



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: EREDYNE GROUP Contact Name: Charl Human
Company Address: 29 Kitchen Road, Dandenong South. City, State: Melbourne, Victoria. Zip: 3975
E-mail: Charl.Human@Fuelco.ae Contact Number: +971 50 719 7137
Product Name: LTSK Kube Series Aboveground Diked Tanks
Model Number(s): FUELCO LTSK Diked Kube Range Product Type: Aboveground Diked Fuel Storage Tanks for Flammable and Combustible Liquids
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: _____

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

Registration : ABOVEGROUND FLAMMABLE-LIQUID TANKS; Aboveground Secondary Containment Rectangular Tanks for Flammable and Combustible Liquids on Supports, listed AST as UL-142 and CAN/ULC-S601 listed Tanks vide UL File MH60954. LTSK-1 (251), LTSK-2 (545) LTSK-3 (753), LTSK-5 (1179), LTSK-7 (1903).

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-_____	☐	☒	☐
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 Tanks for Flammable and Combustible Liquids on Supports, AST stationary use, listed as UL-142, CAN/ULC-S601 Tanks, UL File MH60954 in 5 varying storage capacities. Being Aboveground Flammable-Liquid Tanks, FUELCO recommend getting these tanks installed by a state certified petroleum technician / pollutant storage contractor in compliance with the local / county / state AHJ and in compliance to the NFPA30 and DEP requirements. Periodic operability and integrity testing must be carried out per DEP state regulations.

Equipment Registration Certification:

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

Kyle Marcus
Printed Name and Title


Signature (right click to sign)

02/10/2026
Date

For Department Use Only:

Date Application Received: 03/16/2026 Application complete: Yes: ☒ No: ☐

EQ- 1047 Date of complete or incomplete letter sent: 03/17/2026 Date Equipment Requires Renewal: 03/17/2031

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



Thank you for giving UL the opportunity to partner with you.

Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

Should you have any questions, after reviewing the material, or need to report any inaccuracies, please reach out to your UL representative or find UL contact details for your local Customer Service Department at <https://www.ul.com/about/locations>.

Please find attached the related material

For your convenience, the below describes the related updates:

For revised/new documentation, please reference 2023-01-13 in the page headings.

MH60954-20220426-CertificateofCompliance
MH60954-20220426-Description
Illustration-2-Total
MH60954-20220426-TestRecord

This material is provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Times change, Trust Remains™

CERTIFICATE OF COMPLIANCE

Certificate Number MH60954
Report Reference MH60954-20220426
Date 2023-January-20

Issued to: Eredyne Group Pty Ltd
8 Yazaki Way
Carrum Downs Victoria 3201 AU

**This is to certify that
representative samples of** ABOVEGROUND FLAMMABLE-LIQUID TANKS
See Addendum Page for Product Designation(s).

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

Standard(s) for Safety: UL 142, Steel Aboveground Tanks For Flammable And
Combustible Liquids

CAN/ULC-S601, Shop Fabricated Steel Aboveground Tanks 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 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.


Deborah Jennings-Conner, VP Regulatory Services

UL LLC



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CERTIFICATE OF COMPLIANCE

Certificate Number	MH60954
Report Reference	MH60954-20220426
Date	2023-January-20

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

Product Designation:

Dual Certification for aboveground closed top diked tanks for flammable liquids on supports.



Deborah Jennings-Conner
Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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File MH60954

Project 4790338281

April 26, 2022

REPORT

on

ABOVEGROUND FLAMMABLE-LIQUID TANKS

EREDYNE GROUP PTY LTD

8 YAZAKI WAY
CARRUM DOWNS, Victoria 3201 AUSTRALIA

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DESCRIPTION

PRODUCT COVERED:

USL/CNL Dual Certification for aboveground closed top diked tanks for flammable liquids on supports.

COMPLIANCE:

*USL indicates investigation to US Standard UL 142, Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids.

CNL indicates investigation to ULC-S601 Steel Aboveground Tanks for Flammable and Combustible Liquids.

GENERAL:

The products covered are rectangular closed top diked tanks for storage of flammable and combustible liquids at atmospheric pressure in stationary installations aboveground.

***The** tanks are intended for stationary installation in accordance with the Standard for Flammable and Combustible Liquids Code of the National Fire Protection Association, NFPA No. 30; The Standard for Installation and Use of Stationary Combustion Engine and Gas Turbines, NFPA 37; and The Standard for Emergency and Standby Power Systems, NFPA 110.

The tanks are fabricated, inspected and tested for leakage before shipment from the factory as completely assembled vessels.

MARKINGS:

These markings shall be embossed, etched, or stamped on a nameplate of corrosion resistant metal. Lettering shall be minimum 1/4 in. high lettering. The nameplate shall be secured to the outside surface of the insulated tank by welding, brazing, or attaching it by screws, rivets, welding or brazing to a bracket or holder that is then welded or brazed to the tank.

1. The manufacturer's name.
2. The statement, "The Tank Requires Emergency Relief Venting Capacity Not Less Than (+) Cubic Feet Per Hour."

(+) - Sized in accordance with UL Standard UL 142, Table 8.1.
3. The statement, "This Tank Is Intended For Stationary Installation Only."
4. Identification of emergency vent openings.
5. The capacity of the dike in U.S. Gallons or percentage of primary tank.

LISTING MARK:

*

THE SYMBOL OF UL

LISTED

ABOVEGROUND CLOSED TOP DIKED TANK FOR FLAMMABLE LIQUIDS

LABEL SERIAL NUMBER

*

THE SYMBOL OF UL

LISTED

ABOVEGROUND CLOSED TOP DIKED TANK FOR FLAMMABLE LIQUIDS ON SUPPORTS

LABEL SERIAL NUMBER

TESTS TO BE CONDUCTED BY MANUFACTURER:

1. Each tank, before painting, shall be tested by the manufacturer and provided tight against leakage in accordance with the following test procedure. There shall be no evidence of leakage or sign of permanent deformation following the leakage test. If subjected to a leakage test pressure, the tank wall, head, or roof may deflect but shall return to its original position and shape when the test pressure is released.

- A. The primary tank shall be pressurized to 3-5 psig and checked by a leak detection solution. Once the secondary tank has been completed, the primary tank shall be checked for leakage by pressurizing to 3-5 psig and held for a period of 1 h to check for leakage. A continuous drop in pressure is considered evidence of leakage. While maintaining 3-5 psig pressure on the primary tank, the space bounded by the primary and secondary walls shall be pressurized to 3-5 psig. The entire outer surface shall be checked for leakage by applying soap suds, linseed oil or equivalent solution. Continuous formation of bubbles is evidence of leakage.
- B. If leaks are noted during testing, the tanks shall be made tight by welding and retested. Defects in welds shall be repaired as detailed in the Standard, by chipping or melting out from one or both sides of the joint, as required, and re-welding and above test has to be repeated.

- C. Each dike shell is to be inspected before painting for welding defects with a dye penetrant, magnet-flux, or other acceptable non-destructive testing method. If all seams are double welded (inside and outside), visual inspection may be used. The Hydrostatic Load Test, described in UL 142 Sec. 46.1, may also be used to determine welding defects. If leaks are noted during testing, the tank is to be made tight by welding and retested. Defects in welds are to be repaired by chipping or melting out from one or both sides of the joint, as required, and rewelding.

CONSTRUCTION DETAILS:

All primary tanks used in the dike assembly shall bear individual or combined Certification Listing Mark for compliance with UL 142 **and ULC-S601**.

In addition to the general construction requirements for all containment types, Diked Tanks shall be designed and constructed in accordance with the illustration drawings in this Section:

Diked Tank Construction	Rectangular
UL 142 ULC-S601	ILL 1 for tank construction ILL 2 for lift lug

The tank construction is as described in ILLS. 1. Tanks shall not exceed the length, width and height dimensions as shown below, measured from the outer most surface. All dimensions may be less than those specified below and in the Illustrations, provided the components are constructed using the minimum material thickness or structural steel as specified in the drawings and description and the design remains the same. Fitting locations may vary from those shown in the Illustrations. All welds shall be per the Illustrations.

Max. Length (mm)	Max. Width (mm)	Max. Height (mm)	Min. Steel Thickness (mm)
3945	2210	1194	3

Material and Thickness - The steel shall comply with the specifications set forth in the Standard. The tank construction is as described in ILL. 1

Gasket - Gaskets shall be of Listed gasket material at least 1/8 in. thick.

Provisions for Venting - Each primary tank portion of a secondary containment tank and each compartment of a compartment tank shall have provision for both normal and emergency venting. The interstitial space of the dike shall have provision for emergency venting sized per Table 8.1 of UL 142.

A vent opening shall be in addition to the fill, withdrawal, and liquid level gauge openings. Each vent opening is to be above the highest liquid level. Each interstitial emergency vent opening shall be above the maximum liquid level of the primary tank.

The size of the normal vent opening is based on the tank capacity as specified in Table 8.2 of the Standard. Emergency vents shall be sized based on the wetted surface area, UL 142 Table 8.1 and section 8.9.

Joins and Seams - Joins and seams shall be in accordance with the Standard as shown in the respective illustrations detailing the tank constructions.

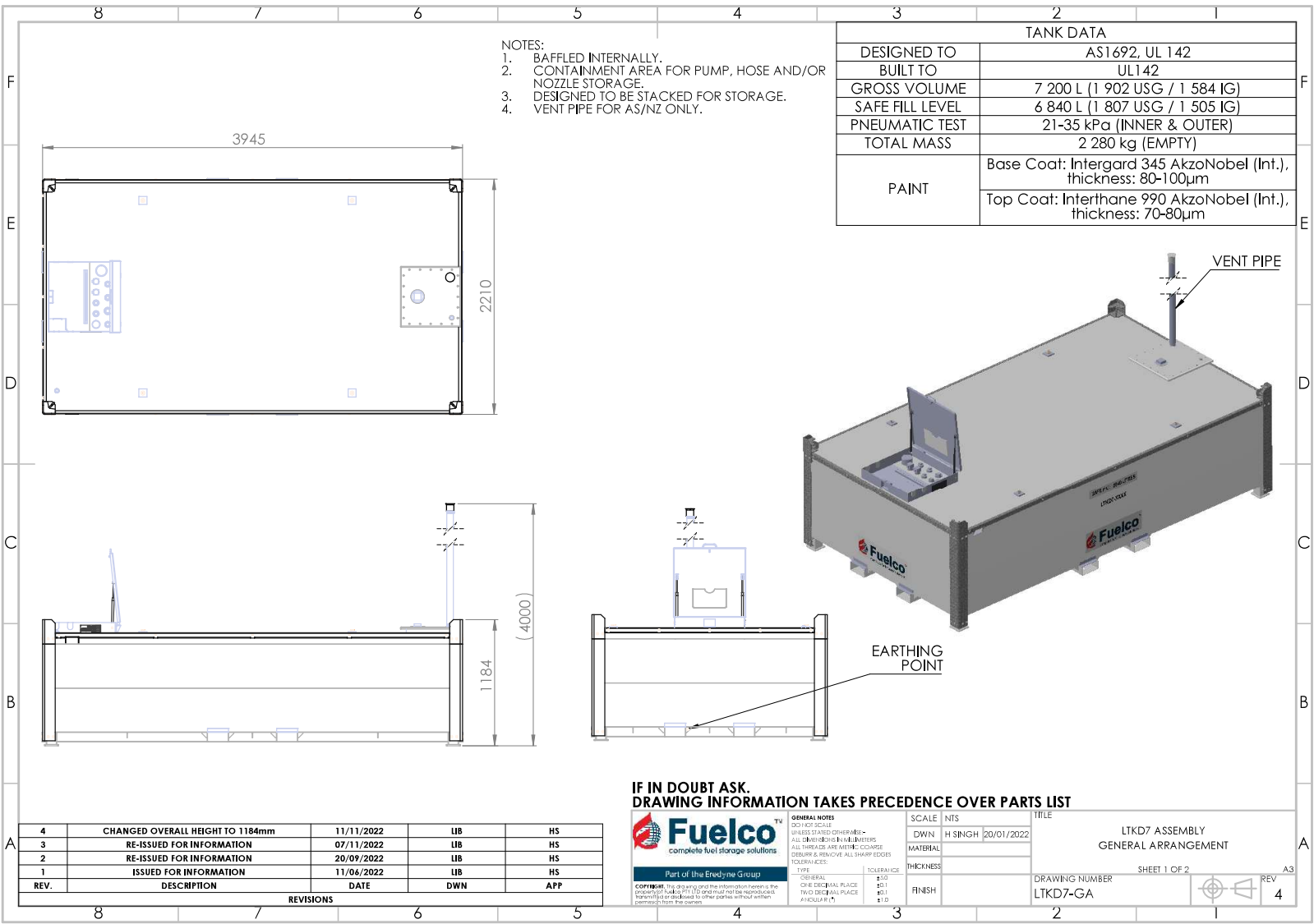
Additional Openings - Openings in the primary tank, in addition to the vents, shall be provided in the top of the tank above the normal maximum liquid level for connection of fill piping and monitoring. All openings shall employ fittings constructed in accordance with the appropriate Standard. Fitting locations may vary from the location shown in the illustrations.

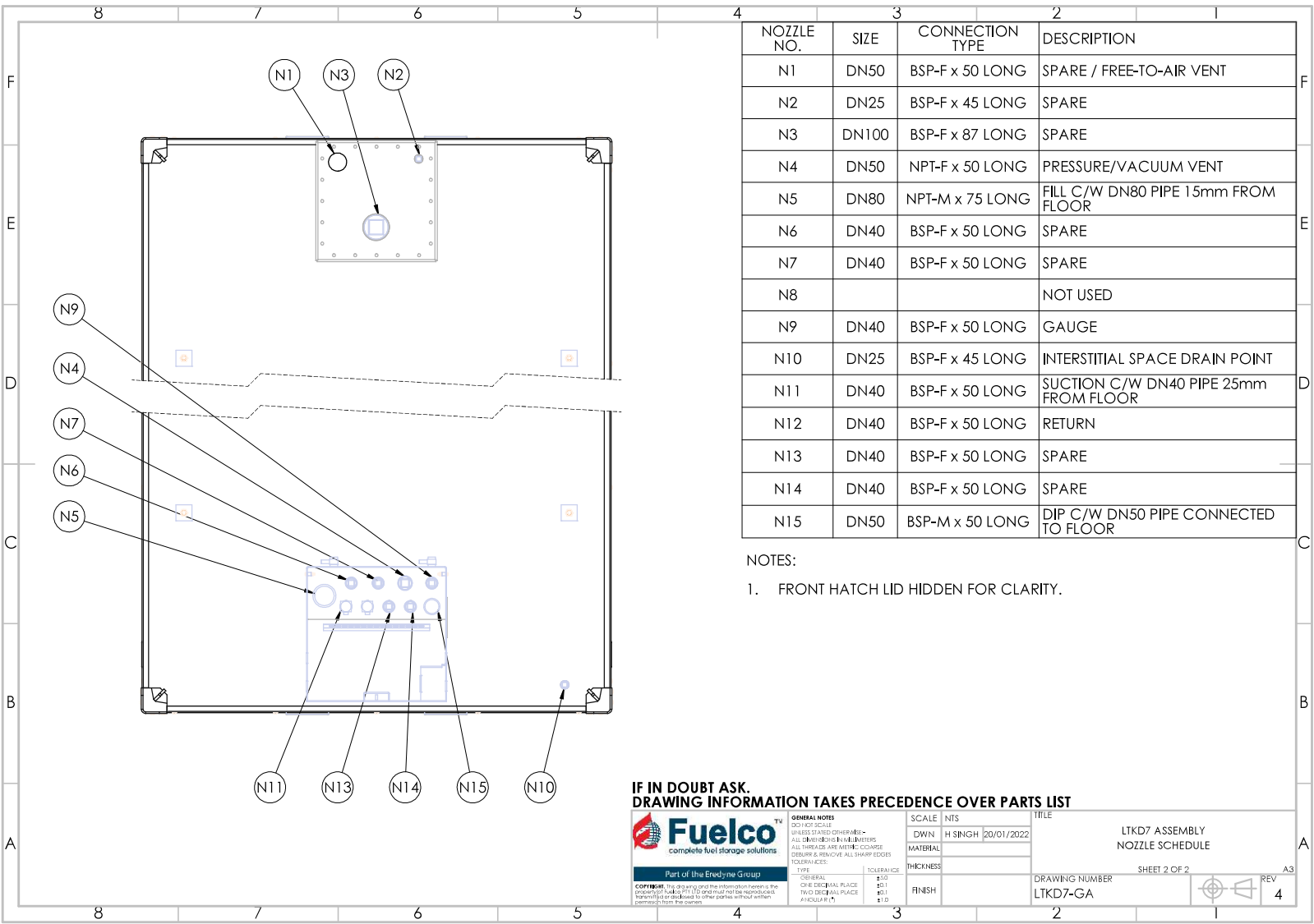
Manholes - The manhole shall be constructed in accordance with Section 9 of the Standard.

Lifting Fittings - The number of lift lugs installed multiplied by the load rating per lift lug (575 kgs) shall be equal to or greater than the empty weight of the tank.

Mounting brackets shall not exceed an area of 4.0 square feet.

The following Page(s) are related to Illustration-1. The next supplement, if applicable, will be identified with a new Supplement Page Heading.





NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	DN50	BSP-F x 50 LONG	SPARE / FREE-TO-AIR VENT
N2	DN25	BSP-F x 45 LONG	SPARE
N3	DN100	BSP-F x 87 LONG	SPARE
N4	DN50	NPT-F x 50 LONG	PRESSURE/VACUUM VENT
N5	DN80	NPT-M x 75 LONG	FILL C/W DN80 PIPE 15mm FROM FLOOR
N6	DN40	BSP-F x 50 LONG	SPARE
N7	DN40	BSP-F x 50 LONG	SPARE
N8			NOT USED
N9	DN40	BSP-F x 50 LONG	GAUGE
N10	DN25	BSP-F x 45 LONG	INTERSTITIAL SPACE DRAIN POINT
N11	DN40	BSP-F x 50 LONG	SUCTION C/W DN40 PIPE 25mm FROM FLOOR
N12	DN40	BSP-F x 50 LONG	RETURN
N13	DN40	BSP-F x 50 LONG	SPARE
N14	DN40	BSP-F x 50 LONG	SPARE
N15	DN50	BSP-M x 50 LONG	DIP C/W DN50 PIPE CONNECTED TO FLOOR

- NOTES:
1. FRONT HATCH LID HIDDEN FOR CLARITY.

IF IN DOUBT ASK.
DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST



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GENERAL NOTES

DO NOT SCALE
UNLESS STATED OTHERWISE
ALL DIMENSIONS IN MILLIMETERS
ALL THREADS ARE METRIC COARSE
DEBUR & REMOVE ALL SHARP EDGES
TOLERANCES:

TYPE	TOLERANCE
GENERAL	±0.5
ONE DECIMAL PLACE	±0.1
TWO DECIMAL PLACE	±0.05
ANGULAR (°)	±1.0

SCALE	NTS
DWN	H SINGH 20/01/2022
MATERIAL	
THICKNESS	
FINISH	

TITLE

LTKD7 ASSEMBLY
NOZZLE SCHEDULE

DRAWING NUMBER

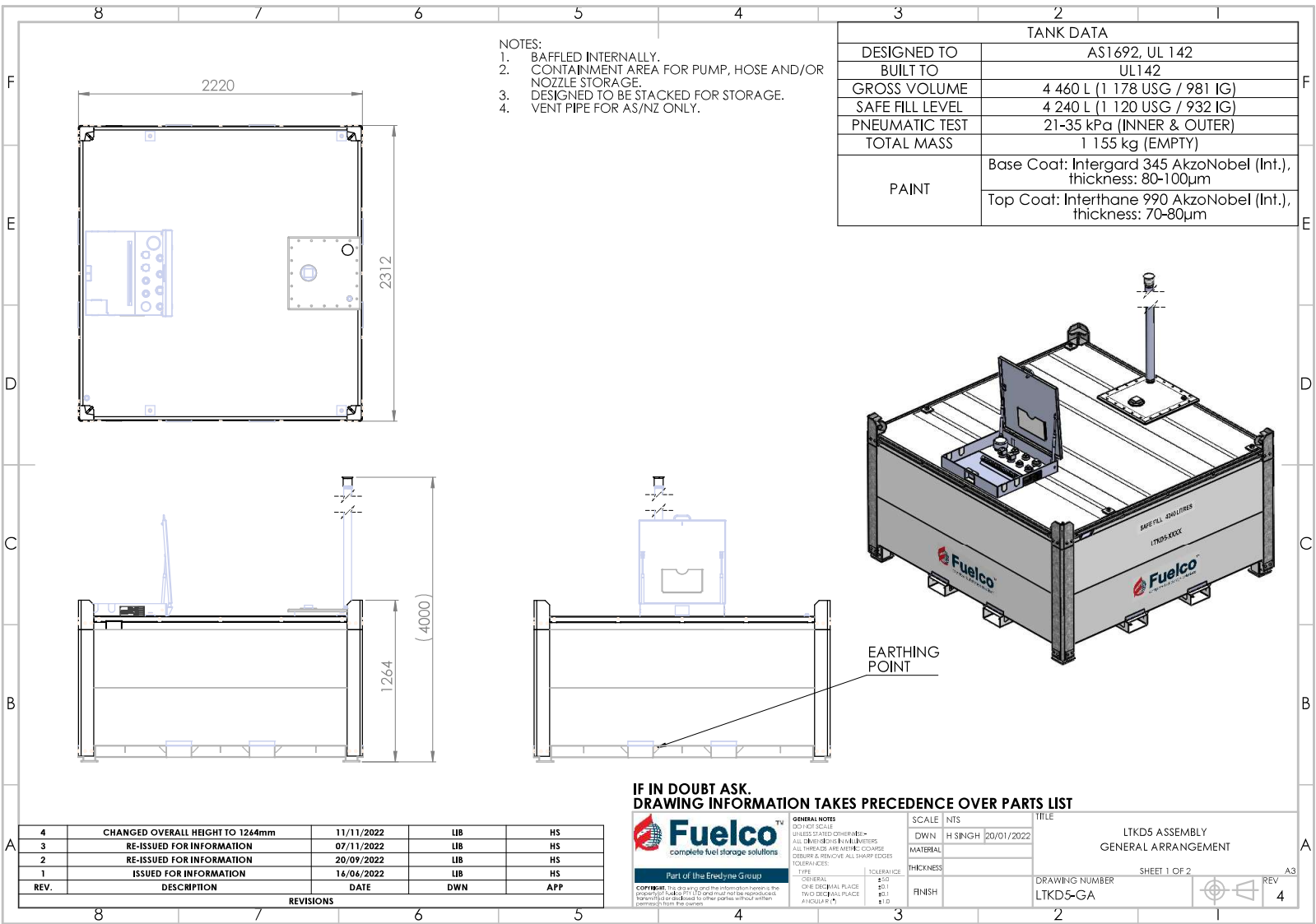
LTKD7-GA

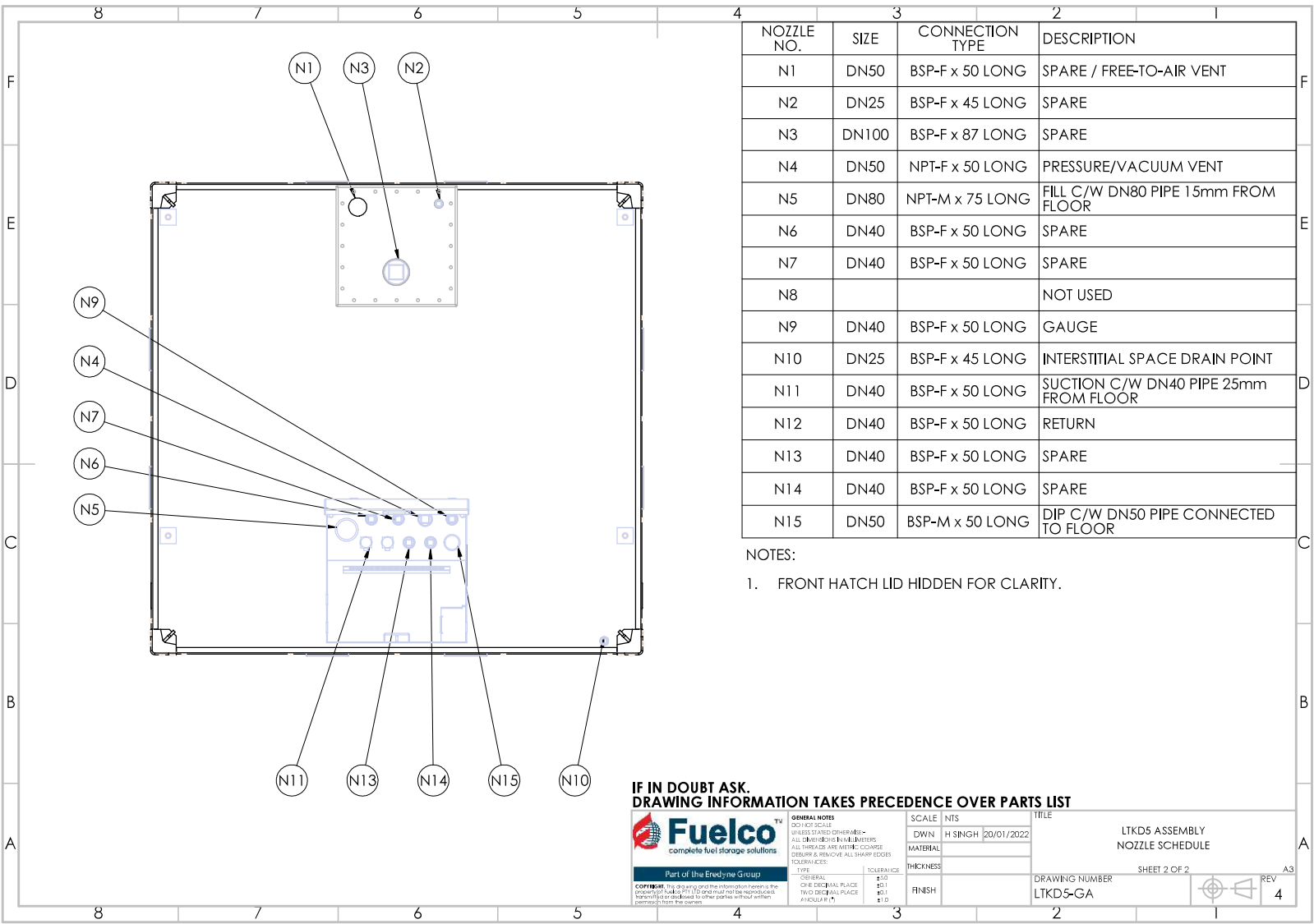
SHEET 2 OF 2

REV

4

A3





NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	DN50	BSP-F x 50 LONG	SPARE / FREE-TO-AIR VENT
N2	DN25	BSP-F x 45 LONG	SPARE
N3	DN100	BSP-F x 87 LONG	SPARE
N4	DN50	NPT-F x 50 LONG	PRESSURE/VACUUM VENT
N5	DN80	NPT-M x 75 LONG	FILL C/W DN80 PIPE 15mm FROM FLOOR
N6	DN40	BSP-F x 50 LONG	SPARE
N7	DN40	BSP-F x 50 LONG	SPARE
N8			NOT USED
N9	DN40	BSP-F x 50 LONG	GAUGE
N10	DN25	BSP-F x 45 LONG	INTERSTITIAL SPACE DRAIN POINT
N11	DN40	BSP-F x 50 LONG	SUCTION C/W DN40 PIPE 25mm FROM FLOOR
N12	DN40	BSP-F x 50 LONG	RETURN
N13	DN40	BSP-F x 50 LONG	SPARE
N14	DN40	BSP-F x 50 LONG	SPARE
N15	DN50	BSP-M x 50 LONG	DIP C/W DN50 PIPE CONNECTED TO FLOOR

- NOTES:
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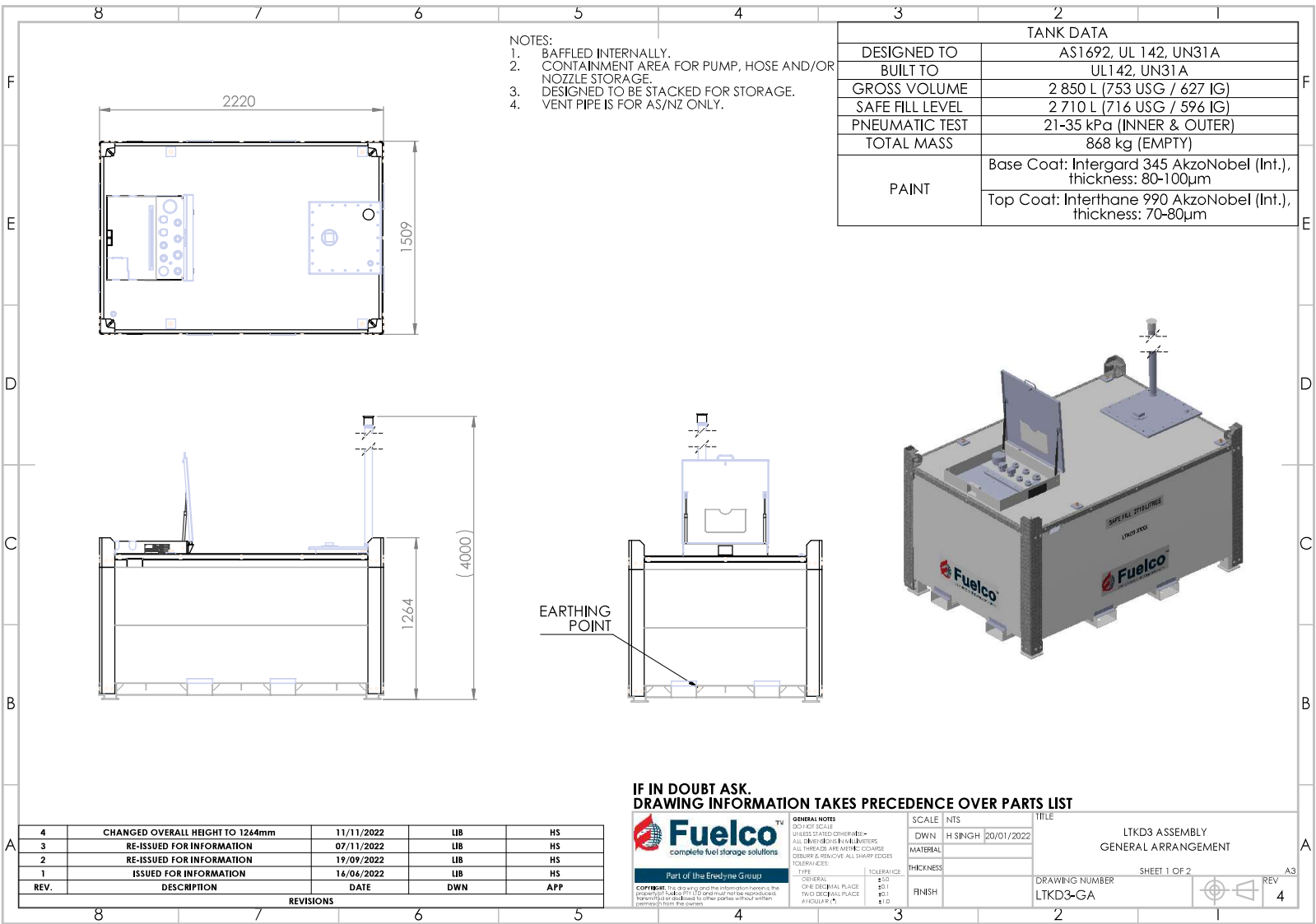
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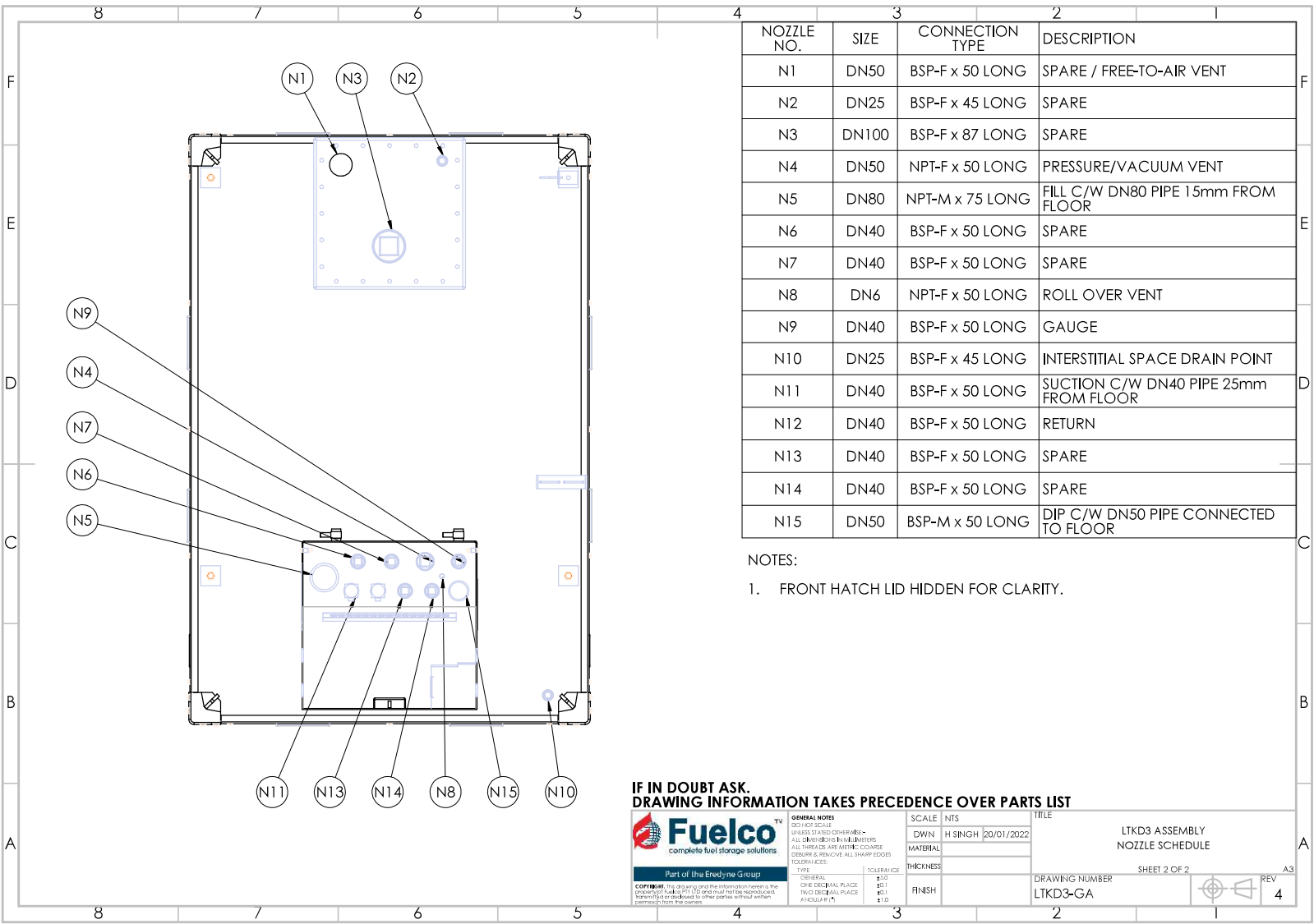
DO NOT SCALE
UNLESS STATED OTHERWISE
ALL DIMENSIONS IN MILLIMETERS
ALL THREADS ARE METRIC COARSE
DEBURK & REMOVE ALL SHARP EDGES
TOLERANCES:

TYPE	TOLERANCE
GENERAL	±0.5
ONE DECIMAL PLACE	±0.1
TWO DECIMAL PLACE	±0.05
ANGULAR (°)	±1.0

SCALE	NTS
DWN	H SINGH 20/01/2022
MATERIAL	
THICKNESS	
FINISH	

TITLE	LTKD5 ASSEMBLY NOZZLE SCHEDULE
DRAWING NUMBER	LTKD5-GA
SHEET 2 OF 2	REV 4





NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	DN50	BSP-F x 50 LONG	SPARE / FREE-TO-AIR VENT
N2	DN25	BSP-F x 45 LONG	SPARE
N3	DN100	BSP-F x 87 LONG	SPARE
N4	DN50	NPT-F x 50 LONG	PRESSURE/VACUUM VENT
N5	DN80	NPT-M x 75 LONG	FILL C/W DN80 PIPE 15mm FROM FLOOR
N6	DN40	BSP-F x 50 LONG	SPARE
N7	DN40	BSP-F x 50 LONG	SPARE
N8	DN6	NPT-F x 50 LONG	ROLL OVER VENT
N9	DN40	BSP-F x 50 LONG	GAUGE
N10	DN25	BSP-F x 45 LONG	INTERSTITIAL SPACE DRAIN POINT
N11	DN40	BSP-F x 50 LONG	SUCTION C/W DN40 PIPE 25mm FROM FLOOR
N12	DN40	BSP-F x 50 LONG	RETURN
N13	DN40	BSP-F x 50 LONG	SPARE
N14	DN40	BSP-F x 50 LONG	SPARE
N15	DN50	BSP-M x 50 LONG	DIP C/W DN50 PIPE CONNECTED TO FLOOR

- NOTES:
- FRONT HATCH LID HIDDEN FOR CLARITY.

