated resting place with great care.

NOTE

Most four-leg chain slings have their Safe Working Load (SWL) rated at 90°.

The SWL typically decreases as the angle of use increases. Always verify the correct rating for the lifting angle before use.

Positioning

When selecting a permanent or temporary position for the FPAT tank, consider the following:

- Protection from Impact
- Position the tank where it will be protected from accidental impact.
- Ensure safe and easy access for both supplying vehicles and receiving vehicles.

Overhead and Underground Services

- Check for overhead obstructions such as telecommunication lines, power cables, and other structures.
- Identify underground services, including drains and manhole covers, to avoid interference.

Ground Conditions

- Confirm that the ground surface can support:
 - The weight of the FPAT tank
 - Its contents when full
 - Any additional equipment such as pumps
- Position the tank on smooth, level ground with access available to the rear and sides.

Emergency Access

- Allow sufficient space for emergency services access if required.

Installation Instructions:

Installation instructions shall be provided with each tank to describe the proper installation procedure. They shall include the following:

USL:

- A. "Consult local authorities before installing this tank" or an equivalent statement.
- B. "This tank shall be investigated to determine acceptability for use after fire exposure damage, other physical damage, or misuse," or an equivalent statement.
- C. "This tank is intended for installation in accordance with NFPA 30, NFPA 30A, and the Uniform Fire Code," or an equivalent statement.
- D. Instructions for lifting, handling, periodically inspecting, testing, and servicing the tank.
- E. Instructions stating that guard posts or other barriers shall be installed in accordance with local codes to protect from vehicle impact.
- F. Instructions for installing flame arresters in normal vents.
- G. Instructions for monitoring the interstitial space for leakage.
- H. Grounding instructions.
- I. Instructions for the proper installation of emergency vent devices that are provided with a tank but not assembled to the tank during shipment.

CNL:

- A. The protected tank assembly installer shall consult with the applicable Authority Having Jurisdiction to ensure that the requirements of CAN/ULC-S655-15 Standard and all applicable Federal, Provincial, and Local Codes are met before installation.
- B. The protected tank assembly shall be installed on a bed or base designed to support the assembly plus 100% liquid loading.
- C. The secondary containment shall be checked every week to confirm that neither precipitation nor product is accumulating therein. The disposal of any liquid found in the containment shall be in accordance with the requirements of the applicable Authority Having Jurisdiction.
- D. The normal vent shall be equipped with a weatherproof hood.
- E. Coatings shall be inspected annually. Any necessary coating repairs required shall be done in accordance with the coating manufacturer's instructions; and
- F. The protected tank assembly shall not continue in service after fire exposure, other physical damage or misuse, unless it is investigated to confirm its acceptability for continued use by the tank manufacturer and the applicable Authority Having Jurisdiction.

Installation of Ancillary Equipment

- Always follow the manufacturer's guidelines for installation and operation.
- All electrical installations must be carried out by suitably qualified personnel and rated in accordance with applicable standards.

Filling the FPAT Tank

- DO NOT fill the tank while dispensing is in operation.
- Fill only to the safe fill capacity specified for the unit.
- Filling must be performed by a suitably trained person following a full risk assessment.
- Ensure the FPAT tank is positioned on a firm, level surface.
- Before filling:
 - Have a suitable spillage kit available.
 - Wear all required Personal Protective Equipment (PPE).
- Use hard-coupled filling only.
- Monitor the fuel level gauge during filling.
- After filling:
 - Replace the filler cap.
 - Clean up any fuel spillages immediately.

Containment

The FPAT tank bund/containment area is designed to prevent spillage from escaping and polluting the surrounding area.

- The bund is designed to retain up to 110% of the unit's maximum storage capacity.
- Check regularly for liquid in the bund/containment area.
- Remove any water promptly.
- If product or water is found, take immediate remedial action in accordance with site procedures.

IMPORTANT Waste may only be collected by a registered carrier.

Spillages

If spillage occurs during bund emptying, fuel filling, or fuel transfer, take the following actions:

- A. Contain and Remove Immediately
 - Clear the spillage as quickly as possible using absorbent material.
 - Ideally, use a dedicated spillage kit containing all necessary items for retention and removal.
- B. Prohibited Actions
 - DO NOT hose the area down or use detergents.
 - DO NOT allow fuel to enter drains or watercourses.
- C. Reporting
 - All spillages must be reported to your Local Authority.
- D. Disposal of Materials
 - Bag all material used to retain and remove the spillage.
 - Ensure collection by a registered carrier in compliance with regulations.

