



CANFLEX MODEL QUAD/3400 3400 gal Bladder System with Quadcon Containers

The 3400 gal fluid storage system "QUAD/3400" consists of 4 x fuel rated rectangular bladders with Secondary 8 bulkheads and auxiliary equipment and the optional 4 x Quadcon containers.

1.0 Fuel rated Reactangular shaped Bladder – CRT-850

The material used for the fabrication of the bladder CANFLEX Rectangular 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 CPT 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.

			Dry Weight			
	Capacity		Dimension		without	
Model		I	w	н	accessories	
	m ³ / Barrels	m	m	m	Kg	
	Gallons (USA)	ft	ft	ft	Lb	
CRT-850	3.2 / 20.2	1.24	2.13	1.42	36.36	
UK1-850	850	49	84	56	80	

Table 1 Characteristics

1.1 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 bolted 2" NPT connection c/w male swivel camlock, located on the top end of the tank. **Purpose: Filling / Offloading connection**
- One bolted 2" NPT connection c/w male camlock, located on the top center of the tank.
- Purpose: Pressure release vents
- Six handles welded on top of the Tank. **Purpose: To help set-up and positioned the tank** before the filling process.
- 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.

• One bolted pouch with Velcro / buckle securing assembly **Purpose: To stow spark arrestor assembly.**

Table 2 - Material Strength ResultsFor Oil Spill / Hydrocarbons / Fuel: 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/yď ²	1530 <u>+</u> 68	g/m ²	
2.2	Coating Type		U	rethane		
2.3	Coating Distribution					
2.4	Sealing Properties	🛛 [Dielectric		Thermal	
3.0 MAT	ERIAL PROPERTIES	<u>Stanc</u>	lard	<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	Ν	
3.2	Tear Strength, Tongue					
	Warp	55	lbs		N	D751-B (mod)
	Fill	55	lbs	245	Ν	
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 of fuel per / MIL-PRF-32233

1.2 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/ male & female camlock (pin & lanyard configuration) and dust cap **Purpose: Filling / Offloading.**
- 1 X Spark /Flame Arrestor with 2" aluminum anodized pipe (customed made to a low profile) 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 (pin & lanyard configuration) and dust cap • Purpose: Attached to center 2" NPT connection & Spark Arrestor above
- Shipping / Storage carry bag (details below)
- One maintenance kit that contains following items:
 - 1 x 8 oz. Can PVC patch cement
 - 2 x 7" circles same
 - 4 x 4" circles same
 - 1 knife
 - 1 roller for patch cement

CRT-850 inside Quadcon



User CRT Operation MANUAL

6 x bungees to secure liner to bulkhead







2.0 Fuel Rated Secondary Containment- LNR-QUAD/CONT

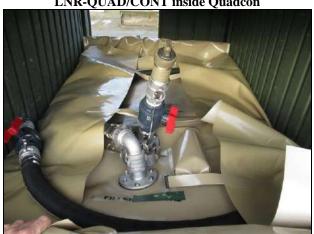
The Secondary Containment is a liner made of 16 mil fuel rated Urethane material, that wraps around the tank and on the sides of the bulkead. The purpose of this liner is to contain any spill that may occur during the filling/ offloading process.

The liner has been tailored with a Buckle Clip system to help secure around the CRT-850 and hold down bungees to secure to the bulkeads.

All seams used to construct the liner are R/F welded. <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.

Secondary Contaiment/ Liner outide Quadcon









LNR-QUAD/CONT inside Quadcon

3.0 Bulkhead for Quad Container- 60BKHD/2

The bulkhead assembly fits with the standard Quadcon dimensions and is fabricated of steel & plywood. It comes with pull handles for ease installation and ¹/₄" eyebolts for securing the liner's bungees.

The bulkhead has a tapered bottom corners to allow to sit flush at the bottom of the container and a foot for stability. The foot is wrap with high strength material to prevent abrasions when in contact with the liner.