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TWO DECIMAL PLACE	±0.05
ANGULAR (°)	±1.0

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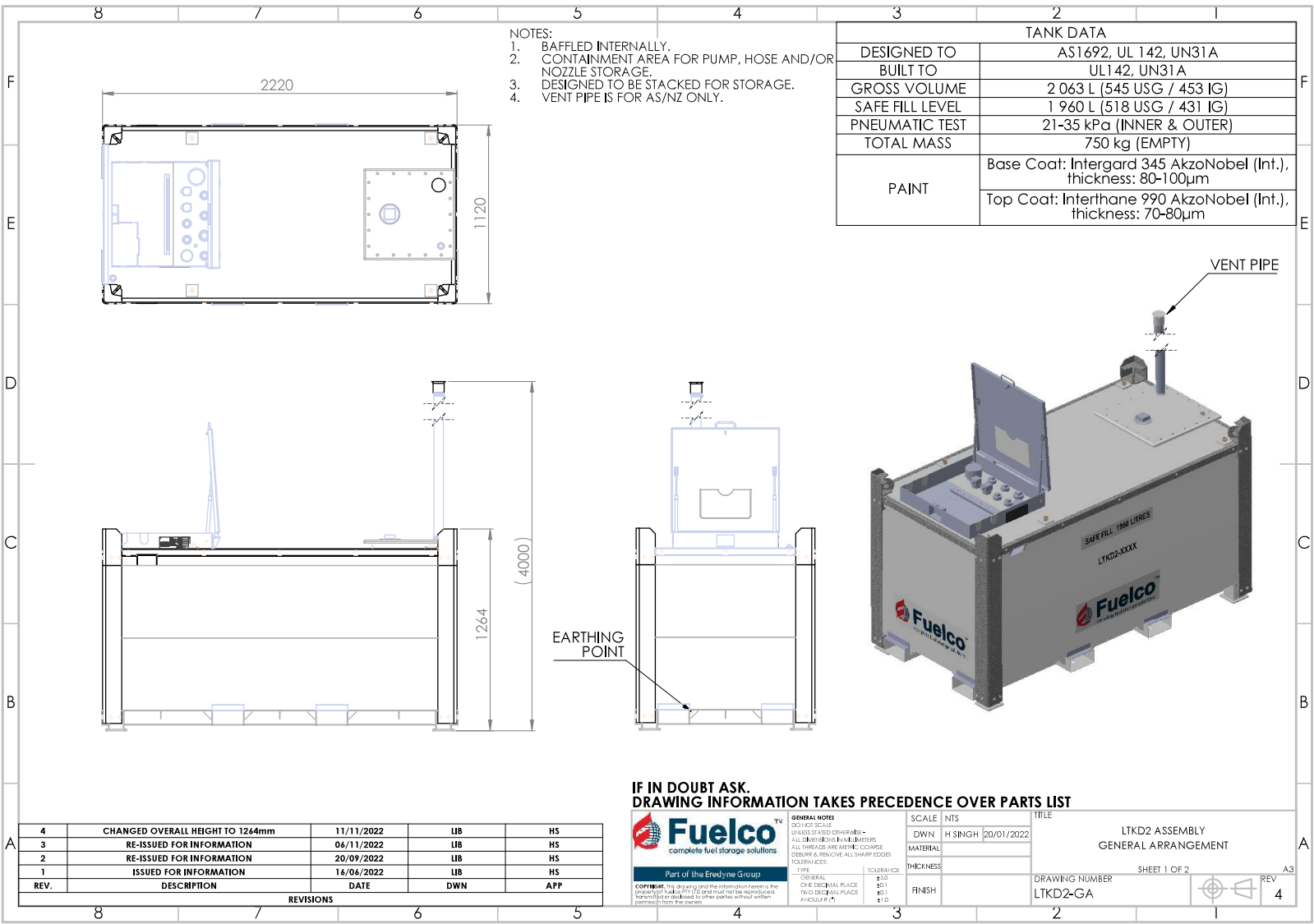
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THICKNESS		
FINISH		

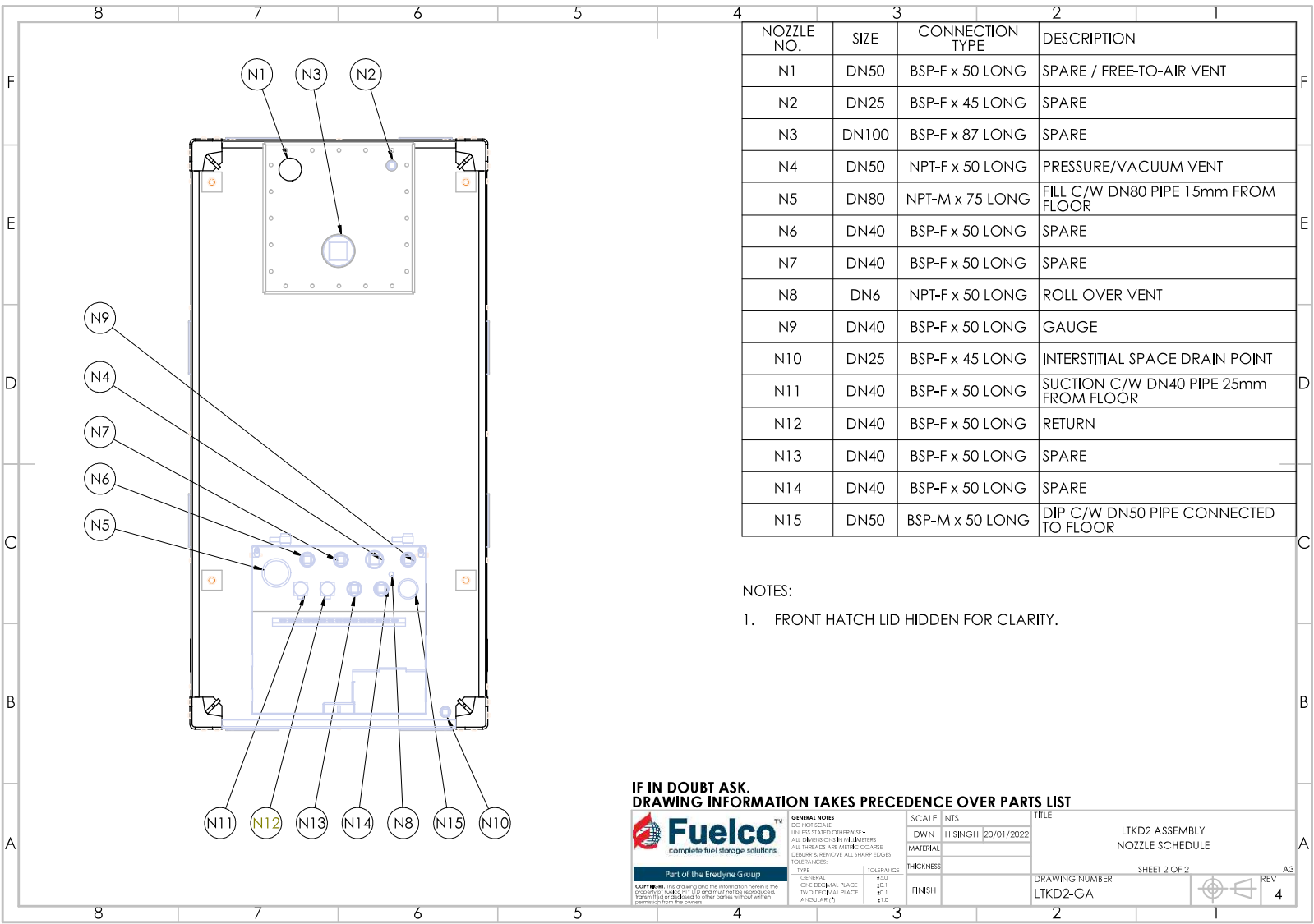
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SHEET 2 OF 2

DRAWING NUMBER: LTKD3-GA

REV: 4





NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	DN50	BSP-F x 50 LONG	SPARE / FREE-TO-AIR VENT
N2	DN25	BSP-F x 45 LONG	SPARE
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N11	DN40	BSP-F x 50 LONG	SUCTION C/W DN40 PIPE 25mm FROM FLOOR
N12	DN40	BSP-F x 50 LONG	RETURN
N13	DN40	BSP-F x 50 LONG	SPARE
N14	DN40	BSP-F x 50 LONG	SPARE
N15	DN50	BSP-M x 50 LONG	DIP C/W DN50 PIPE CONNECTED TO FLOOR

NOTES:
1. FRONT HATCH LID HIDDEN FOR CLARITY.

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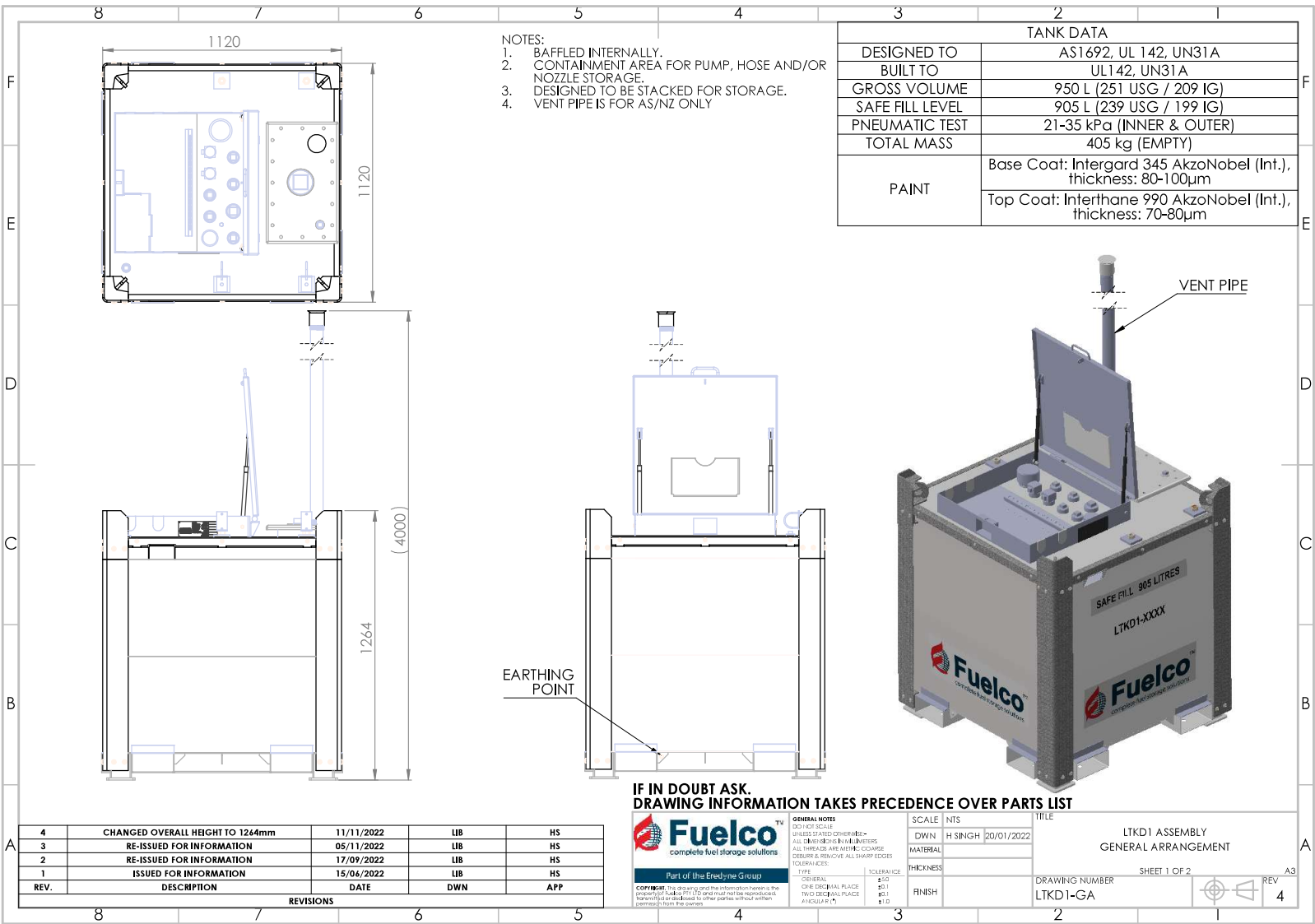
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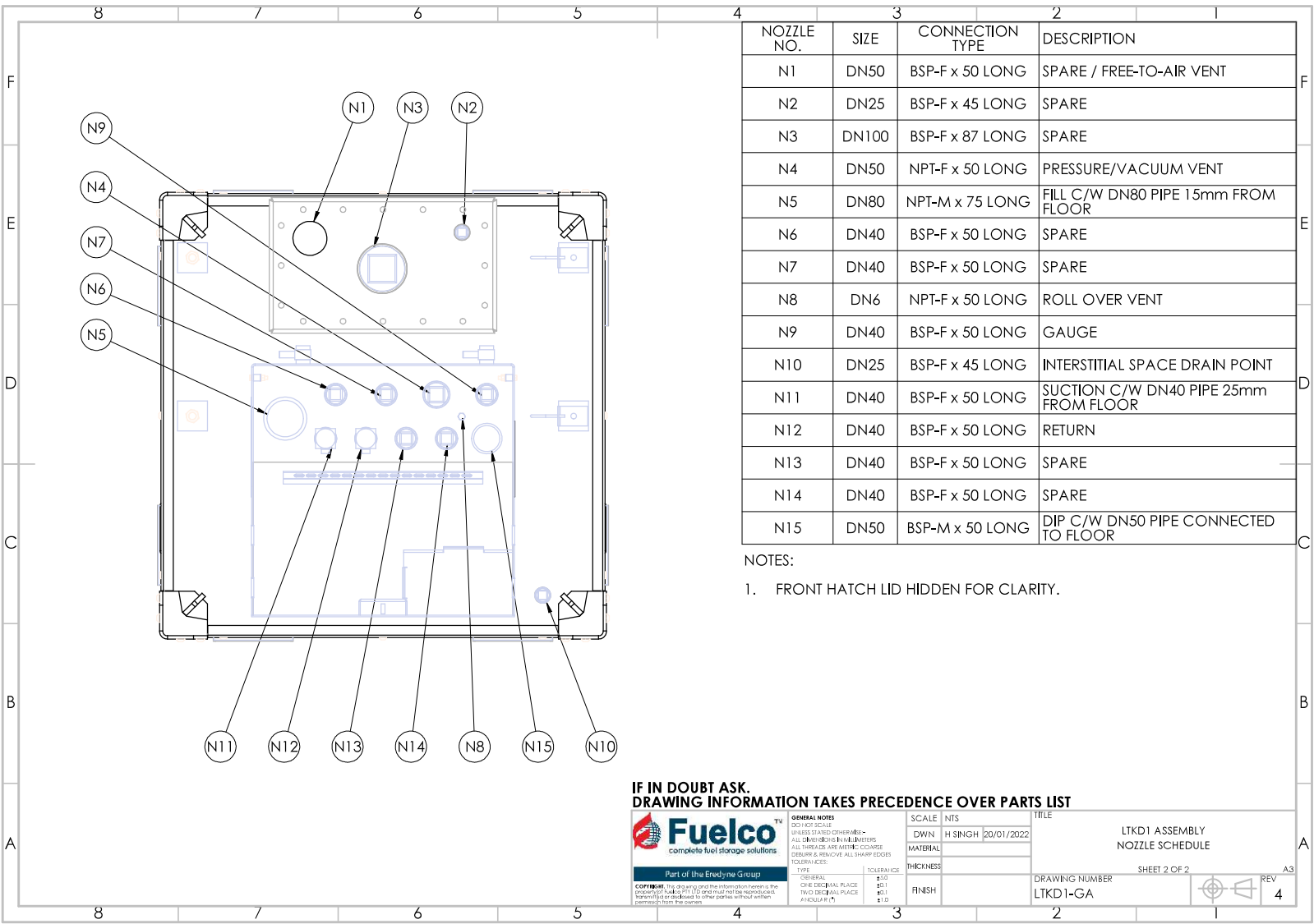
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ANGULAR (°)	±1.0

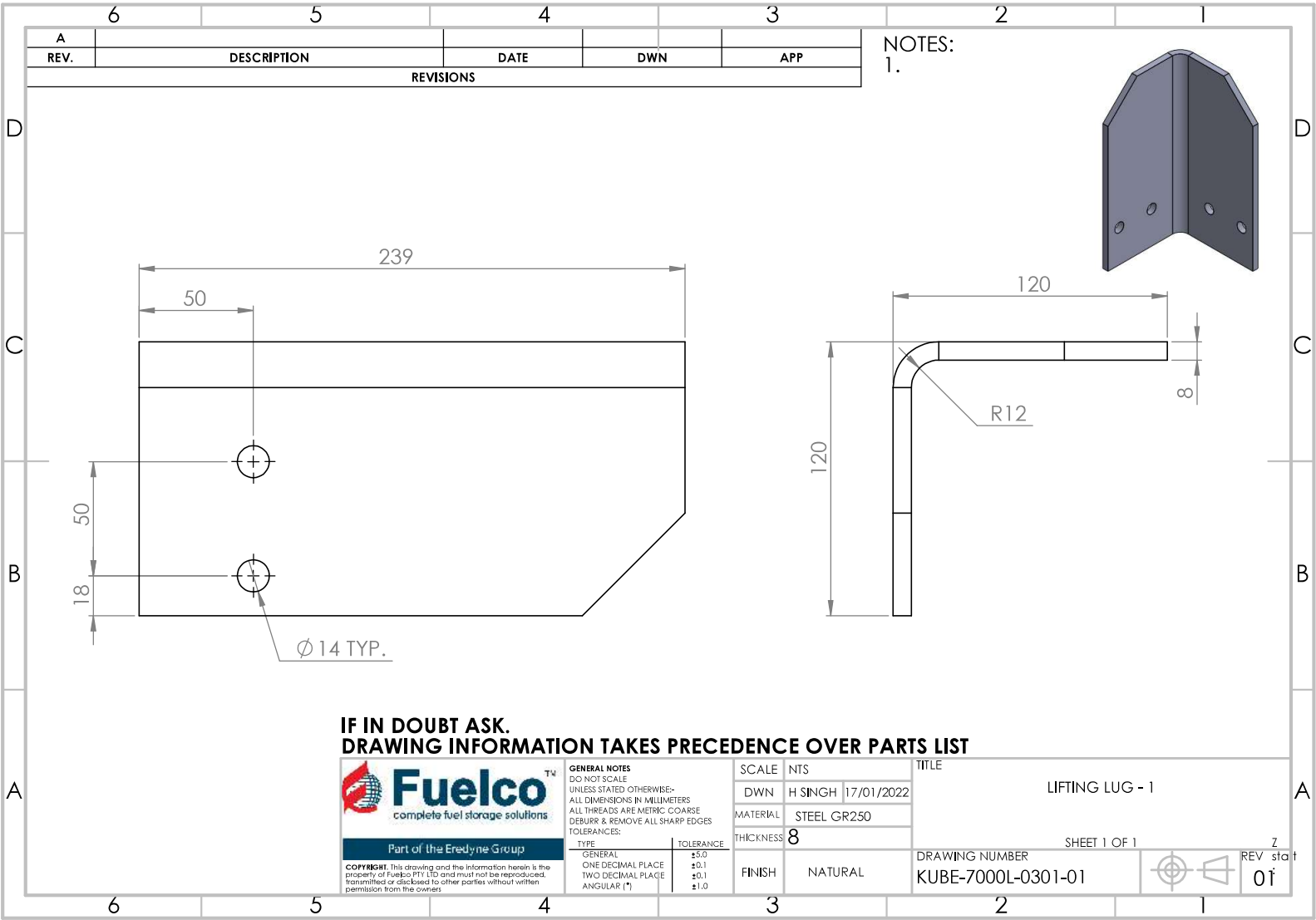
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MATERIAL	
THICKNESS	
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SHEET 2 OF 2	REV 4

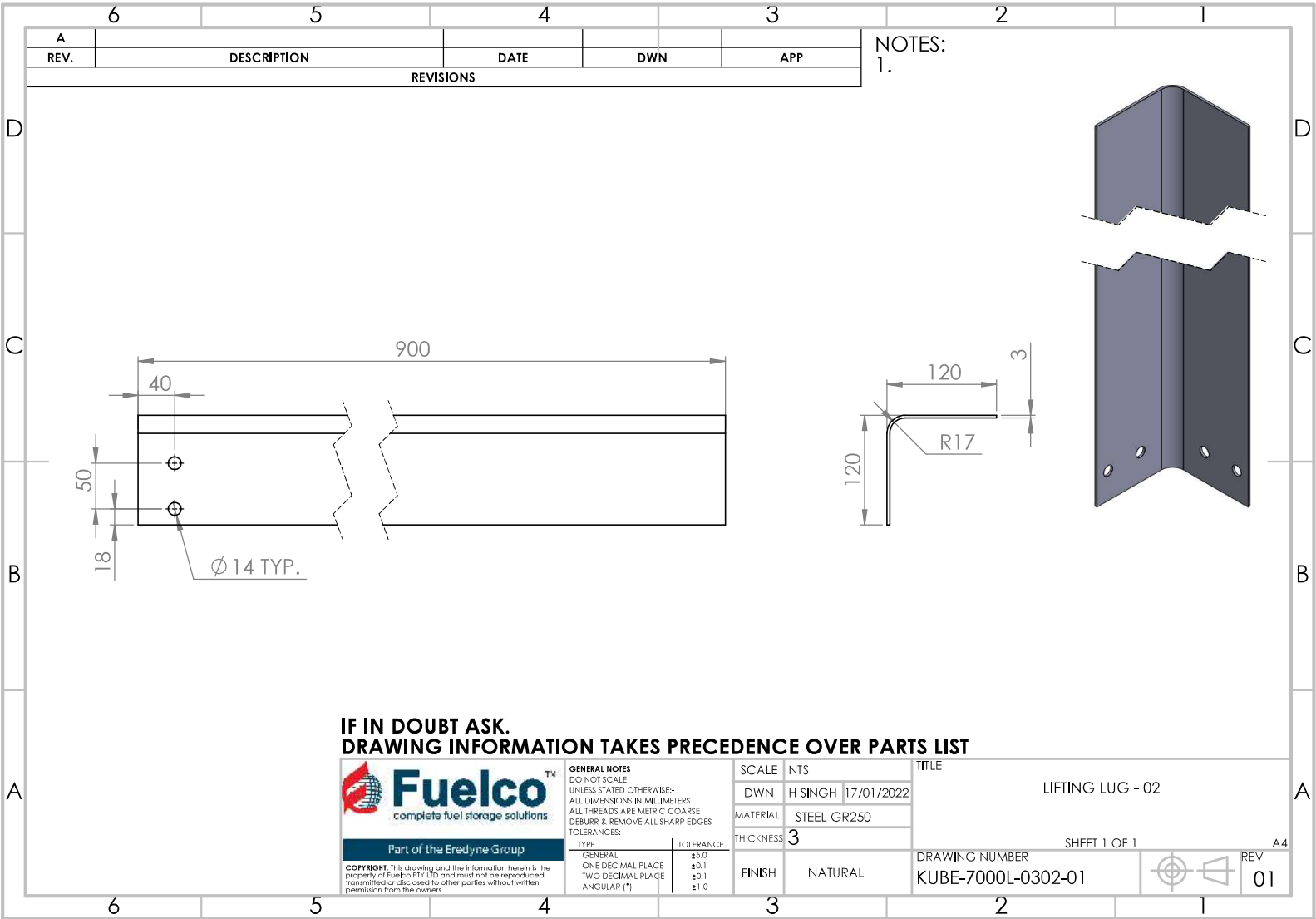




The following Page(s) are related to Illustration-2. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



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NOTES:
1.

IF IN DOUBT ASK.
DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

Fuelco TV
complete fuel storage solutions

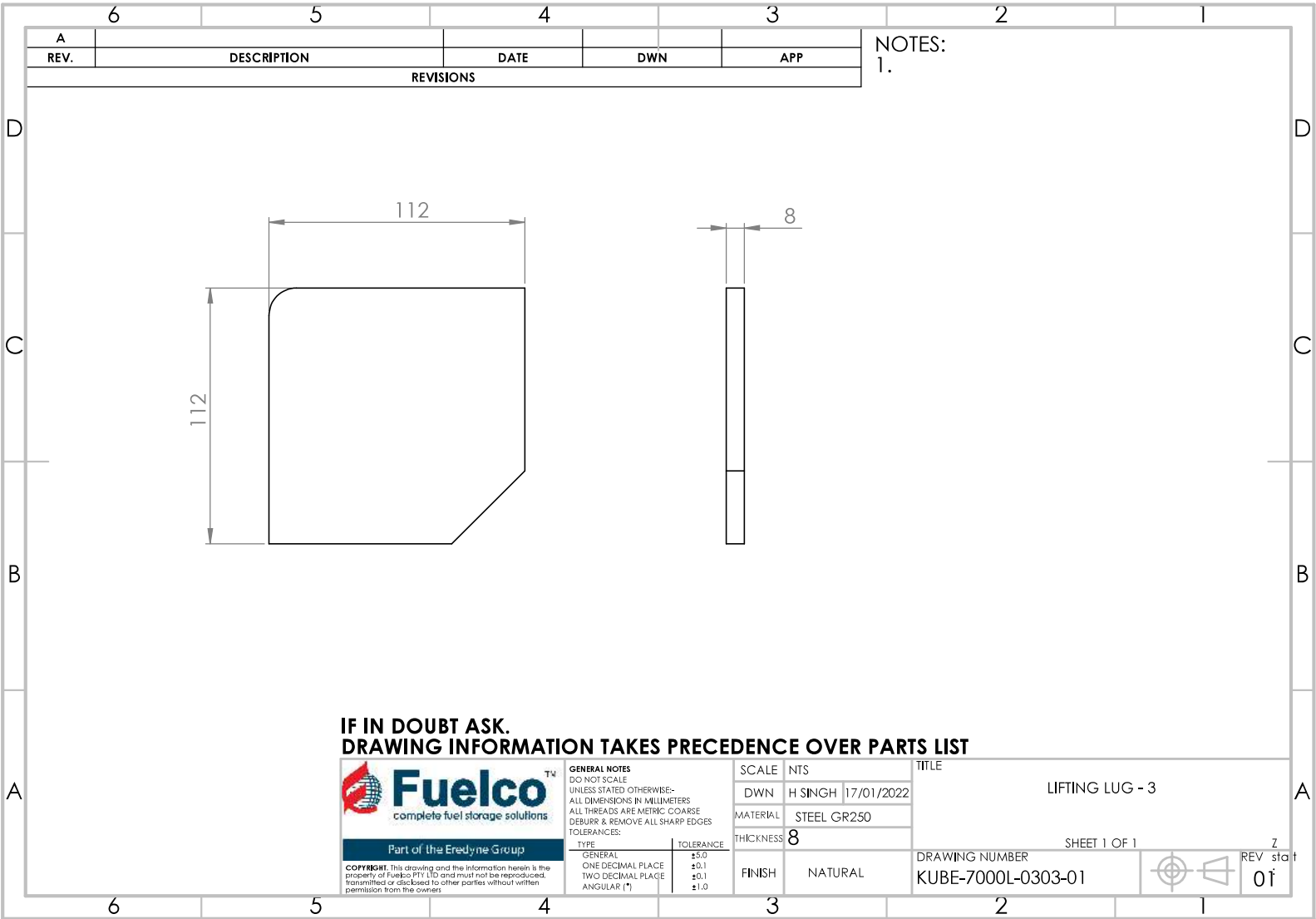
Part of the Eredyne Group

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GENERAL NOTES	
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TOLERANCES:	
TYPE	TOLERANCE
GENERAL	±0.0
ONE DECIMAL PLACE	±0.1
TWO DECIMAL PLACE	±0.1
ANGULAR (°)	±1.0

SCALE	NTS
DWN	H SINGH 17/01/2022
MATERIAL	STEEL GR250
THICKNESS	3
FINISH	NATURAL

TITLE	
LIFTING LUG - 02	
SHEET 1 OF 1	
DRAWING NUMBER	
KUBE-7000L-0302-01	
REV	
01	



NOTES:
1.

IF IN DOUBT ASK.
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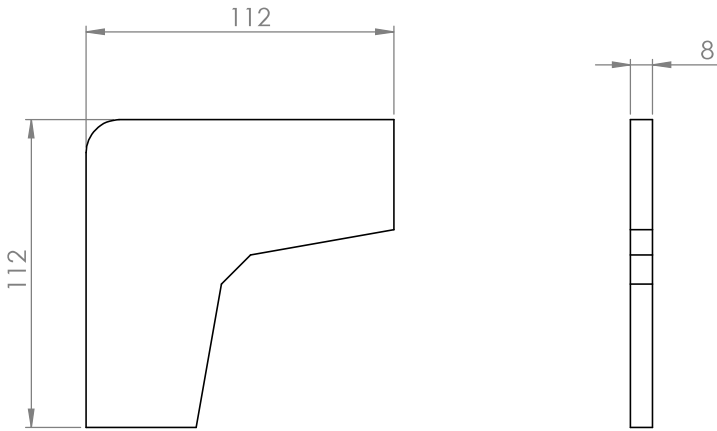
GENERAL NOTES	
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ALL THREADS ARE METRIC COARSE	
DEBURR & REMOVE ALL SHARP EDGES	
TOLERANCES:	
TYPE	TOLERANCE
GENERAL	±0.0
ONE DECIMAL PLACE	±0.1
TWO DECIMAL PLACE	±0.1
ANGULAR (°)	±1.0

SCALE	NTS
DWN	H SINGH 17/01/2022
MATERIAL	STEEL GR250
THICKNESS	8
FINISH	NATURAL

TITLE	
LIFTING LUG - 3	
DRAWING NUMBER	
KUBE-7000L-0303-01	
SHEET 1 OF 1	
REV	stat
01	



D:\My Work\2021\Kubes\CAD\Final CAD 7000L-



NOTES:
1.

IF IN DOUBT ASK.
DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST



Part of the Eredyne Group

COPYRIGHT: This drawing and the information herein is the property of Fuelco PVT LTD and must not be reproduced, transmitted or disclosed to other parties without written permission from the owners

GENERAL NOTES
DO NOT SCALE
UNLESS STATED OTHERWISE:-
ALL DIMENSIONS IN MILLIMETERS
ALL THREADS ARE METRIC COARSE
DEBURR & REMOVE ALL SHARP EDGES
TOLERANCES:

TYPE	TOLERANCE
GENERAL	±5.0
ONE DECIMAL PLACE	±0.1
TWO DECIMAL PLACE	±0.1
ANGULAR (°)	±1.0

SCALE	NTS
DWN	H SINGH 17/01/2022
MATERIAL	STEEL GR250
THICKNESS	8
FINISH	NATURAL

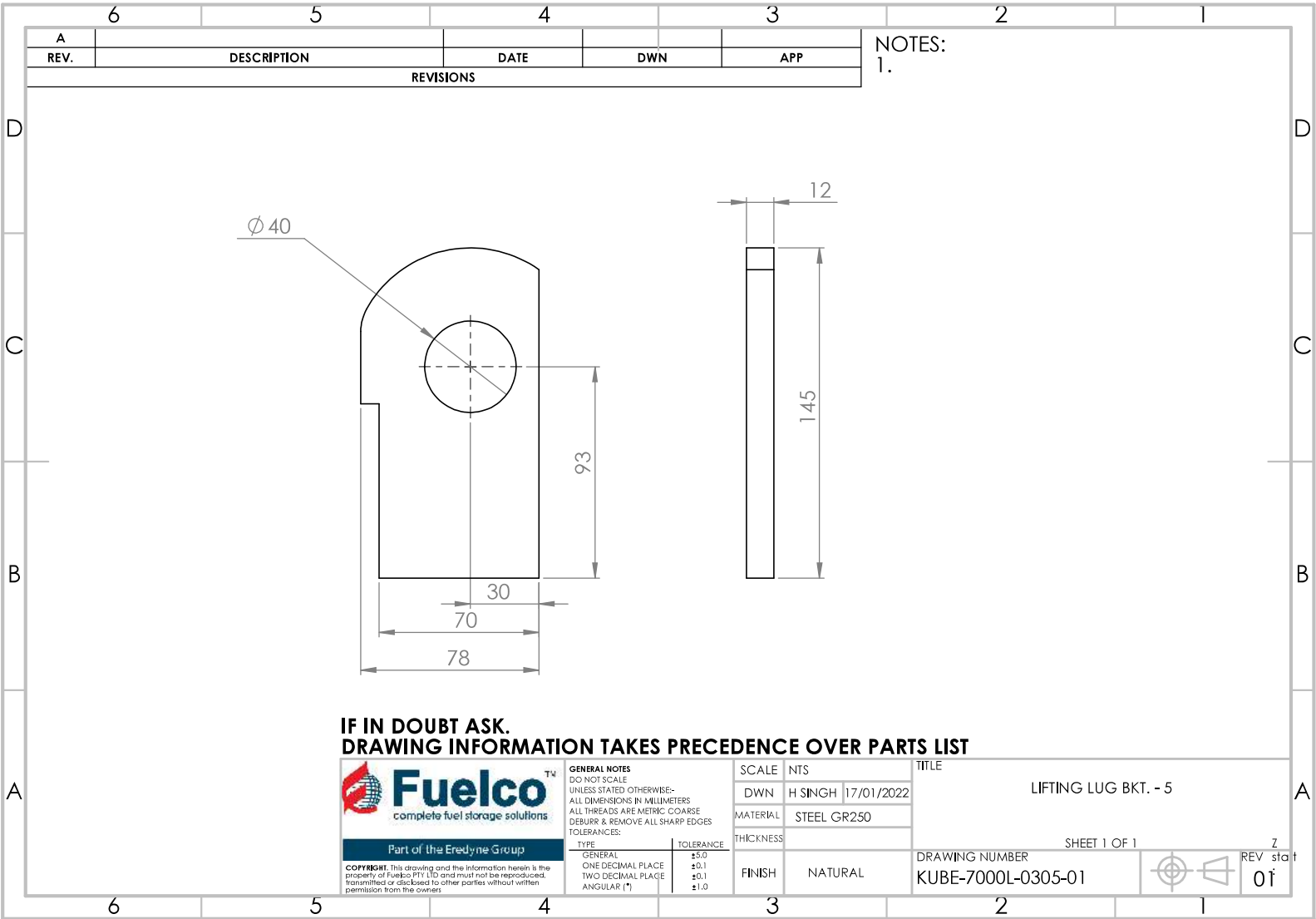
TITLE
LIFTING LUG BKT. - 4

DRAWING NUMBER
KUBE-7000L-0304-01

SHEET 1 OF 1

REV stat
01

D:\My Work\2021\Kubes\CAD\Final CAD 7000L-



NOTES:
1.

