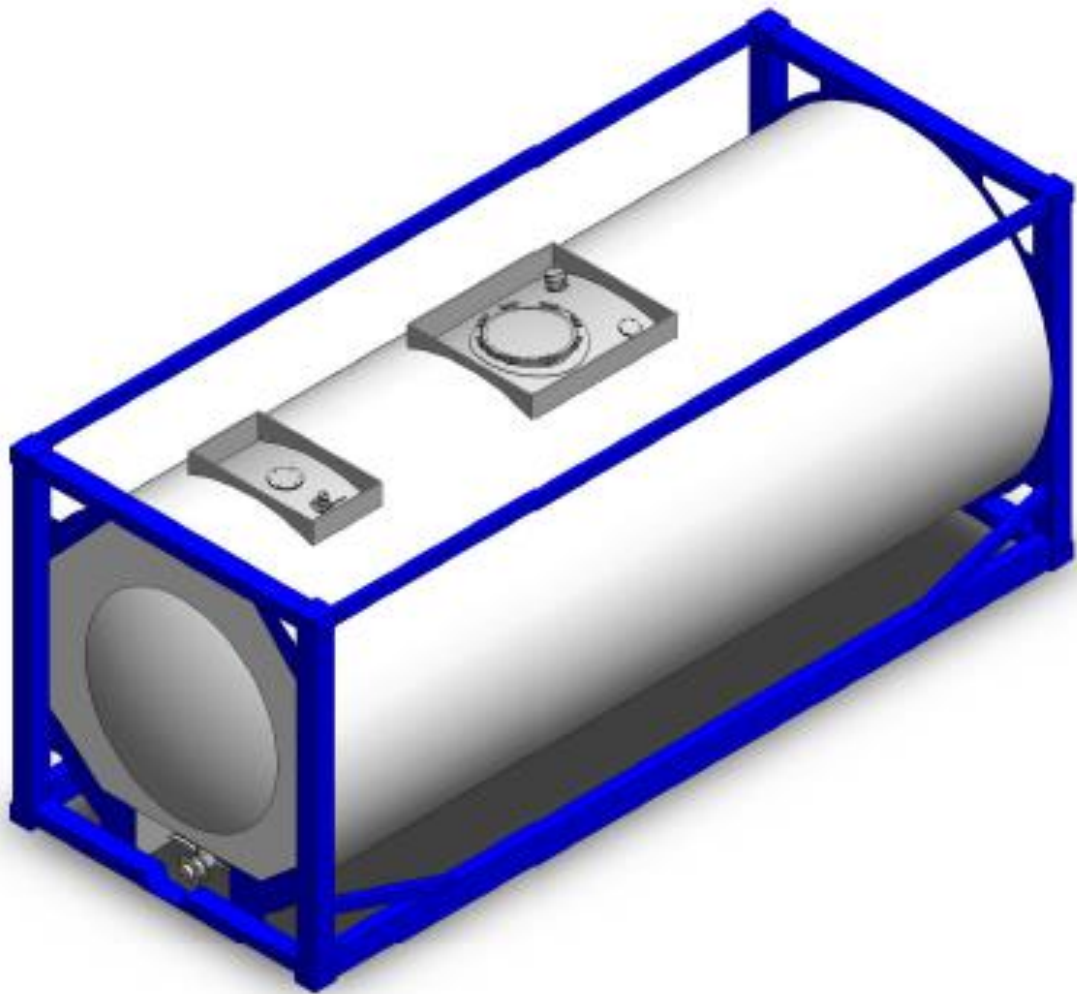