Strapping Chart (Dip)

FPAT500

Liquid Height in Tank		Equivalent Liquid Volume	
in	mm	US Gallons	Litres
0	0	0	0
2	51	32.8	124
4	102	65.7	249
6	152	97.9	370
8	203	130.7	495
10	254	163.5	619
12	305	196.4	743
14	356	229.2	868
16	406	261.4	990
18	457	294.3	1114
20	508	327.1	1238
22	559	359.9	1362
24	610	392.8	1487
26	660	425.0	1609
28	711	457.8	1733
30	762	490.6	1857
$30 \frac{9}{16} - ^1$	777	500.3	1893
32	813	523.5	1982
$32 \frac{3}{16} - ^2$	818	526.0	1993
¹ Safe Fill Capacity			
² Actual tank volume – theoretical maximum			
Note: Values provided here are for an idealised tank, slight variance may exist in practice due to manufacturing tolerance and real-world conditions.			

FPAT1000

Liquid Height in Tank		Equivalent Liquid Volume	
in	mm	US Gallons	Litres
0	0	0	0
2	51	67.0	254
4	102	133.9	507
6	152	199.6	756
8	203	266.6	1009
10	254	333.5	1263
12	305	400.5	1516
14	356	467.5	1770
16	406	533.2	2018
18	457	600.1	2272
20	508	667.1	2525
22	559	734.1	2779
24	610	801.0	3032
26	660	866.7	3281
28	711	933.7	3534
30	762	1000.6	3788
30 ⁹ / ₁₆ - ¹	777	1020.0	3861
32	813	1067.6	4041
32 ³ / ₁₆ - ²	818	1073.6	4064

¹ Safe Fill Capacity

² Actual tank volume – theoretical maximum

Note: Values provided here are for an idealised tank, slight variance may exist in practice due to manufacturing tolerance and real-world conditions.

FPAT2000

Liquid Height in Tank		Equivalent Liquid Volume	
in	mm	US Gallons	Litres
0	0	0	0
2	51	51.7	196
4	102	103.4	392
6	152	154.2	584
8	203	205.9	779
10	254	257.6	975
12	305	309.4	1171
14	356	361.1	1367
16	406	411.9	1559
18	457	463.6	1755
20	508	515.3	1951
22	559	567.1	2147
24	610	618.8	2343
26	660	669.6	2535
28	711	721.3	2730
30	762	773.0	2926
32	813	824.6	3121
34	863	875.3	3313
36	914	927.1	3509
38	965	978.8	3705
40	1016	1030.5	3901
42	1067	1082.3	4097
44	1117	1133.0	4289
46	1168	1184.8	4485
48	1219	1236.5	4681
50	1270	1288.2	4877
52	1321	1340.0	5072
54	1372	1391.7	5268
56	1422	1442.4	5460
58	1473	1494.2	5656
60	1524	1545.9	5852
62	1575	1597.7	6048
64	1626	1649.4	6244
66	1676	1700.1	6436
68	1727	1751.9	6632
70	1778	1803.6	6828
72	1829	1855.4	7023
73 ¹¹ / ₁₆ ¹	1871	1898.0	7185
74	1880	1907.1	7219
74 ⁵ / ₈ ²	1896	1923.4	7281
76	1930	1957.9	7411
78	1981	2009.6	7607
80	2032	2061.3	7803
82	2083	2113.0	7998
83 ³	2109	2138.7	8096

¹ Min. Overfill Protection Device Activation (Min. Usable Capacity)² Max. Overfill Protection Device Activation (Max. Usable Capacity)³ Actual tank volume – theoretical maximum

Note: Values provided here are for an idealised tank, slight variance may exist in practice due to manufacturing tolerance and real-world conditions.

Inspection and Maintenance

- The warranty requires the owner of the FPAT tank to carry out regular inspections and maintain a record of each inspection.
- If any fault is identified:
 - The unit **MUST** be removed from service immediately.
 - The fault must be rectified and the unit retested successfully before returning to service.

NOTE: Repairs should only be carried out by a certified agent.

V = Visual inspection P = Physical Check L = Lubricate R = Replace C = Calibrate / Certify					
Item	Weekly	Monthly	6 Monthly	Yearly	Reference / Comments
Housekeeping	V		P		Check site and tank. Remove rubbish etc.
Firefighting media (if fitted)	V		P		V = Check in place and unused, P = Test pressure and function
Lighting	V				V = Check function
Signage		V			Check damage and wear
Ball valves	P				P = Check operation
Vents, fittings and pipelines	V		P		V = Visual checks for leaks and damage, P = physical check, bolt tightness, paint deterioration
Interstitial space (Bund)	P				Check for water or product
Tank and pipework earthing			V	P	V = Visual check OK, P = Test continuity
Level gauges	V			P	V = Visual checks for leaks and damage, P = Remove and check operation

Environmental Responsibility

- Correct and responsible management of flammable and combustible fluids, including storage and transfer, is the responsibility of all operators and maintenance personnel.
- Take all necessary precautions to prevent spillages and subsequent environmental pollution.
- Maintain a clear action plan for dealing with accidental spillages, regardless of size.
- Ensure a spillage containment kit for flammable and combustible fluids is available and that personnel understand its correct use.
- In the event of a large spillage, contact your local agency immediately for advice.