IF IN DOUBT ASK.
DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

Fuelco TV
complete fuel storage solutions

Part of the Eredyne Group

COPYRIGHT: This drawing and the information herein is the property of Fuelco PVT LTD and must not be reproduced, transmitted or disclosed to other parties without written permission from the owners

GENERAL NOTES	
DO NOT SCALE	
UNLESS STATED OTHERWISE:-	
ALL DIMENSIONS IN MILLIMETERS	
ALL THREADS ARE METRIC COARSE	
DEBURR & REMOVE ALL SHARP EDGES	
TOLERANCES:	
TYPE	TOLERANCE
GENERAL	±0.0
ONE DECIMAL PLACE	±0.1
TWO DECIMAL PLACE	±0.1
ANGULAR (°)	±1.0

SCALE	NTS
DWN	H SINGH 17/01/2022
MATERIAL	STEEL GR250
THICKNESS	
FINISH	NATURAL

TITLE	LIFTING LUG BKT. - 5
DRAWING NUMBER	KUBE-7000L-0305-01
SHEET 1 OF 1	
REV	stat
01	

TEST RECORD NO. 1

SAMPLES:

A sample of the aboveground rectangular closed top diked tank as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

GENERAL:

The following tests were conducted:

Tank Leakage Test:	UL142 Section 42
Hydrostatic Strength Test:	UL142 Section 43
Top Load Test:	UL142 Section 44
Buoyancy Test:	UL142 Section 45
Hydrostatic Load Test:	UL142 Section 46
Tank Support Load Test:	UL142 Section 47
Lift Lug Test:	UL142 Section 48

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in UL 142 Standard For Steel Aboveground Tanks For Flammable And Combustible Liquids, 10th Edition, Revision Date 2021-01-21 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

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.

TEST RECORD NO. 2

SAMPLES:

No sample was submitted. Canadian listing was added with respect to the standard CAN/ULC-S601, Standard for Shop Fabricated Steel Aboveground Tanks for Flammable and Combustible Liquids. ILL. 1 was revised with minor modification of front hatch.

GENERAL:

Due to the same construction design and dimensions, engineering judgment was used to determine that the modification of the front hatch does not warrant conduct of any other tests.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in UL 142 Standard For Steel Aboveground Tanks For Flammable And Combustible Liquids, 10th Edition, Revision Date 2021-01-21 and CAN/ULC-S601, Standard for Shop Fabricated Steel Aboveground Tanks for Flammable and Combustible Liquids, Edition 5, Revision Date 10/20/2021 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report. 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.

Report by:
Alvin Chai
Project Engineer

Reviewed by:
Wayne Doversberger
Senior Staff Engineer

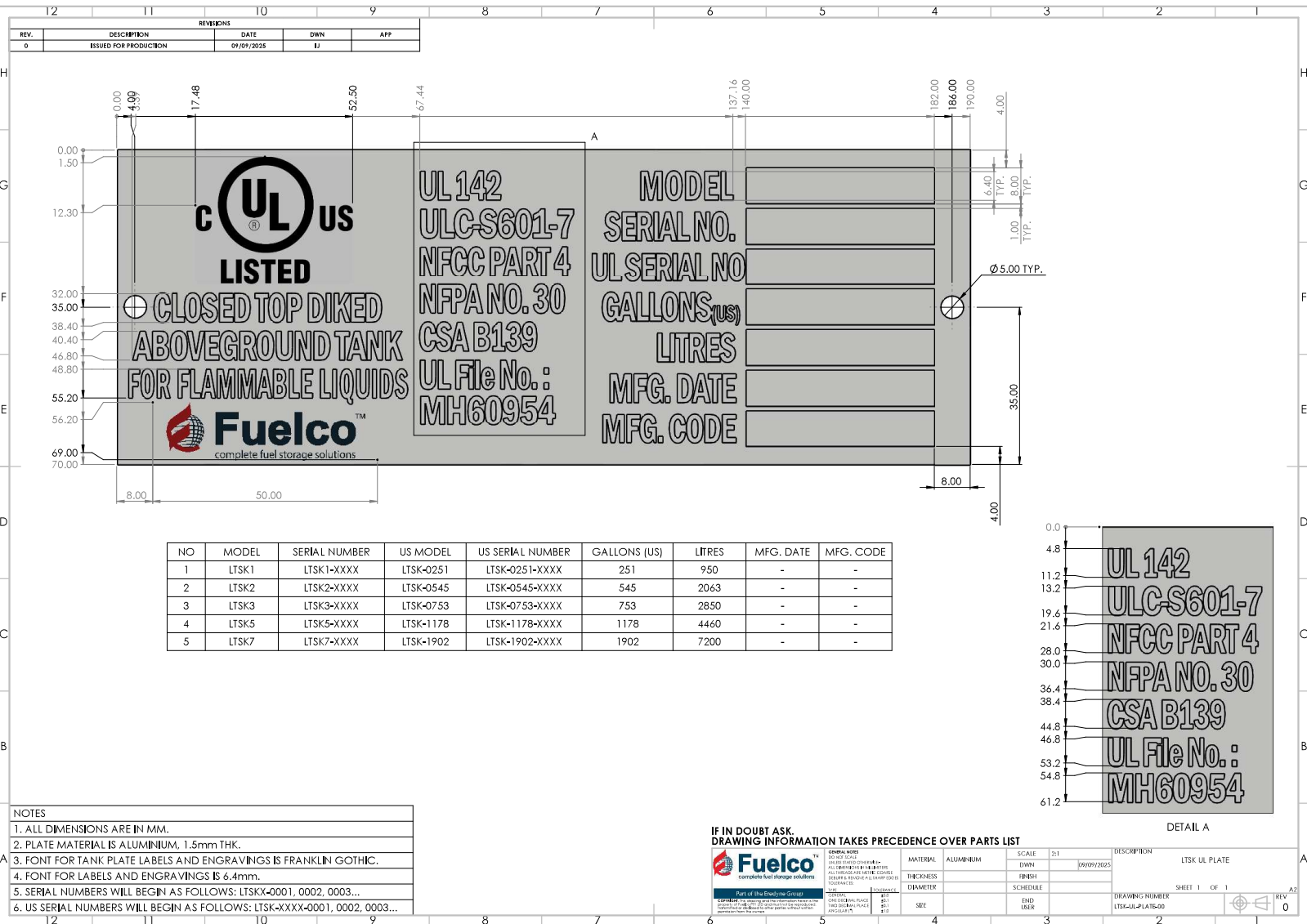
CONCLUSION

A sample of the product covered by this Report has been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Certification Mark of UL on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Certification Mark of UL on the product, or the UL symbol on the product and the Certification Mark of UL on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

This Report is intended solely for the use of UL LLC (UL) and the Applicant for establishment of UL certification coverage of the described product(s) under UL's Follow-Up Service. UL retains all rights, title and interest (including exclusive ownership) in this Report and all copyright therein. The Applicant or its designated agent shall not disclose or otherwise distribute this Report or its contents to any third party, except as required for purposes of compliance with laws, regulations, or other existing agreements or schemes in which UL is currently a participant. Any other use of this Report including, without limitation, evaluation or certification by a party other than UL is prohibited and renders the Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of, or in connection with, the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. UL shall not otherwise be responsible to anyone for the use of or reliance upon the contents of this Report.

Report by:
Alvin Chai
Project Engineer

Reviewed by:
Wayne Doversberger
Senior Staff Engineer



REV.		DESCRIPTION	REVISIONS	DATE	DWN	APP
0		ISSUED FOR PRODUCTION		09/09/2025	IJ	

REV.		DESCRIPTION	REVISIONS	DATE	DWN	APP
0		ISSUED FOR PRODUCTION		09/09/2025	IJ	

NOTES

1. ALL DIMENSIONS ARE IN MM.

2. PLATE MATERIAL IS ALUMINIUM, 1.5mm THK.

3. FONT FOR TANK PLATE LABELS AND ENGRAVINGS IS FRANKLIN GOTHIC.

4. FONT FOR LABELS AND ENGRAVINGS IS 6.4mm.

5. SERIAL NUMBERS WILL BEGIN AS FOLLOWS: LTSKX-0001, 0002, 0003...

6. US SERIAL NUMBERS WILL BEGIN AS FOLLOWS: LTSK-XXXX-0001, 0002, 0003...

IF IN DOUBT ASK.
DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

REV.		DESCRIPTION	REVISIONS	DATE	DWN	APP
0		ISSUED FOR PRODUCTION		09/09/2025	IJ	

REV.		DESCRIPTION	REVISIONS	DATE	DWN	APP
0		ISSUED FOR PRODUCTION		09/09/2025	IJ	



REV.		DESCRIPTION	REVISIONS	DATE	DWN	APP
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REV.		DESCRIPTION	REVISIONS	DATE	DWN	APP
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REV.		DESCRIPTION	REVISIONS	DATE	DWN	APP
0		ISSUED FOR PRODUCTION		09/09/2025	IJ	

June 10 2025

Charl Human
Eredyne Group Pty Ltd
29 Kitchen Road
Dandenong South, Victoria, 3175, AU

Notice of Completion (NoC) and requirement for Initial Production Inspection (IPI)

Your reference: 00012621
Our reference: File MH60954

Order: 15803673
Project: 4791772013

Project scope:

Dear Charl Human:

We appreciate that you have a choice of certification providers and thank you for choosing UL Solutions. We have completed the investigation under the above project and confirmed compliance of your product(s) with UL and ULC Marks requirements.

Products that bear the UL and ULC Marks must be identical to those submitted to UL for evaluation and certification and must comply with the Follow-Up Services Procedure covering your product(s). Additional requirements related to the responsibilities of the Applicant and Manufacturer can be found under **Customer Requirements documents** at www.ul.com/fus.

A UL Solutions certification is a valuable marketing tool meaning your product or company has successfully met stringent requirements. We encourage you to use your UL and ULC Marks and certification in your marketing activities. We are happy to provide guidance on how best to promote your UL certification. Our [Certification Achievement Kit](#) demonstrates marketing and promotional concepts to help you best represent your UL certification.

UL Solutions is committed to providing you with an exceptional customer experience. You may receive an email from ULSurvey@feedback.ul.com inviting you to provide feedback. Your survey rankings and comments regarding the experience are important to us. We are always seeking ways to improve in any areas we can, and your feedback and comments are vital to this process.

If you have any questions, please contact me or any of our customer service representatives at www.ul.com/contact-us.

Sincerely,

Madhusudan Desai
Engineer Project Associate
UL Solutions
Madhusudan.Desai@ul.com

David Piecuch
UL Mark Certification Program Manager
UL LLC
David.Piecuch@ul.com

a134ac561dc744f1986c44fa976300f1

Gunsimar Paintal
ULC Mark Certification Program Manager
Underwriters Laboratories of Canada Inc.
Gunsimar.Paintal@ul.com



Our Ref. DOC/22/127029
Via Email – Original will not be sent
22 August 2022

Mr John Rush
Managing Director
Eredyne Group Pty Ltd.
8 Yazaki Way
Carrum Downs VIC 3201

Dear Mr Rush,

Approval of a Package Design Type in accordance with Regulation 55 of the Dangerous Goods (Transport by Road or Rail) Regulations 2018 & Australian Code for the Transport of Dangerous Goods Code by Road & Rail (ADG Code)

The Victorian WorkCover Authority (WorkSafe) advises that your Application for Approval of Dangerous Goods Packaging Design has been approved.

APPROVAL OF A PACKAGING DESIGN

Approval Number	31636														
Issue Date	22 August 2022														
Issued to	Eredyne Group Pty Ltd, 8 Yazaki Way, Carrum Downs VIC 3201														
Scope	Liquids – dangerous goods of package group II & III, and gross mass no greater than 1218kg														
Description	957L (1218kg) IBC, Steel, prismatic, for liquids														
Test Report	Test Certificate Number:9313 Date of issue: 10/08/2022 Test facility: Falcon Test Engineers Address: PO Box 4000 Dandenong South Vic 3164														
Approved marking	 31A/Y/MMYY/AUS/EREDYNE31636/4385/1218kg <i>MMYY signifies the year of manufacture (last two digits)</i> Additional information required: <table><tr><td>Capacity (in Litres of water at 20°C):</td><td>957L</td></tr><tr><td>Tare Mass:</td><td>405kg</td></tr><tr><td>Test (gauge) pressure:</td><td>200kPa</td></tr><tr><td>Body material and minimum thickness:</td><td>Carbon steel / 3mm</td></tr><tr><td>Date of last leakproofness test:</td><td>Month and Year</td></tr><tr><td>Date of last Inspection:</td><td>Month and Year</td></tr><tr><td>Manufacturer serial number:</td><td>Mandatory</td></tr></table>	Capacity (in Litres of water at 20°C):	957L	Tare Mass:	405kg	Test (gauge) pressure:	200kPa	Body material and minimum thickness:	Carbon steel / 3mm	Date of last leakproofness test:	Month and Year	Date of last Inspection:	Month and Year	Manufacturer serial number:	Mandatory
Capacity (in Litres of water at 20°C):	957L														
Tare Mass:	405kg														
Test (gauge) pressure:	200kPa														
Body material and minimum thickness:	Carbon steel / 3mm														
Date of last leakproofness test:	Month and Year														
Date of last Inspection:	Month and Year														
Manufacturer serial number:	Mandatory														

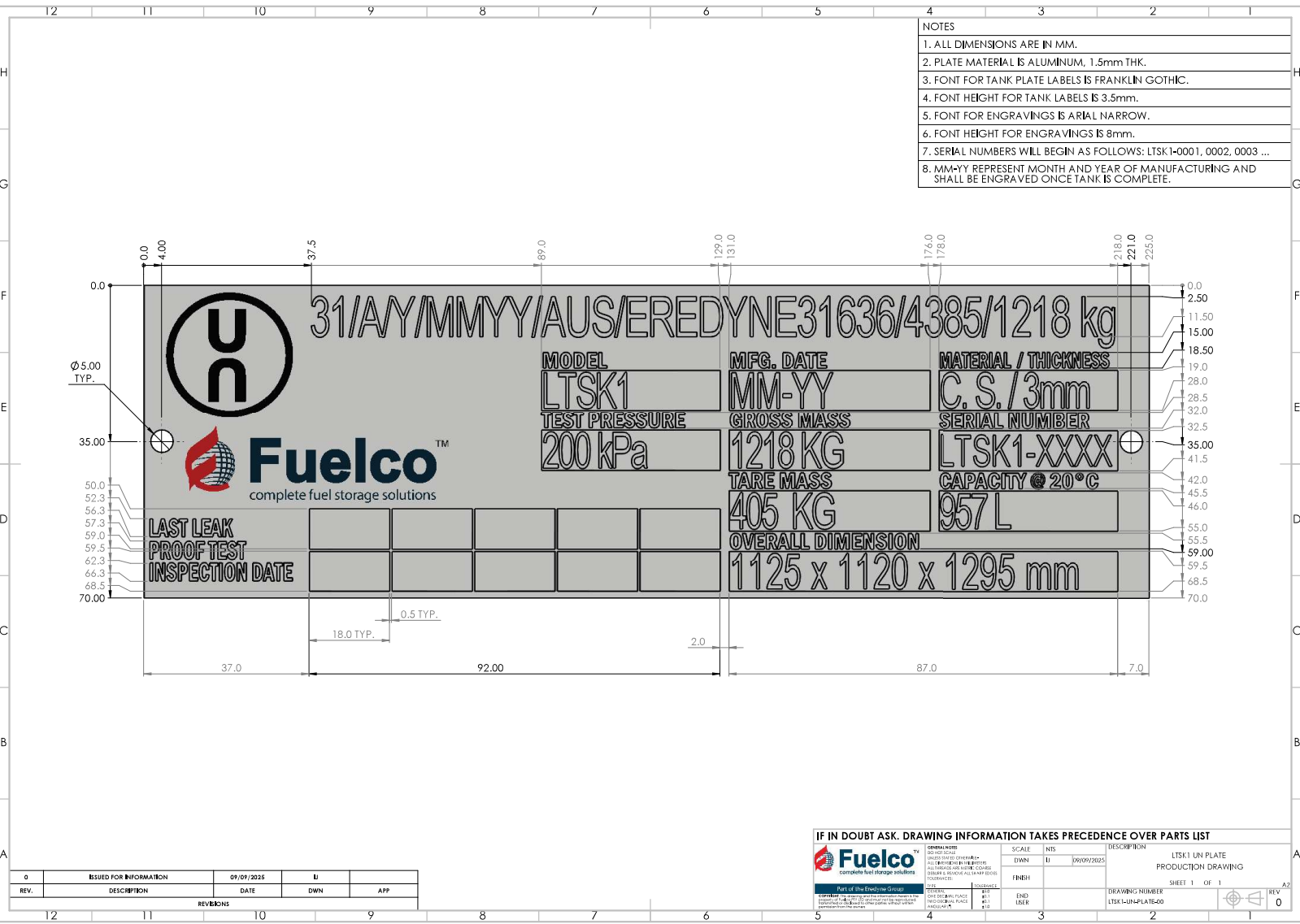
	2436 kg max  Stacking pictogram as required by UN 6.5.2.2.2 <i>The minimum dimensions shall be 100 mm x 100 mm to printer's marks. The letters and numbers indicating the mass shall be at least 12 mm high. The area within the printer's marks shall be square and proportional to that shown.</i>
Conditions	(a) Each packaging must be marked with the approval number in addition to the requirements of Chapter 6 of the ADG Code. (b) Samples of packaging manufactured to this design type approval must be retested at periods not exceeding 5 years in accordance with the ADG Code and enabling legislation in force at the time. Any test failure must be immediately reported to the Competent Authority in that state and may render the design type approval invalid. (c) This approval remains valid unless revoked in writing.

If you have any questions, please contact dangerousgoodsunit@worksafe.vic.gov.au quoting our reference number above.

Yours sincerely

Adrian Simonetta
Dangerous Goods
Authorised Officer
Victorian WorkCover Authority (WorkSafe)

Enclosed: 1. Right of Review

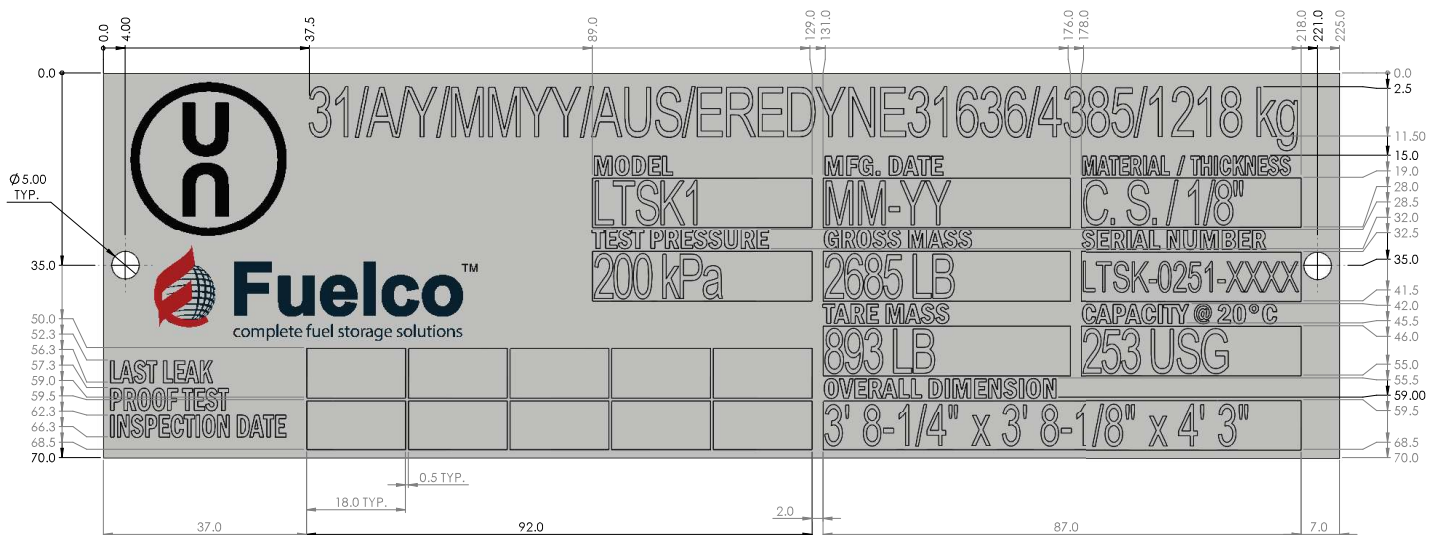


NOTES	
1.	ALL DIMENSIONS ARE IN MM.
2.	PLATE MATERIAL IS ALUMINUM, 1.5mm THK.
3.	FONT FOR TANK PLATE LABELS IS FRANKLIN GOTHIC.
4.	FONT HEIGHT FOR TANK LABELS IS 3.5mm.
5.	FONT FOR ENGRAVINGS IS ARIAL NARROW.
6.	FONT HEIGHT FOR ENGRAVINGS IS 8mm.
7.	SERIAL NUMBERS WILL BEGIN AS FOLLOWS: LTSK1-0001, 0002, 0003 ...
8.	MM-YY REPRESENT MONTH AND YEAR OF MANUFACTURING AND SHALL BE ENGRAVED ONCE TANK IS COMPLETE.

Q	ISSUED FOR INFORMATION	09/09/2025	U	
REV.	DESCRIPTION	DATE	DWN	APP

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST			
		SCALE	NTS
Part of the Endevco Group		DWN	U
Complete fuel storage solutions		FINISH	
GENERAL NOTES		DESCRIPTION	LTSK1 UN PLATE
1. ALL DIMENSIONS ARE IN MM.			PRODUCTION DRAWING
2. PLATE MATERIAL IS ALUMINUM, 1.5mm THK.			
3. FONT FOR TANK PLATE LABELS IS FRANKLIN GOTHIC.			
4. FONT HEIGHT FOR TANK LABELS IS 3.5mm.			
5. FONT FOR ENGRAVINGS IS ARIAL NARROW.			
6. FONT HEIGHT FOR ENGRAVINGS IS 8mm.			
7. SERIAL NUMBERS WILL BEGIN AS FOLLOWS: LTSK1-0001, 0002, 0003 ...			
8. MM-YY REPRESENT MONTH AND YEAR OF MANUFACTURING AND SHALL BE ENGRAVED ONCE TANK IS COMPLETE.			
DRAWING NUMBER		SHEET 1 OF 1	A2
LTSK1-UN-PLATE-00			REV 0

NOTES
1. ALL DIMENSIONS ARE IN MM.
2. PLATE MATERIAL IS ALUMINIUM, 1.5mm THK.
3. FONT FOR TANK PLATE LABELS IS FRANKLIN GOTHIC.
4. FONT HEIGHT FOR TANK LABELS IS 3.5mm.
5. FONT FOR ENGRAVINGS IS ARIAL NARROW.
6. FONT HEIGHT FOR ENGRAVINGS IS 8mm.
7. SERIAL NUMBERS WILL BEGIN AS FOLLOWS: LTSK-0251-0001, 0002, 0003, ...
8. MM-YY REPRESENT MONTH AND YEAR OF MANUFACTURING AND SHALL BE ENGRAVED ONCE TANK IS COMPLETE.



0	ISSUED FOR INFORMATION	09/09/2025	I	
REV.	DESCRIPTION	DATE	DWN	APP
REVISIONS				

[illegible]



Our Ref. DOC/22/127086
Via Email – Original will not be sent
22 August 2022

Mr John Rush
Managing Director
Eredyne Group Pty Ltd.
8 Yazaki Way
Carrum Downs VIC 3201

Dear Mr Rush,

Approval of a Package Design Type in accordance with Regulation 55 of the Dangerous Goods (Transport by Road or Rail) Regulations 2018 & Australian Code for the Transport of Dangerous Goods Code by Road & Rail (ADG Code)

The Victorian WorkCover Authority (WorkSafe) advises that your Application for Approval of Dangerous Goods Packaging Design has been approved.

APPROVAL OF A PACKAGING DESIGN

Approval Number	31637														
Issue Date	22 August 2022														
Issued to	Eredyne Group Pty Ltd, 8 Yazaki Way, Carrum Downs VIC 3201														
Scope	Liquids – dangerous goods of packing group II & III, and gross mass no greater than 2518kg														
Description	2080L (2518kg) IBC, Steel, prismatic for liquids														
Test Report	Test Certificate Number:9314 Date of issue: 10/08/2022 Test facility: Falcon Test Engineers Address: PO Box 4000 Dandenong South Vic 3164														
Approved marking	 31A/Y/MYY/AUS/EREDYNE31637/9065/2518kg MMYY signifies the year of manufacture (last two digits) Additional information required: <table><tr><td>Capacity (in Litres of water at 20°C):</td><td>2080L</td></tr><tr><td>Tare Mass:</td><td>750kg</td></tr><tr><td>Test (gauge) pressure:</td><td>200kPa</td></tr><tr><td>Body material and minimum thickness:</td><td>Carbon steel / 3mm</td></tr><tr><td>Date of last leakproofness test:</td><td>Month and Year</td></tr><tr><td>Date of last inspection:</td><td>Month and Year</td></tr><tr><td>Manufacturer serial number:</td><td>Mandatory</td></tr></table>	Capacity (in Litres of water at 20°C):	2080L	Tare Mass:	750kg	Test (gauge) pressure:	200kPa	Body material and minimum thickness:	Carbon steel / 3mm	Date of last leakproofness test:	Month and Year	Date of last inspection:	Month and Year	Manufacturer serial number:	Mandatory
Capacity (in Litres of water at 20°C):	2080L														
Tare Mass:	750kg														
Test (gauge) pressure:	200kPa														
Body material and minimum thickness:	Carbon steel / 3mm														
Date of last leakproofness test:	Month and Year														
Date of last inspection:	Month and Year														
Manufacturer serial number:	Mandatory														

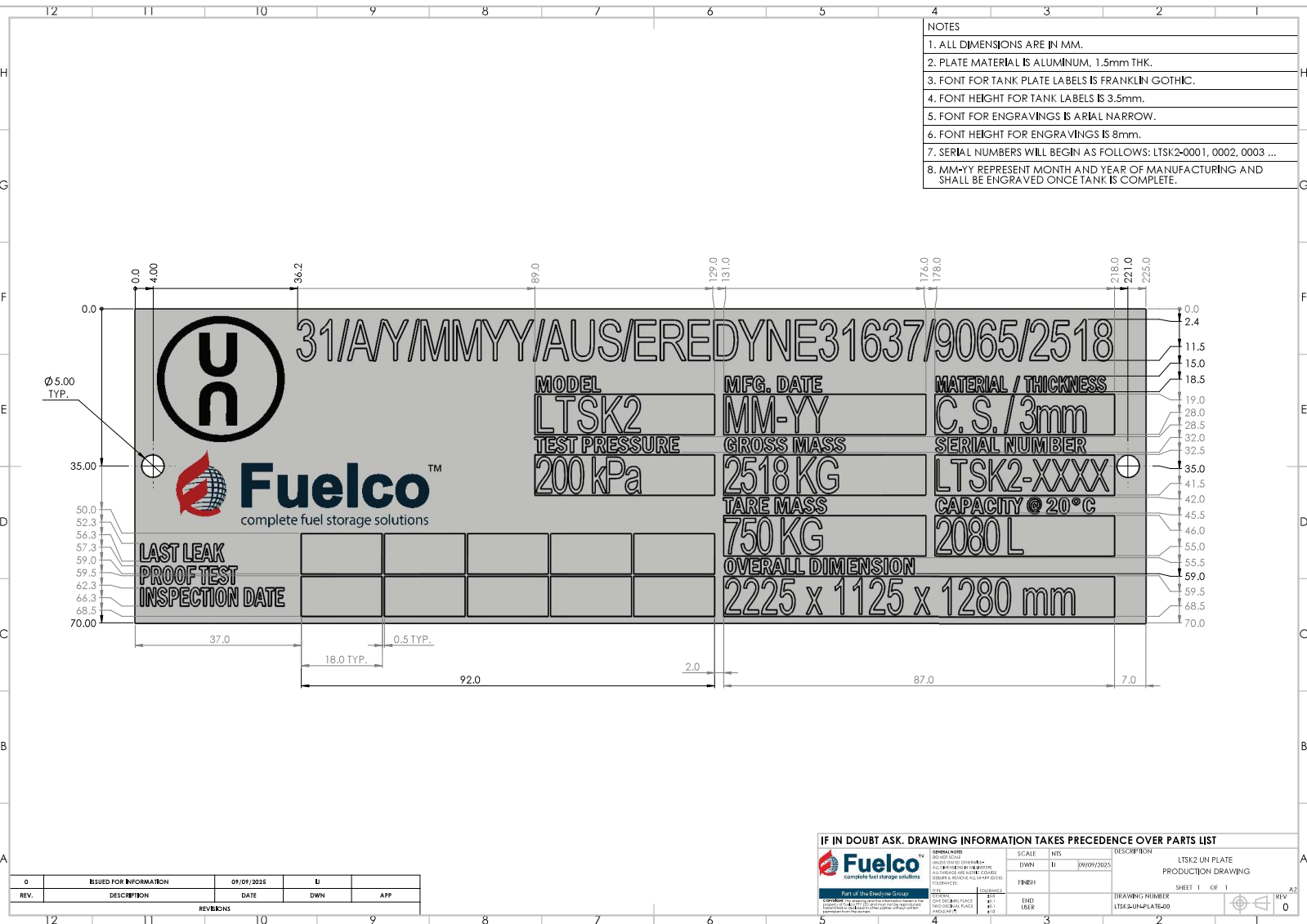
	 Stacking pictogram as required by UN 6.5.2.2.2 The minimum dimensions shall be 100 mm x 100 mm to printer's marks. The letters and numbers indicating the mass shall be at least 12 mm
Conditions	(a) Each packaging must be marked with the approval number in addition to the requirements of Chapter 6 of the ADG Code. (b) Samples of packaging manufactured to this design type approval must be retested at periods not exceeding 5 years in accordance with the ADG Code and enabling legislation in force at the time. Any test failure must be immediately reported to the Competent Authority in that state and may render the design type approval invalid. (c) This approval remains valid unless revoked in writing.

If you have any questions, please contact dangerousgoodsunit@worksafe.vic.gov.au quoting our reference number above.

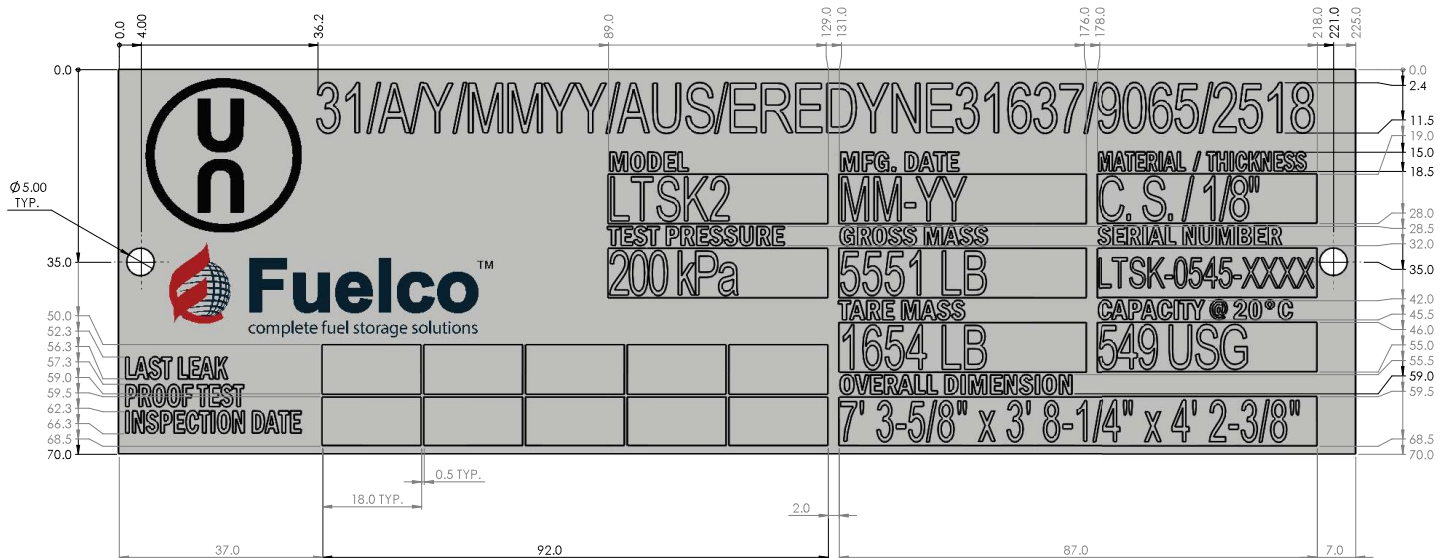
Yours sincerely

Adrian Simonetta
Dangerous Goods
Authorised Officer
Victorian WorkCover Authority (WorkSafe)

Enclosed: 1. Right of Review



NOTES
1. ALL DIMENSIONS ARE IN MM.
2. PLATE MATERIAL IS ALUMINUM, 1.5mm THK.
3. FONT FOR TANK PLATE LABELS IS FRANKLIN GOTHIC.
4. FONT HEIGHT FOR TANK LABELS IS 3.5mm.
5. FONT FOR ENGRAVINGS IS ARIAL NARROW.
6. FONT HEIGHT FOR ENGRAVINGS IS 8mm.
7. SERIAL NUMBERS WILL BEGIN AS FOLLOWS: LTSK-0545-0001, 0002, 0003, ...
8. MM-YY REPRESENT MONTH AND YEAR OF MANUFACTURING AND SHALL BE ENGRAVED ONCE TANK IS COMPLETE.