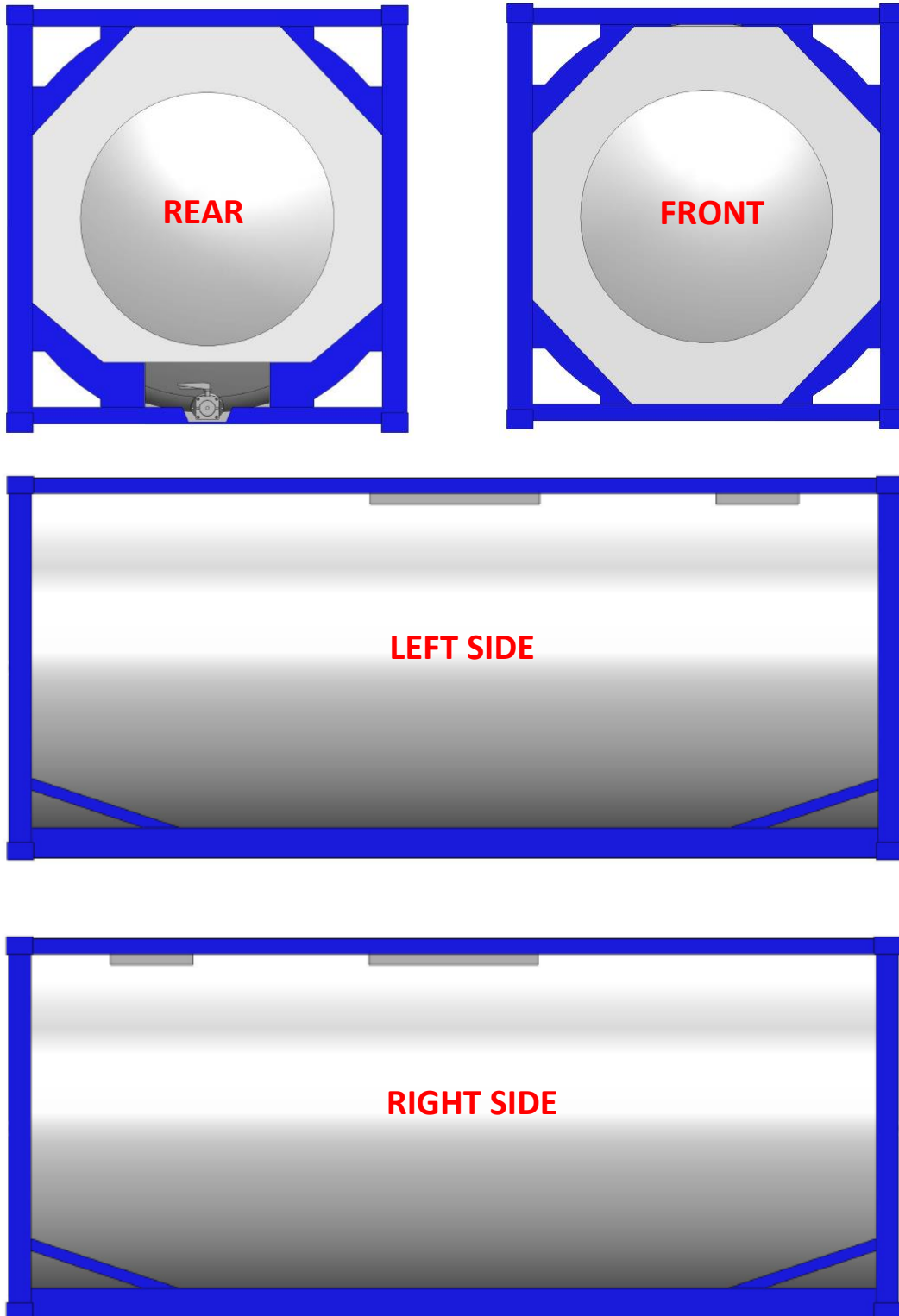