4.0 Shipping, Transportation and Packing OPTIONS

OPTION 1:

Shipping/Storage Container (Clip-Lok heavy marine-grade plywood)

PART#: CFX2

It contains the following items:

- o 4 x CRT-850 fuel bladder
- o 4 x LNR-QUAD/CONT secondary containment
- o All unattached accessories mentioned on section 1.2

- Clip-Lok style plywood box capable of housing the tank and all its accessories.
- Made of ³/₄" 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: 45x48x53"H (1.14m X1.21m X 1.32m H)
- Weight empty: 225 lbs (102 Kg)





OPTION 2:

Shipping/Storage Container (Clip-Lok heavy marine-grade plywood)

PART # CFX4

It contains the following items:

- o 4 x CRT-850 fuel bladder
- o 4 x LNR-QUAD/CONT secondary containment
- o All unattached accessories mentioned on section 1.2
- o 8 x 60BKHD/2- Bulkhead for Quad Container

- Clip-Lok style plywood box houses 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 screened air vents 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 resistant epoxy paint coating
- Dimensions: 88x76x62"H (2.23m X1.93m X 1.57m H)
- Weight: 700 lbs (315 Kg)





OPTION 3:

Marine Grade Aluminum Shipping/Storage Container

PART # ALCNT2

The container is made of marine-grade anodized aluminum 6011-T6. It can be safely lifted with a crane or helicopter using the certified lifting straps with shackles via the lifting points, or with a forklift via the forklift slots.

It contains the following items:

- o 4 x CRT-850 fuel bladder
- o 4 x LNR-QUAD/CONT secondary containment
- o All unattached accessories mentioned on section 1.2

- 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)





OPTION 4:

Marine-Grade Aluminum Shipping/Storage Container

PART # ALCNT3

The container is made of marine-grade anodized aluminum 6011-T6. It can be safely lifted with a crane or helicopter using the certified lifting straps with shackles via the lifting points, or with a forklift via the forklift slots.

It contains the following items:

- o 4 x CRT-850 fuel bladder
- o 4 x LNR-QUAD/CONT secondary containment
- o All unattached accessories mentioned on section 1.2
- o 8 x 60BKHD/2- Bulkhead for Quad Container

- 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 3)
- OD: 2.54m X 1.9m X 1.46m High (100" X 75" X 57.5" High)
- Volume: 5.7 m3 (201 ft3)
- Weight: 345 Kg (760 lb); WLL:5,700 Kg (12,500 lbs)





5.0 QUADCON Dry Freight ISO Cargo Container - (Optional Item)

The CANFLEX QUAD/3400 system is for 4 x QUADCONs with the following features:

- Manufactured to ISO standards for 9 high stacking
- Dry freight container, all Corten Steel Monocoque construction
- Conforming to ISO 668 + 1496 CSC Certified
- 4 QUADCON Containers coupled together form one 20ft ISO unit.

Table 4 Characteristics										
			0							
	Capacity		Gross							
Model		W	L	н	Weight					
	m³	m	m	m	Kg					
	ft³	ft-in	ft-in	ft-in	Lb					
QUADCON	6.17	1.457	2.438	2.082	5,.080					
QUADCON	217.8	4'- 9-3/8"	8'-0"	6'-10"	11,200					