0	ISSUED FOR INFORMATION	09/09/2025	U	
REV.	DESCRIPTION	DATE	DWN	APP
REVISIONS				

[illegible]



Our Ref. DOC/23/27117
27 March 2023
Via Email – Original will not be sent

Mr John Rush
Managing Director
Eredyne Group Pty Ltd.
8 Yazaki Way
Carrum Downs VIC 3201

Dear Mr Rush,

APPROVAL OF A PACKAGING DESIGN

Approval No	31663														
Issue Date	27 March 2023														
Issued to	Eredyne Group Pty Ltd, 8 Yazaki Way, Carrum Downs VIC 3201														
Scope	Intermediate Bulk Container for liquid dangerous goods of packing group II & III gross mass no greater than 3308kg.														
Description	2870L (3308kg) steel prismatic intermediate bulk container (L 2225mm x W 1515mm x H 1285mm) with internal baffles and fusible fill cap														
Test report	No. 9537, Dated: 28 February 2023, issued by Falcon Test Engineers														
Approved marking	31A/Y/ ## /AUS/EREDYNE31663/11908/3308 <i>## signifies the year of manufacture (last two digits)</i> <table><tr><td>Capacity (in Litres of water at 20°C):</td><td>2870L</td></tr><tr><td>Tare Mass:</td><td>868kg</td></tr><tr><td>Test (gauge) pressure:</td><td>200kPa</td></tr><tr><td>Body material and minimum thickness:</td><td>Carbon steel / 3mm</td></tr><tr><td>Date of last leakproofness test:</td><td>Month and Year</td></tr><tr><td>Date of last Inspection:</td><td>Month and Year</td></tr><tr><td>Manufacturer serial number:</td><td>Mandatory</td></tr></table> <i>Stacking pictogram as required by UN 6.5.2.2.2</i> <i>The minimum dimensions shall be 100 mm x 100 mm to printer's marks.</i> <i>The letters and numbers indicating the mass shall be at least 12 mm</i>	Capacity (in Litres of water at 20°C):	2870L	Tare Mass:	868kg	Test (gauge) pressure:	200kPa	Body material and minimum thickness:	Carbon steel / 3mm	Date of last leakproofness test:	Month and Year	Date of last Inspection:	Month and Year	Manufacturer serial number:	Mandatory
Capacity (in Litres of water at 20°C):	2870L														
Tare Mass:	868kg														
Test (gauge) pressure:	200kPa														
Body material and minimum thickness:	Carbon steel / 3mm														
Date of last leakproofness test:	Month and Year														
Date of last Inspection:	Month and Year														
Manufacturer serial number:	Mandatory														

Conditions	(a) Each packaging must be marked with the approval number in addition to the requirements of section 6.1.3 of the ADG Code. (b) Samples of packaging manufactured to this design type approval must be retested at periods not exceeding 5 years in accordance with the ADG Code and enabling legislation in force at the time. Any test failure must be immediately reported to the Competent Authority in that state and may render the design type approval invalid. (c) This approval remains valid unless revoked in writing.
Legislation	1. Regulation 55 of the Dangerous Goods (Transport by Road or Rail) Regulations 2018 2. Australian Code for the Transport of Dangerous Goods Code by Road & Rail (ADG Code)
Jurisdiction	This approval applies in Victoria and will be submitted to the Competent Authorities Panel to have effect in all participating jurisdictions
Expiry	This approval remains valid unless revoked in writing by Worksafe Work Victoria



Adrian Simonetta
Dangerous Goods
Authorised Officer
Victorian WorkCover Authority (WorkSafe)

Enclosed: 1. Right of Review

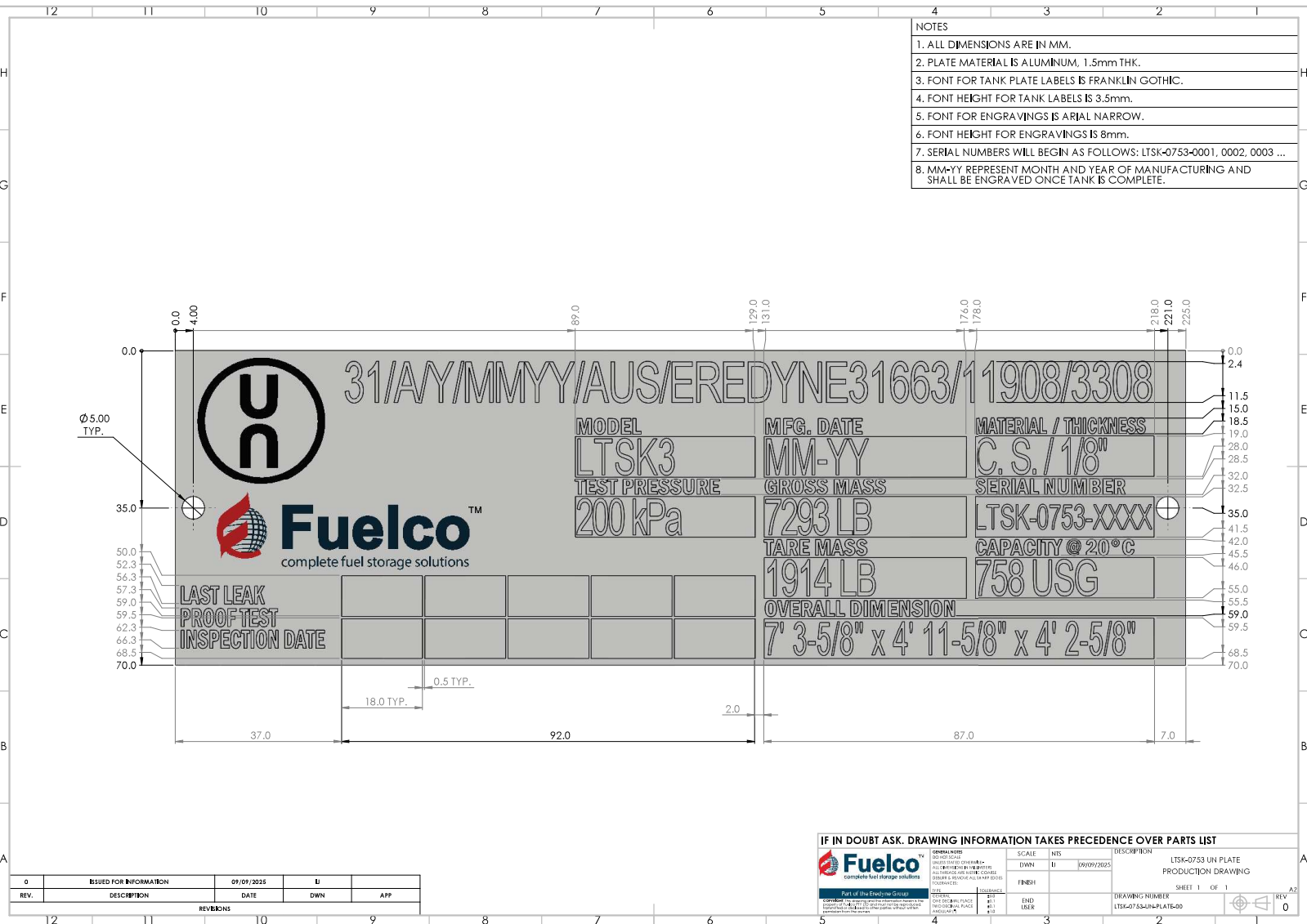
NOTES

- ALL DIMENSIONS ARE IN MM.
- PLATE MATERIAL IS ALUMINUM, 1.5mm THK.
- FONT FOR TANK PLATE LABELS IS FRANKLIN GOTHIC.
- FONT HEIGHT FOR TANK LABELS IS 3.5mm.
- FONT FOR ENGRAVINGS IS ARIAL NARROW.
- FONT HEIGHT FOR ENGRAVINGS IS 8mm.
- SERIAL NUMBERS WILL BEGIN AS FOLLOWS: LTSK3-0001, 0002, 0003 ...
- MM-YY REPRESENT MONTH AND YEAR OF MANUFACTURING AND SHALL BE ENGRAVED ONCE TANK IS COMPLETE.

The drawing shows a rectangular tank plate with various markings and dimensions. On the left side, there are vertical dimensions from 0.0 to 70.0 mm. At the top, horizontal dimensions from 0.0 to 225.0 mm are shown. The plate features the UN logo, Fuelco logo, and a large alphanumeric code: 31/A/Y/M/MY/Y/AUS/ERE/DYNE31663/11908/3308. Below this, specific model information is provided: MODEL LTSK3, TEST PRESSURE 200 kPa, MFG. DATE MM-YY, GROSS MASS 3308 KG, TARE MASS 868 KG, OVERALL DIMENSION 2225 x 1515 x 1285 mm, MATERIAL / THICKNESS C.S./3mm, SERIAL NUMBER LTSK3-XXXX, and CAPACITY @ 20°C 2870 L. A section for inspection dates is labeled 'LAST LEAK PROOF TEST INSPECTION DATE'. Dimensions for mounting holes and plate thickness are also indicated.

REV.	DESCRIPTION	DATE	DWN	APP
0	ISSUED FOR INFORMATION	09/09/2025	IJ	

GENERAL NOTES		SCALE	NTS	DESCRIPTION
Fuelco complete fuel storage solutions Part of the Eredyne Group Eredyne has been established as a separate legal entity under the laws of Australia. All dimensions and weights are approximate and subject to change without notice. All dimensions and weights are approximate and subject to change without notice.		SCALE DWN IJ [signature] END USER	NTS [signature]	LTSK3 UN PLATE PRODUCTION DRAWING SHEET 1 OF 1 DRAWING NUMBER LTSK3-UN-PLATE-00



Q	ISSUED FOR INFORMATION	09/09/2025	U	
REV.	DESCRIPTION	DATE	DWN	APP

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

Fuelco complete fuel storage solutions

Part of the Eredyne Group

GENERAL NOTES: NO NOT SCALE. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS. ALL MATERIALS ARE NEW. COLOURS SHALL BE AS SHOWN. ALL PARTS SHALL BE ENGRAVED. ALL PARTS SHALL BE ENGRAVED.

SCALE: DWN U

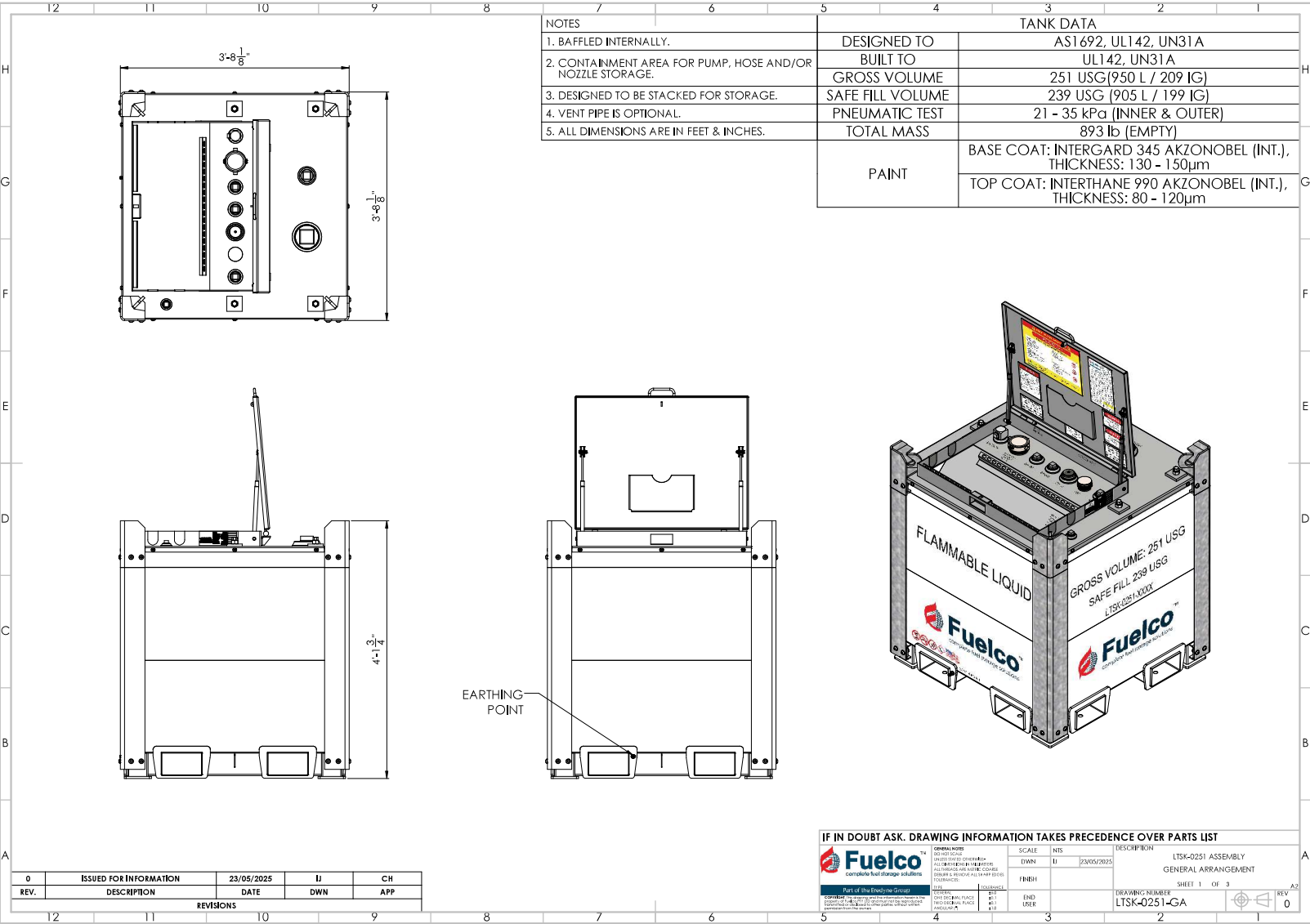
DATE: 09/09/2025

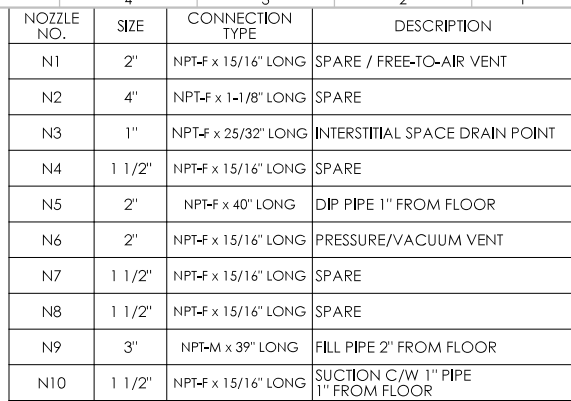
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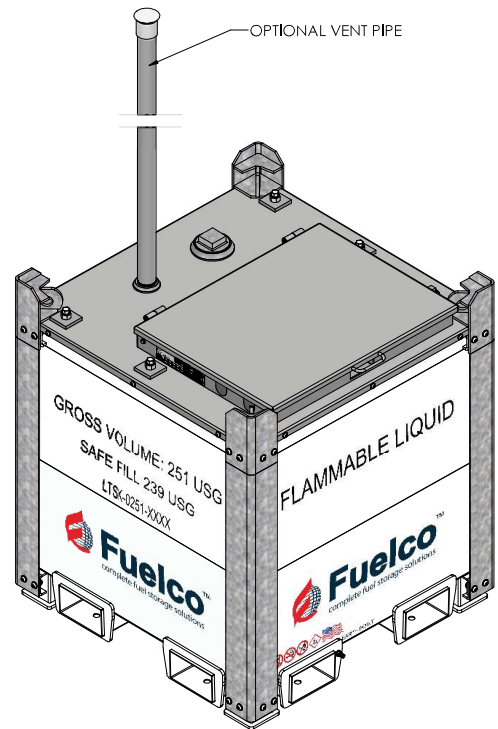
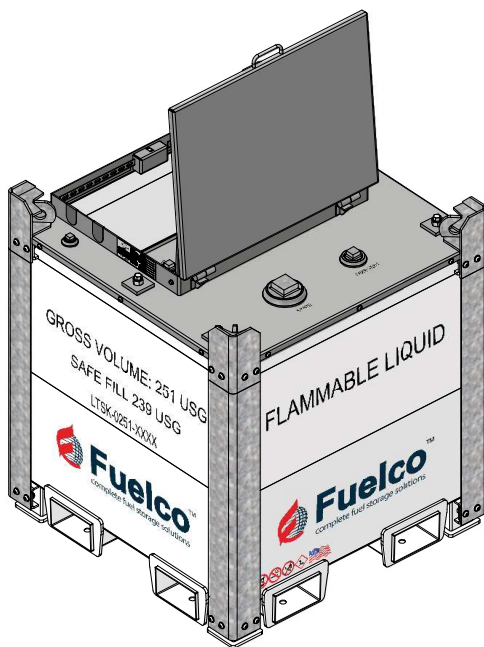
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SHEET 1 OF 1

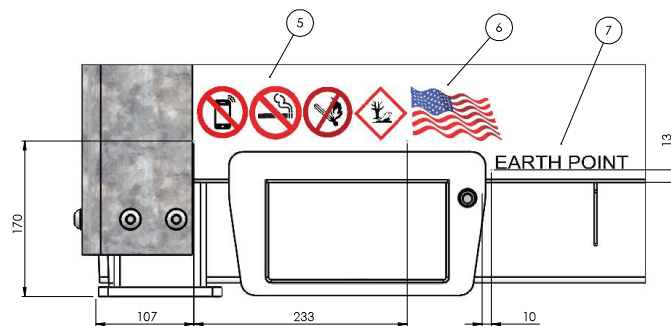
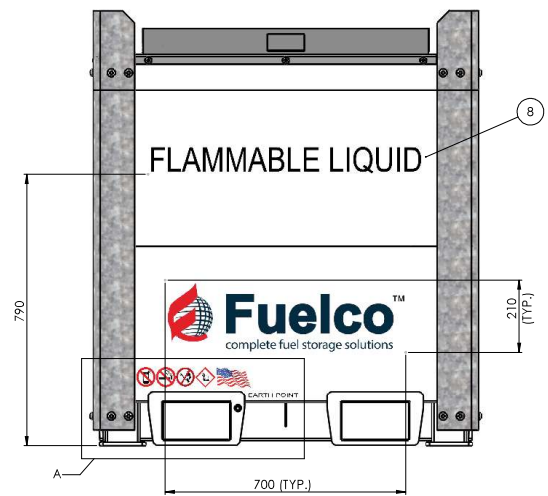
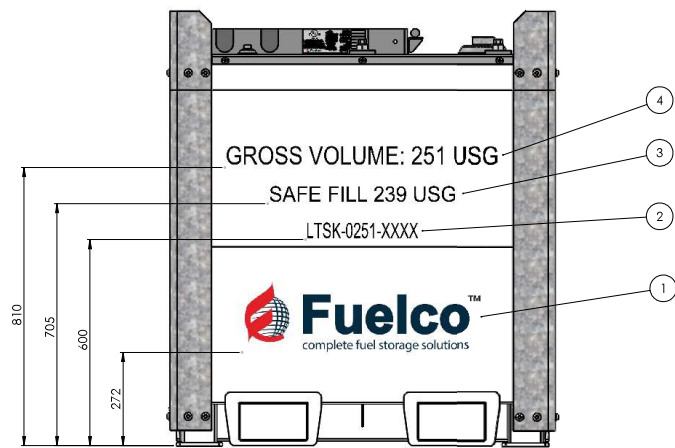
REV 0



[illegible]



IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST									
 Fuelco TM complete fuel storage solutions	GENERAL NOTES 1. DRAWING IS FOR INFORMATION ONLY. 2. ALL DIMENSIONS ARE IN INCHES. 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED. 4. DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED. 5. DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.		SCALE:	NTS	DESCRIPTION:				
			DWN:	NTS	LITK-0251 ASSEMBLY				
			FINISH:	NTS	ISOMETRIC VIEWS				
			TOLERANCE:	NTS	SHEET 3 OF 3				
Part of the Fuelco Group Fuelco is a registered trademark of Fuelco, Inc. All other trademarks are the property of their respective owners.		END USER:	END USER:	DRAWING NUMBER:	LITK-0251-GA		REV:	0	A2



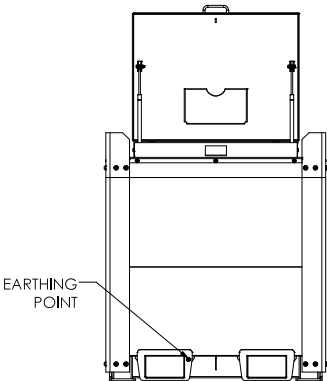
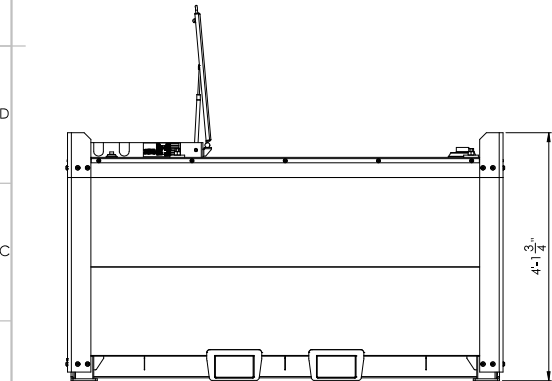
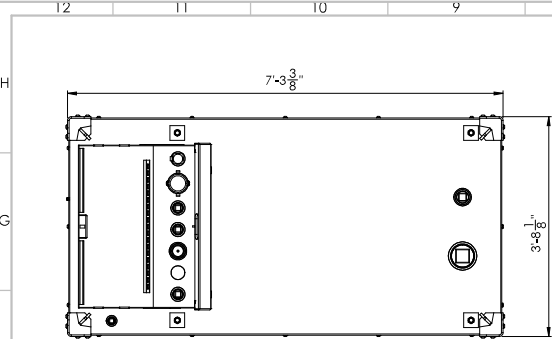
NOTES

- | |
|--|
| 1. ALL DIMENSIONS ARE IN MM. |
| 2. STICKER SHALL BE SUPPLIED BY UL APPROVED VENDOR ONLY. |
| 3. SERIAL NUMBER WILL BEGIN AS FOLLOWS:
LTSK-0251-0001, LTSK-0251-0002, LTSK-0251-0003 |

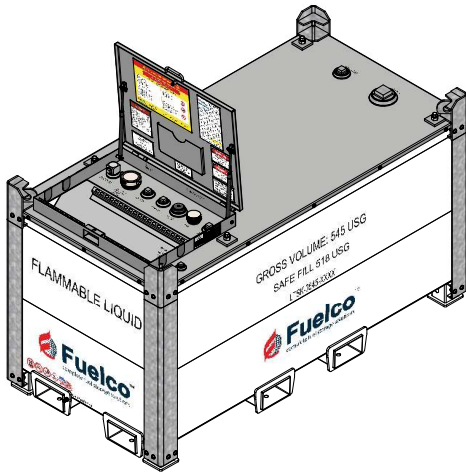
IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

[illegible]

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST										
 Fuelco TM complete fuel storage solutions	GENERAL NOTES ALL DIMENSIONS ARE IN INCHES - FRACTIONS ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED		SCALE	NTS	DESCRIPTION					
			DWN	1	2/20/2025	ITSK-0251 ASSEMBLY				
			FINISH			NOZZLE COLD				
						SHEET 2 OF 3				
Part of the Drawing Group complete fuel storage solutions		TOLERANCES FRACTIONS DECIMALS FRACTIONS DECIMALS FRACTIONS DECIMALS FRACTIONS DECIMALS		END USER	DRAWING NUMBER	ITSK-0251-DEALS-000				REV 0



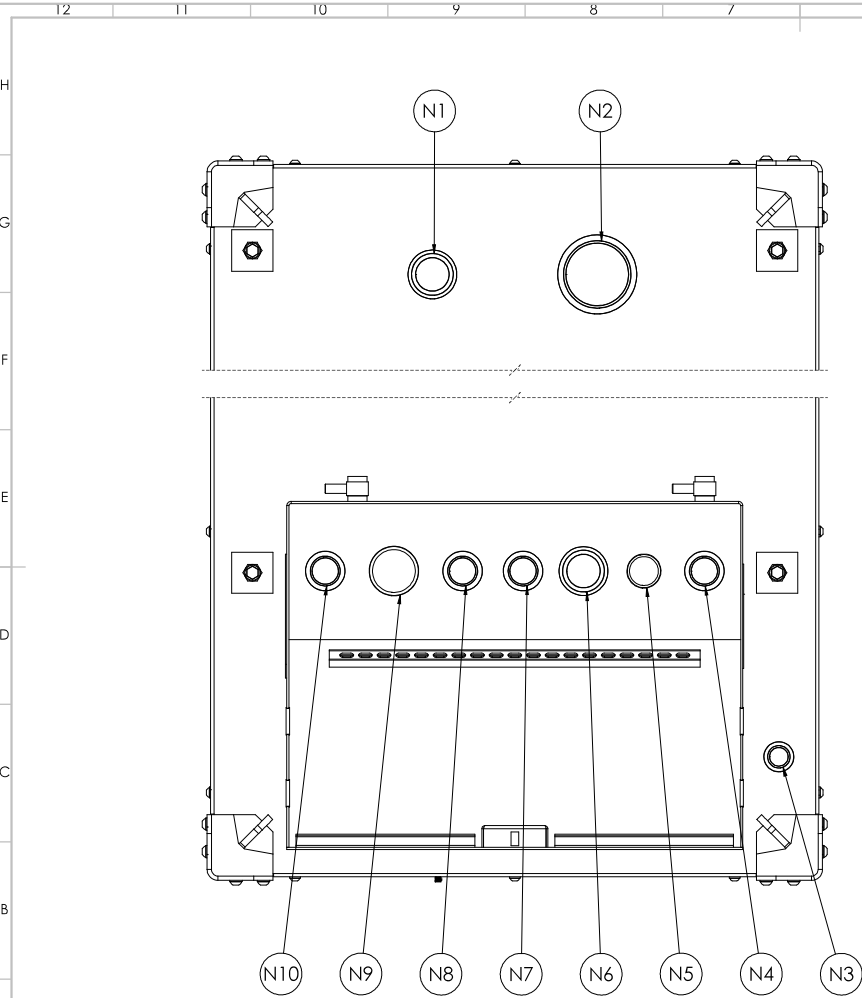
NOTES		TANK DATA	
1. BAFFLED INTERNALLY.	DESIGNED TO	AS1692, UL142, UN31A	
2. CONTAINMENT AREA FOR PUMP, HOSE AND/OR NOZZLE STORAGE.	BUILT TO	UL142, UN31A	
3. DESIGNED TO BE STACKED FOR STORAGE.	GROSS VOLUME	545 USG (2 063 L / 453 IG)	
4. VENT PIPE IS OPTIONAL.	SAFE FILL VOLUME	518 USG (1 960 L / 431 IG)	
5. ALL DIMENSIONS ARE IN FEET & INCHES.	PNEUMATIC TEST	21 - 35 kPa (INNER & OUTER)	
	TOTAL MASS	1 654 lb (EMPTY)	
	PAINT	BASE COAT: INTERGARD 345 AKZONOBEL (INT.), THICKNESS: 130 - 150µm	
		TOP COAT: INTERTHANE 990 AKZONOBEL (INT.), THICKNESS: 80 - 120µm	



0	ISSUED FOR INFORMATION	23/05/2025	IJ	CH
REV.	DESCRIPTION	DATE	DWN	APP

REVISIONS

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST					DRAWING NUMBER		SHEET 1 OF 3		REV 0	
 Fuelco complete fuel storage solutions					LTSK-0545 ASSEMBLY		GENERAL ARRANGEMENT			
Part of the Enecone Group					LTSK-0545-CA					
GENERAL NOTES: 1. SEE PART LIST FOR MATERIALS. 2. ALL DIMENSIONS ARE IN FEET & INCHES. 3. ALL DIMENSIONS ARE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED. 4. DIMENSIONS ARE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED. 5. DIMENSIONS ARE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.										
SCALE: NTS										
FINISH: DWN										
END USER:										



NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	2"	NPT-F x 15/16" LONG	SPARE / FREE-TO-AIR VENT
N2	4"	NPT-F x 1-1/8" LONG	SPARE
N3	1"	NPT-F x 25/32" LONG	INTERSTITIAL SPACE DRAIN POINT
N4	1 1/2"	NPT-F x 15/16" LONG	SPARE
N5	2"	NPT-F x 40" LONG	DIP PIPE 1" FROM FLOOR
N6	2"	NPT-F x 15/16" LONG	PRESSURE/VACUUM VENT
N7	1 1/2"	NPT-F x 15/16" LONG	SPARE
N8	1 1/2"	NPT-F x 15/16" LONG	SPARE
N9	3"	NPT-M x 39" LONG	FILL PIPE 2" FROM FLOOR
N10	1 1/2"	NPT-F x 15/16" LONG	SUCTION C/W 1" PIPE 1" FROM FLOOR

NOTES

1. FRONT HATCH LID HIDDEN FOR CLARITY.

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

**Fuelco**
complete fuel storage solutions

Part of the Eneco Group

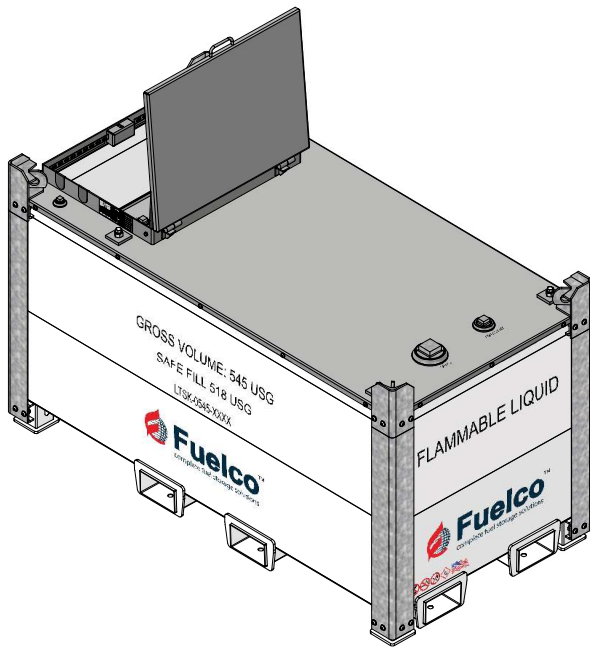
GENERAL NOTES
NO POST SCALE
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
ALL SURFACES ARE TO BE CLEANED
DRAWER & REMOVE ALL LEAKAGE
TO PREVENT

ITEM	QUANTITY
1	1
2	1
3	1

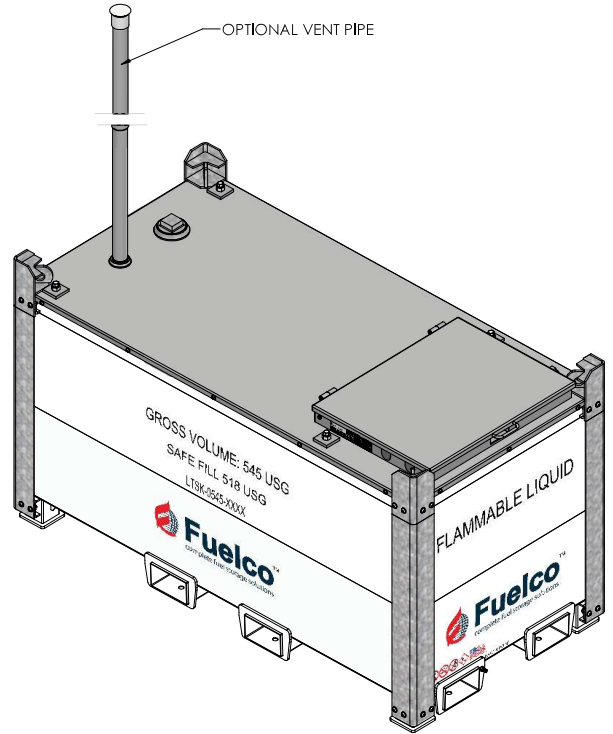
SCALE	NTS
DWN	U
DATE	03/05/2025

FINISH	END
ORDER	REV

DESCRIPTION	LTSK-0545 ASSEMBLY NOZZLE SCHEDULE
DRAWING NUMBER	LTSK-0545-CA
SHEET 2 OF 3	REV 0

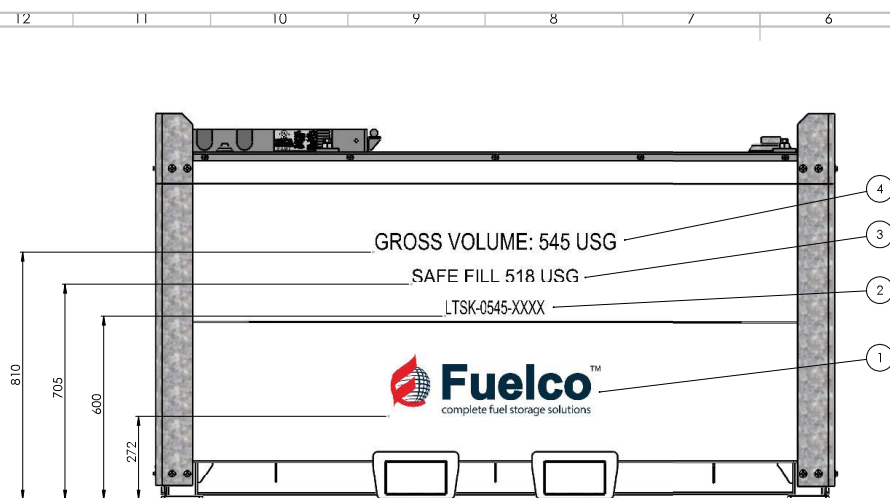


VIEW #1:
- REAR NOZZLE ARRANGEMENT

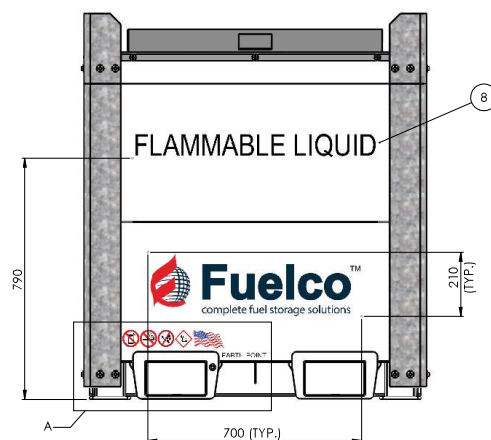


VIEW #2:
- OPTIONAL VENT PIPE

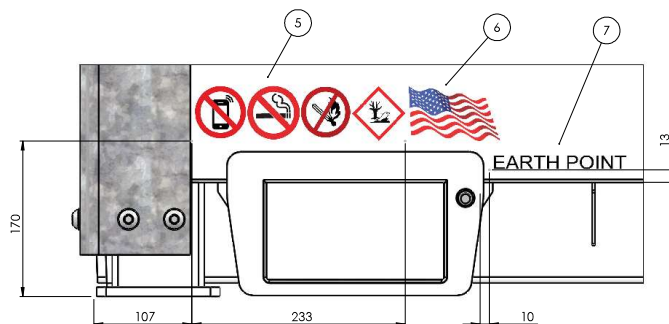
IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST									
Fuelco complete fuel storage solutions Part of the Eneco Group Complete fuel storage solutions for all types of vehicles and equipment. Fuelco is a leader in the industry for its innovative and reliable fuel storage solutions. Fuelco is a leader in the industry for its innovative and reliable fuel storage solutions. Fuelco is a leader in the industry for its innovative and reliable fuel storage solutions.	GENERAL NOTES		SCALE		DESCRIPTION				
	1. SEE PARTS LIST FOR ALL DIMENSIONS AND TOLERANCES.		DWN		U		LTSK-0545 ASSEMBLY		
	2. ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.		FINISH		23/05/2025		ISOMETRIC VIEWS		
	3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.		END USER				DRAWING NUMBER: LTSK-0545-CA		
PARTS LIST		QUANTITY		REVISION		SHEET 3 OF 3		REV 0	
1. SEE PARTS LIST FOR ALL DIMENSIONS AND TOLERANCES.		2. ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.		3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.					