TANKSERVICE



Quick Reference Guide to ISO Tanks

Introduction to ISO Tanks: Locations



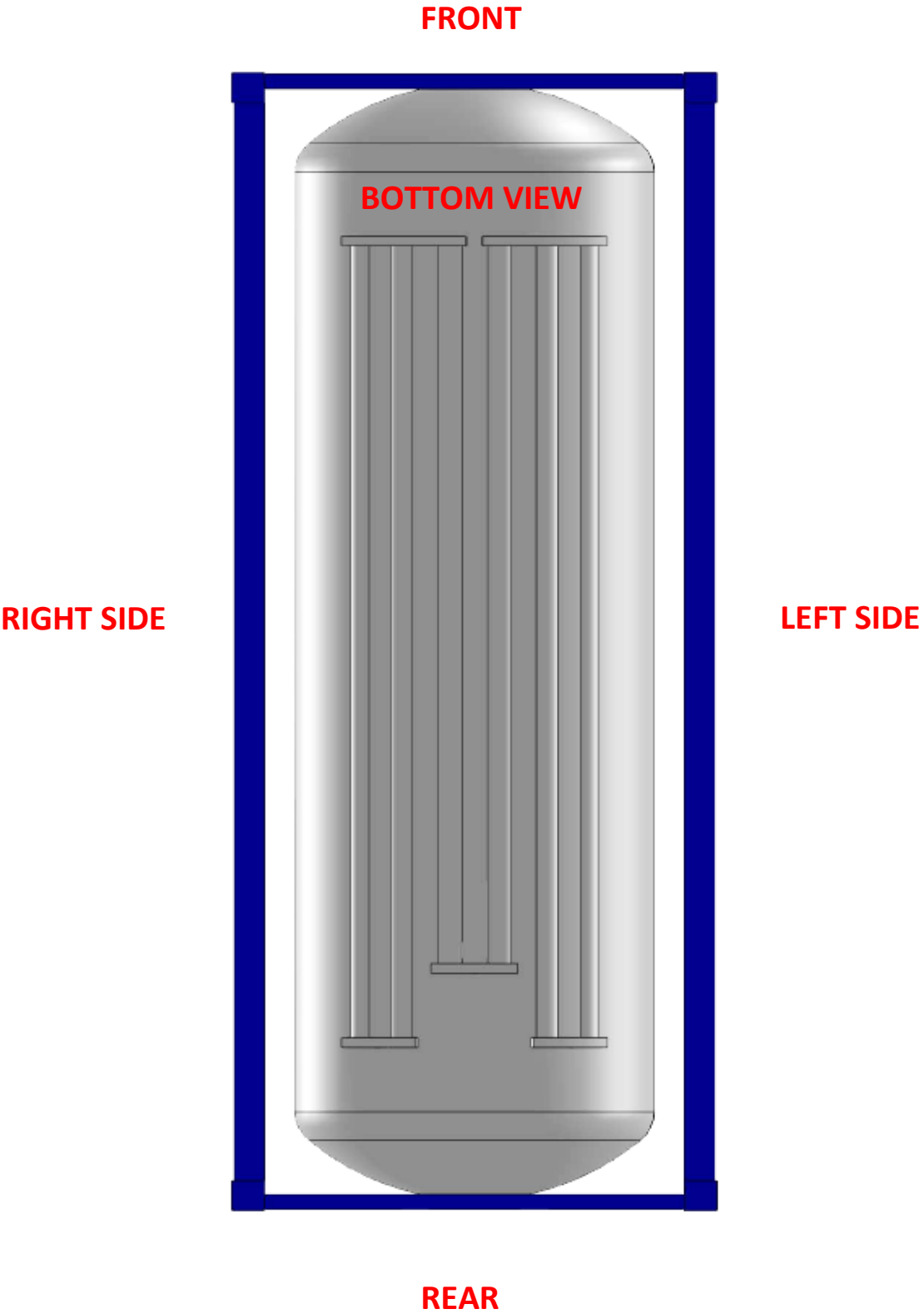
FRONT

TOP VIEW

LEFT SIDE

