



CANFLEX MODEL CRT-1500 Rectangular Shaped Tank for Transport on MTVR or LVSR Vehicles

1.0 Introduction

The CRT-1500 is a Canflex Rectangular shape Tank "CRT" designed to be placed on a flatbed configuration of a MTVR or LVSR vehicle.

The CRT primary function is to store and dispense fuel.

This bladder has a tie down harness to secure the bladder to the truck's bed, a lateral strap webbing harness integrated on the the bladder and an internal baffling system in both longitudinal and radial directions.









2.0 Fuel rated Rectagular shaped Bladder – CRT-1500

The material used for the fabrication of the Canflex Rectangular shaped Tank (CRT) meets the requirements for containment of hydrocarbons / Diesel Fuel, Oil Spill per MIL-PRF-32233. This fabric has a total weight of 45.0 oz/sq. yd. (1530 g/ m²), with the strength characteristics shown in Table-2 below. All seams used to construct the CRT are R/F welded with a 2.5" and 4" die. <u>No sewing or gluing shall be used</u>. The resulting seam strength of the welds is equal to or greater than the strength of the parent fabric.

	Capacity		Filled Dimensio	Dry weight w/o accessories		
Model		W L		Н	Aprox. Weight	
	m ³ / Barrels	m	m	М	Kg	
	Gallons US	inches	inches	Inches	Lb	
007.4500	5.67 / 35.7	1.72	5.48	0.61	181	
CRT-1500	1,500	68	216	24	400	

Table 1 Characteristics for CANFLEX "Rectangular Shaped Tank"

3.0 Fittings and Items (bolted , welded)

The Tank fittings are made from cast anodized marine grade aluminum. Nuts, bolts, and washers integral to the fittings are made of stainless steel. The fittings are bolted through the main body of the Pillow Tank to a cast marine grade aluminum backing plate. Each fitting is mounted on a patch having a greater diameter than the outside diameter of the particular fitting (anti-chafe patch).

- One 2" NPT connection c/w male camlok, located at the lower edge of the tank. **Purpose: Filling / Offloading connection**
- One x 2" NPT female connection c/w female camlok, located across the top of the tank. **Purpose: Pressure release vent**
- 2 x Pocket / sleeves welded on the longitudinal direction of the tank. **Purpose: Enclosed polyester webbing straps**
- One welded degradation marker that consists of 10 test strips (2"x8") made of the same pattern material as the tank's body. The strips are welded on a rectangular patch, which is welded on exterior top of the tanks.

Purpose: To quantify the degradation of the fabric and weld strength over time.

Table 2 - Material Strength Results
CANFLEX CFL4590NESU

1.0 BASI	E FABRIC					
1.1	Base Fabric Weight	14	oz/yď ²	476	g/m ²	
1.2	Fiber / Style		Nylon	/ Style 90		
2.0 COA	TED FABRIC					
2.1	Total Weight	45 <u>+</u> 2	oz/yď²	1530 <u>+</u> 68	g/m ²	
2.2	Coating Type		U	rethane		
2.3	Coating Distribution			50/50		
2.4	Sealing Properties		Dielectric		Thermal	
3.0 MATERIAL PROPERTIES		<u>Standard</u>		<u>Met</u>	ric	ASTM TEST METHODS
3.1	Tensile Strength, 1" Strip					
	Warp	700	lbs	3,110	Ν	D751-B
	Fill	650	lbs	2,890	N	
3.2	Tear Strength, Tongue					
	Warp	55	lbs	245		D751-B (mod)
	Fill	55	lbs	245	N	
3.3	Puncture, Screwdriver	225	lbs	1,000	Ν	D751
3.4	Ply Adhesion	40	lbs/2 in	178	N/5 cm	D751 (mod)
3.5	Adhesion, RF	40	lbs/in	70	N/cm	D751
3.6	Adhesion, Thermal	40	lbs/in	70	N/cm	D751
3.7	Low Temp	-50	°F	-46	°C	D2136
3.8	High Temp, Cont/Interm.	160 / 180	°F	71/82	°C	D1204

Comments: This product designed for primary containment hydrocarbons per / MIL-PRF-32233