LTSK-0545 - LHS & RHS - DECAL MAP



LTSC-0545 - FRONT & REAR - DECAL MAP



DETAIL A

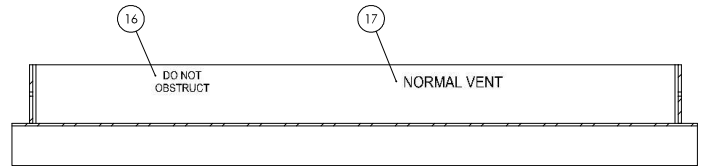
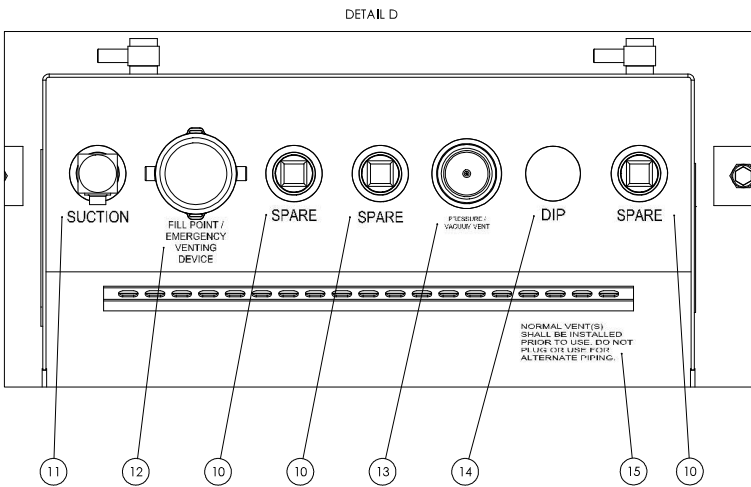
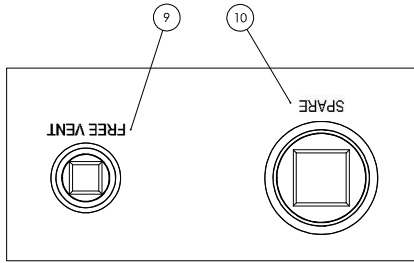
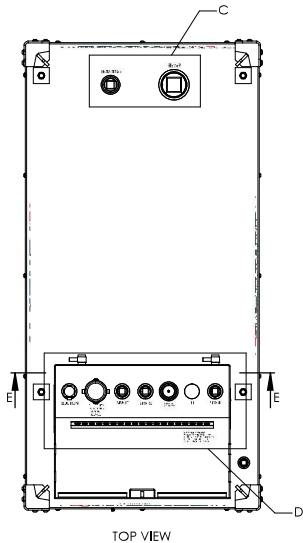
0	ISSUED FOR PRODUCTION	23/05/2025	U	
REV.	DESCRIPTION	DATE	DWN	APP
REVISIONS				
12	11	10		9

NOTES

- | |
|---|
| 1. ALL DIMENSIONS ARE IN MM. |
| 2. STICKER SHALL BE SUPPLIED BY UL APPROVED VENDOR ONLY. |
| 3. SERIAL NUMBER WILL BEGIN AS FOLLOWS:
LTSK-0545-0001, LTSK-0545-0002, LTSK-0545-0003, |

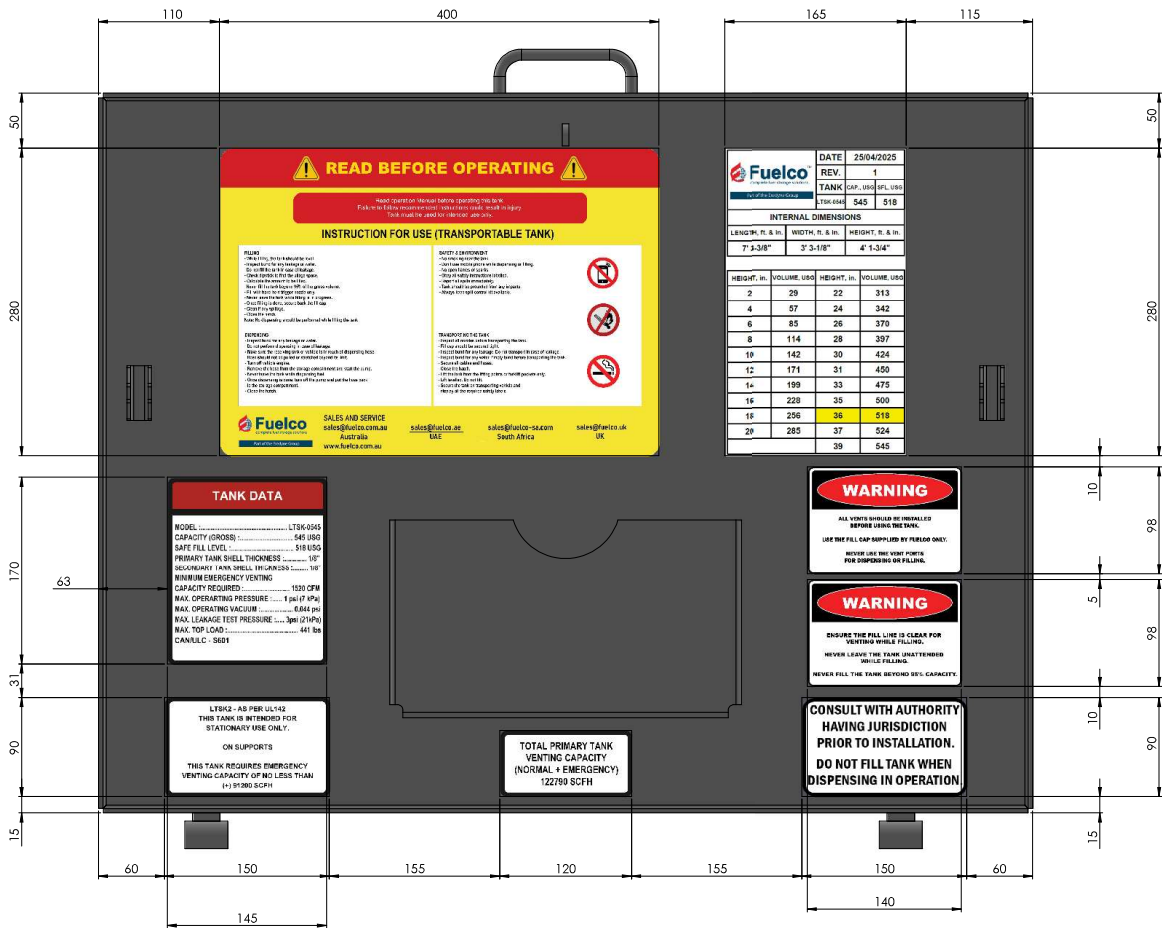
IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

[illegible]



NO.	DECAL	LENGTH	WIDTH	FONT	FONT HEIGHT	QTY
1	FUELCO LOGO	700	210	-	-	4
2	SERIAL NUMBER	330	55	ARIAL NARROW	50	2
3	SAFE FILL LEVEL	550	55	ARIAL NARROW	50	2
4	GROSS VOLUME	800	70	ARIAL NARROW	65	2
5	ADDITIONAL SIGNAGE	230	60	-	-	2
6	AMERICAN FLAG	100	60	-	-	2
7	EARTHING POINT	147	17.3	ARIAL NARROW	15	1
8	FLAMMABLE LIQUID	800	90	ARIAL NARROW	80	2
9	FREE VENT	100	17.3	ARIAL NARROW	15	1
10	SPARE	58.4	17.3	ARIAL NARROW	15	4
11	SUCTION	80	17.3	ARIAL NARROW	15	1
12	FILL POINT	106	40	ARIAL NARROW	10	1
13	PRESSURE/ VACUUM VENT	60	17.3	ARIAL NARROW	6.4	1
14	DIP	32	17.3	ARIAL NARROW	15	1
15	ADDITIONAL NOTE	145	68	ARIAL NARROW	10	1
16	DO NOT OBSTRUCT	71	29	ARIAL NARROW	10	1
17	NORMAL VENT	128	17.3	ARIAL NARROW	15	1

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST									
Fuelco complete fuel storage solutions		GENERAL NOTES: DO NOT SCALE UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES ALL DIMENSIONS ARE TO THE CENTER DIMENSIONS ARE TO THE CENTER DIMENSIONS ARE TO THE CENTER DIMENSIONS ARE TO THE CENTER		SCALE DWN 1:1 23/05/2025		DESCRIPTION LTSK-0545 ASSEMBLY NOZZLE DECAL			
		Part of the EcoLine Group Complete fuel storage solutions Complete fuel storage solutions Complete fuel storage solutions Complete fuel storage solutions		FINISH END USER		SHEET 2 OF 3 DRAWING NUMBER LTSK-0545-DECALS-00			



 Fuelco FUEL CO. INC. 10000 Highway 100		DATE: 25/04/2025	
REV: 1		TANK: CAP. VOL. SPL. USE	
Size code		545	518
INTERNAL DIMENSIONS			
LENGTH, R. & IN.	WIDTH, R. & IN.	HEIGHT, R. & IN.	
7' 3-3/8"	3' 3-1/8"	4' 1-3/4"	
HEIGHT, in.	VOLUME, USG.	HEIGHT, in.	VOLUME, USG.
2	29	22	313
4	57	24	342
6	85	26	370
8	114	28	397
10	142	30	424
12	171	31	450
14	199	33	475
16	228	35	500
18	256	36	518
20	285	37	524
39	545		

TANK DATA	
MODEL	LTSK-0545
CAPACITY (GROSS)	545 USG
SAFE FILL LEVEL	518 USG
PRIMARY TANK SHELL THICKNESS	1/2"
SECONDARY TANK SHELL THICKNESS	1/4"
MINIMUM EMERGENCY VENTING CAPACITY REQUIRED	1530 CFM
MAX. OPERATING PRESSURE	1 psi (7 kPa)
MAX. OPERATING VACUUM	0.544 psi
MAX. LEAKAGE TEST PRESSURE	3 psi (21 kPa)
MAX. TOP LOAD	441 lbs
CANULC	3501

LTSK-0545 AS PER UL-142
THIS TANK IS INTENDED FOR
STATIONARY USE ONLY.

ON SUPPORTS
THIS TANK REQUIRES EMERGENCY
VENTING CAPACITY OF NO LESS THAN
(1) 1530 SCFM

TOTAL PRIMARY TANK
VENTING CAPACITY
(NORMAL + EMERGENCY)
122769 SCFM

WARNING

ALL VENTS SHOULD BE INSTALLED
BEFORE USING THE TANK.

USE THE FILL CAP SUPPLIED BY FUELCO ONLY.

NEVER USE THE VENT PORTS
FOR DISPOSING OR FILLING.

WARNING

ENSURE THE FILL LINE IS CLEAR FOR
VENTING WHILE FILLING.

NEVER LEAVE THE TANK UNATTENDED
WHILE FILLING.

NEVER FILL THE TANK BEYOND 90% CAPACITY.

**CONSULT WITH AUTHORITY
HAVING JURISDICTION
PRIOR TO INSTALLATION.
DO NOT FILL TANK WHEN
DISPENSING IN OPERATION**

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

Fuelco
complete fuel storage solutions

Part of the Eneco Group

GENERAL NOTES
DO NOT SCALE
UNLESS SPECIFICALLY
NOTED OTHERWISE
ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE TO CENTER
UNLESS OTHERWISE SPECIFIED

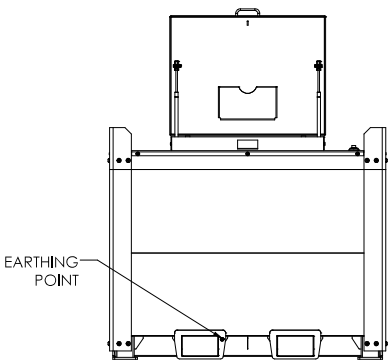
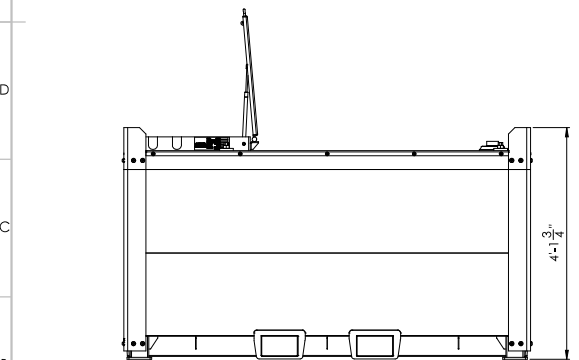
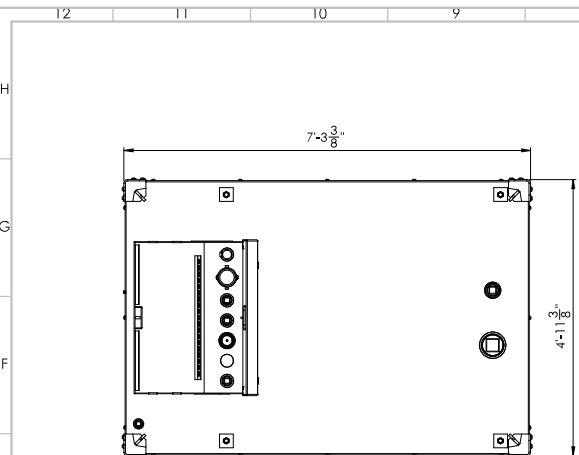
SCALE
DWN
1:1
25/05/2025

DESCRIPTION
LTSK-0545 ASSEMBLY
FRONT HATCH LID DECAL

SHEET 3 OF 3

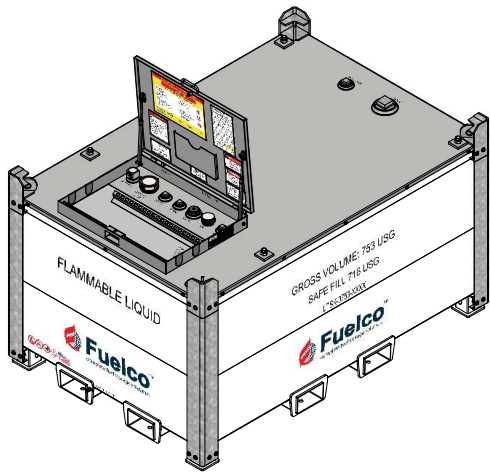
DRAWING NUMBER
LTSK-0545-DECALS-00

REV
0



- NOTES
- 1. BAFFLED INTERNALLY.
 - 2. CONTAINMENT AREA FOR PUMP, HOSE AND/OR NOZZLE STORAGE.
 - 3. DESIGNED TO BE STACKED FOR STORAGE.
 - 4. VENT PIPE IS OPTIONAL.
 - 5. ALL DIMENSIONS ARE IN FEET & INCHES.

TANK DATA	
DESIGNED TO	AS1692, UL142, UN31A
BUILT TO	UL142, UN31A
GROSS VOLUME	753 USG (2 850 L / 627 IG)
SAFE FILL VOLUME	716 USG (2 710 L / 596 IG)
PNEUMATIC TEST	21 - 35 kPa (INNER & OUTER)
TOTAL MASS	1 914 lb (EMPTY)
PAINT	BASE COAT: INTERGARD 345 AKZONOBEL (INT.), THICKNESS: 130 - 150µm
	TOP COAT: INTERTHANE 990 AKZONOBEL (INT.), THICKNESS: 80 - 120µm



0	ISSUED FOR INFORMATION	26/05/2025	IJ	CH
REV.	DESCRIPTION	DATE	DWN	APP
REVISIONS				

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

Fuelco complete fuel storage solutions

Part of the Eneco Group

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GENERAL NOTES

- 1. ALL DIMENSIONS ARE IN FEET & INCHES.
- 2. ALL DIMENSIONS ARE IN FEET & INCHES.
- 3. ALL DIMENSIONS ARE IN FEET & INCHES.
- 4. ALL DIMENSIONS ARE IN FEET & INCHES.
- 5. ALL DIMENSIONS ARE IN FEET & INCHES.

SCALE

NTS

DWN

U

26/05/2025

DESCRIPTION

LTSK-0753 ASSEMBLY

GENERAL ARRANGEMENT

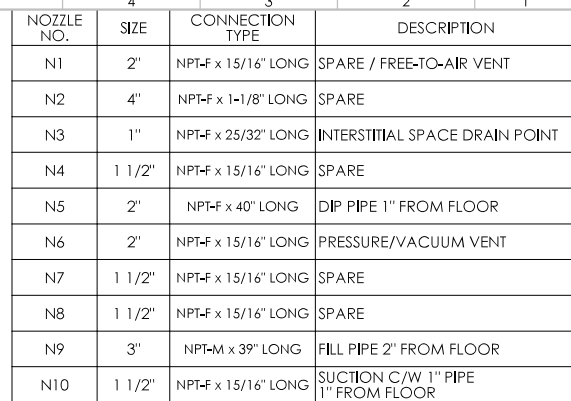
SHEET 1 OF 3

DRAWING NUMBER

LTSK-0753-CA

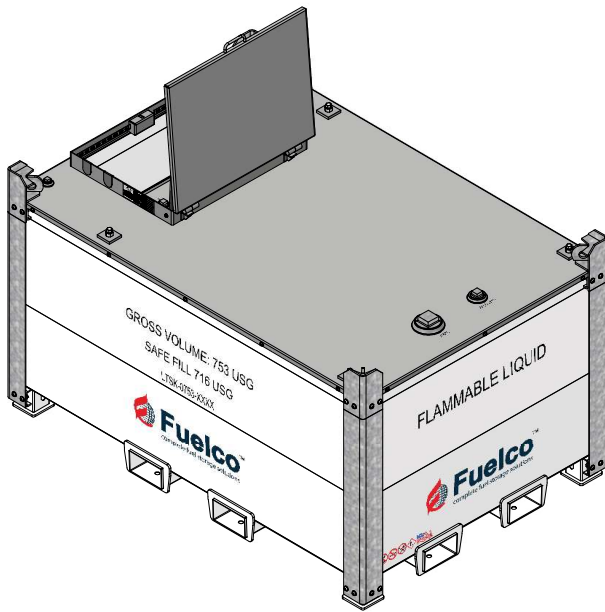
REV

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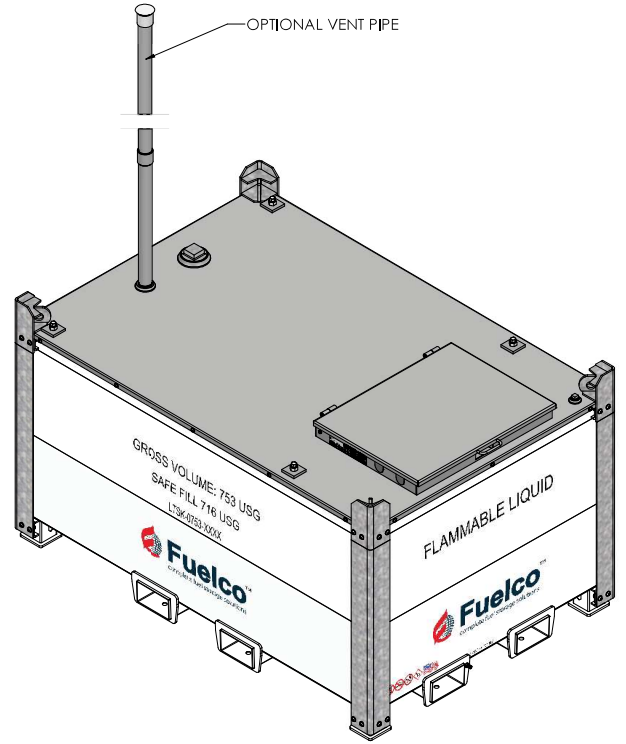


1. FRONT HATCH LID HIDDEN FOR CLARITY.

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST									
 Fuelco Complete the Fuelco Group		DATE OF THIS DRAWING: 06/05/2025 DATE OF PREVIOUS EDITION: 06/05/2025 REASON FOR PREVIOUS EDITION: NO CHANGE		SCALE: 1/1 UNIT: INCHES		DESCRIPTION: LTSK-0753 ASSEMBLY NOZZLE SCHEDULE		SHEET 2 OF 3	
Part of the Fuelco Group Company: Fuelco Group, Inc. Address: 10000 Fuelco Drive, Houston, TX 77036 Phone: (281) 416-1000 Fax: (281) 416-1001 Website: www.fuelco.com		DATE: 06/05/2025 DESIGNER: J. B. B. CHECKED: J. B. B. APPROVED: J. B. B.		END USER		DRAWING NUMBER: LTSK-0753-CA		REV: 0	

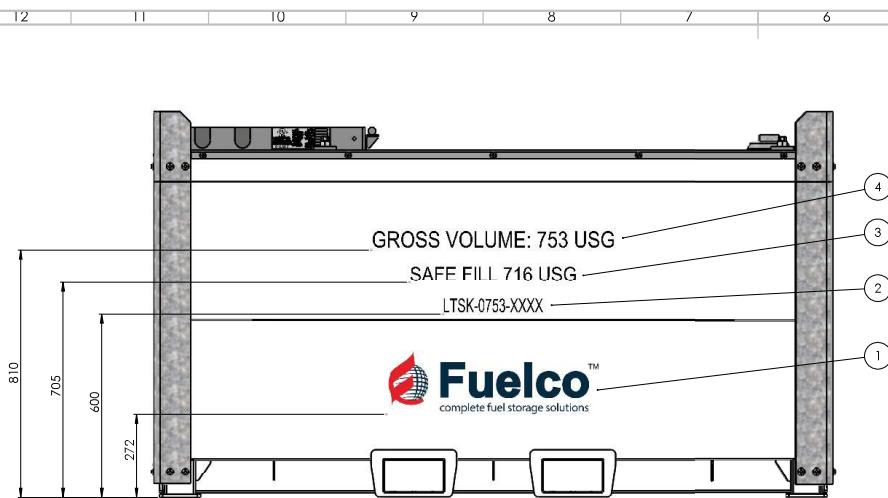


VIEW #1:
- REAR NOZZLE ARRANGEMENT



VIEW #2:
- OPTIONAL VENT PIPE

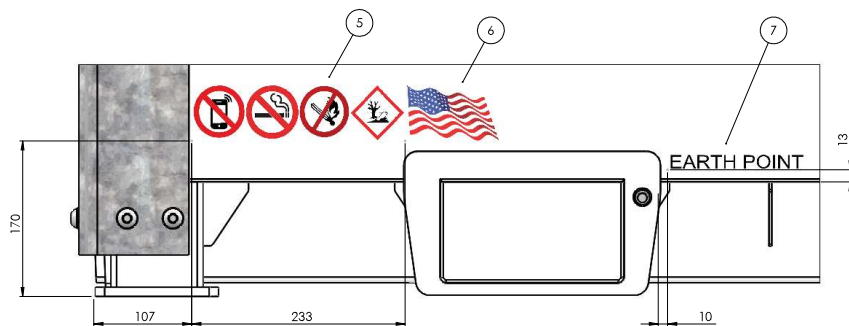
IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST									
 complete fuel storage solutions	GENERAL NOTES		SCALE		NTS		DESCRIPTION		
	DO NOT SCALE		DWN		U		LTSK-0753 ASSEMBLY		
	ALL DIMENSIONS ARE IN INCHES		FINISH				ISOMETRIC VIEWS		
	ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED						DRAWING NUMBER		
Part of the EcoLine Group		REV		DATE		BY		SHEET 3 OF 3	
LTSK-0753-XXX		#1		#1		#1		REV	
LTSK-0753-XXX		#2		#2		#2		0	
LTSK-0753-XXX		#3		#3		#3			



LTSK-0753 - LHS & RHS - DECAL MAP



LTSK-0753 - FRONT & REAR - DECAL MAP



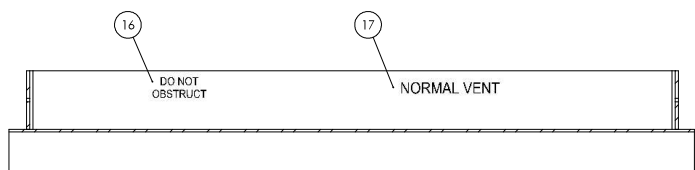
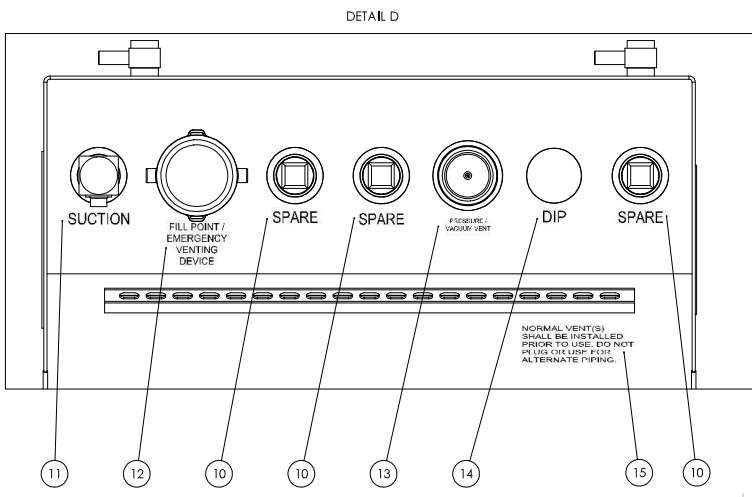
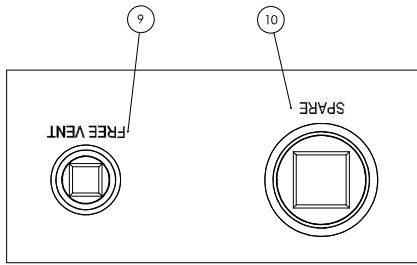
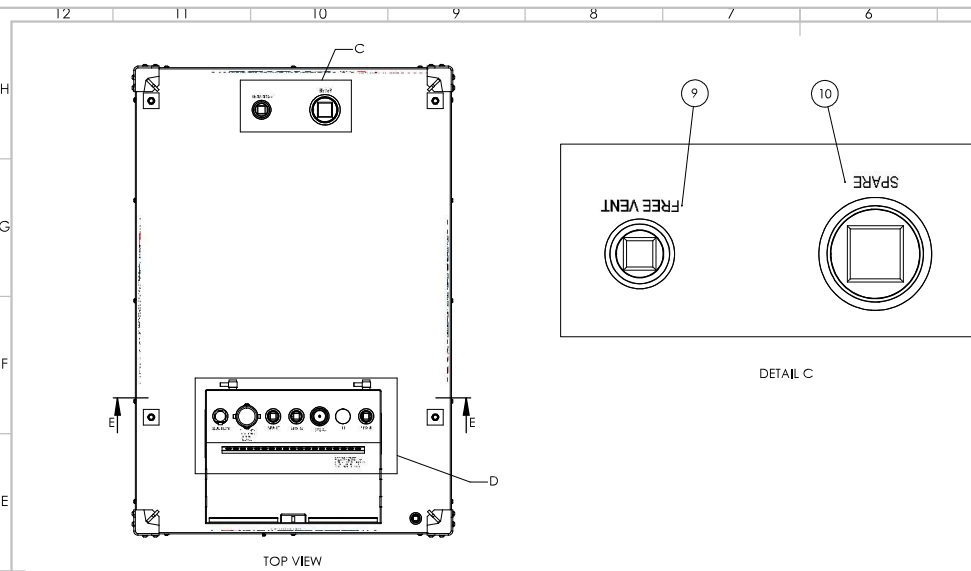
DETAIL A

NOTES

1. ALL DIMENSIONS ARE IN MM.
2. STICKER SHALL BE SUPPLIED BY UL APPROVED VENDOR ONLY.
3. SERIAL NUMBER WILL BEGIN AS FOLLOWS:
LTSK-0753-0001, LTSK-0753-0002, LTSK-0753-0003 . . .

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

GENERAL NOTES		SCALE		DESCRIPTION	
1. ALL DIMENSIONS ARE IN MM.		DWN		1:1	
2. STICKER SHALL BE SUPPLIED BY UL APPROVED VENDOR ONLY.		FINISH		26/05/2025	
3. SERIAL NUMBER WILL BEGIN AS FOLLOWS: LTSK-0753-0001, LTSK-0753-0002, LTSK-0753-0003 . . .		END USER		LTSK-0753-ASSEMBLY DECAL MAP	
Part of the Fuelco Group		DRAWING NUMBER		SHEET 1 OF 3	
LTSK-0753-0001, LTSK-0753-0002, LTSK-0753-0003 . . .		LTSK-0753-DECALS-00		REV 0	



NO.	DECAL	LENGTH	WIDTH	FONT	FONT HEIGHT	QTY
1	FUELCO LOGO	700	210	-	-	4
2	SERIAL NUMBER	330	55	ARIAL NARROW	50	2
3	SAFE FILL LEVEL	550	55	ARIAL NARROW	50	2
4	GROSS VOLUME	800	70	ARIAL NARROW	65	2
5	ADDITIONAL SIGNAGE	230	60	-	-	2
6	AMERICAN FLAG	100	60	-	-	2
7	EARTHING POINT	147	17.3	ARIAL NARROW	15	1
8	FLAMMABLE LIQUID	800	90	ARIAL NARROW	80	2
9	FREE VENT	100	17.3	ARIAL NARROW	15	1
10	SPARE	58.4	17.3	ARIAL NARROW	15	4
11	SUCTION	80	17.3	ARIAL NARROW	15	1
12	FILL POINT	106	40	ARIAL NARROW	10	1
13	PRESSURE/ VACUUM VENT	60	17.3	ARIAL NARROW	6.4	1
14	DIP	32	17.3	ARIAL NARROW	15	1
15	ADDITIONAL NOTE	145	68	ARIAL NARROW	10	1
16	DO NOT OBSTRUCT	71	29	ARIAL NARROW	10	1
17	NORMAL VENT	128	17.3	ARIAL NARROW	15	1

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

Fuelco
complete fuel storage solutions

GENERAL NOTES

- DO NOT SCALE
- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
- ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
- ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
- ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED

SCALE

NTS

DWN

U

26/05/2025

DESCRIPTION

LTSK-0753 ASSEMBLY

NOZZLE DECAL

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REVISIONS

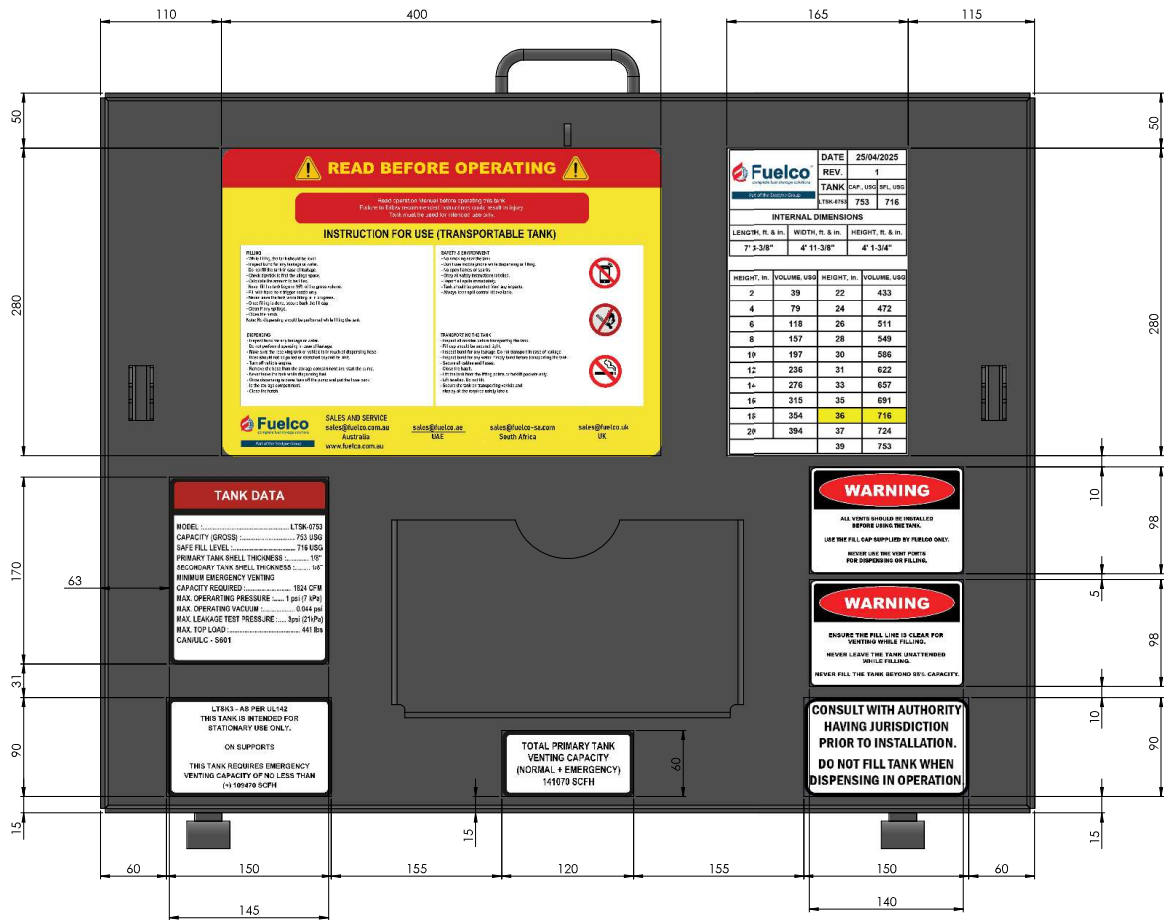
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02	END USER	26/05/2025

DRAWING NUMBER

LTSK-0753-DECALS-00

SHEET 2 OF 3

REV 0



IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST



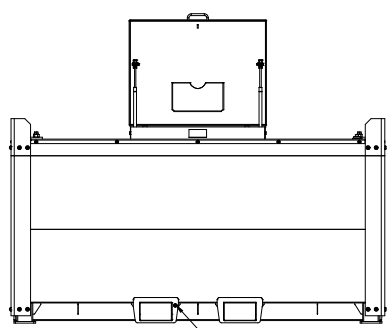
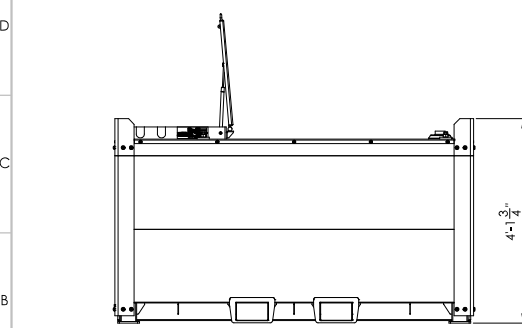
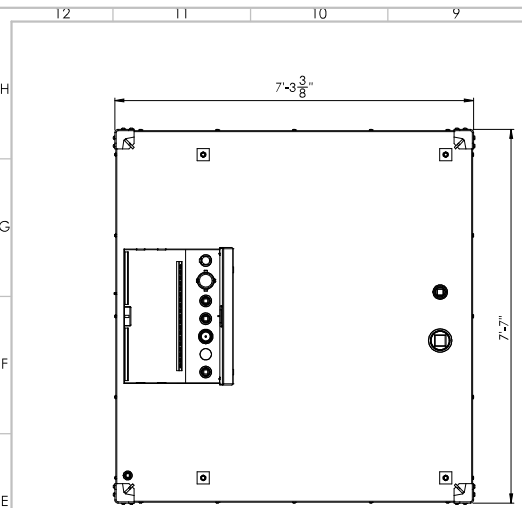
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GENERAL NOTES
1. DO NOT SCALE
2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
3. DIMENSIONS ARE TO THE CENTER OF THE HATCH
4. DIMENSIONS ARE TO THE CENTER OF THE HATCH
5. DIMENSIONS ARE TO THE CENTER OF THE HATCH

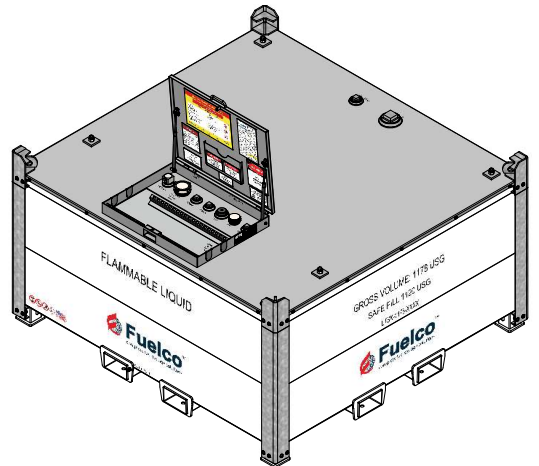
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1:1
END
USER

DESCRIPTION
LTSK-0753 ASSEMBLY
FRONT HATCH LID DECAL
DRAWING NUMBER
LTSK-0753-DECALS-00
SHEET 3 OF 3
REV 0



- NOTES
- 1. BAFFLED INTERNALLY.
 - 2. CONTAINMENT AREA FOR PUMP, HOSE AND/OR NOZZLE STORAGE.
 - 3. DESIGNED TO BE STACKED FOR STORAGE.
 - 4. VENT PIPE IS OPTIONAL.
 - 5. ALL DIMENSIONS ARE IN FEET & INCHES.

TANK DATA	
DESIGNED TO	AS1692, UL142, UN31A
BUILT TO	UL142, UN31A
GROSS VOLUME	1 178 USG (4 460 L / 981 IG)
SAFE FILL VOLUME	1 120 USG (4 240 L / 932 IG)
PNEUMATIC TEST	21 - 35 kPa (INNER & OUTER)
TOTAL MASS	2 547 lb (EMPTY)
PAINT	BASE COAT: INTERGARD 345 AKZONOBEL (INT.), THICKNESS: 130 - 150µm
	TOP COAT: INTERTHANE 990 AKZONOBEL (INT.), THICKNESS: 80 - 120µm



0	ISSUED FOR INFORMATION	27/05/2025	IJ	CH
REV.	DESCRIPTION	DATE	DWN	APP
REVISIONS				

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

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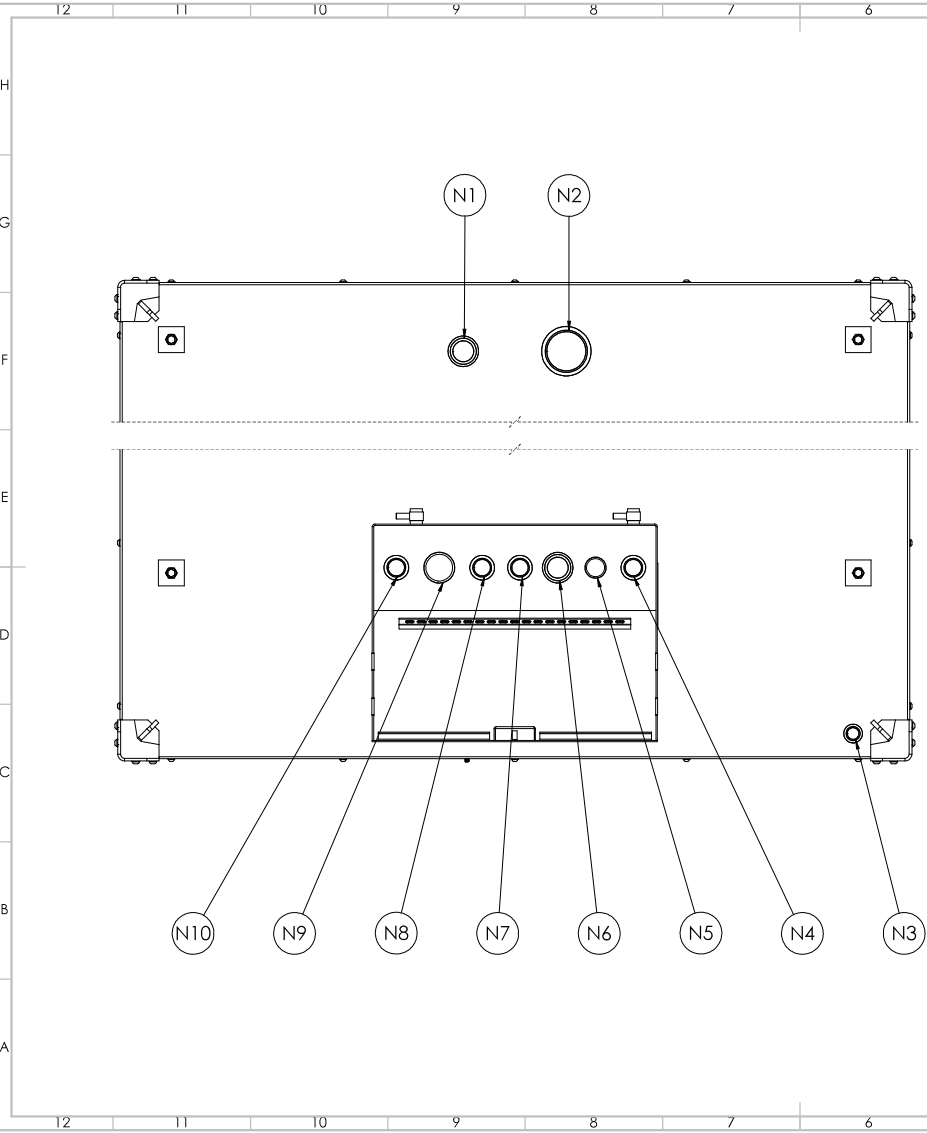
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General Notes: DO NOT SCALE. UNLESS STATED OTHERWISE, ALL DIMENSIONS ARE IN MILLIMETERS. ALL DIMENSIONS ARE TO THE CENTER UNLESS SPECIFIED OTHERWISE. DIMENSIONS ARE TO THE CENTER UNLESS SPECIFIED OTHERWISE.