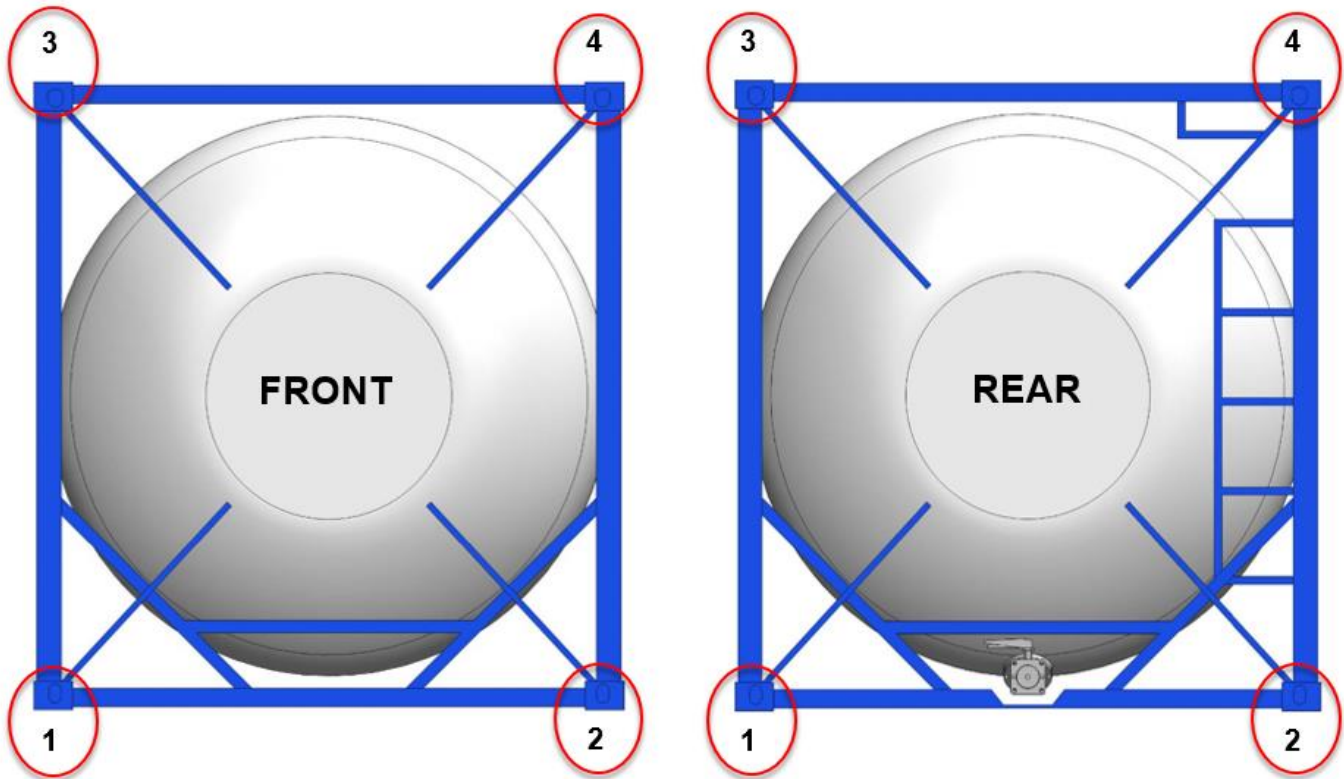
RIGHT SIDE

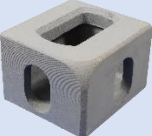

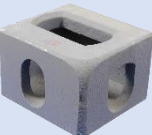

REAR



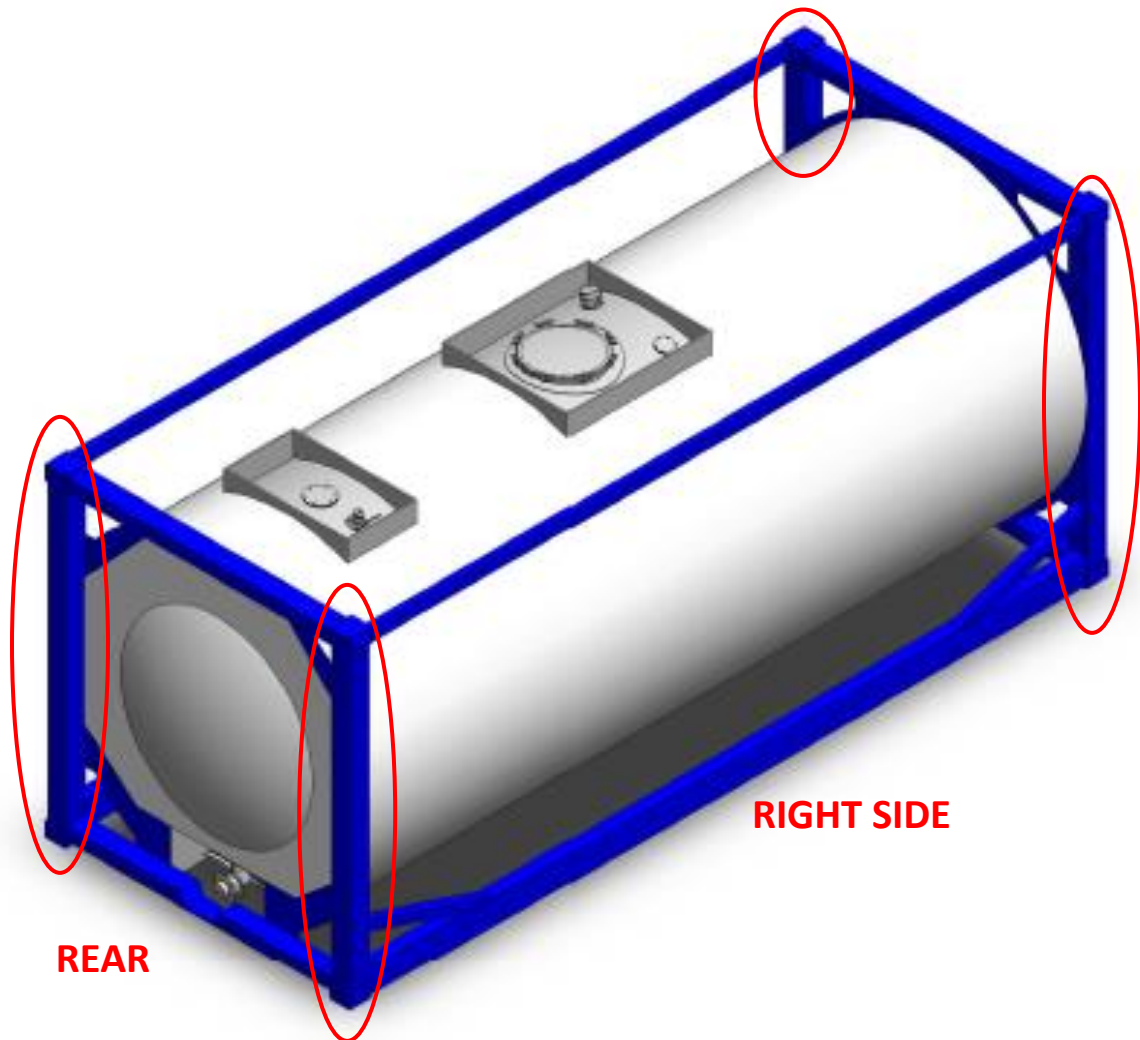