Table 4 Characteristics









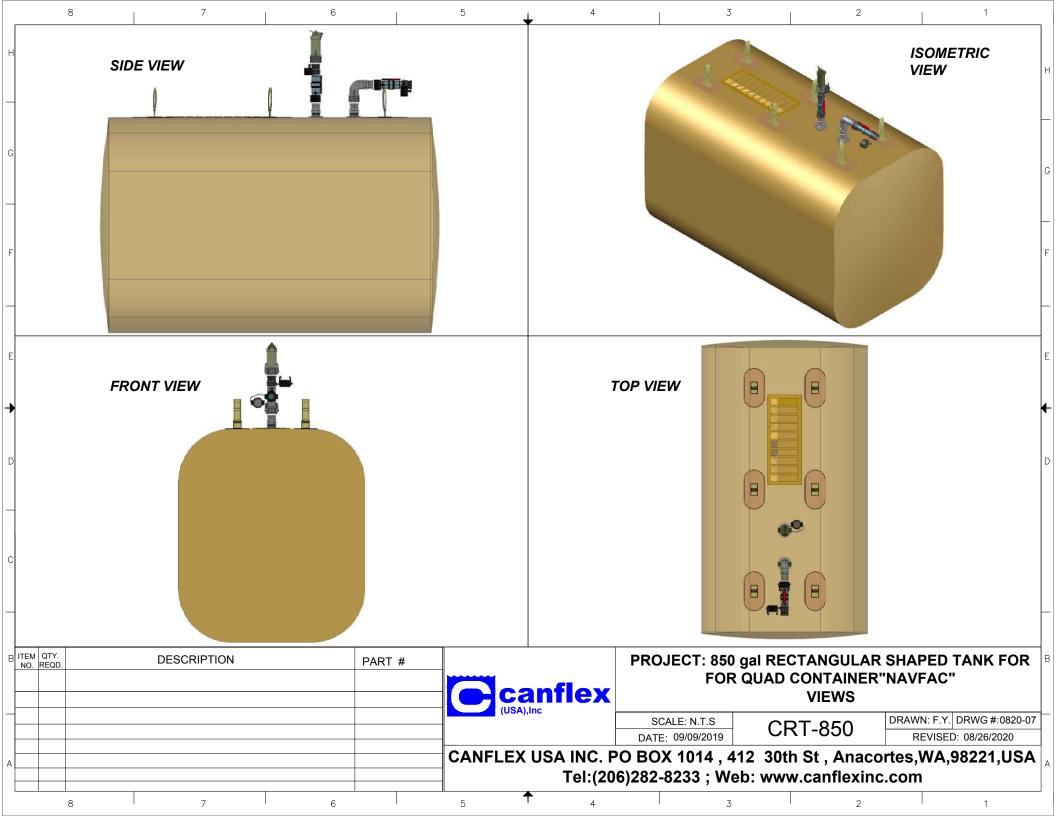
6.0 Labels

- 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 or Canflex 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

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н	Speci	fications _							1x 6	K		
	MODEL	CAPACITY m ³ /Liters	WIDTH	LENGTH	HEIGHT	FILL / OFFLOAD	VENT		2		n	
_	MODEL	Gallons USA	<i>m</i> inches	inches	<i>m</i> inches	Quantity	Quantity				h	
		3.2 / 3200	1.24	2.13	1.42				A M	$\langle \langle \rangle \rangle$	2002	
	CRT-850	850	49	84	56	1	1		16			
G 	Weight EMPTY *Weight Full be								G F E			
D		CRT-850 *Aproximated w **Weight calcula	80 reight ated using water o	7,090 lensity @ 62.4 lbs/ft3								D
		NSTRUCTION SE	PECIFICATION									
	*URETHANE COATED			BRIC N	TRENGTH TEAR	RESISTANCE N						
С	TYPE	oz/yd ²	YPE PROP	ERTIES Ib	-	lb						
	Hydrocarbons	<u>1,530</u> Ny		:: 50/50 3,34 ss: 65 mils 750		290						
	*This fabric de	45.0		Hydrocarbons (Diese		65 III -T-52983						
	M QTY.	•]						
	D. REQD.				PART #							
	1 6 225 KG (500 LB) WLL- HEAVY DUTY HANDHOLD W/ 2" WEBBING 2 10 TEST TABS MADE OF PATTERN MATERIAL				TEST/TAB	PROJECT: 850 gal RECTAN				I RECTANGULA	R SHAPED	TANK FOR
3	-	BALL VALVE W/ MAL			BV/PVC20E/F-V		canflex		FOR QL	JAD CONTAINE	R"NAVFAC	•
4		2" NPT FLANGE WI			6X2FL/20A-SWL		JSA),Inc					
5		90 ° ELBOW WITH			20CAL SPRK/2X10	-		-	LE: N.T.S 09/09/2019	CRT-850		DRWG #:0820-06 D: 08/26/2020
1 NC SHO	T 1	RESSURE - VENT & SHIPPING / CA	ARRY STORAGE B		CB/L	CANEL				30th St , Anac		
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SHC	wn 1	TOOL BOX REPAIR KI	IT W/ OPERATION	AL MANUAL	RPR/KIT-CRT-FU			ωσιζόζ-δ	233; WeD:	www.canflexir	IC.COM	
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D	МАТ	ERIAL	. CONSTRUCTIOI	N SPECIFIC	ATIONS				///		-		D
_		ETHAN IYPE	E WEIGHT	Specific Gravity D-792	YIELD ft ^² /lb @ 1mil	TENSILE STRENGT D-2240 PSI	H TEAR RESISTANCE D-1004 PSI						
	Hydro	ocarbor	^{IS} 16.00	1.21	157	11,000	178 40						
С			*This fabric designed	d for contact a	nd containment o	f Hydrocarbons (Diese	-						
ВГ	EM (NO. R	QTY. EQD.		DESCRIP	PTION		PART #				PROJECT: F	UEL RATED	LINER
	1	6 1/2" BUNGEES W/ HOOKS FOR LINER ATTACHMENT TO CONTAINER WALL BNG-8 6 STRAP WITH BUCKLE SYSTEM BCK/12			BNG-8 BCK/12	50 Canflex FOR QUAD CONTAINER							
								RAWN: F.Y. DRWG #:0820-04					
								CANFLEX	USA INC. F	DATE: 09/09/2019	9		REVISED: 08/26/2020
										6)282-8233 ; \			
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