ITEM NO.	DESCRIPTION	QUANTITY
#1	ONE DECIMAL PLACE	1
#2	ONE DECIMAL PLACE	1
#3	ONE DECIMAL PLACE	1

SCALE	NTS
DWN	IJ
DATE	27/05/2025
FINISH	
END	
USER	

DESCRIPTION	LTSK-1178 ASSEMBLY
GENERAL ARRANGEMENT	
SHEET 1 OF 3	
DRAWING NUMBER	LTSK-1178-CA
REV	0



NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	2"	NPT-F x 15/16" LONG	SPARE / FREE-TO-AIR VENT
N2	4"	NPT-F x 1-1/8" LONG	SPARE
N3	1"	NPT-F x 25/32" LONG	INTERSTITIAL SPACE DRAIN POINT
N4	1 1/2"	NPT-F x 15/16" LONG	SPARE
N5	2"	NPT-F x 40" LONG	DIP PIPE 1" FROM FLOOR
N6	2"	NPT-F x 15/16" LONG	PRESSURE/VACUUM VENT
N7	1 1/2"	NPT-F x 15/16" LONG	SPARE
N8	1 1/2"	NPT-F x 15/16" LONG	SPARE
N9	3"	NPT-M x 39" LONG	FILL PIPE 2" FROM FLOOR
N10	1 1/2"	NPT-F x 15/16" LONG	SUCTION C/W 1" PIPE 1" FROM FLOOR

NOTES

1. FRONT HATCH LID HIDDEN FOR CLARITY.

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST



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GENERAL NOTES

NO PART SCALE

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES

ALL SURFACES ARE TO BE FINISHED

REMOVE & REPLACE ALL HATCH LIDS

FOR DETAILS

SCALE

NTS

DWN

1/1

27/05/2025

DESCRIPTION

LTSK-1178 ASSEMBLY

NOZZLE SCHEDULE

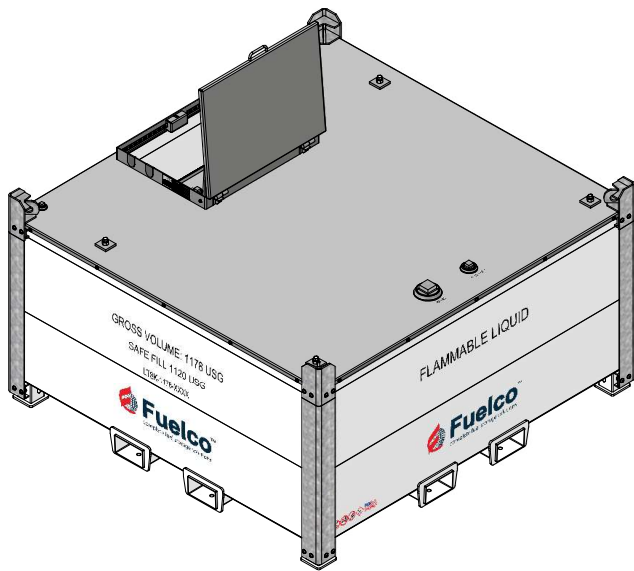
SHEET 2 OF 3

DRAWING NUMBER

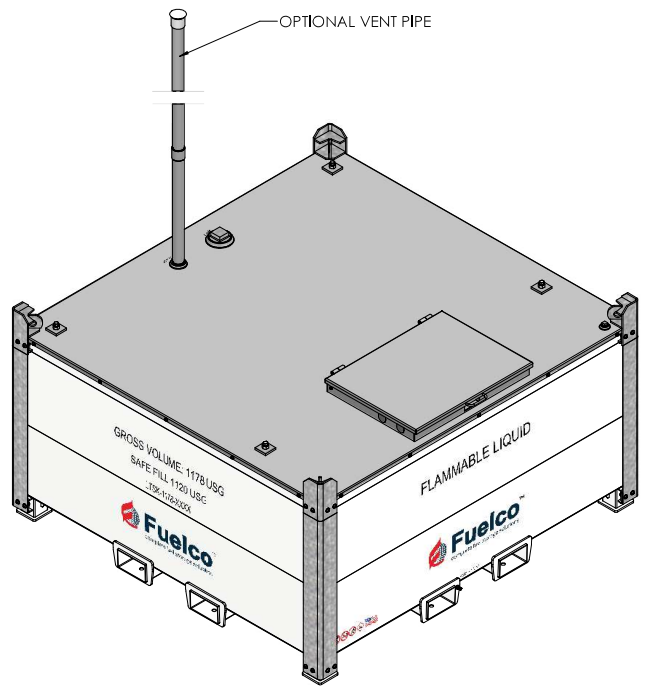
LTSK-1178-GA

REV

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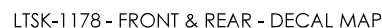


VIEW #1:
- REAR NOZZLE ARRANGEMENT



VIEW #2:
- OPTIONAL VENT PIPE

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST									
 complete fuel storage solutions Part of the Eneco Group	GENERAL NOTES		SCALE		NTS		DESCRIPTION		
	DO NOT SCALE		DWN		U		LTSK-1178 ASSEMBLY		
	UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES		FINISH		27/05/2025		ISOMETRIC VIEWS		
	ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED		END USER				DRAWING NUMBER		
LTSK-1178-0001		REV		SHEET 3 OF 3		LTSK-1178-CA		REV 0	



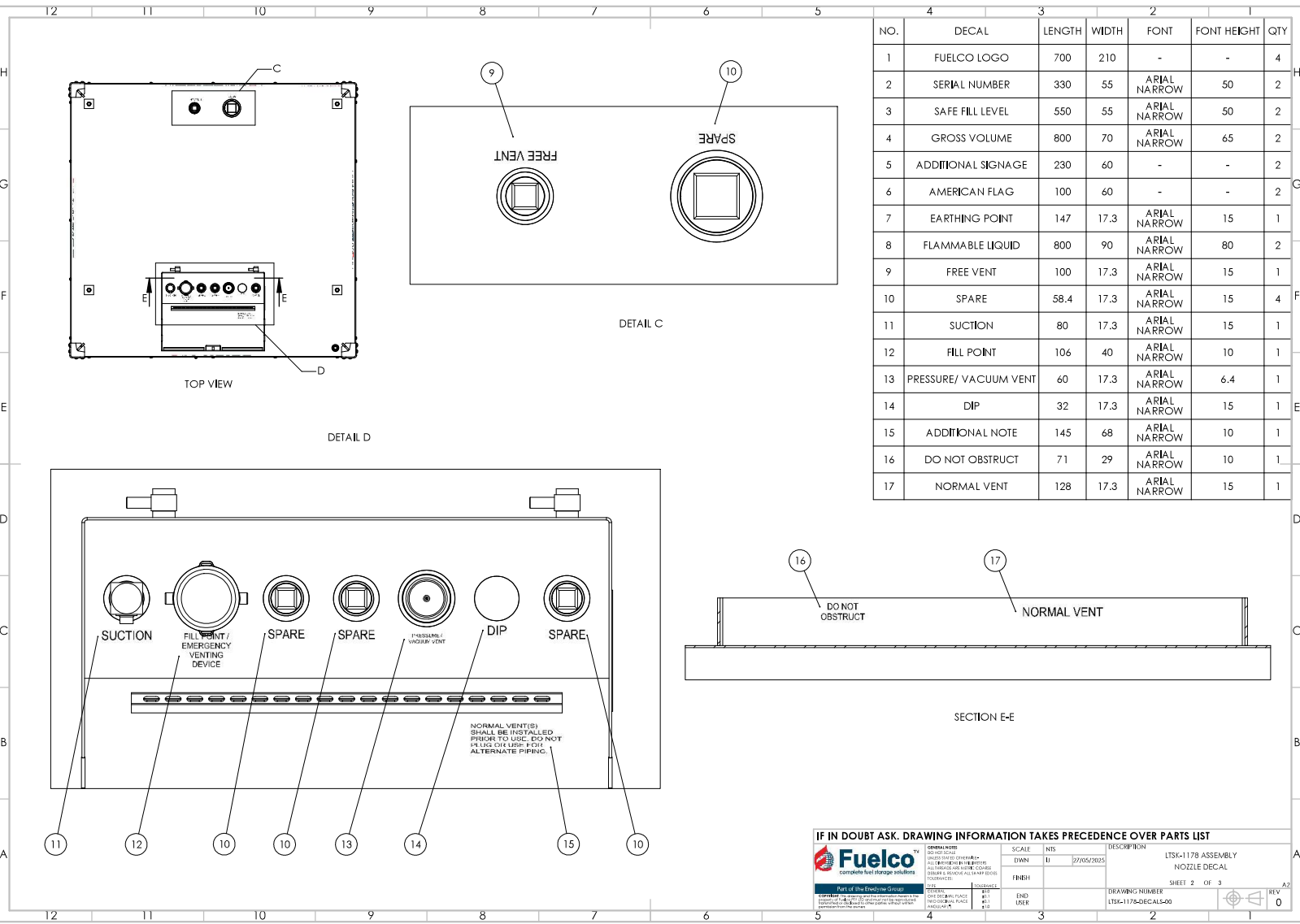
NOTES

- | |
|---|
| 1. ALL DIMENSIONS ARE IN MM. |
| 2. STICKER SHALL BE SUPPLIED BY UL APPROVED VENDOR ONLY. |
| 3. SERIAL NUMBER WILL BEGIN AS FOLLOWS:
LTSK-1178-0001, LTSK-1178-0002, LTSK-1178-0003 . . . |

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

 Fuelco TM complete fuel storage solutions	GENERAL NOTES: 1. DO NOT SCALE 2. UNLESS STATED OTHERWISE: ALL DIMENSIONS ARE IN FEET; ALL TOLERANCES ARE NOTED; COARSE FINISHES & REMOVE ALL IF ANY BOBES TOLERANCES		SCALE: NTS DWN U 7/20/2025		DESCRIPTION LTSK-1178 ASSEMBLY DECAL MAP	
	FINISH		END USER		SHEET 1 OF 3	
	TITLE 1. LOCATION 2. DATE 3. DRAWN BY 4. CHECKED BY 5. APPROVED BY 6. DATE		DRAWING NUMBER LTSK-1178-DECAL-00		REV 0	
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Fuelco complete fuel storage solutions

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GENERAL NOTES

DO NOT SCALE

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

ALL DIMENSIONS ARE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED

DO NOT SCALE

DO NOT SCALE

SCALE

NTS

DWN

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27/05/2025

DESCRIPTION

LTSK-1178 ASSEMBLY

NOZZLE DECAL

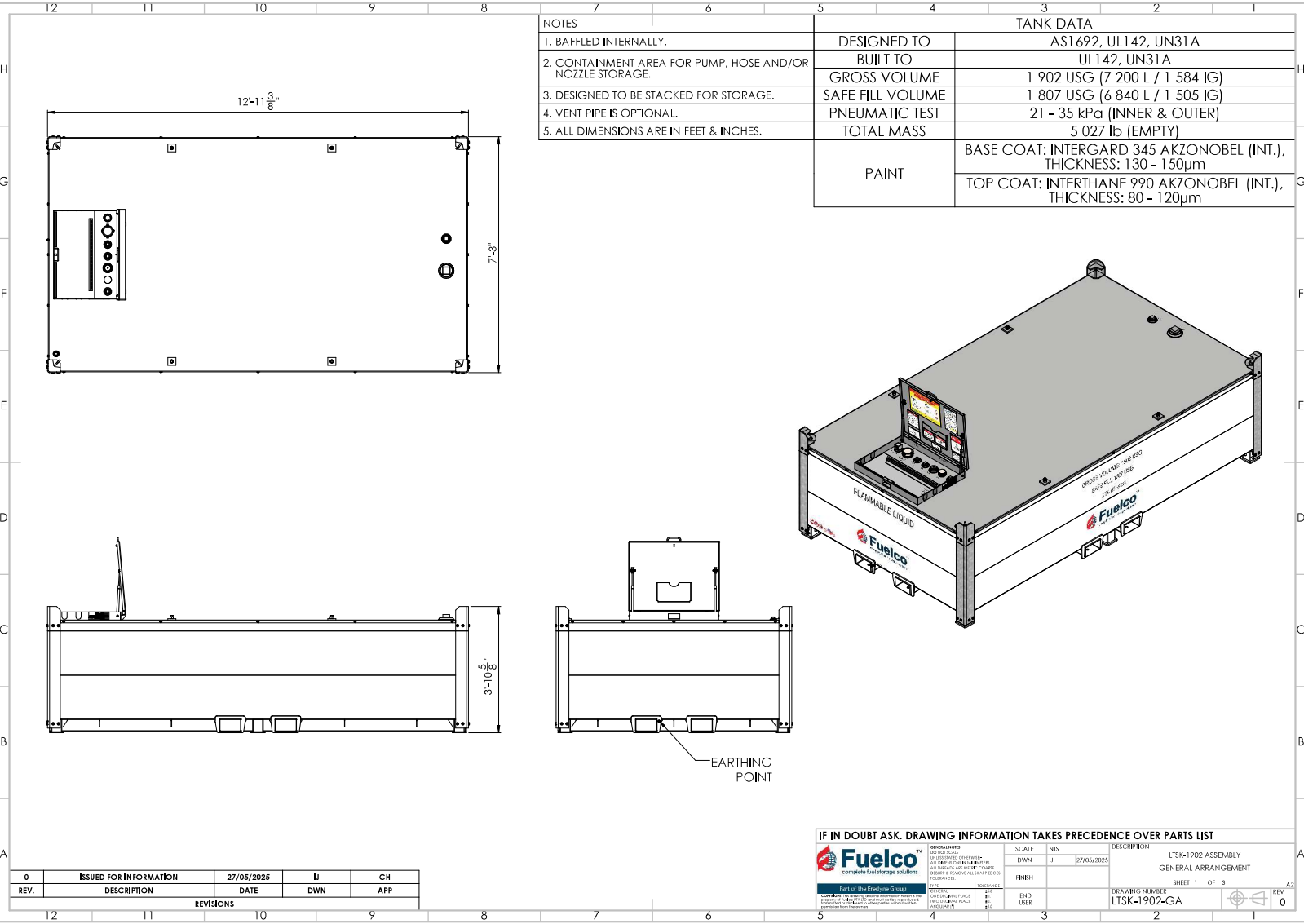
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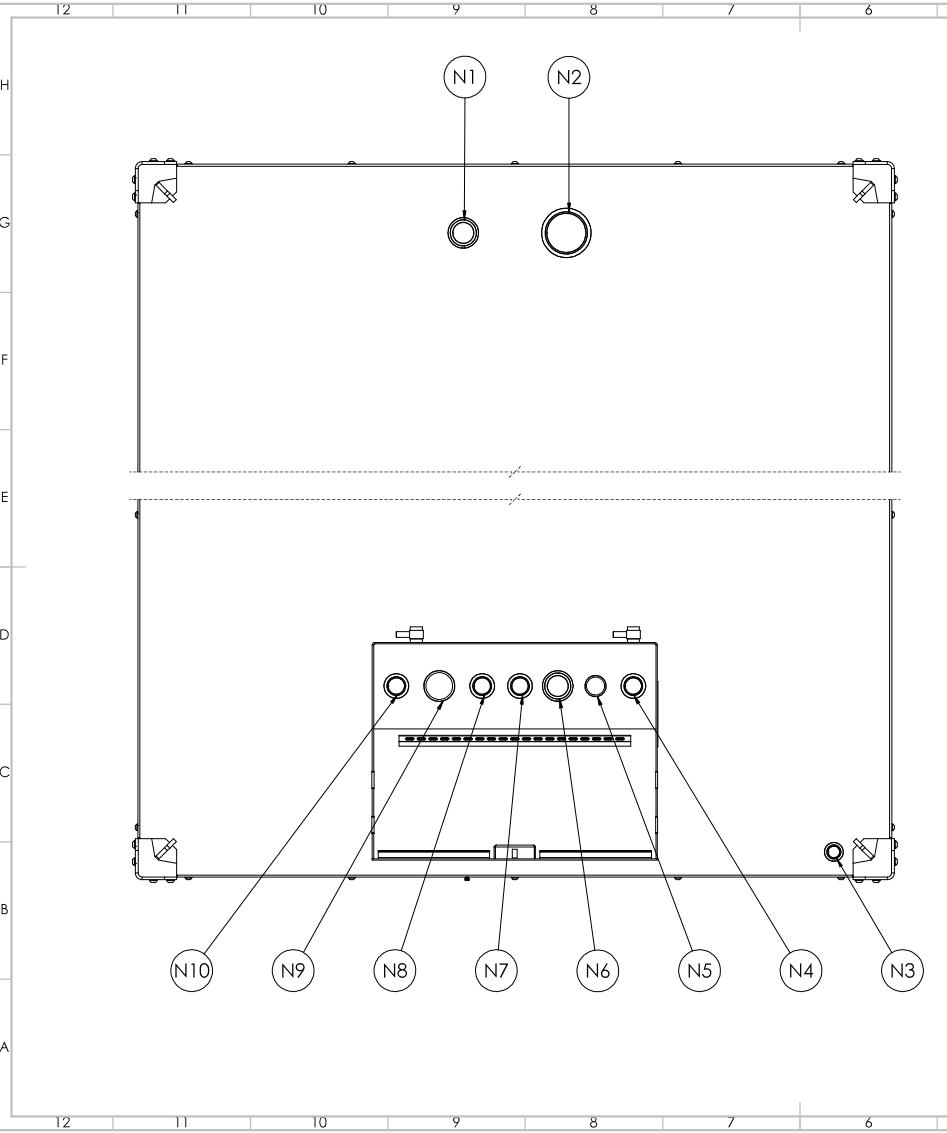
LTSK-1178-DECALS-00

SHEET 2 OF 3

REV

0





NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	2"	NPT-F x 15/16" LONG	SPARE / FREE-TO-AIR VENT
N2	4"	NPT-F x 1-1/8" LONG	SPARE
N3	1"	NPT-F x 25/32" LONG	INTERSTITIAL SPACE DRAIN POINT
N4	1 1/2"	NPT-F x 15/16" LONG	SPARE
N5	2"	NPT-F x 3/6" LONG	DIP PIPE 1" FROM FLOOR
N6	2"	NPT-F x 15/16" LONG	PRESSURE/VACUUM VENT
N7	1 1/2"	NPT-F x 15/16" LONG	SPARE
N8	1 1/2"	NPT-F x 15/16" LONG	SPARE
N9	3"	NPT-M x 35" LONG	FILL PIPE 2" FROM FLOOR
N10	1 1/2"	NPT-F x 15/16" LONG	SUCTION C/W 1" PIPE 1" FROM FLOOR

NOTES
1. FRONT HATCH LID HIDDEN FOR CLARITY.

IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST



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Enviroline is a leading provider of environmental solutions for the oil and gas industry. We provide a wide range of services including environmental impact assessments, monitoring, and remediation. Our expertise spans across various sectors, ensuring compliance with regulatory requirements and minimizing environmental risks.

GENERAL NOTES

NO PART SCALE

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.

ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

DOUBLE & REMOVE ALL LEAK TESTS (TYPICAL)

SCALE

NTS

DWN

U

27/05/2025

DESCRIPTION

LSK-1902 ASSEMBLY

NOZZLE SCHEDULE

DATE

2025

END USER

LOGSHEET

#1

#2

#3

FINISH

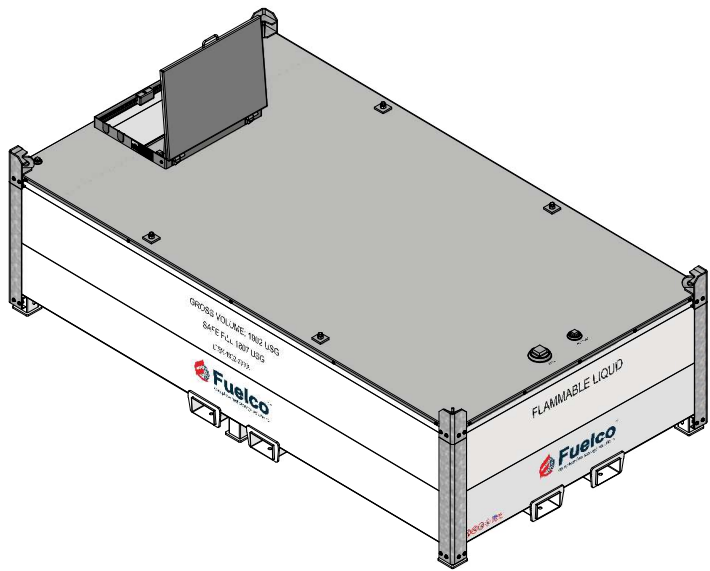
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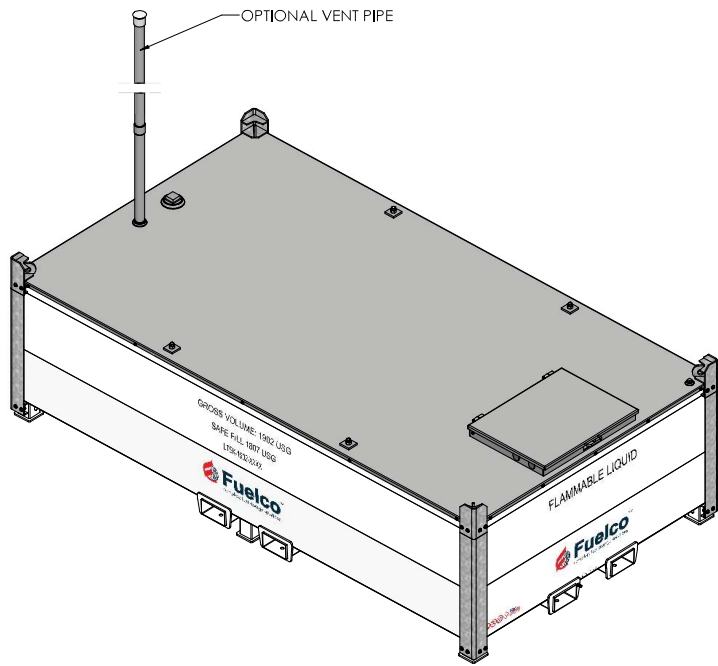
LSK-1902-GA

SHEET 2 OF 3

REV 0

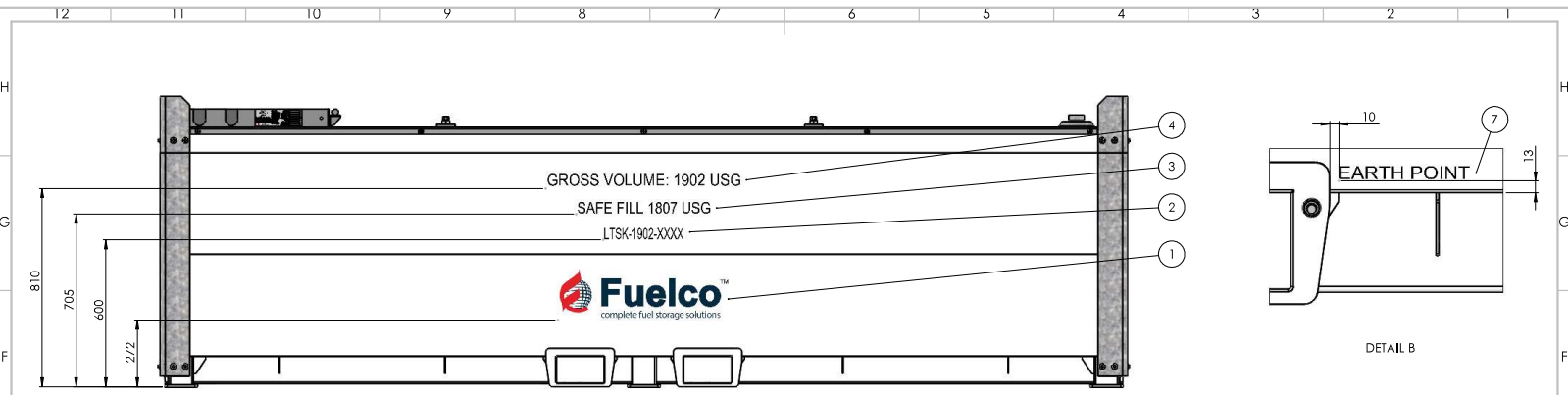


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- REAR NOZZLE ARRANGEMENT

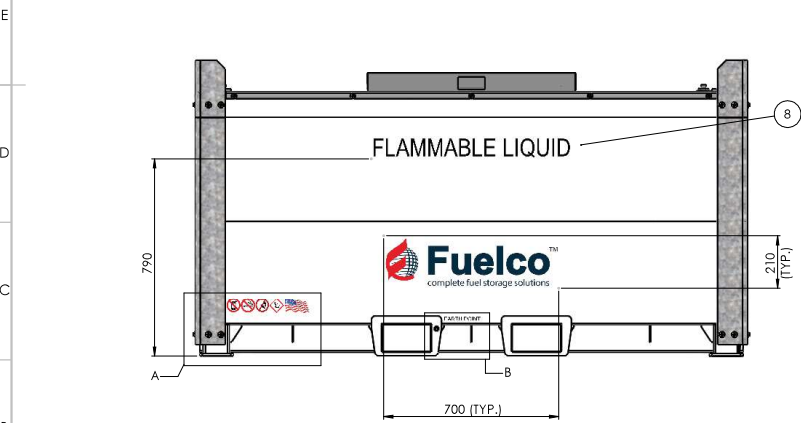


VIEW #2:
- OPTIONAL VENT PIPE

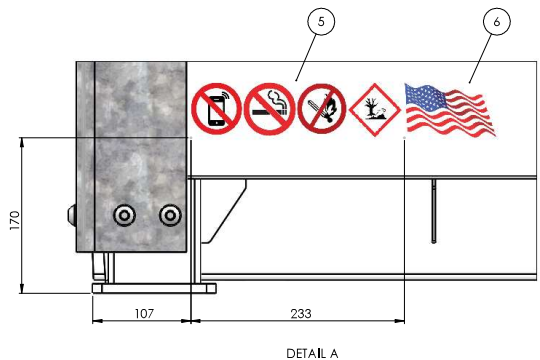
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 Fuelco complete fuel storage solutions		GENERAL NOTES		SCALE	NTS	DESCRIPTION			
		1. SEE PARTS LIST FOR ALL MATERIALS AND FINISHES. 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED. 3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED. 4. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.		DWN	1:1	LTSK-1902 ASSEMBLY ISOMETRIC VIEWS			
Part of the Fuelco Group		FINISH		END	USER	DRAWING NUMBER LTSK-1902-GA			
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		ITEM NO.							
		QTY							



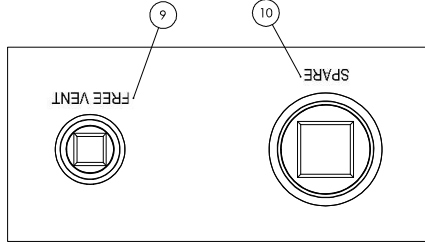
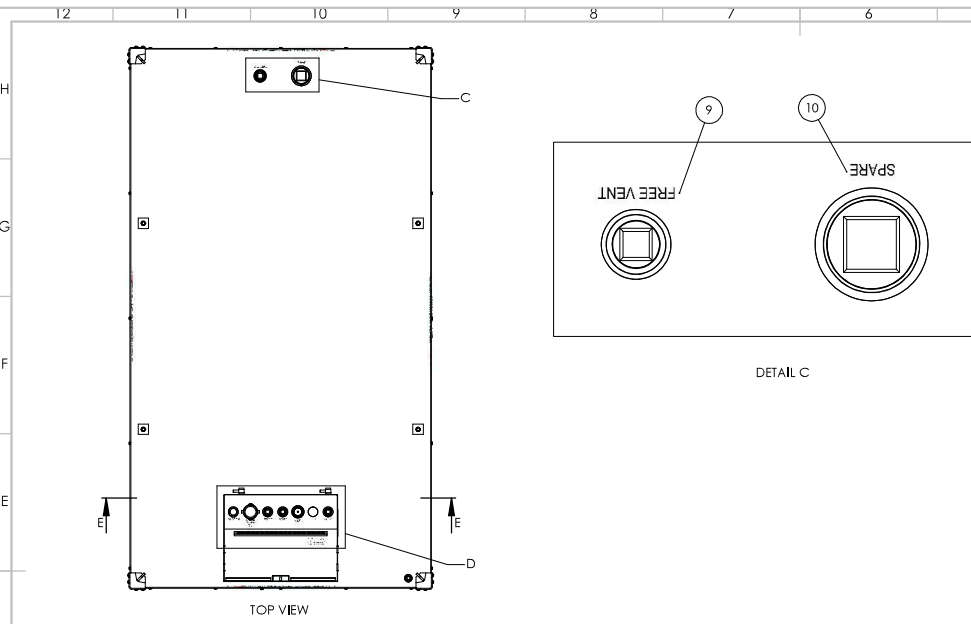
LTSK-1902 - LHS & RHS - DECAL MAP



LTSK-1902 - FRONT & REAR - DECAL MAP

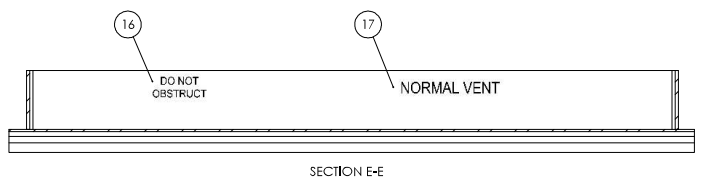
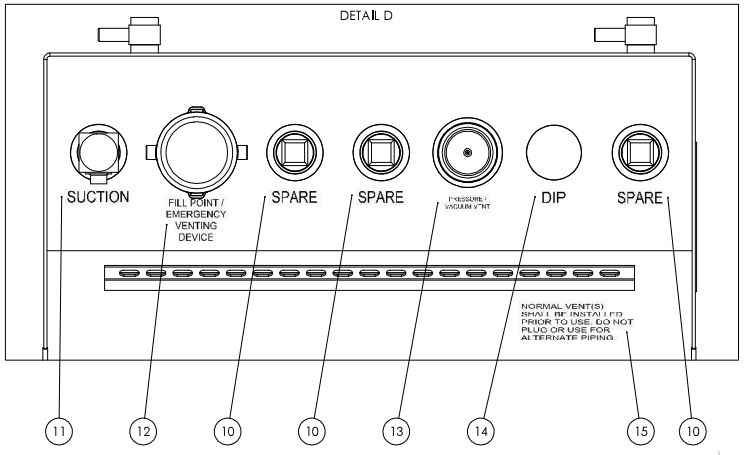


NOTES			
1. ALL DIMENSIONS ARE IN MM.			
2. STICKER SHALL BE SUPPLIED BY UL APPROVED VENDOR ONLY.			
3. SERIAL NUMBER WILL BEGIN AS FOLLOWS: LTSK-1902-0001, LTSK-1902-0002, LTSK-1902-0003 . . .			
IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST			
 complete fuel storage solutions Part of the Eneco Group	GENERAL NOTES DO NOT SCALE UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED DRAWER & REVISOR ALL PARTS LISTED FOR PURCHASE	SCALE DWN FINISH END USER	DESCRIPTION LTSK-1902 ASSEMBLY DECAL MAP SHEET 1 OF 3 DRAWING NUMBER LTSK-1902-DECALS-00
REV.	DESCRIPTION	DATE	APP
0	ISSUED FOR PRODUCTION	27/05/2025	U
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DETAIL C

NO.	DECAL	LENGTH	WIDTH	FONT	FONT HEIGHT	QTY
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2	SERIAL NUMBER	330	55	ARIAL NARROW	50	2
3	SAFE FILL LEVEL	550	55	ARIAL NARROW	50	2
4	GROSS VOLUME	800	70	ARIAL NARROW	65	2
5	ADDITIONAL SIGNAGE	230	60	-	-	2
6	AMERICAN FLAG	100	60	-	-	2
7	EARTHING POINT	147	17.3	ARIAL NARROW	15	1
8	FLAMMABLE LIQUID	800	90	ARIAL NARROW	80	2
9	FREE VENT	100	17.3	ARIAL NARROW	15	1
10	SPARE	58.4	17.3	ARIAL NARROW	15	4
11	SUCTION	80	17.3	ARIAL NARROW	15	1
12	FILL POINT	106	40	ARIAL NARROW	10	1
13	PRESSURE/ VACUUM VENT	60	17.3	ARIAL NARROW	6.4	1
14	DIP	32	17.3	ARIAL NARROW	15	1
15	ADDITIONAL NOTE	145	68	ARIAL NARROW	10	1
16	DO NOT OBSTRUCT	71	29	ARIAL NARROW	10	1
17	NORMAL VENT	128	17.3	ARIAL NARROW	15	1



IF IN DOUBT ASK. DRAWING INFORMATION TAKES PRECEDENCE OVER PARTS LIST

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GENERAL NOTES:
DO NOT SCALE
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED

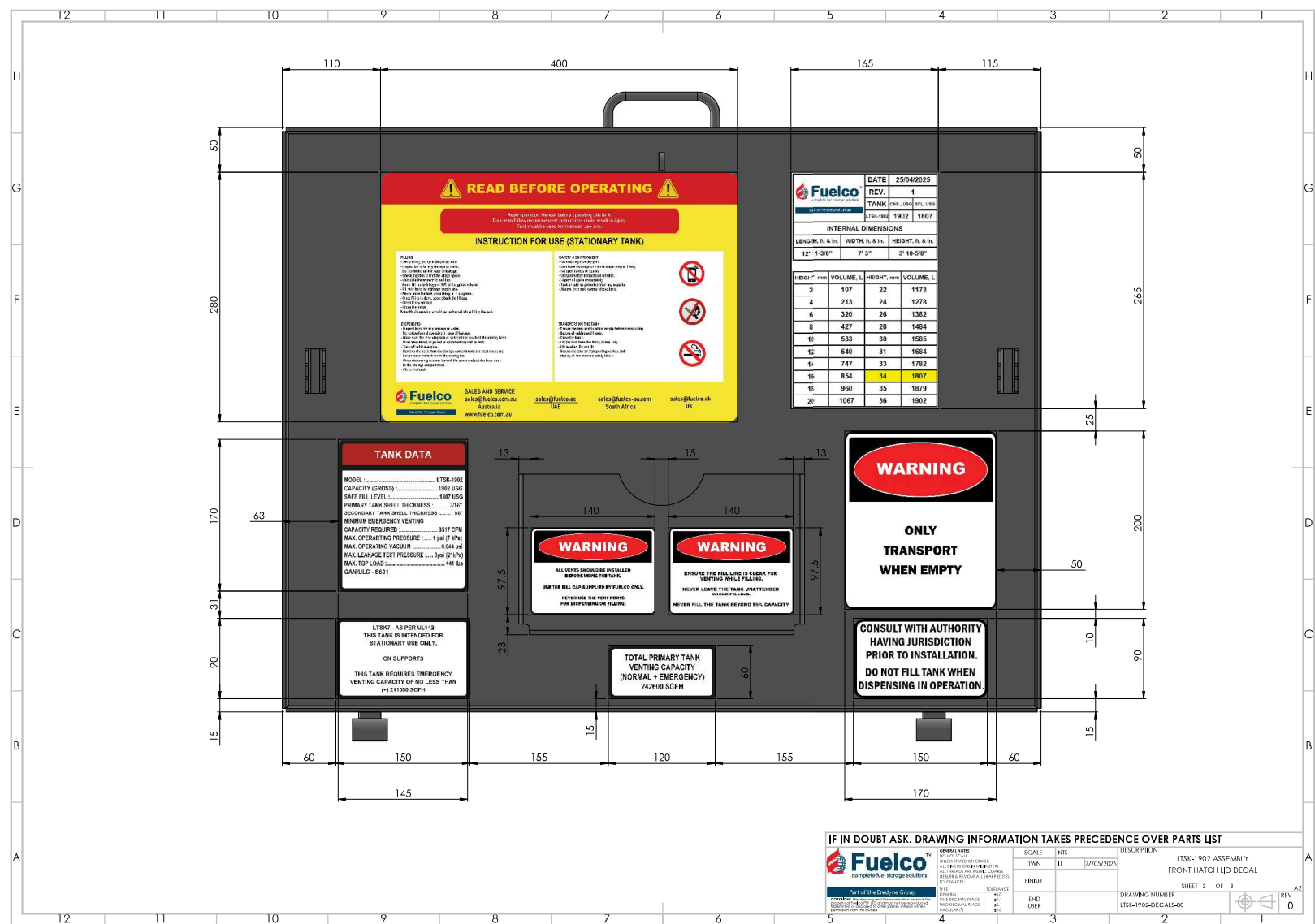
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DWN: UI
DATE: 07/05/2025

DESCRIPTION: LTSK-1902 ASSEMBLY NOZZLE DECAL

SHEET 2 OF 3

DRAWING NUMBER: LTSK-1902-DECALS-00

REV: 0





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LTSK KUBE SERIES TANK OPERATIONS AND MAINTENANCE MANUAL



Rev 0 – 20/01/2026

Prepared by Kyle Marcus

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FUELCO AUSTRALIA PTY LTD

29 Kitchen Rd

Dandenong South

VIC

Australia

Email: sales@Fuelco.com.au

Web: www.Fuelco.com.au

A.B.N. 34 615 177 930

FUELCO LTSK KUBE SERIES TANK OPERATIONS AND MAINTENANCE MANUAL

Rev. 0, 20/01/2026

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0	20/01/2026	First Draught	Kyle Marcus

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2. General Information

2.1. Introduction

This manual contains an overview of the Fuelco Diked Kube (LTSK) series tanks. Customized tanks and other tanks in the Fuelco range are not covered in this manual. All written and visual data contained in this document reflects the latest product information available at the time of publication and Fuelco reserve the right to make changes at any time without notice.