Introduction to ISO Tanks: Frame

CORNER CASTINGS

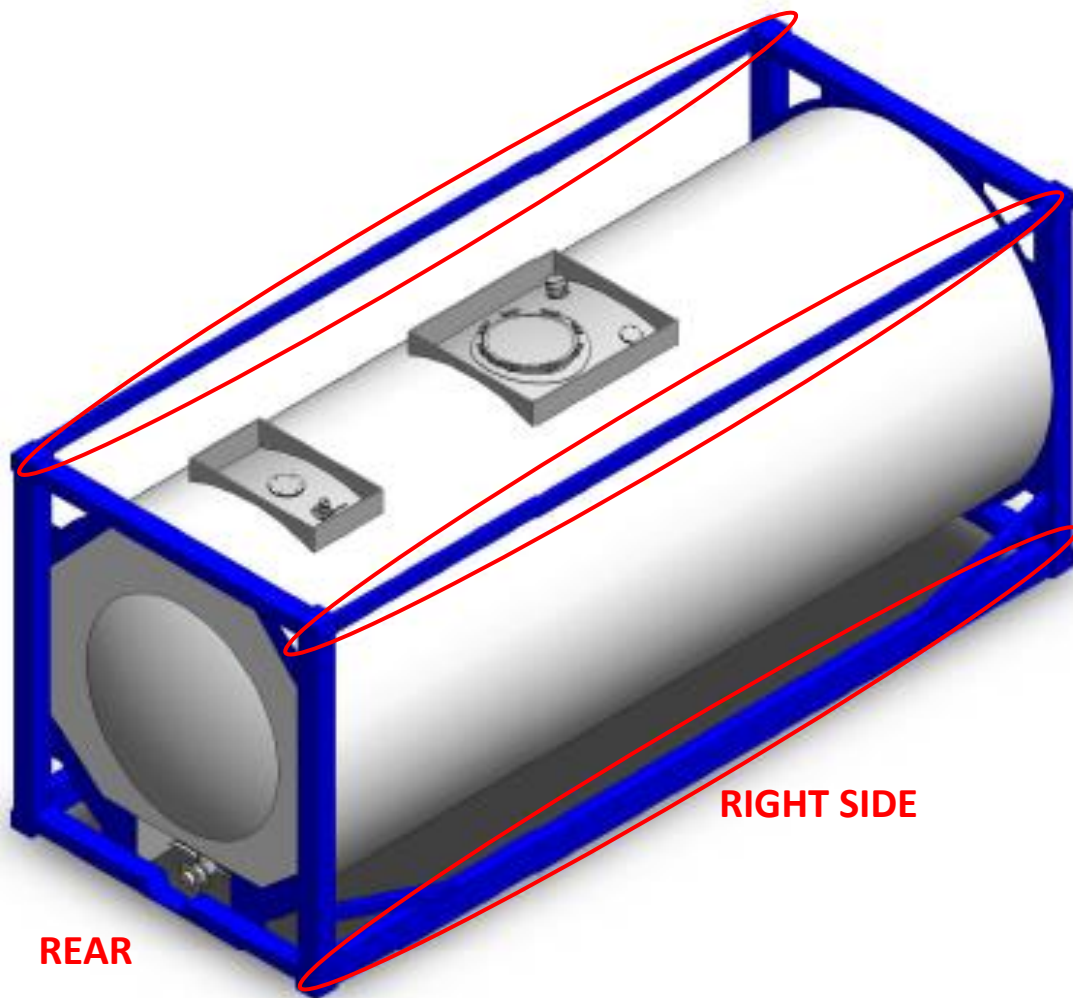


	Item	Description
1		BOTTOM LEFT CORNER CASTING
2		BOTTOM RIGHT CORNER CASTING
