

**Specifications for Model CRT-2200 & CRT-2900**

**CANFLEX Rectangular Shaped Tanks**

**Project: Floor Load Test Water Bags**

**1.0 General Construction**

The material used for the fabrication of the CANFLEX Rectangular Tank (CRT) meets the requirements of MIL-B-53067 (ME); tested and certified by NSF International under NSF/ANSI 61 for containment of Potable Water, Vegetable Oil, Fresh Water, Oily water, graywater / blackwater. This fabric has a total weight of 37.0 oz/sq. yd. (1258 g/ m<sup>2</sup>), 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. **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			Weight PSF
		W	L	H	
	m <sup>3</sup> / Liters	m	m	m	
	Gallons US	ft	ft	ft	
CPT-2200	8.32 / 8320	1.52	5.52	1.0	200
	2,200	5.0	18.125	3.3	
CPT-2900	10.9/ 10,977	1.82	6.0	1.0	200
	2,900	6.0	20.0	3.3	

**2.0 Fittings and Items (bolted , welded)**

The “CRT” fittings are made from cast anodized marine grade aluminum. Nuts, bolts, and washers integral to the fittings are made of stainless steel. The fittings will be bolted through the main body of the Pillow Tank to a cast marine grade aluminum backing plate. Each fitting will be mounted on a patch having a greater diameter than the outside diameter of the particular fitting.

- One 2” NPT male connection c/w 2” male cam-lock conn. It is located at the top end of the tank. **Purpose: Filling / Offloading connection**
- One 2” NPT male connection c/w 2” male camlock. It is located at the lower corner of the tank. **Purpose: Offloading connection. “Drain”**
- One 2” NPT male connection w/ female camlock. It is located at center top of the tank. **Purpose: Pressure release/ Vent**
- Pocketd / sleeves welded around the body of the tank. **Purpose: Enclosed and hold 2” polyester webbing straps**

**Table 2 - Material Strength Results  
For Potable Water, Vegetable Oil, Fresh Water, Oily water, graywater / blackwater.**

**1.0 BASE FABRIC**

1.1	Base Fabric Weight	14.41 oz/yd <sup>2</sup>	490 g/m <sup>2</sup>
1.2	Fiber / Style	Nylon / Polyester	
1.3	Fabric Style	Woven	

**2.0 COATED FABRIC**

2.1	Total Weight	37 ±3 oz/yd <sup>2</sup>	1,258 ±102 g/m <sup>2</sup>
2.2	Coating Type	Urethane	
2.3	Coating Distribution	50 / 50	
2.4	Sealing Properties	<input checked="" type="checkbox"/> Dielectric	<input checked="" type="checkbox"/> Thermal

**3.0 MATERIAL PROPERTIES**

		<u><b>Standard</b></u>	<u><b>Metric</b></u>	ASTM TEST METHODS
3.1	Tensile Strength, 1" Strip			
	Warp	500 lbs	2,220 N	D751-B
	Fill	500 lbs	2,220 N	
3.2	Tear Strength, Tongue			
	Warp	35 lbs	156 N	D751-B (mod)
	Fill	35 lbs	156 N	
3.3	Puncture, Screwdriver	200 lbs	890 N	D751
3.4	Adhesion RF	30 lbs/in	52 N/cm	D751
3.5	Adhesion Thermal	30 lbs/in	52 N/cm	D751
3.6	Low Temp	-25 °F	-32 °C	D2136
3.7	High Temp, Cont/Interm.	160 / 180 °F	71 / 82 °C	D1204

*This material meets or exceeds the requirements of MIL-B-53067 (ME); tested and certified by NSF International under NSF/ANSI 61*

### 3.0 List of all unattached accessories included with the Tank

- 2 X 2" ball valve w/ male & female camlock connections
- 1 X 2" x 90° elbow female x male camlok connection.
- 1 X OPW spring loaded Vent as per MIL specs. Located across the center top of the tank.  
**Purpose: Pressure / Fluid release vent.**
- 6 x 2" polyester webbing straps around perimeter of the tank  
**Purpose: Added lateral strenght for seismic concerns**
- 6 X 5/8" Safety shackle with bolt & cotter pin  
**Purpose: Hold 2" webbing straps mentioned above**
- Shipping / Storage Carry Bag (details below- Section 4.0)
- One maintenance kit that contains following items:
  - 1 x 16 oz. Can PVC patch cement
  - 1 x 24" x 24" coated bladder material
  - 2 x 10" circles same
  - 4 x 7" circles same
  - 1 knife
  - 1 roller for patch cement



