



<u>CANFLEX MODEL CRT-1500</u> <u>Rectangular Shaped Tank for Transport on MTVR or LVSR vehicles</u>

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 bladders has tie down harness to secure the bladder to the truck's bed, a lateral strap webbing harness integrated on the the bladder and a initernal 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. No sewing or gluing shall be used. The resulting seam strength of the welds is equal to or greater than the strength of the parent fabric.

Table 1 Characteristics for CANFLEX "Rectangular Shaped Tank"

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

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 BASE FABRIC								
1.1	Base Fabric Weight	14	oz/yd²	476	g/m ²			
1.2	1.2 Fiber / Style		Nylon / Style 90					
2.0 COA	TED FABRIC							
2.1	Total Weight	45 <u>+</u> 2	oz/yd²	1530 <u>+</u> 68	g/m ²			
2.2	Coating Type	Urethane						
2.3 Coating Distribution		50/50						
2.4	Sealing Properties		Dielectric					
3.0 MATERIAL PROPERTIES		<u>Standard</u>		<u>Metric</u>		ASTM TEST METHODS		
3.1 Tensile Strength, 1" Strip								
	Warp	700	lbs	3,110	N	D751-B		
	Fill	650	lbs	2,890	N			
3.2	Tear Strength, Tongue							
	Warp	55	lbs	245	N	D751-B (mod)		
	Fill	55	lbs	245	N			
3.3	Puncture, Screwdriver	225	lbs	1,000	N	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



Internal Baffels



CRT-1500 with 2" elbow & ball valve



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

5.0 Shipping, Trasportation and Packing <u>OPTIONS</u>

OPTION 1:

Shipping /storage container Clip-Lok heavy marine grade plywood

PART#: CFX1

It contains the following items:

- o 1 x CRT-1500
- o All unattached accessories mentioned on section 4.0

Characteristics:

- Clip-lok style plywood box capable of housing the tank and all its accessories.
- Made of ¾" Heat Treat Marine Grade plywood comply 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.
- Weather resistance epoxy paint coating
- Dimensions: 45x48x29"H
 (1.14m X1.21m X 0.73m H)
- Weight empty: 180 lbs (82 Kg)





OPTION 2:

Marine Grade aluminum shipping /storage container

PART#: ALCNT2

It contains the following items:

- o 1 x CRT-1500
- o All unattached accessories mentioned on section 4.0

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





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-9001-20015
- 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