3		TOP LEFT CORNER CASTING
4		TOP RIGHT CORNER CASTING

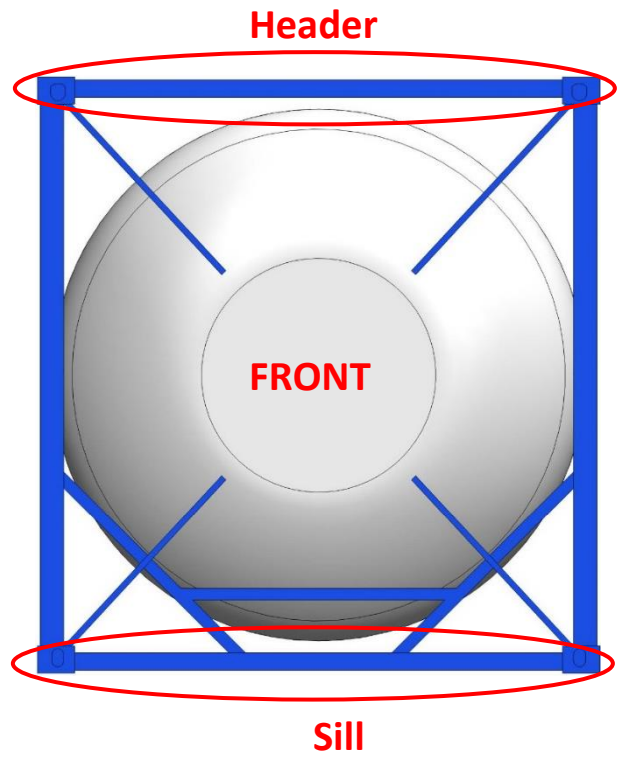
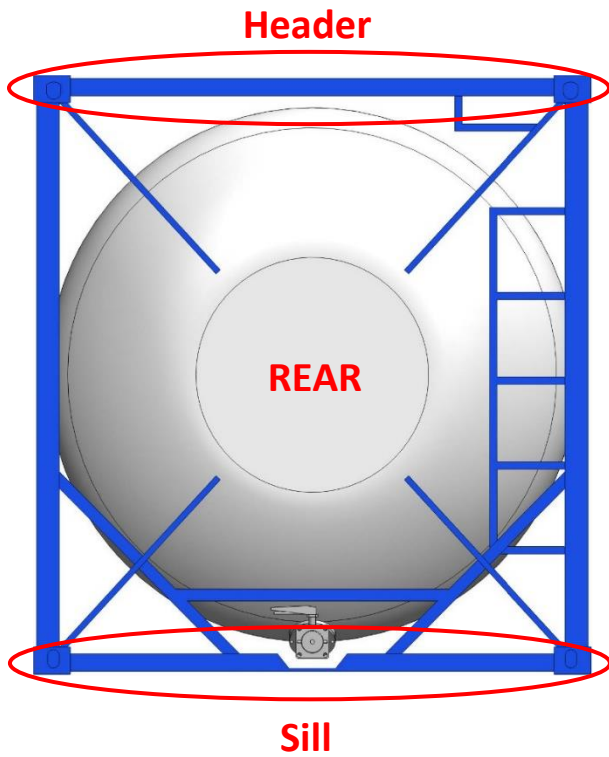
CORNER POST