4.0 List of all unattached accessories included with the Tank

- 1 X 2" x 90° elbow female x male camlok connection.
- 1 X 2" ball valve w/ female & male camlock conn. with cap, to attach to above elbow. **Purpose: Filling / Offloading**
- 1 X Spark /Flame Arrester with 2" x 10" aluminum anodized pipe, in accordance with MIL specs. It is located at center top of the tank.
 Purpose: Spark Arrestor/ Pressure release vent.
- 1 X 2" ball valve w/ male & female camlock conn. with plug, to attach to above spark arrestor / vent. **Purpose: Filling / Offloading**
- 2 x cicumferential polyester webbing straps on the longitudinal direction of the tank **Purpose: Added longitudinal streght around the tank**
- 2 X 5/8" Safety shackle with bolt & cotter pin **Purpose: Hold webbing straps mentioned above**
- Internal baffles in the width (4 x radial) & length (2 x longitudinal) direction of the tank. **Purposose: To reduce sloshing / dumping of fluid while transport**
- 1 x Restrain System consists of 6" diameter SS "O" rings with 3" webbing straps with soft eye ends at ends.
- One maintenance kit that contains following items:
 - 1 x Tool Box (for the 4 units)
 - 1 x 8oz Can of Patch Cement with MSDS;(Not available if Air Freight)
 - 2 x 10" circles of coated bladder material;
- 4 x 7" circles of coated bladder material;
- 1x roller;
- 1x knife;
- 1 x Operational Guidelines



CRT-1500 Canflex Rectangular Tank



CRT-1500 with 2" elbow & ball valve



Internal Baffels



Internal Baffels in action – 60m/h to 0 m/h Brake Stop

5.0 Shipping, Transportation and Packing OPTIONS

OPTION 1:

Shipping/Storage Container (marine-grade plywood)

PART#: CFX1

Characteristics:

- Clip-Lok style plywood box capable of housing the tank and all its accessories
- Made of ³/₄" Heat-treated Marine-Grade plywood complies with ISPM 15 standards, certified for International Exports
- Quickly assembled or taken apart with no nails or screws
- Two air vents with screen for air circulation
- Easily and quickly flat-packed, reducing transport and storage volume
- Forklift slots on all sides
- Suitable for transport by road, rail, sea or air.
- Coated with weather resistant epoxy paint
- Dimensions: 45x48x29"H (1.14m X1.21m X 0.73m H)
- Weight empty: 180 lbs (82 Kg)





OPTION 2:

Shipping/Storage Container (marine-grade aluminum)

PART # ALCNT2

Characteristics:

- Two screened air vents
- Cable hoist lifting points (8)
- Fork lift slots on all sides
- Fold down and removable side door
- Locking lid
- 2" bottom drain w/ male camlock
- Aluminum Container Accessory Kit (ALCNT-KIT 2)
- OD: 1.62m X 1.62m X 1.35m High (64" X 64" X 53.5" High)
- Volume: 2.83 m3 (100 ft3)
- Weight: 235 Kg (520 lb); WLL: 2900 Kg (6400 lbs)
- Dimensions: 45x48x29"H (1.14m X1.21m X 0.73m H)





6.0 Labels

- Size and function of all aluminum fittings (i.e., FILL/DRAIN ; DRAIN , VENT)
- Safety and Warning Labels
- CANFLEX ID label screened with Serial Number and Tank capacity
- Label screened on opposite sides with either Customer Name

7.0 Certifications & Pressure Test

- Each Tank is pressure tested according to our Quality Management System ISO-9001-2015
- CANFLEX (USA) INC operates a Quality Management System which complies with the requirements of ISO 9001-2015. CANFLEX (USA) INC holds Certificate No: FM 517957