2.2. Tank Design Details

The design of the LTSK units involves an outer secondary tank being built around an inner primary tank. In the rare event of a failure from the primary tank, any leakage will be contained within the interstitial space between the two tanks.

For the most up to date information regarding Fuelco equipment and products please refer to our web site www.fuelco.com.au.

The LTSK units are designed to meet or exceed the following standards:

- **UN31A – Standard for transportation of dangerous goods.**
The Dike-Kubes *LTSK-1*, *LTSK-2* and *LTSK-3* are permitted to transport when full of fuel. UN31A covers the 8-point test procedure which Fuelco's DIKE-KUBE tank have passed. This certification allows them for the containment and transportation of hazardous and flammable goods.
- **UL142 – Steel Aboveground Tanks for Flammable and Combustible Liquids.**
UL142 covers the design and testing requirements for above ground tanks for the storage of flammable and combustible liquids. Nominated Fuelco equipment has been designed and independently tested / verified by Underwriters Laboratories to comply with this standard.
- **ULC-S601 – Standard for Shop Fabrication of Steel Above Ground Tanks for Flammable and Combustible Liquids.**
ULC-S601 sets forth the minimum requirements for the design, manufacture and testing of steel, non-pressurized tanks for above ground storage of flammable and combustible liquids. Nominated Fuelco equipment has been designed and independently tested / verified by Underwriters Laboratories to comply with this standard.
- **AS1692 – 2006 Steel Tanks for Flammable and Combustible Liquids**
AS1692 - 2006 is the Australian standard that covers the design requirements for tanks used for the storage of flammable and combustible liquids.

- **AS1940 – 2017 The Storage and Handling of Flammable and Combustible Liquids**
 AS1940 - 2017 is the Australian standard covering the design, operation and maintenance of flammable and combustible liquid storages. Where applicable, ALL equipment is designed to comply with the requirements of AS1940 – 2017, if correctly installed.

***NOTE:** In Australia it is the customer's responsibility to ensure the tanks are installed to this standard.*
- **NFPA30 – 2015 Flammable and Combustible Liquids Code.**
 NFPA 30 – 2015 is the National Fire Protection Associations standard covering the design, operation and maintenance of flammable and combustible liquid storages. Enforceable under OSHA and used by many countries, NFPA 30 provides safeguards to reduce the hazards associated with the storage, handling, and use of flammable and combustible liquids.
- AS1020 The control of undesirable static electricity
- AS1851 Maintenance of fire protection equipment
- AS2865 Safe working in a confined space
- AS2683 Hoses and hose assemblies for petroleum products
- AS3000 SAA Wiring Rules

3. Tank Details

3.1. Tank Certification

3.1.1 UL142 Certificate of Compliance

CERTIFICATE OF COMPLIANCE

Certificate Number 20170714-MH60954
Report Reference MH60954-20121130
Issue Date 2017-JULY-14

Issued to: Eredyne Group Pty Ltd
6 Alexandra Ave
Elsternwick
Victoria 3185 AUSTRALIA

This is to certify that
representative samples of

ABOVEGROUND FLAMMABLE-LIQUID TANKS
Dual Certification for Secondary Containment Types of
Aboveground Steel Tanks for Flammable and Combustible
Liquids:

Design Shapes – Rectangular
Tank Options – Lift Lugs & Supports

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

Standard(s) for Safety: UL 142, Steel Aboveground Tanks for Flammable and
Combustible Liquids,
ULC-S601-14, Standard for Shop Fabricated Steel
Aboveground Tank for Flammable and Combustible
Liquids.

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

B. Mahlen

Bruce Mahlenholz, 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/about/locations>.



3.1.2 UN 31A – 1000 Litre Kube Tank

Approved marking		31A/Y/MMYY/AUS/EREDYNE31636/4385/1218kg <i>MMYY signifies the year of manufacture (last two digits)</i>
	Additional information required: Capacity (in Litres of water at 20°C): 957L Tare Mass: 405kg Test (gauge) pressure: 200kPa Body material and minimum thickness: Carbon steel / 3mm Date of last leakproofness test: Month and Year Date of last Inspection: Month and Year Manufacturer serial number: Mandatory	

3.1.3 UN 31A – 2000 Litre Kube Tank

Approved marking		31A/Y/MMYY/AUS/EREDYNE31637/9065/2518kg <i>MMYY signifies the year of manufacture (last two digits)</i>
	Additional information required: Capacity (in Litres of water at 20°C): 2080L Tare Mass: 750kg Test (gauge) pressure: 200kPa Body material and minimum thickness: Carbon steel / 3mm Date of last leakproofness test: Month and Year Date of last Inspection: Month and Year Manufacturer serial number: Mandatory	

3.1.4 UN 31A – 3000 Litre Kube Tank

Approved marking		31A/Y/ ## /AUS/EREDYNE31663/11908/3308 <i>## signifies the year of manufacture (last two digits)</i>
	Capacity (in Litres of water at 20°C): 2870L Tare Mass: 868kg Test (gauge) pressure: 200kPa Body material and minimum thickness: Carbon steel / 3mm Date of last leakproofness test: Month and Year Date of last Inspection: Month and Year Manufacturer serial number: Mandatory  <i>Stacking pictogram as required by UN 6.5.2.2.2</i> <i>The minimum dimensions shall be 100 mm x 100 mm to printer's marks.</i> <i>The letters and numbers indicating the mass shall be at least 12 mm</i>	

3.2. Tank-Specific Details

For details specific to your tank including technical datasheets, general arrangement drawings and strapping tables, visit www.fuelco.com.au, email sales@fuelco.com.au, or call 1300Fuelco (Australian Customers Only). Our global contact details can be found at www.fuelco.com.au.



Figure 1 – Section View of Tank
(May differ slightly from actual product)

3.3. Tank Dimensions, Volumes and Certifications

Tank Model	Capacity GFL (USG)	Length (ft)	Width (ft)	Height (ft)	Weight – Empty (lbs)	Certification
LTSK-1/251	251	3'-8 $\frac{3}{8}$ "	3'-8 $\frac{3}{8}$ "	4'-1 $\frac{3}{4}$ "	893	UN31A & UL142
LTSK-2/545	545	7'-3 $\frac{3}{8}$ "	3'-8 $\frac{3}{8}$ "	4'-1 $\frac{3}{4}$ "	1653	UN31A & UL142
LTSK-3/753	753	7'-3 $\frac{3}{8}$ "	4'-11 $\frac{3}{8}$ "	4'-1 $\frac{3}{4}$ "	1913	UN31A & UL142
LTSK-5/1178	1178	7'-3 $\frac{3}{8}$ "	7'-7"	4'-1 $\frac{3}{4}$ "	2546	UL142
LTSK-7/1902	1902	12'-11 $\frac{3}{8}$ "	7'-3"	3'-10 $\frac{3}{8}$ "	5027	UL142

Table 1 – Tank Specific Volumes and Dimensions

4. Installation and Commissioning

4.1. Local Compliance, Registration and Regulations

The installation, operation and maintenance of the Fuelco tanks and equipment shall be compliant with AS1940 / NFPA 30 & 30A or the equivalent. Some State and Local Governments may also have their own regulations governing the storage of flammable and combustible liquids, as well as environmental protection regulations. Some states require a license or registration to store and / or sell fuel. Please check all State and Local Government regulations in the area before installation as these may take precedence over AS1940 / NFPA 30 & 30A or its equivalent.

4.2. Site Preparation

The relevant site area and plant shall be prepared and compliant to AS1940 / NFPA 30 & 30A or the equivalent local requirement. The site should be free from the potential for fire, explosion, or exposure to hazardous substances. It is also recommended that a Hazard Analysis/ Risk Assessment is carried out before any task is commenced.

Precautionary measures shall include the following, as appropriate:

- Identification of both the equipment to be worked on and other affected equipment
- Depressurization, draining and disconnection of such equipment
- Isolation and locking-off of the equipment from other equipment
- Purging of the equipment
- Where the work to be carried out may impact upon hazardous substances, the removal of those substances from the immediate vicinity is required
- Sealing-off of sewers
- Provision of appropriate fire-protection equipment
- Provision of Spill Kits
- Provision of Eyewash / Emergency Shower systems as required
- Testing of the work environment for flammable or hazardous vapours and oxygen content

4.3. Foundation

Fuelco equipment is designed to be placed on a hard level surface such as a concrete slab, earth hardstand or concrete footings; no bunding is required under normal conditions. The site must have adequate bearing capacity for the weight of the tanks and associated equipment. Also take into consideration the likelihood of extreme winds, floods and other naturally occurring events in the securing of tanks to the ground.

4.4. Lifting and Unloading

All LTSK tank models are supplied with lifting lugs on each of the top corners which are certified as per AS3990-1993.

Sizes, LTSK-1, LTSK-2 and LTSK-3 are designed and certified for lifting while full. All other sizes are designed to be lifted when the tank is **EMPTY**. The LTSK range tanks are also supplied with forklift entries for an additional means of lifting and handling, with cut-outs for the use of pallet jacks. Only competent persons with suitable lifting equipment and training should be used to carry out tank handling or lifting. Care must be taken with pumping equipment and accessories when unloading. A lift plan should be developed by competent personnel prior to any lifting and unloading being undertaken.

****Note:** *Only the LTSK1, LTSK2 and LTSK3 have UN IBC Certification and may be transported while containing product inside.*

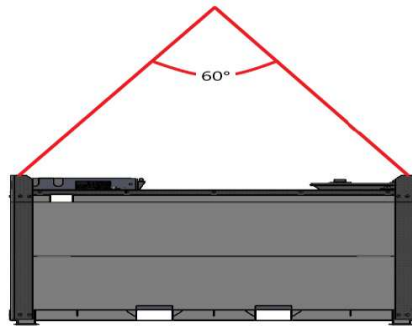


Figure 2 – Tank Lifting Diagram

Note: The Internal Angle between the slings/chains should not under any circumstances exceed 45°. Any increase in the angle would increase the load stress on the lifting slings/chains. Chains/slugs should only be fixed to the corner lifting lugs.

4.5. Equipment and Accessories

All required equipment and accessories will be supplied with the tank. Prior to first fill, please ensure that that vent is fitted.



****Failure to follow warnings or instructions in this document could result in a hazardous product spill, which could result in property damage, environmental contamination, fire, explosion, serious injury or death.**

Warnings

- **Fire Hazard** – Death or serious injury could result from spilled liquids.
- Install all equipment in accordance with all applicable local, state and federal laws.
- For your safety, it is important to follow local, state and federal and/or OSHA rules that apply to working inside, above, or around the storage tank and piping area. Use all personal protective equipment required for working in the specific environment.
- Tanks could be under pressure. Vapors could be expelled from tank vents, piping, valves or fittings while performing installation. Vapors could catch fire or cause an explosion. Avoid sparks, open flame, or hot tools when working on vents.

4.5.1 Standard Equipment

The following equipment comes standard on every tank unit purchased.

- Free-To-Air Vent ([Market Specific](#))
- Dipstick.
- Filling point (Please keep this port unobstructed)
- Pressure vacuum vent.

4.5.1.1 Free-To-Air Vent (Fig. 3)

Free-to-air vent (For Australia & Static Storage **only**) allows atmospheric air to move freely in and out of the fuel tank and equalize with pressure outside the tank. The installation **MUST** be done prior to the tank receiving product.

Installation

- Remove the Plug from the 2" socket indicated as "VENT".
- Ensure that both fittings are free from dirt/debris and apply a suitable thread tape or sealant to the pipe thread.
- Tighten the pipe into the socket, making sure that the fitting is secure and provides a tight seal.



Figure 3 – Free-To-Air Vent

4.5.1.2 Dipstick (Fig. 4)

Fuelco Dipsticks allow the measuring of product volume within the tank, by inserting and removing the dipstick and then checking the area of it covered by fuel. The dipstick is located inside the hatch. Remove the dipstick, wipe it free from product, insert it back into the tank and see which engraving on the dipstick is covered by product. Refer to the Strapping Chart for volume reference. Dipsticks are marked in mm on one side and inches on the other side and the corresponding level should be verified on the chart under the hatch.



Figure 4 – Dipstick

4.5.1.3 Filling Point (Fig. 5)

Fuelco Filling cap is easy to use, and it promises safe and secure transfer of fuel without any leakage. It also acts as emergency vent in case of fire or extreme heat.



Figure 5 – Filling Point

4.5.1.4 Pressure Vacuum Vent (Fig. 6)

Fuelco's PV vent is made to protect the tanks from excess pressure while reducing losses due to vapor. The vacuum relief feature prevents tanks from distorting or collapse under negative pressure that may be created during regular dispensing operations.

- All vents must be properly sized and selected for each specific tank application
- For your safety, it is important to follow local, state, federal and/or OSHA rules that apply to working inside, above, or around the storage tank and piping area. Use of the correct personal protective equipment is a requirement for working in the specific environment
- Tanks could be under pressure and vapors could be expelled from tank vents, piping, valves or fittings while performing works around the equipment. Vapors could catch fire or cause an explosion. Avoid sparks, open flame, or hot tools when working on or around vents



Figure 6 – Pressure Vacuum Vent

Inspections and Installation

(The Pressure Vacuum vent comes as a standard pre-fitted item on the LTSK Kube Tanks. However, in the need it should be replaced, follow the installation steps below for replacement).

1. Inspect unit for damage. Replace unit if damage is found
2. Remove PV Vent from its socket connection on the tank from within the hatch. Check any openings for foreign matters such as packaging material. Remove any that is found, ensuring that it does not enter the tank
3. Inspect the threads on both the tank and PV vents. Remove any dust or debris
4. Inspect sealing surfaces between plastic vent cover and vent body. Remove any dust or debris
5. Verify that the steel vent cover is moving freely before and after installation into the system
6. Avoid painting the PV Vent.
7. Ensure that there is no obstruction on or around the vent

4.5.2 Tank Nozzle Diagram and Nozzle Table

** Note that N1, N2 and N3 are market specific and may not be included in your market.

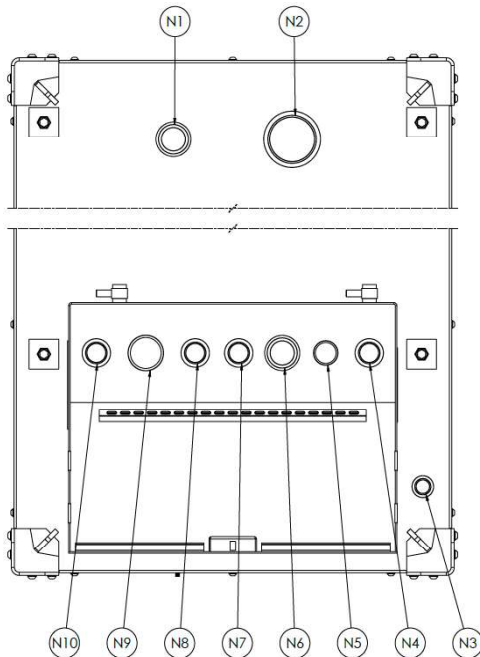


Figure 7
Nozzle Diagram

NOZZLE NO.	SIZE	CONNECTION TYPE	DESCRIPTION
N1	2"	NPT-F x 15/16" LONG	SPARE / FREE-TO-AIR VENT
N2	4"	NPT-F x 1-1/8" LONG	SPARE
N3	1"	NPT-F x 25/32" LONG	INTERSTITIAL SPACE DRAIN POINT
N4	1 1/2"	NPT-F x 15/16" LONG	SPARE
N5	2"	NPT-F x 40" LONG	DIP PIPE 1" FROM FLOOR
N6	2"	NPT-F x 15/16" LONG	PRESSURE/VACUUM VENT
N7	1 1/2"	NPT-F x 15/16" LONG	SPARE
N8	1 1/2"	NPT-F x 15/16" LONG	SPARE
N9	3"	NPT-M x 39" LONG	FILL PIPE 2" FROM FLOOR
N10	1 1/2"	NPT-F x 15/16" LONG	SUCTION C/W 1" PIPE 1" FROM FLOOR
NOTES			
1. FRONT HATCH LID HIDDEN FOR CLARITY.			

Table 2
Tank Nozzle Table

4.5.3 Optional Fittings

Non-standard optional extras can be purchased along with the tank, and include the following items:

- Overfill Warning Alarm

4.5.3.1 Overfill Warning Alarm (Fig. 8)

The Fuelco Overfill Warning Alarm provides an audible and visible alarm for detecting fluid levels above the tank normal fill level (NFL). The powerful audible alarm can easily be heard over pumping equipment. It is battery powered and fitted within a sealed IP65 enclosure.

It satisfies the requirements of **AS1940-2017** as an overfill alarm for diesel fuel tanks and **Ex ia IIB T4** for petrol tanks when the IS version is selected.



Figure 8
Overfill Warning Alarm

Installation Steps

1. Use PTFE thread tape or Loctite 567 on the 2" Male BSP Plug before fitting
2. Remove tape from float and check for free movement - alarm should sound when moved to the top limit
3. Install alarm into tank into the 50NB fitting located on the top of the tank, marked OVERFILL WARNING ALARM
4. Tighten 2" BSP Plug
5. Set correct height, based on the normal fill level inscribed on the tank dipstick.
6. Tighten gland nut to secure assembly
7. Test alarm using "Test Alarm" button
8. A final adjustment may be required to the height of the alarm when tank is filled to NFL for the first time. This can be achieved by loosening the gland nut and adjusting the height of the unit so that the float sits just above the normal fill level of the fuel. Retighten the gland nut at this level

4.6. Electrical

The tank should only be connected to the site electrical system, (where appropriate), by a suitably qualified electrician in compliance with local government and state regulations. An Earthing Point has been provided on all tanks.



4.7. Commissioning Procedure and Checklist

The following procedures and actions need to be performed before the tank can be put into service. Ensure all steps are followed, and any irregularities discovered are rectified.

Table 3 – Fuelco Tanks Commissioning Procedure

Fuelco Tanks Commissioning Procedure				
Tank Serial #: LTSK_ _ _ _ _				
Item	Description	Yes/No	Signature	Comments
1.	Site Preparation and Placement			
1.a.	The site is to be prepared as per Section 4.2 and 4.3 of the LTSK IOM.			
1.b.	The tank is to be unloaded and placed on site as per Section 4.4 of the LTSK IOM.			
1.c.	If the tank(s) is/are required to be tied to the ground, then please secure the tank at the base by the provision provided.			
2.	Installation and Inspection			
2.a.	Earth tank using the earthing points provided, as per Section 4.6 of the LTSK IOM.			
Item	Description	Yes/No	Signature	Comments
2.b.	Install the Free-To-Air vent into the socket marked "VENT" on the tank roof, using thread sealant to ensure a tight seal. (If applicable)			
2.c.	Install the Overfill Warning Alarm in the socket marked "SPARE" as per Section Error! Reference source not found. (if applicable)			
2.d.	Check the main tank dip stick to verify fuel level and ullage.			
2.e.	Check the Filling Line:			
2.e.i.	Open the access hatch to access the fill point. This can be identified from the tank-specific nozzle drawing which can be found at www.fuelco.com.au			
2.e.ii.	Inspect the Fill Line port and Fusible Cap for any signs of damage.			
2.f.	Check the Suction line:			
2.f.i.	Check the Suction port within the access hatch. This can be identified from the tank-specific nozzle drawing which can be found at www.fuelco.com.au			

2.f.II.	Remove the Suction line from the port and assess for any signs of damage.			
2.f.III.	Check the Foot Valve at the base of the suction line for any damage and to ensure that it is tight, secure and operating.			
2.f.IV.	Return the Suction Pipe back to its port and ensure that it is tight and secure on the threaded fitting.			
2.g.	Check the Pressure Vacuum Vent			
2.g.I.	Check PV Vent as per 4.5.1.4			
Item	Description	Yes/No	Signature	Comments
2.h.	Install any dispensing equipment as per their installation procedures. All pipework to be done by a competent person. All electrical work to be done by a qualified electrician.			
2.i.	Ensure that all unused fittings are blanked and closed.			
3.	First Fill			
3.a.	The first fill must not be completed without first completing the above procedures and each item on the checklist must be completed and signed off to ensure that all items have been inspected.			
3.b.	Only the fill point shall be used to fill the tank. Note: The dip stick should not be used while filling. But filling should be stopped intermittently to check the tank level.			
3.c.	Prior to filling, check the primary tank dipstick and calculate the maximum amount of fuel to be filled into the tank without exceeding the normal fill level.			
3.d.	Pre-set the register on the meter / pump which is being used to transfer fuel. Transfer fuel to the Kube, taking care to avoid over filling.			
3.e.	At or before the Normal Fill Level, filling should be stopped, and the tank level recorded.			
3.f.	Check Tank, Interstitial and Leak Gauge (If applicable) for any signs of leaks.			
COMMENTS:				
Name:		Signature:	Date:	

5. Maintenance

WARNING: FAILURE TO CARRY OUT REGULAR INSPECTIONS AND MAINTENANCE ON YOUR FUELCO TANK WILL VOID YOUR WARRANTY!

5.1. Tank Inspection Schedule

Table 4 –Tank Inspection Schedule

TANK	TYPE OF INSPECTION	INSPECTION REQUIREMENT	SUGGESTED INTERVAL OF INSPECTION
Tank External	Visual	No evidence of leaks, paintwork intact, no heavy corrosion evident and tank level not subsiding etc.	Monthly
Tank Valves and Piping	Visual	Check for joint, seal, valve and fitting leaks	Monthly
Tank Valves and piping	Hydrostatic Testing	Code Requirement to test valves and piping (Australia)	10 years
Tank Internal	Statutory Inspection	Code Requirement to inspect tanks, gas free and internal inspection and NDT thickness measurements of inner tank (Australia)	10 years
Tank Vents	Visual and Physical	Make sure Vents are free flowing with no obstructions	Weekly to monthly
Foundations and Tank Footings	Visual	Check foundation is in good condition, no cracks or other defects. Check tank footings are intact and free from corrosion corroded (If applicable)	6 Monthly
Manways and tank fittings	Visual	Check for leaks and general appearance	Monthly
Overfill Warning Alarm	Physical	Test overfill warning alarm using “Test Alarm” feature on face panel. Replacement of the overfill warning alarm batteries. (If fitted)	Monthly / Annually
Nozzle and Hoses	Visual	Make sure there is no leakage of fuel	Daily

5.2. Pipework Inspection and Testing

Regular inspection and testing of pipework is required to ensure integrity.

5.3. Vent Cleaning and Replacement

Ensuring that the tank vent is clean and unobstructed is vital to preventing hazardous over or under pressure events which may lead to tank failure.

5.3.1 Standard Free-To-Air Vent (If Applicable)

To ensure that the supplied free vent is clean follow the following steps:

- Remove the vent assembly from the top of the vent pipe
- Clean each individual part with a suitable cleaner or solvent, rinse with water to ensure no residue left from the cleaning process, dry and re-assemble.
- Refit the vent on top of the vent tube

5.4. Overfill Warning Alarm (If Applicable)

5.4.1 Overfill Warning Alarm Test

Testing the overfill warning alarm can easily be done.

- Test the battery by holding in the “Cancel Alarm / Test Battery” button for around 1 second, if the battery is good the Battery Good indicator will light up green.
- Testing the alarm systems by holding in the “Test Alarm” button for around 1 second, if the alarm system is good the Alarm 1 & Alarm 2 indicators will flash.
- Check that the float stops are firmly secured. Tighten screws if necessary.
- Move the float on the bar to ensure that it moves freely between stops with no resistance.
- Check that the alarm sounds when the float moves to its upper position

5.4.1.1 Overfill Warning Alarm Battery Replacement (Fig. 9)

The AAA Batteries inside the Overfill Warning Alarm will require replacement annually to ensure that the alarm is operational in the event of an overfill situation.

To change the batteries:

- Remove overfill alarm from tank, ensuring socket is plugged to prevent fuel contamination
- Before continuing, ensure that overfill alarm has been taken to an area outside of any hazardous zone
- Remove the 4 screws from the face of the alarm
- Disconnect the leads from the internal circuit board
- Slide the clear cover from the battery holder, do not cut the cable tie as this secures the holder to the circuit board
- Replace batteries and dispose of old batteries appropriately
- Re-assemble the clear battery cover and reconnect the leads to the circuit board
- Test operation by performing the Overfill Alarm Test procedure above
- Reinstall the overfill alarm as per the procedure in section 4.5.2

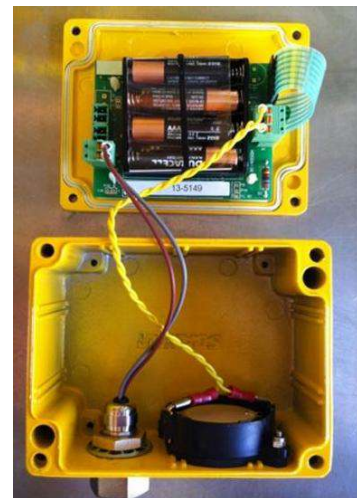


Figure 9 - Overfill Alarm Battery Replacement

5.5. Pressure Vacuum Vent

Monthly inspection, and immediate inspection during freezing conditions, by an operator familiar with the proper operation of the storage tank vents, is required to ensure venting devices are functioning properly before filling or unloading a tank.

1. Lift the cover of the vent all the way up and lower back down onto the body several times. The cover must move freely for the vent to work properly
2. Replace the unit if sticking or binding occurs during step 1 above
3. Inspect the vent, including the seal area, for dust, debris, snow or ice. Remove any that is found
4. Inspect all vent components and surfaces for damage, corrosion or visible wear

5.6. System Priming

When first commissioned, or after a scheduled maintenance, or if the pump was run dry, it may be necessary to re-prime the dispensing system on the tank. Operation of the dispensing system while not properly primed can lead to:

- Premature failure of pump and metering components
- Inconsistent readings of metering devices
- Higher than anticipated operating pressures and temperatures
- Excessive noise

*** Please contact one of the Fuelco representatives with regards to the correct priming procedure to be carried out according to your specific LTSC configuration, as each transfer pump-set may be unique.*

5.7. Primary and Secondary Tank Separation

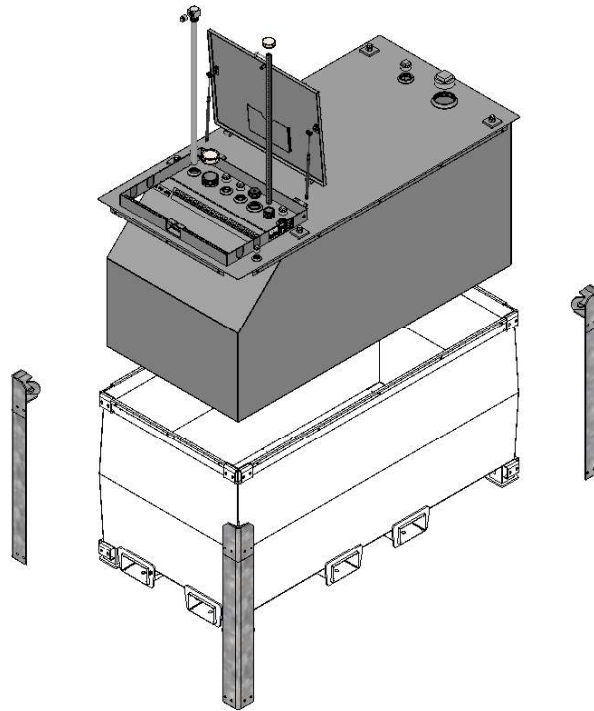


Figure 10 – Tank Separation Diagram

5.7.1 Procedure for Separating of the Tanks

1. Ensure that **ALL** product has been drained from the Kube Tank prior to carrying out any of the below steps for the tank separation.
2. Loosen all fasteners on Item 1 – Corner Lifting Supports (as per the above diagram) and remove these supports from the Kube Tank
3. Loosen all fasteners on Item 2 – Primary Tank Clamping Channel (as per the above diagram) and remove these clamping channels.
4. Insert Threaded Lifting Eyes into Item 3 – Threaded pad, ensuring that the thread is correct, the strength of the Lifting Eye is sufficient, and the Lifting Eyes are secure. **(Note that these points are only to be used for tank separation and it is critical that the tank is empty prior to using them)**
5. Lifting Chain / Slings to be fixed to the lifting eyes, ensuring that the internal angle between the slings is no more than 60° (as per the diagram below) and lift slowly, ensuring that the slings are centered, and the Primary Tank is elevated evenly to prevent any swaying.

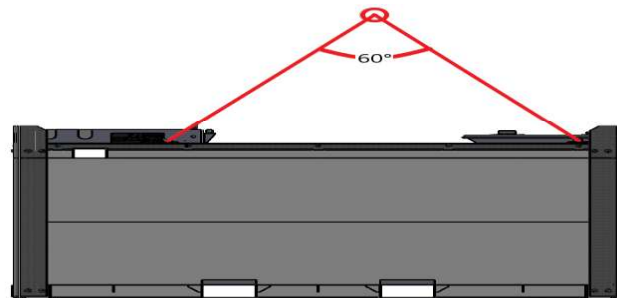


Figure 11 – Primary Tank Lifting Diagram

5.8. Inspection and Tightening of Fittings

It is recommended that periodic inspections are carried out on the pipeline and fittings of your LTSK unit. A visual inspection of fittings will usually indicate if joints have come loose. The information provided below can be used to aid any repairs which need to be performed.

Table 5 – Thread Sealant Application Procedure

Ste	Process	Photo
1	Check that the thread is clean and free from dirt, oil, thread tape etc.	
2	Apply a small, even amount of Thread Sealant around the thread, a few mm from the end of the thread.	
3	Work the Thread Sealant evenly into the first 5 or so threads. Remove any excess Thread Sealant from the thread before installing.	
4	Check that no Thread Sealant has found its way inside the fitting as this can block or contaminate fuel systems.	
5	Tighten the fitting into place. Tighten it until firm / tight. If at any stage the fitting is "backed off" it must be removed, cleaned and the Thread Sealant reapplied to ensure a seal. Once tightened, do not disturb (move) the fitting as this can break the seal on the	

Table 6 – Identification of BSP and NPT Fittings

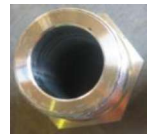
Thread	Identifiable by...	Photo
BSP	Male thread is generally identifiable by a large taper on the internal seat. Male threads have a female taper; Hydraulic sealing females have a male seat. For hydraulic fittings, ensure O Ring is fitted if required. If unsure, measure the thread pitch using a thread gauge set and check against a BSP reference table	
NPT	Male thread is generally identifiable by a very small taper on the internal seat. Male threads have a female taper; Hydraulic sealing females have a male seat. For hydraulic fittings, ensure O Ring is fitted if required. If unsure, measure the thread pitch using a thread gauge set and check against an NPT reference table	

Table 7 – Carbon Steel Bolt Torque Setting Table

Bolt Spec.	4.8		5.8		8.8		10.9		12.9	
Dia x Pitch mm	kN	Nm	kN	Nm	kN	Nm	kN	Nm	kN	Nm
3 x 0.5	1.2	0.9	1.5	1.1	2.3	1.8	3.4	2.6	4.0	3.0
4 x 0.7	2.1	1.6	2.7	2.0	4.1	3.1	6.0	4.5	7.0	5.3
5 x 0.8	3.5	3.2	4.4	4.0	6.7	6.1	9.8	8.9	11.5	10.4
6 x 1	4.9	5.5	6.1	6.8	9.4	10.4	13.8	15.3	16.1	17.9
7 x 1	7.3	9.3	9.0	11.5	13.7	17.2	20.2	25	23.6	30
8 x 1	9.9	14.5	12.2	18.0	18.9	27	28	40	32	47
9 x 1.25	9.3	13.6	11.5	16.8	17.2	25	25	37	30	44
10 x 1.25	15.8	28.0	19.5	35	30	53	43	78	51	91
10 x 1.5	14.5	26.6	18	33	27	50	40	73	47	86
12 x 1.25	23.8	50	29	62	45	95	65	139	77	163
12 x 1.75	21.3	46	26	56	40	86	50	127	69	148
14 x 1.5	32	79	40	96	61	150	90	220	105	257
14 x 2	29	73	36	90	55	137	80	201	94	135
16 x 1.5	43	121	54	150	82	229	121	336	141	393
16 x 2	40	113	50	141	76	214	111	314	130	369
18 x 1.5	57	178	70	220	110	345	157	491	184	575
18 x 2.5	49	157	60	194	95	306	135	435	158	509
20 x 1.5	72	248	89	307	140	482	199	687	233	804
20 x 2.5	63	222	77	275	122	432	173	615	203	719
22 x 1.5	88	337	109	416	172	654	245	932	266	1090
22 x 2.5	78	305	97	376	152	502	216	843	253	987
24 x 2	101	420	125	519	196	814	280	1160	237	1360
24 x 3	90	383	112	474	175	744	250	1080	292	1240
27 x 2	131	615	162	760	225	1200	363	1700	425	1990
27 x 3	119	568	147	703	230	1100	328	1570	384	1840
30 x 2	165	850	204	1060	321	1670	457	2370	535	2380
30 x 3.5	144	772	178	995	280	1500	300	2130	467	2500

kN = Axial Load

Nm = Torque Setting

Tip: Procure a metric torque wrench for use in order to avoid mistakes arising from the use of conversion charts

Table 8 – Torque Settings for A2 or A4 Metric Stainless-Steel Fasteners

Bolt Dia (mm)	Torque (N-m)		Torque (ft-lbs.)	
	Dry	Lubricated	Dry	Lubricated
3	1.0	0.9	0.75	0.7
4	2.6	2.3	2	1.7
5	5.1	4.6	4	3.4
6	8.7	7.8	6	5.75
8	21.2	19.1	16	14
10	42	38	31	28
12	73	66	54	48
14	118	106	87	78
16	180	162	133	119
18	258	232	190	171
20	370	333	273	246
22	485	437	358	322
24	603	543	445	400

Suggested Maximum Torqueing Values – A guide based upon lab testing on dry or near dry fasteners wiped clean. The lubricated values were calculated at 90% of the dry condition test results. Values listed in Nm and foot pounds.