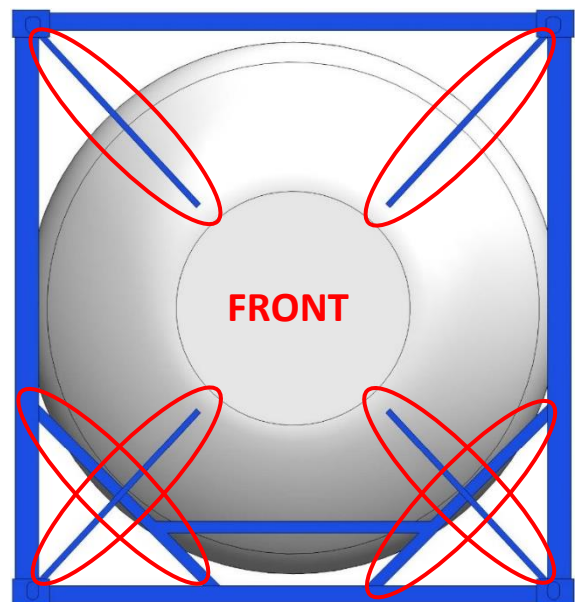
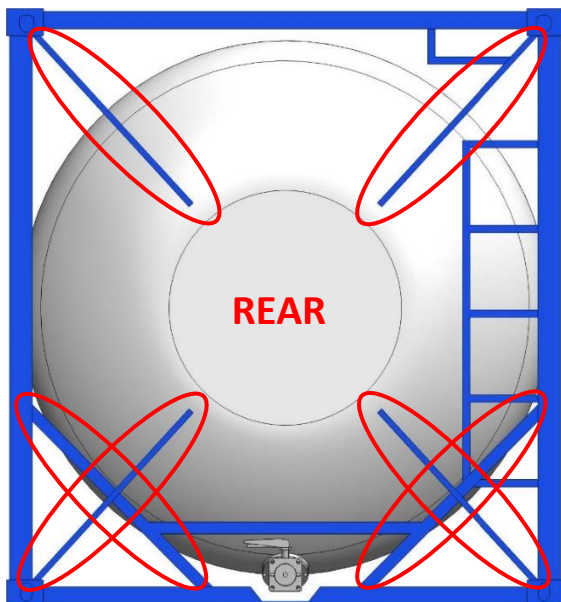
SIDE RAILS