Specie	fications							6	2		
Opeon	CAPACITY	WIDTH	LENGTH	HEIGHT	FILL /					IS	OMETRIC
MODEL	m³/ Liters	m	m	m	OFFLOAD	VENT			1 And	and the second se	EW
MODEL	Gallons USA	inches	inches	inches	Quantity	Quantity					
CRT-1500	5.67/5678	1.72	5.48	0.61	1	1		1			
	1,500	68	216	24	24						
CAMLOCK: (Ball Valve: ra Gaskets: BUI Hold Down S Certified web	NA N (Fuel) System: bing polyester strap MADE IN USA 150 9001: 150 9001:	k coupling): Ano	dized Aluminum				22				
	0 9001-2015 M 517957							191			
	0 9001-2015 M 517957	and the second		7					MODEL CRT-1500	Lb 4 00	/ **WEIGHT FULL Lb 13,000
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					1x 6	*URETHANE COATED TYPE Hydrocarbons	WEIGHT g/m ² oz/yd ² 1,530 45.0	FABRIC TYPE Nylon	CRT-1500 *Aproximat **Weight ca FICATIONS FABRIC PROPERTIES Coat: 50/50 Thickness: 85 mile	Lb 400 ted weight alculated using water TENSILE STREN N Ibs 3,340 5 750	Lb 13,000 er density @ 62.4 lbs/ft3 IGTH TEAR RESISTAN N Ib 290 65
F	M 517957	RIPTION		PART #	1x 6	*URETHANE COATED TYPE Hydrocarbons	WEIGHT g/m ² oz/yd ² 1,530 45.0 signed for conta	FABRIC TYPE Nylon	CRT-1500 *Aproximat **Weight ca FICATIONS FABRIC PROPERTIES Coat: 50/50 Thickness: 65 mik ment of Hydrocarbu	Lb 400 ted weight alculated using water TENSILE STREN N Ibs 3,340 s 750 ons as per MIL-T-5	Lb 13,000 er density @ 62.4 lbs/ft3 IGTH TEAR RESISTAN N Ib 290 65
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QTY. REQD. 1 PRESS	TM 517957	NG STRAPS with "O" S SPARK ARRESTOR W	VALVE (MIL SPECS)			*URETHANE COATED TYPE Hydrocarbons *This fabric de	WEIGHT g/m ² oz/yd ² 1,530 45.0 signed for conta	FABRIC TYPE Nylon act and contains	CRT-1500 *Aproximat **Weight ca FICATIONS FABRIC PROPERTIES Coat: 50/50 Thickness: 85 milk ment of Hydrocarbo	Lb 400 ted weight alculated using wate TENSILE STREN N Ibs 3,340 5 750 ons es per MIL-T-50 AR SHAPED SR Vehicle	Lb 13,000 er density @ 62.4 lbs/ft3 IGTH TEAR RESISTAN N Ib 290 65 2983
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ату. <u>ату.</u> <u>REQD.</u> 1 1 РRESS 2 10	DESC CERTIFIED 3" WEBBIN SURE RELEASE - VENT & S LATERAL 3" CERTIFIED TEST TABS MA DEFLOAD / FILL PORT - BA	NG STRAPS with "O" S SPARK ARRESTOR W WEBBING W/ 5/8" SAF DE OF PATTERN MAT	// VALVE (MIL SPECS) ETY SHACKLE ERIAL / CAMLOCKS & CAP	3" X 6SS/1500 SPRK/2X10/BV 3" POLY/ SKL-063 TEST/TAB		*URETHANE COATED TYPE Hydrocarbons *This fabric de	WEIGHT g/m ² oz/yd ² 1,530 45.0 signed for conta PROJ SCALE: N DATE: 12/03	FABRIC TYPE Nylon ect and contain VECT: RE M .T.S V2019	CRT-1500 *Aproximat **Weight ca FABRIC PROPERTIES Coat: 50/50 Thickness: 65 mik ment of Hydrocarbo CTANGULA TVR or LV "NAVE CRT-15	Lb 400 ted weight alculated using watch TENSILE STREN N Ibs 3,340 5750 ons as per MIL-T-52 AR SHAPED SR Vehicle FAC" DRAW F	Lb 13,000 er density @ 62.4 lbs/ft3 IGTH TEAR RESISTAN N Ib 290 65 2983 D TANK FOR /N: F.Y. DRWG #: 082 REVISED: 12/02/2020
OTY. REQD. 1 2 10 1 2°C	DESC CERTIFIED 3" WEBBIN SURE RELEASE - VENT & S LATERAL 3" CERTIFIED TEST TABS MA DFFLOAD / FILL PORT - BA ABRASION / G	NG STRAPS with "O" S SPARK ARRESTOR W WEBBING W/ 5/8" SAF DE OF PATTERN MAT ALL VALVE, ELBOW W	V VALVE (MIL SPECS) ETY SHACKLE ERIAL CAMLOCKS & CAP PVC)	3" X 6SS/1500 SPRK/2X10/BV 3" POLY/ SKL-063 TEST/TAB 20BV/20CAL/FX		*URETHANE COATED TYPE Hydrocarbons *This fabric de Coated Hydrocarbons *This fabric de Coated Hydrocarbons *This fabric de Coated Hydrocarbons	WEIGHT g/m ² oz/yd ² 1,530 45.0 signed for conta PROJ SCALE: N DATE: 12/03 BOX 10	FABRIC TYPE Nylon act and contains ECT: REC M .T.S V2019 14 , 412	CRT-1500 *Aproximat **Weight ca FABRIC PROPERTIES Coat: 50/50 Thickness: 85 mile nent of Hydrocarbo CTANGULA TVR or LVA "NAVE CRT-15 30th St , A	Lb 400 ted weight alculated using watch TENSILE STREN N Ibs 3,340 5750 ons as per MIL-T-52 AR SHAPED SR Vehicle FAC" DRAW F	Lb 13,000 er density @ 62.4 lbs/ft3 IGTH TEAR RESISTAN N Ib 2900 65 2983 D TANK FOR /N: F.Y. DRWG #: 082 REVISED: 12/02/2020 WA,98221,US