Dispensing Fuel

Fuel can be dispensed in two ways:

1. By Fuel Pump
 - Refer to the documentation supplied with the unit for correct instructions regarding the pump system installed on your FPAT tank.
2. Direct Coupling
 - Direct coupling enables continuous fuel feed to equipment such as generators requiring uninterrupted power.
 - Western Global can supply ¼", ½", and ¾" feed and return hoses, complete with quick-release couplings.
 - Contact Western Global for further information.

Disposal

When maintaining, servicing, or disposing of the FPAT tank or its consumable components:

- Do not dispose of contaminated parts in general refuse.
- Refer to local authority regulations for correct disposal procedures.

WARRANTY

The Company undertakes to replace or repair, free of charge, any defect which the Company considers to be due to faulty workmanship or material within 12 months (or otherwise stated) for steel tanks from the sale date, except for:

- Defects arising from neglect, misuse or unauthorised modifications.
- Damage caused by abuse, misuse, dropping or other similar damage caused by or because of a failure to follow transportation, storage, loading or operation instructions.
- Alterations, additions or repairs carried out by persons other than the manufacturer or their recognised distributors.
- Transportation or shipment costs to and from the Manufacturer or their recognised agents, for repair or assessment against a warranty claim, on any product or component.
- Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.
- Faults arising from the use of non-standard or additional parts, or any consequential damage or wear caused by the fitting or use of such parts.

SALE IN THE STATE OF CALIFORNIA

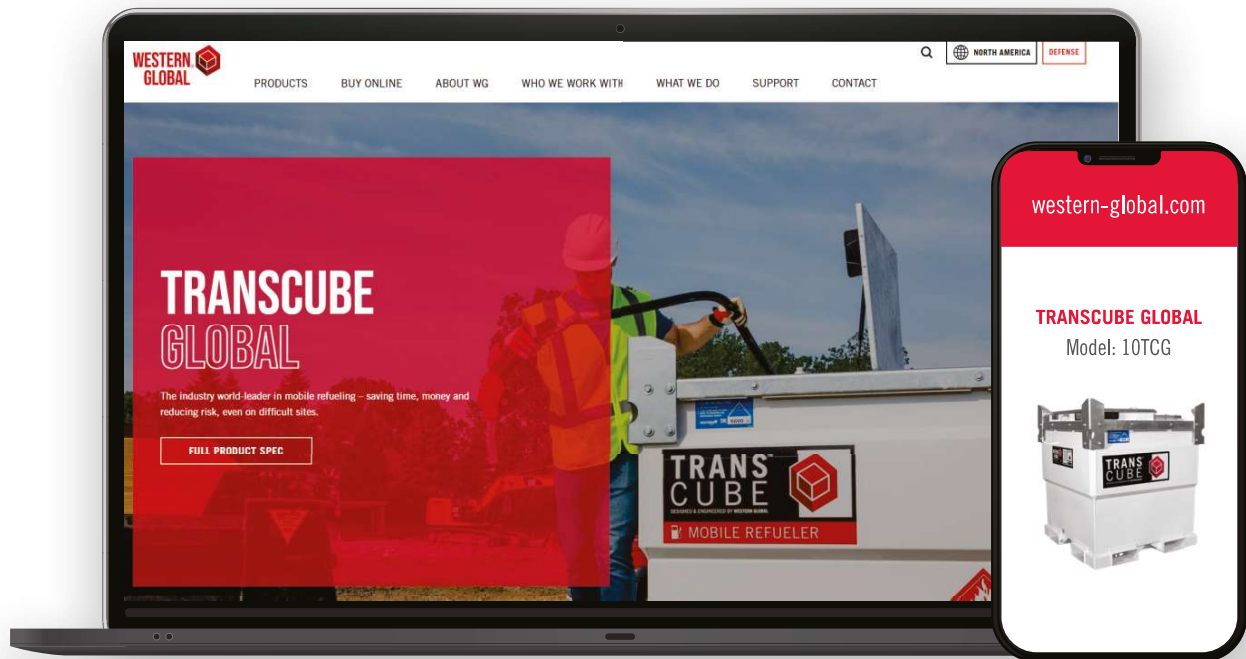
When sold in the State of California with CARB Approval, the warranty period will be 12 months from the date of installation.

IMPORTANT

Warranty may, at the sole discretion of the manufacturer, be voided if the scheduled service/inspections are not carried out in accordance with the logbook. The manufacturer and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with, or because of, or due to the inability to use the product for any purpose.

NOTES

NEED MORE INFORMATION?



PRODUCT DETAILS | CUSTOMER SUPPORT | COMPANY NEWS & UPDATES

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