*CRT-4000 Canflex Rectangular Tank*



*CRT-4000 Canflex Rectangular Tank- 4,000 gal*

## 4.0 Shipping:

### Carry / storage bag

The CANFLEX Pillow Tank “CPT” is shipped with a carry bag, capable of housing the tanks and all its accessories. It is made of 18 oz/sqyd PVC coated polyester fabric

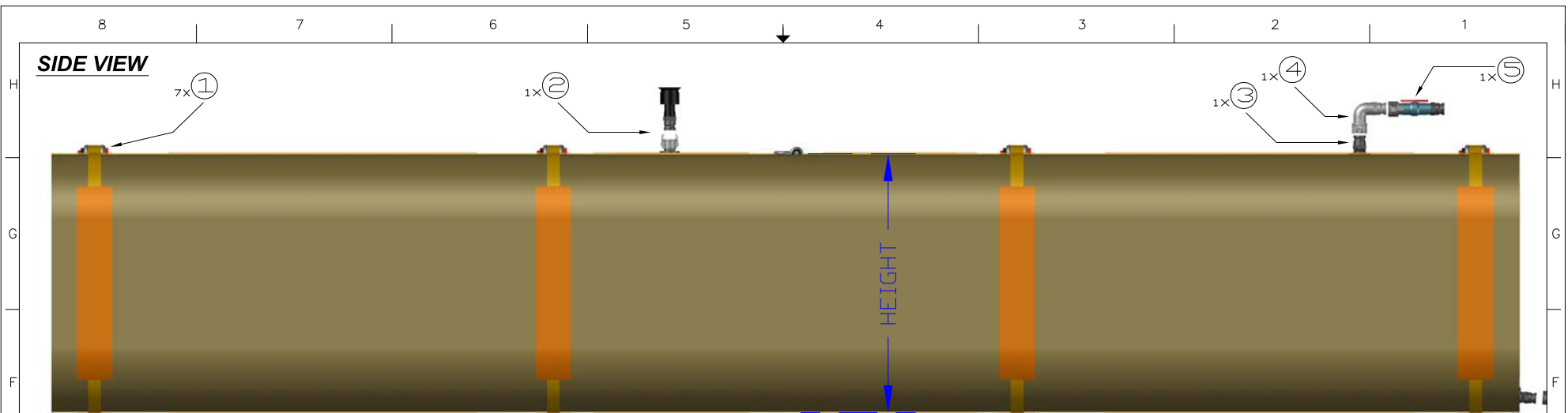


## 5.0 Labels

- 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

## 6.0 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



**Specifications**

MODEL	CAPACITY	WIDTH	LENGTH	HEIGHT	FILL / OFFLOAD Quantity	VENT & DRAIN Quantity	Weight PSF
	m <sup>3</sup> / Liters Gallons USA	m ft	m ft	m ft			
CRT-2200	8.32/ 8,320	1.52	5.52	1.0	1	1 & 1	200
	2,200	5.0	18.125	3.3			
CRT-2900	10.9/ 10,977	1.82	6.0	1.0	1	1 & 1	200
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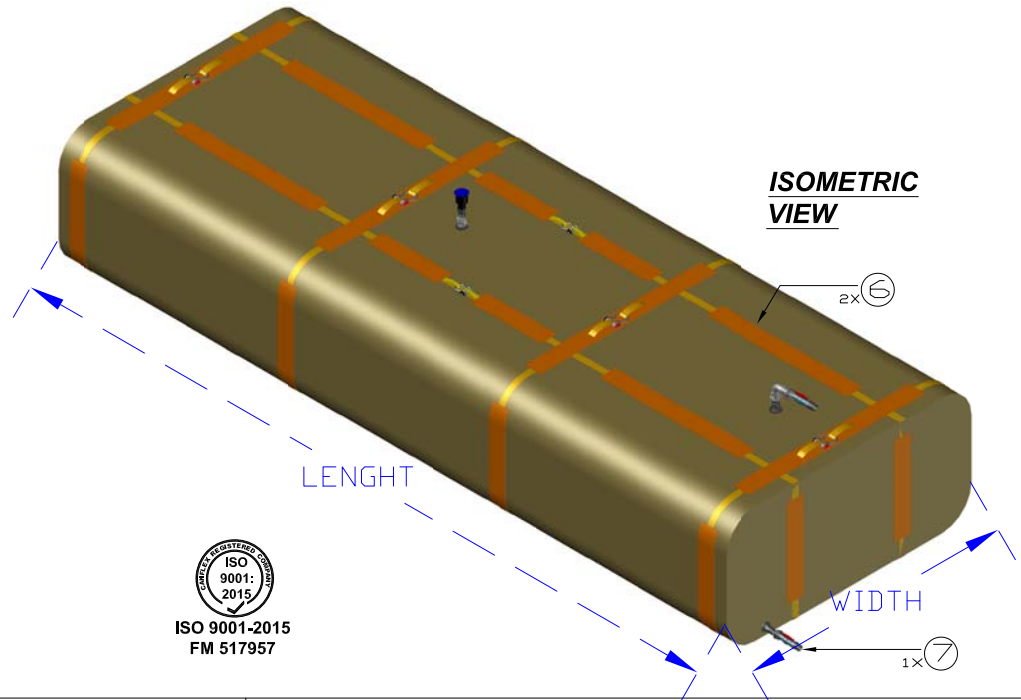
**MATERIAL CONSTRUCTION SPECIFICATIONS**

URETHANE COATED TYPE	WEIGHT	FABRIC TYPE	FABRIC PROPERTIES	TENSILE STRENGTH	TEAR RESISTANCE
	g/m <sup>2</sup> oz/yd <sup>2</sup>			N (1inch strip) lbs (1inch strip)	N lb