Note: Stainless steel fasteners tend to gall while being tightened. The risk of galling or thread seizing can be reduced by:

- Using lubrication
- Tighten fasteners with low RPM's, without interruptions
- Apply only light pressure
- Avoid prevailing torque lock nuts when possible

6. Accessories and Spare Parts

Table 9 – Spare Parts Numbers and Descriptions

Part Name
Fusible Cap
Pressure Relief Valve
Free-To-Air Vent
Dipstick
Dipstick Cap
Battery Bracket (Optional)

8. Contact Us

8.1.1 Fuelco Australia Pty LTD

29 Kitchen Road,
Dandenong South
VIC 3201
+61 3 9775 1366

8.1.2 Fuelco FZCO (Dubai)

FZLIU10 AB08,
Jebel Ali Free Zone (JAFZA)
+971 4 334 7123

8.1.3 Fuelco South Africa

54 Bontebok Street,
Highbury,
Meyerton.
+27 16 421 8043

8.1.4 Fuelco Limited (UK)

Unit E4, Sapphire Court
Bromsgrove Enterprise Park
Isidore Road, Bromsgrove
B60 3FL
+44 1527 911787

7.HS&E Safety Advise

7.1. HS&E Policy Manual

7.1.1 Governing Laws

Individual states and governments have in place relevant legislation to ensure the health and safety of employees in the workplace. Employers are bound by law to provide safe working conditions for their employees.

Under these laws, both the employer and the employee have duties and responsibilities in the workplace. Fuelco Australia has compiled this manual to try to assist the employer and the employees to reach the required levels of health and safety practice. This manual does not replace the required government HS&E Act and Regulations and both the employee, and the employer must individually ensure they comply with the law.

The employer must be aware of the differences within the governing laws and regulations that may cover national, state and local requirements.

These tanks are intended for installation and use in accordance with ANSI/NFPA 30, "Flammable and Combustible Liquids Code," ANSI/NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair Garages," ANSI/NFPA 31, "Installation of Oil-Burning Equipment for fixed or stationary installation and use in accordance with Part 4 of the "National Fire Code of Canada," CSA B139

7.1.2 Responsibilities of the Employee

- Ensure they understand and comply with all statutory regulations that pertain to the workplace.
- Read and follow all published manuals, procedures, and practices.
- Ensure correct use of all safety equipment provided and maintain said equipment.
- Fill in all documentation required to report any hazards identified whilst performing their duties.
- Agree to and rigidly apply the zero drug and alcohol policy whilst on site.

7.1.3 Employers Obligations

- Provide the necessary safety equipment to the employee for the tasks they are required to perform.
- Compile hazard and risk assessments for each task and ensure adequate control measures are in place with a method of assessing their effectiveness.
- Provide sufficient training to all employees in the duties of each task they are required to perform.
- Ensure the person required for each task has the training and abilities to perform that task.
- Ensure that work practices and procedures are safe and do not unduly place employees in any danger.
- Maintain adequate records on safety procedures and outcomes.
- At all times provide a safe working environment.

7.2 HS&E Policies

Both the employee and the employer should read and understand the HS&E Policy on the relevant site and follow these at all times, in conjunction with any other legislative requirements.

7.3 Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS)

All products that are brought onto or stored on site that are harmful, combustible, flammable or deemed dangerous must have a MSDS/SDS displayed so easily accessible to all. Each employer and employee should read and understand these MSDS/SDS's and follow all procedures for hazards, PPE, and safe handling.

7.4 Medical and First Aid

Each employee should know where the first aid or medical facilities are located on site and how to contact them in an emergency. Each employee should be aware of the registered onsite first aid person. The employer should ensure that as a minimum at least one person is fully trained in first aid and first aid and emergency kits are adequate and available onsite.

7.5 Reporting

All accidents and incidents must be reported to the immediate supervisor or employer.

7.6 Spills and Containment Loss

If any spill occurs greater than 5 liters from the containment area of a self-bunded tank or even if it is within a contained spill area must be reported immediately.

7.7 Confined Space Entry

A confined space such as a vessel and tank can contain explosive gas, poisonous air, fuel and other dangers such as lack of oxygen and fall hazards and should not be entered unless the appropriate "confined space" statutory requirements have been met.

All Fuelco Tanks are classified as a confined space. Anyone who enters through the manways must be trained in confined space entry and comply with all legislative requirements. Work permits and confined space entry permits must be in place. Please refer to AS2865 or equivalent local standard and ensure all conditions are met.

7.8 Plant and Equipment Unfit for Purpose

If an operator or employee recognizes that any equipment is faulty, unsafe, or unfit to be safely used, it must be removed from service. This removal may be by way of the following: -

- Tagging of any associated circuit breaker to render the equipment unusable
- The equipment should not be put back into service or attempted to be used until all faults are rectified, and tags must only be removed by the person who placed them.

7.9 Petroleum Products

Fuelco tanks may contain products such as diesel, petrol, solvents, oil etc. If any of these products comes into contact with the employee's skin, it should be immediately washed off with warm soapy water, and refer to the relevant MSDS for appropriate clean-up methods and personal safety requirements. Any clothing affected by any of these products should be thoroughly drenched with clean water before removing. Clothing that is affected should not be worn in buildings or vehicles.

7.10 Personal Protective Equipment (PPE)

Employees working on or around the Fuelco self-bunded tanks should ensure they are wearing and using all PPE required. Refer to the MSDS the employers HS&E manuals and procedures and any legislative material for the correct quantity and type of PPE required.

Please also refer to CGSB 155:20, CSA-Z194.1, CSA-Z194.3 CSA-Z195, NFPA 2112, ISEA 103, ISEA 107, ANSI/ASSE Z359 or equivalent local standards.

7.11 Training

Employee:

It is the responsibility of the employer to ensure each employee is trained for the tasks that they will be required to perform. Such training should contain but not be limited to the following,

- The overall facility with the layout and operation of each area.
- Correct maintenance procedures
- Accident and incident reporting
- Firefighting and location and types of firefighting equipment.
- Awareness of the products and the MSDS sheets pertaining to these products.
- PPE requirements and usage
- Area cleanliness and hazard removal
- Restricted areas and permission to enter these areas.

Facility emergency response people:

Those employees that are assigned these duties should be trained in specifics of these duties. They may contain but not be limited to the following:

- Fire fighting
- First Aid
- Evacuation and movement control
- Spillage and clean up control.

7.12 Personal Workplace Hazard Control

Before starting any work, complete the following:

- Identify hazards and activities in the workplace
- Ensure controls are in place to prevent an accident or incident
- Obtain all required work permits (if applicable)
- Use the correct PPE
- Use proper job procedures
- Stop the job immediately if hazards are not under control

7.13 Fall Protection

Use fall protection equipment to keep you safe when working outside a protective environment where you can fall over 1.8m (6ft). A protective environment includes approved scaffolds, stairs with handrails, and man lifts. The top of a Fuelco tank without hand rails is NOT a protective environment.

7.14 Work Permits

Before any commencement of work in any area, the relevant work permit should be obtained from the employer. These work permits will be tailored for the individual work site or facility, and should cover all of the requirements of the onsite HS&E policy and the state and national legislative requirements.

As a guide a work permit shall contain information of the following:

- The extent and the type of work to be performed
- The site and facility conditions that are to be observed
- A list of PPE that should be used
- The time period for the work involved
- The necessary checks to ensure the safety requirements are being met during the work
- A list of special conditions or requirements to restore the area before normal operation takes place
- The firefighting equipment required to be on hand during the work

7.15 Readiness of Work Site

Every effort should be taken to ensure that before any work is performed the work site is prepared so that any potential for fire, explosion or exposure of persons to a hazardous material is reduced.

Measures such as the following should be taken:

- Identify all equipment and related equipment that is to be worked on
- Consider the deactivation and lock-out of this equipment and what measures must be taken to safely work on it.
- "Tagging Out" the equipment by all who will work on it.
- Emptying and cleaning of any internals of the equipment.
- Remove any stored or spare hazardous material within the work vicinity
- Sealing of sewers or underground facilities that may produce or be a source of hazardous/flammable gas.
- Identify and have ready all necessary firefighting equipment
- Have the work area tested for any hazardous, flammable, or combustible vapors and oxygen content.

7.16 Post Work Requirements and Equipment Restarting

After completion, and before any plant is returned to service, confirm that the following has been completed.

- The work as per the work permit has been completed
- All temporary pipe work, flanges, structures etc. are removed and returned to normal
- If work was in a confined space, all personnel are accounted for and safe.
- Have the supervisor, or employer sign off on the work permit to show that it has been completed.
- Tank bunds, fire systems, safety systems etc. are all back in working condition.

7.17 “Hot Work” Relevant to Fuelco Equipment

As the Fuelco tank and associated equipment may contain combustible or flammable material, precautions should be taken if considering any type of hot work. Hot work has the ability to provide an ignition source for combustible or flammable materials. Brief examples of hot work are as follows,

- Welding or flame cutting equipment
- Grinders, electric drills or other non- flameproof electrical equipment
- Hot tapping equipment
- Spark ignition engines or non – approved compression ignition engines
- Matches, naked lights, cigarettes, cigarette lighters, flame or sparks
- Hand tools that could create a spark
- Non – flameproof electric cables, cords, switches, lights, connectors or fittings

Note: The employee using any of the above should be aware of their immediate surroundings, but also if working at height, the area directly below where sparks or hot fragments may fall.

7.18 Emergency Plans

A site emergency plan should be in place for the area surrounding the Fuelco tank installation. This plan should identify the procedures to be followed by the site personnel. Inclusions in this plan may be as follows:

- Required actions in the event of a fire, spill, explosion, leak or other emergency, including firefighting action, alarm actuation, evacuation procedures, shutdown procedures, the establishment of emergency control centers, and mutual aid arrangements with potentially the local relevant authorities and if required use of equipment on neighboring properties.
- A list of telephone numbers for emergency services such as fire brigade, ambulance, police, regulatory authorities, and local hospitals. Also include the criteria for contacting them and procedures to ensure they are promptly alerted.
- Evacuation procedures and a warden system.
- Establishment of nominated assembly areas, away from the potential incident area and emergency services operations
- Training of personnel to carry out the plan and this may include the local emergency services.
- The location of material safety data sheets (MSDS)

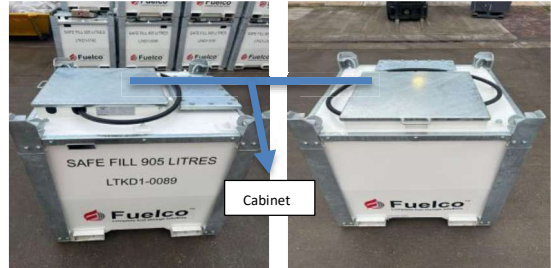
7.19 Information to be Provided to the Emergency Services

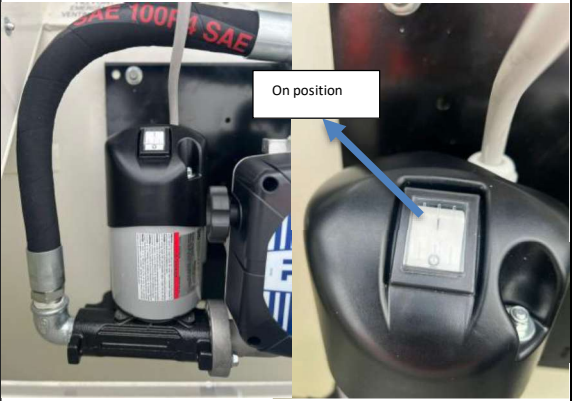
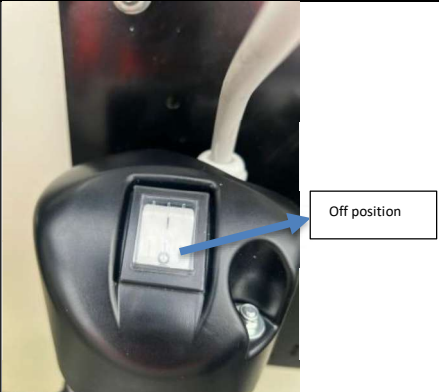
May include the following,

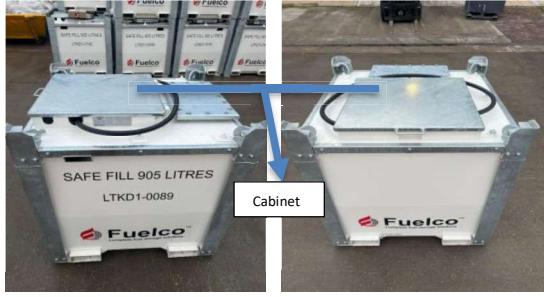
- A site plan which should include:
 - The direction north
 - The boundaries of the premises and the names of surrounding streets.
 - The location and identification of all buildings and stores on the site
 - Vehicular entry to the site, and vehicular access within the site
 - The location of any and all flammable and combustible liquids
 - The fire service layout
 - The location of the drainage system including isolation valves
 - The location of alarm points.
- A copy of the current manifest listing the quantities, classes, UN Numbers and names of the dangerous goods being stored and the location of the goods within the premises.
- A list of names and telephone numbers of site personnel and organizations personnel that can provide specialist advice or assistance
- Details of the evacuation system at the site, including:
 - The type of alarm and its means of actuation
 - The location of assembly areas
 - A means of identifying the wardens
- Copies of the MSDS for all dangerous goods on site

Annex

Pump Kit Operational Guidelines:

• Check that the pump suction valve is open	
• Verify power supply to pump kit	
• Remove hose from cabinet by ensuring to keep the nozzle in hand	
• Zero the flow meter	
• Check fuel level	

Start pump	
Dispense fuel into receiving equipment	
Stop Pump	
Record the reading on the flow meter	
Pack the hose and nozzle away	

Lock and secure the cabinet (if available)	
Switch or remove power supply	

No flow scenarios:

Scenario 1

Check fuel level – If the level of fuel in the KUBE Tanks is less then this will result in no flow. Ensure the fuel levels are always at the safe fuel limit.

Scenario 2

Filter blockage – If the filter is blocked, then this will result in a no flow. Ensure that the filter is checked and serviced in a timely manner.



Scenario 3

Pump not working – If the pump is not working, then this will result in no flow. Ensure that the pump has adequate power supply for it to be operational. Check for any if there are any damages to the power supply cable.





Part of the Eredyne Group

FUELCO AUSTRALIA PTY LTD

29 Kitchen Rd

Dandenong South

VIC

Australia

Email: sales@Fuelco.com.au

Web: www.Fuelco.com.au

A.B.N. 34 615 177 930

FUELCO KUBE

Self Bunded Tanks

LTSK Range

950 - 7,200 L



- 1 FORK POCKETS**
Double sided to provide access from all sides
- 2 DIKED DESIGN**
Allowing the inner tank to be removed from the outer tank
- 3 CORNER POSTS**
Providing full tank edge protection
- 4 LOCKABLE CONTAINMENT**
For securely housing pumps and hoses
- 5 LIFTING POINTS**
Simplifying crane handling
- 6 EXTERNAL PORTS**
Provision for external vents and accessories
- 7 TANK SEPARATION PADS**
Possibility to separate tanks
- 8 DECALS**
Provides clear and critical information to users
- 9 BAFFLED INTERNALLY**
Restricts movement of product during handling

Standard accessories include:

- 1" feed for pump suction
- Provision for 1 set of feed and return connections
- Dipstick
- Pressure vacuum relief valve

The LTSK range is designed to store all liquid hydrocarbons, such as diesel, biofuel, gasoline (ULP), lubricants and waste fuels

Fuelco, an ISO 9001 Certified Company

FUELCO KUBE

Self Bunded Tanks

LTSK Range

950 - 7,200 L



Tank Code	Pump Cabinet	Capacity (GFL)			Dimensions (mm)			Tare Weight (kg)	Compliance
		L	USG	IG	Length	Width	Height		
LTSK1**	Yes	950	251	209	1,120	1,120	1,264	405	AS1940 AS1692 AS1657
LTSK2**	Yes	2,063	545	453	2,220	1,120	1,264	750	
LTSK3**	Yes	2,850	753	627	2,220	1,509	1,264	868	
LTSK5	Yes	4,460	1,178	981	2,220	2,312	1,264	1,155	UL142 ULC S601 **UN IBC Certified
LTSK7	Yes	7,200	1,902	1,584	3,945	2,210	1,184	2,280	

**Certified for transport

Disclaimer: Information and photographs shown are for marketing purposes only. Actual product may vary to images shown due to continual improvement processes, design changes and optional extras

AUSTRALIA

+61 3 9775 1366
sales@fuelco.com.au
www.fuelco.com.au

MENA

+971 4 232 6985
sales@fuelco.ae
www.fuelco.ae

EUROPE \ UK

+44 1 5279 11787
sales@fuelco.uk
www.fuelco.uk

AFRICA

+27 16 421 8043
sales@fuelco-sa.com
www.fuelco-sa.com

FUELCO KUBE

Self Bunded Tanks

LTSK Range

251 - 1,903 USG



- 1 FORK POCKETS**
Double sided to provide access from all sides
- 2 DIKED DESIGN**
Allowing the inner tank to be removed from the outer tank
- 3 CORNER POSTS**
Providing full tank edge protection
- 4 LOCKABLE CONTAINMENT**
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The LTSK range is designed to store all liquid hydrocarbons, such as diesel, biofuel, gasoline (ULP), lubricants and waste fuels

Fuelco, an ISO 9001 Certified Company

FUELCO KUBE

Self Bunded Tanks

LTSK Range

251 - 1,903 USG



Tank Code	Pump Cabinet	Capacity (GFL)	Dimensions (inches)			Tare Weight (lbs)	Compliance
		USG	Length	Width	Height		
LTSK251**	Yes	251	44	44	50	893	AS1940 AS1692 AS1657 UL142 ULC S601 **UN IBC Certified
LTSK545**	Yes	545	87	44	50	1,653	
LTSK753**	Yes	753	87	59	50	1,914	
LTSK1179	Yes	1,179	87	91	50	2,546	
LTSK1903	Yes	1,903	155	87	47	5,027	

**Certified for transport

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UNITED STATES

PETE NEIL
+1 (985) 226-7430
sales@fuelco-us.com
www.fuelco-us.com

BUD MOORE
+1 (915) 472-6738
sales@fuelco-us.com
www.fuelco-us.com



CAPABILITY STATEMENT

fuelco.com.au | fuelco.ae | fuelco-sa.com | fuelco-us.com

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ABOUT US

Our qualified engineering, design and compliance team have the technical capability to offer international project and engineering management, meeting standards around the world.

Fuelco, through a network of service agents across the globe, provides after-sales service and repair.

We offer tailored preventative maintenance programs to reduce breakdowns and expensive unplanned repairs.

We also stock an extensive range of parts and accessories that comply with relevant global standards.



In November 2016, Fuelco was acquired by the Eredyne Group, bolstering its modular approach to fuel storage tank capability and expanding its footprint into Oceania, Asia, Africa, Middle East, South America and Europe, making Fuelco a truly global organisation.



VISION & VALUES

Fuelco's Mission, Vision & Values wheel embodies who we are, what we do and where we're going in the future.

Our Vision is a statement of what we want to become and defines how we will get there. Underpinning it all are our Values. They are pivotal in defining our culture—they guide how we behave, the decisions we make and the relationships we have with each other, our customers and external stakeholders.

HSEQ POLICY

Fuelco has well established Environment, Health and Safety policies and procedures in place. This includes comprehensive safety manuals and procedures, training courses and records, incident reporting and investigation and regular review of the safety systems and statistics.

At Fuelco we believe that safety and well-being of those who work for and with us, are our highest priorities and no task is so important that risk of injury to people or damage to the environment is justified.

QUALITY

Fuelco undertakes all works to International Standards including UL142, UL2085 and Australian Standards and strives to ensure that all work practices are continually improved through experience and training.



GLOBAL REACH

FUELCO GLOBAL OFFICES

- Fuelco Australia
- Fuelco MENA
- Fuelco South Africa
- Fuelco UK
- Fuelco US

FUELCO GLOBAL PARTNERS

MIDDLE EAST	AFRICA	AMERICAS	ASIA	OCEANIA	EUROPE
 ADOS - Abu Dhabi	 ColVic - South Africa	 TTR CL - Chile	 Globe HiFabs - India	 Petrotec - NZ	 Tanx & Co
 MEOS - Dubai	 Smartflow Technologies Nigeria	 XPG Global - United States	 HAN SL - Brunei		
 Amlaak A'Sharqyya LLC - Oman	 Tokheim Services Group		 Intecs - Indonesia		
 Rumco Group - Bahrain			 Blue Ocean - Vietnam		
 Al Julalah Trading - Kuwait					
 Khobar Contracting - Saudi Arabia					

COMPLIANCE

AS1940

AS1940 - The storage and handling of flammable and combustible liquids

AS1692

AS1692 - Steel tanks for flammable and combustible liquids

AS1657

AS1657 - Fixed platforms, walkways, stairways and ladders

UL142

UL142 - Steel aboveground tanks for flammable and combustible liquids

ULC 601

ULC601 - Steel aboveground tanks for flammable and combustible liquids

UL2085

UL2085 - Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids

HSNO COP

HSNOCOP24 - Storage of Hazardous substance

JIG

JIG - Quality assurance requirements for the manufacture, storage and distribution of aviation fuels

UN31A

UN31A - UN approved for transport of dangerous goods

SwRI 93-01

SwRI93-01 - Southwest Research Institute tested and approved for 4-hour fire rating and impact protection



COMPETITIVE ADVANTAGE OF SELF BUNDED TANKS

- Double wall design (self bunded tanks) with no external bunding required, therefore environmentally friendly and easily deployable on-site
- Rectangular tanks have 23% more capacity than comparable cylindrical tanks, making them more suitable for static storage
- Modularity - containerised design allows for ease of expansion for future growth. Entire system, be it tank or fuel farm, is fully assembled and wet tested before leaving factory, ensuring easy installation and assembly on-site.
- Limited civil / foundation works
- CSC approved for transportation by road, rail or ship.



INDUSTRY APPLICATIONS

We design, supply and install complete modular storage solutions capable of withstanding extreme operating conditions

These have the ability to deploy at short notice for a range of industry applications or locations including remote areas.

Industry applications include:

- Transport and Logistics
- Fuel Distribution & Retail
- Fuel Farms
- Mining
- Oil & Gas
- Power Generation
- Aviation
- Construction
- Government & Defence
- Farming & Dairy
- Schools
- Hospitals
- Golf Clubs
- Military



FUEL DISTRIBUTION & RETAIL



POWER GENERATION



AVIATION, DEFENCE & MILITARY



MARINE



TRANSPORT & LOGISTICS



MINING

ENGINEERING & DESIGN

Fuelco provides full System design, regulatory compliance and customised solutions for bulk petrochemical facilities.

- Bulk fuel and retail facility design
- CAD Design Capability – Solidworks, AutoCad, Inventor
- Hydraulic Models - FluidFlow
- Finite Element Analysis
- Process design including facility automation
- Pump station and pipeline design
- Safety in Design

PROJECT MANAGEMENT

In-house project management capabilities that will provide complete turnkey solutions including:

- Project design and management - We ensure all bulk fuel facility projects are managed to the highest possible standard by assigning a highly experienced project manager at the onset
- Our collaborative approach means we work with you to ensure that our projects remain on schedule, on cost, on scope every time
- Regular project updates and communication with clients to ensure they are up to date
- Approvals, quality control and documentation
- Complete refuelling systems for any application
- Installed and commissioned with minimal resources and risk

FROM CONCEPT



TO COMPLETION



FUEL TANKS RANGE

Fuelco design and manufactures fuel storage tanks with capacities ranging from 264 to 29,059 USG.

We excel delivering high-quality, precision-engineered self-bunded fuel storage tanks and mobile refuelling solutions.

Our products cater to a wide range of industries that are constantly on the move, including heavy industry, construction, mining, freight, agriculture, aviation, and fuel retailing.



KUBES	KLASSIC	KOMMANDER
264 - 1,849 USG	3,170 - 29,059 USG	3,170 - 20,341 USG



KOMBAT (FIRE RATED)	AVIATION	DEF (ADBLUE)	PORTABLE FUEL STATION	FUEL FARMS	MODULAR FUEL STATIONS
UL2085 264 - 15,850 USG	JIG COMPLIANT 2,827 - 15,066 USG	1,321, 2,642 & 5,283 USG	1,321 - 10,039 USG	79,252 USG+	CUSTOMISED PLUG & PLAY

MODULAR FUEL STORAGE SOLUTIONS

Fuelco designs and manufactures Modular Fuel Stations for above ground fuel storage. Fuelco Modular Fuel Stations have been designed to supplement or even replace traditional service stations. Approved to ULI42 or UL2085 depending on application. Hundreds of such units have been deployed across Australia, Asia, Middle East for use as both temporary and permanent fuel infrastructure.

- **Modular** – tanks manufactured, tested and pre-assembled prior to transportation to site
- **Self contained tanks** with no additional bunding needed
- **Quality** – Comprehensive check list and testing conducted by skilled inspectors prior to shipping
- **Reduced installation and commissioning time** means reduced costs and risks
- **Customisable** - Upgradeable and expandable as refueling needs change
- **Minimal civil works**
- **Environmentally friendly** – double bunding protect environment
- **Short lead times**
- CSC plated for transportation by ship, rail and road

APPLICATIONS INCLUDE:

- Modular Diesel and/or Gasoline Retail Stations
- Modular Unmanned Commercial Fuel Stations
- Diesel Exhaust Fluid (DEF)
- Aviation Storage



MODULAR FUEL STATION, QATAR



UL 2085 FIRE RATED TANKS FOR FUEL STATION, OMAN



MODULAR FUEL STATION, UAE



MODULAR FUEL STATION, UK



COMBO (DIESEL & ADBLUE) TANKS UNMANNED FUEL STATION, AUSTRALIA



MODULAR FUEL STATION, OMAN

AVIATION SOLUTIONS

Fuelco designs, manufactures and supplies aviation tanks, skids and trailers.

Designed, constructed and compliant to UL142 or UL2085, ASI940, ASI692, ASI657, JIG 2.



AVIATION ACCESSORIES



AVIATION FUEL TRAILERS



AVIATION DRUM TRANSFER TROLLEYS



AVIATION FUEL TRANSFER TRAILERS



AVIATION SKIDS



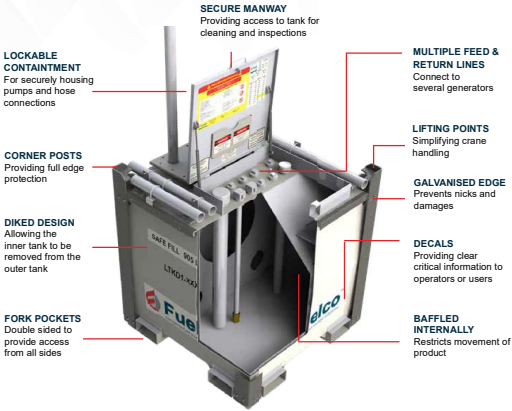
AVIATION FUEL TRANSFER SKIDS



AVIATION MODULAR PUMP HOUSE

TRANSPORTABLE KUBE TANKS

- Compliant to UL142, ULC S601, AS1940, AS1692, UN31A
- Storing of all liquid hydrocarbons, such as: diesel, biofuel, gasoline (ULP), lubricants and waste fuels
- Designed for connection of multiple diesel power generation units



POWERGEN TANK SOLUTIONS

Fuelco designs, manufactures and supplies customised powergen set up tanks. These tanks can be hooked up to several generators at one time.

- Features include:
- Low cost fuel deliveries by delivering more economical quantities of fuel at once
 - Heightened security with heavy front lockable roller doors
 - Various metering capabilities can be provided
 - Designed to be lifted by Crane or Forklift
 - Stackable up to 3 high, small foot print
 - 3 x 1" feed and return lines with connections
 - Letter box openings for hose connections so that Roller Door remains closed during operation
 - Fluid level dipstick for tank and interstitial space
 - Vent pipe for tank and interstitial space
 - Suction foot valve, overfill protection and electronic overfill alarm
 - Access manway, Foldable ladder
 - Compliance: AS1940, AS1692, AS1657, UL142, CSC, BS799 Part 5



FIRE RATED TANK SOLUTIONS

Fuelco designs, manufactures and supplies Fire Rated double-wall aboveground storage tanks.

- Features include:
- Inner and outer steel tank with a unique lightweight thermal insulation material that exceeds the 2-hour fire test
 - Insulating material is 75% lighter than concrete, reducing shipping, installation and relocation costs
 - Compatible with a wide range of Fuels and Chemicals, including Biodiesel and Ethanol
 - UL 2085 Listed "Protected" tank, Ballistics and Impact protection per UL 2085
 - The 4 hour fire-rated tanks are compliant to SwRI93-01
 - Both the inner and outer steel tanks are built to UL standards
 - Dual compartment tank can be used for multiple products eg. diesel, gasoline etc
 - Interstitial space can be monitored for leak detection

UL 2085 is a UL 142 tank that also has 2 hour fire protection vehicle impact protection and ballistics protection

To meet UL2085 the requirement is for 3 inches or 75mm of insulation on all faces of the tank, including the roof and floor. This is sandwiched between the inner and outer skins.

For 4 hour fire protection, the insulation is increased to 6" or 150mm

The 4 hour fire-rated tanks are compliant to SwRI93-01

UL 142 steel tank for primary containment

3 inches of lightweight thermal insulation for fire protection

UL 142 steel tank primary

MARINE TANK SOLUTIONS

Fuelco's Self Bunded Fuel Tanks cater to the marine industry's diverse fuel storage needs.

Meticulously designed and manufactured to meet all the necessary standards required by the marine industry. We prioritize safety and adhere to the regulations and guidelines set forth by relevant authorities.

With a comprehensive range of capacities available, you can select the perfect size for your requirements.

Our tanks feature a self bunded design, providing an additional layer of protection against leaks and spills.

Built to withstand harsh marine environments, they offer easy installation and maintenance.



ADBLUE/DEF SOLUTIONS

Fuelco designs and manufactures Standalone DEF and Combined Diesel and Diesel Exhaust Fluid (DEF) tank, to store both fluids within the one unit or separate units.

Cost effective method of storing and dispensing both Diesel and DEF from the one unit for depot and home base refuelling.

Helps businesses to save buying bulk diesel; having that diesel available at convenient refuelling stations as well as being able to dispense DEF to trucks fitted with Selective Catalytic Reduction (SCR) equipment at the same time.

Our Adblue/Combo tank provides reduced footprint taken by storing both fluids in a single tank; as opposed to having a separate DEF tank.



MILITARY SOLUTIONS

Fuelco is a leading provider of rugged and reliable fuel storage solutions designed specifically for the defence sector. With our extensive expertise in design and manufacturing, we deliver military-grade fuel tanks that ensure total fuel surety in even the most challenging operational environments.

Benefits and features include:

- Rugged, tried and tested
- Rapid deployment
- 25 year design life
- International certification
- Modular flexibility 10ft, 20ft and 40ft
- Can be used for all fuel grades

With our plug-and-play solutions, you can achieve instant fuel availability, reducing time, cost, and operational risks.

Our tanks can be quickly redeployed, enabling efficient mission transitions. We can customize tanks with specialist pumps and filtration technology for enhanced autonomy and self-sufficiency.



MULTIPLE COMPARTMENT TANKS

Fuelco offers a wide range of Multiple Compartment Double Wall (Self Bunded Tanks) to meet your needs. Our tanks combine multiple grades of fuel and lubricant storage in one space-saving design. They come in various sizes, including 10ft, 20ft, 40ft, 45ft, and 48ft.

Key Features:

- **Customisable:** Each tank is tailored to your specific requirements.
- **Easy Access:** ASI657 Designed and Approved Ladder and Platform Assembly provides convenient access for maintenance.
- **Durable Paint:** Tanks are sandblasted and coated with a three-stage Hempel Marine Paint process, ensuring a long-lasting finish.
- **Visibility:** Full undertank visibility allows for easy inspection and maintenance.
- **Transportable:** Containerised tanks are CSC plated for transportation by road, rail or ship.



FUEL TANK FARMS

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METRO MINING - 158,503 USG diesel fuel farm. 1x Adblue tank at remote site mine in North Queensland



SOCOTTRA
1,320,860 USG fuel storage



Fuel Depot for a Port in UAE
4xLTkB 47 – 2 hours Fire rated tank. Capacity – 12,416 USG GFL per tank



WESTERN TURNER PROJECT - 11 x Classic Tanks Diesel



SNOWY HYDRO - Fuelco supplied 4 x LTKO40 (fire-rated) diesel storage tanks



CASTROL BP - 43 x Logitank LSB110 self bunded tanks, totalling 1.24 million USG of storage for 16 lubricant product



ROYAL OMAN NAVY - Fuelco supplied 3 x LTKO68 40ft UL142 Tanks for Vessel Refuelling





Fuelco™
complete fuel storage solutions

AUSTRALIA (HEAD OFFICE)

+61 3 9775 1366 | sales@fuelco.com.au
8 Yazaki Way, Carrum Downs, VIC 3201, AUSTRALIA

FUELCO AFRICA

54 Bontebok Street, Highbury, Meyerton
+27 82 611 1484 | sales@fuelco-sa.com | www.fuelco-sa.com

FUELCO MIDDLE EAST

FZLIU10 AD06, Jebel Ali Free Zone, Dubai
+971 50 719 7137 | sales@fuelco.ae | www.fuelco.ae

FUELCO ASIA

+61 437 022 349 | sales@fuelco.com.au

FUELCO UK

+44 7944 9777 07 | sales@fuelco.com.au

FUELCO US

+985-226-7430 | sales@fuelco-us.com



fuelco.com.au



fuelco-sa.com



fuelco.ae



fuelco-us.com

FUEL PUMPS & KITS

Fuelco supply various pump packages to transfer fuel quickly and smoothly with a choice of fuel transfer pumps.

Our pumps gives you the power to manage the flow of your fuel and other fluids in the most reliable way for your business. By controlling the Litres Per Minute (LPM) and other factors, this technology puts the control back into your hands.

We can provide the advice to help you select the best pump suited to your refuelling needs.

Fuel dispensing packages

Fuelco has a range of fuel dispensing options including pumps, bowzers, metering and management for all product, flow rates and applications.

We can supply standard or customised pumping packages depending on your application, power source and required flow rate.



SERVICE & REPAIRS

Fuelco provide cradle-to-grave solutions, from manufacturing to installation, commissioning & de-commissioning, preventative maintenance and breakdown repairs of tanks and parts, all tailored to your requirements.

We provide repairs and fuel system upgrades to reach full compliance, or remain compliant.

Complete Compliance, Audits & Inspections and checks.



ON-SITE SERVICE & REPAIRS



ADDITION OF FUEL MANAGEMENT SYSTEMS



COMPLIANCE CHECKS



CLEANING & MAINTENANCE

PROJECTS



Truck & Logistics Refuelling
Australia



Modular Service Station
Qatar



Remote Fuel Storage for
Mine, Chile



Solar Tank for Farming
Client
New Zealand



Fuel Retail & Distribution
Australia



Fleet Refuelling with
Canopy
Australia



Aviation Tank Supply
South Africa



Mining Site
Australia



Bulk Lube Farm
Australia



Bus & Transport Refuelling
Australia



Back-up for Power
Generation
Australia



Customer Response Unit
New Zealand



Mine Site Refuelling Facility
Australia



Micro Fuel Packages 5000L
Oman

Fuelco New Product Warranty

1. Fuelco Pty Ltd (Hereinafter called Fuelco) warrants that each new and unused item of equipment (Hereinafter called the Product) is of good workmanship and is free from mechanical defects, provided that:
 - The product is installed and operated in accordance with the intended design
 - The product is not subject to misuse, negligence or accident
 - The product receives proper care, lubrication, protection and maintenance by suitably qualified persons according to the maintenance schedule
 - Fuelco Offer a 5 Year Structural Warranty on the tank
 - Fuelco Offer a 1 Year warranty of all other equipment including but not limited to valves, pumps, meters and pipe-work
 - This warranty does not apply to: Fluids, Filters, Fuses, Bulbs, Engines, Generators, Alternators, Compressors, Batteries, Engine Starter Motors
2. This warranty is extended by Fuelco only to the Purchaser of new products from Fuelco or one of its authorized distributors. The products purchased under this warranty are intended for use exclusively by the buyer and its employees

Fuelco Warranty Certificate

Project :
Location :
Tank Type :
Tank Serial Number :

Warranty Registration Date :
Tank Warranty : 5 Year
Equipment Warranty: 1 Year




Signed: Kyle Marcus

Date: 24th February 2023