WATER	1,258	Nylon	Coat: 50/50	2,220	156
	37.0			500	35

\*This fabric meets the requirements of MIL-B- 53067 (ME); tested and certified by NSF International under NSF/ANSI Standar 61. For containment of Potable Water, Vegetable Oil, Fresh Water, Oily Water, Graywater / Blackwater, Sewage, ...etc

**FITTINGS:**

FLANGES: Anodized marine aluminum w/ stainless steel fasteners.  
CAMLOCK: (Cam & Groove quick coupling): Anodized marine aluminum



ITEM NO.	QTY. REQD.	DESCRIPTION	PART #
1	4	2" RADIAL WEBBING STRAPS W/ SHACKLE	POLY2-R-TANK
2	1	PRESSURE RELIEF - VENT ("OPW" MIL SPECS)	523V-1100
3	1	2" NPT CONN / MALE CAMLOCK - FILL/ OFFLOAD	6X2FLN/20A
4	1	2" 90 DEG ELBOW- MALE & FEMALE CAMLOCKS	20CAL
5	1	2" PVC BALL VALVE W/ MALE & FEMALE CAMLOCKS (FILL)	BV/PVCX20FX20B
6	2	2" LONGITUDINAL WEBBING STRAPS W/ SHACKLE	POLY2-L-TANK
7	1	2" PVC BALL VALVE W/ MALE & FEMALE CAMLOCKS (DRAIN)	BV/PVCX20FX20B
NOT SHOWN	1	SHIPPING /STORAGE WOOD BOX - CLIP LOK STYLE (48X45X53"H)	CFX2
NOT SHOWN	1	TOOL BOX REPAIR KIT W/ OPERATIONAL MANUAL	RPR/KIT-CPT-PW

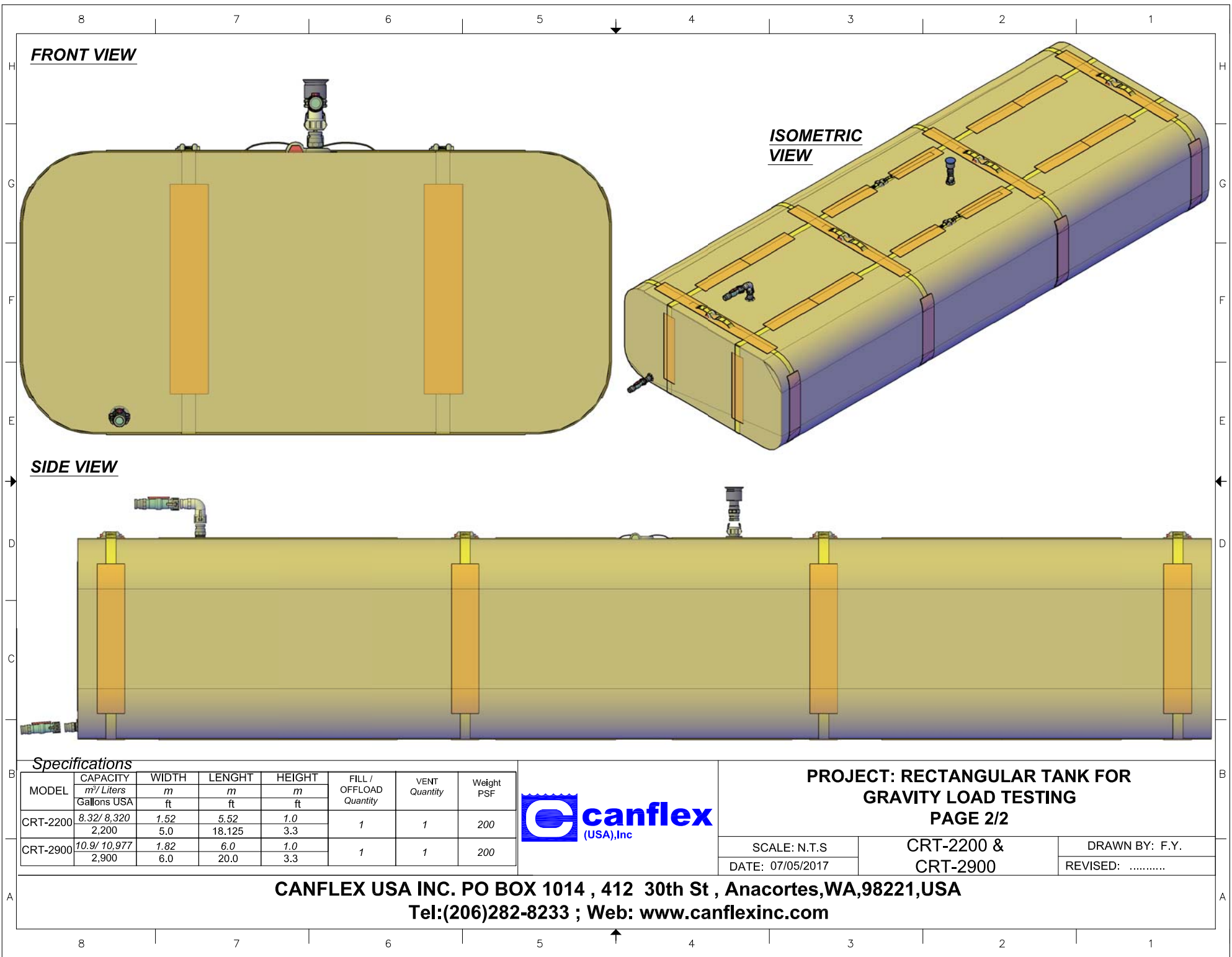


**PROJECT: RECTANGULAR TANK FOR GRAVITY LOAD TESTING**  
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SCALE: N.T.S	CRT-2200 & CRT-2900	DRAWN BY: F.Y.
DATE: 04/14/2020		REVISED: .....

**CANFLEX USA INC. PO BOX 1014 , 412 30th St , Anacortes,WA,98221,USA**  
**Tel:(206)282-8233 ; Web: www.canflexinc.com**





**FRONT VIEW**

**ISOMETRIC VIEW**

**SIDE VIEW**

**Specifications**

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SCALE: N.T.S	CRT-2200 & CRT-2900	DRAWN BY: F.Y.
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