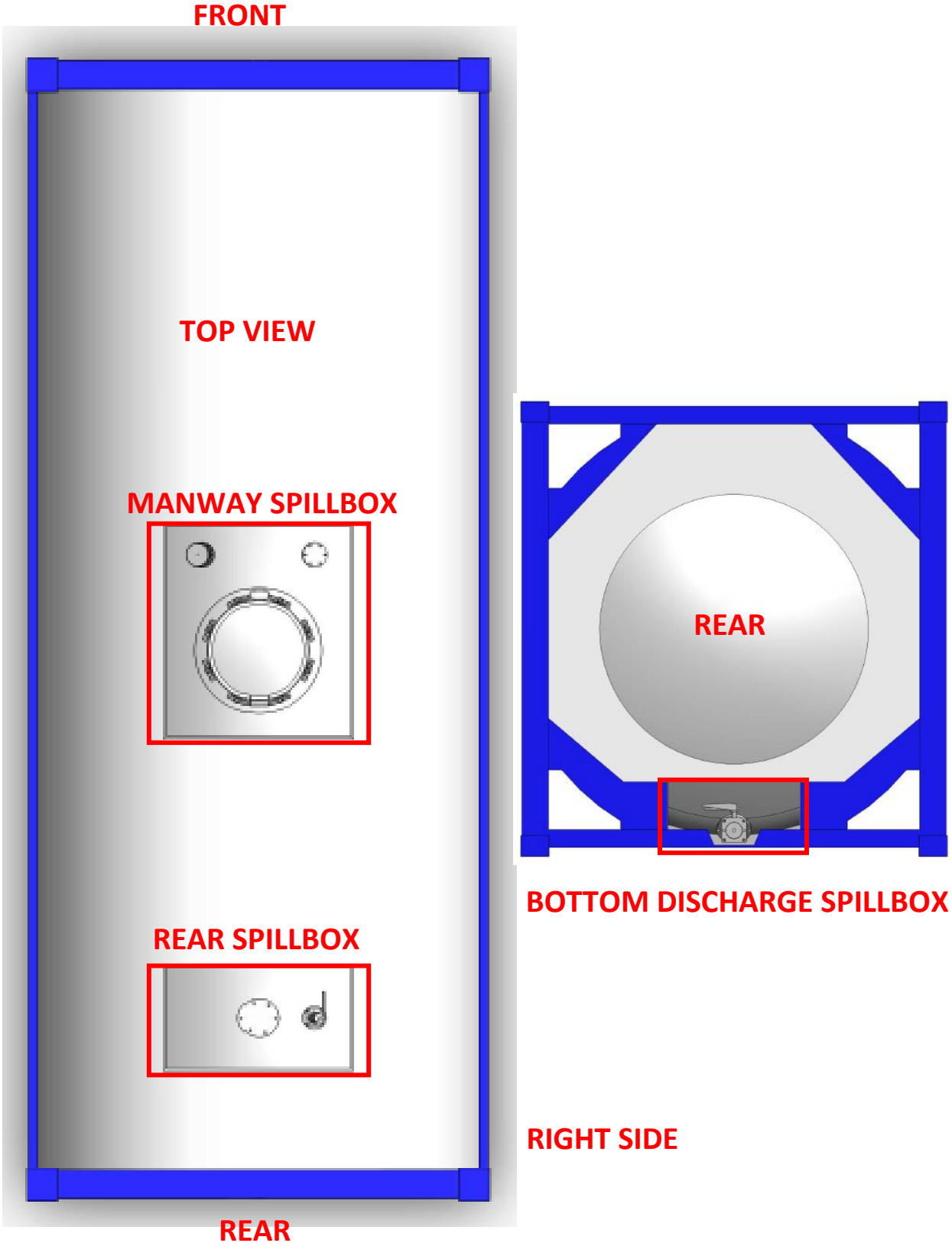
END RAILS



DIAGONAL BRACING



SPILL BOXES



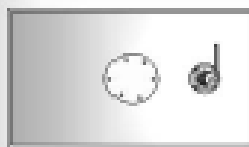
TANK DECALS

FRONT

LEFT SIDE

RIGHT SIDE

TOP VIEW



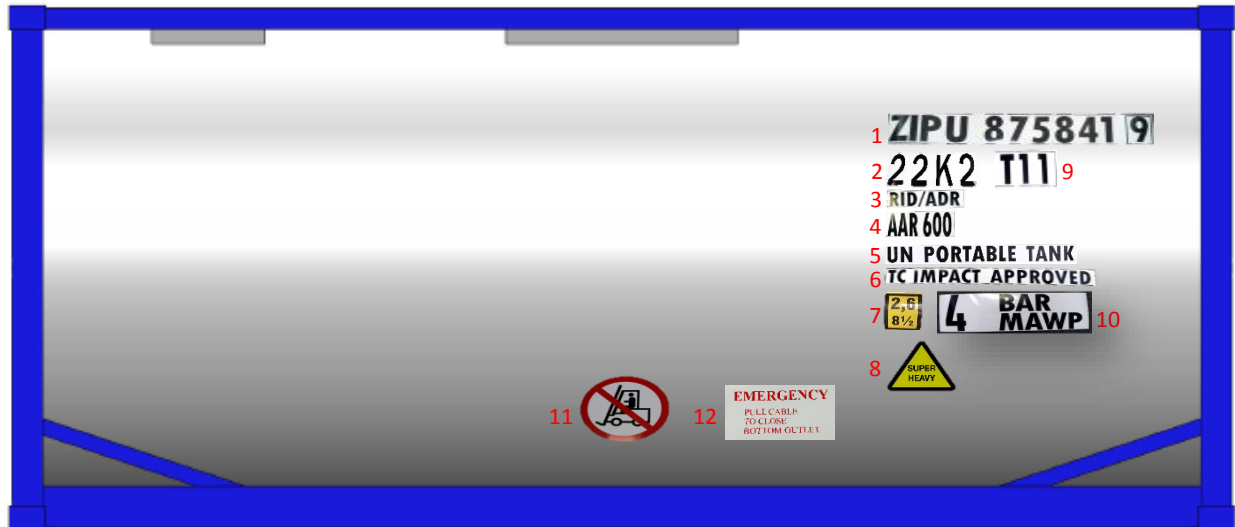
REAR

Decals:

- 1) Tank Unit #
- 2) No Foot
- 3) Danger Under Nitrogen

TANK DECALS

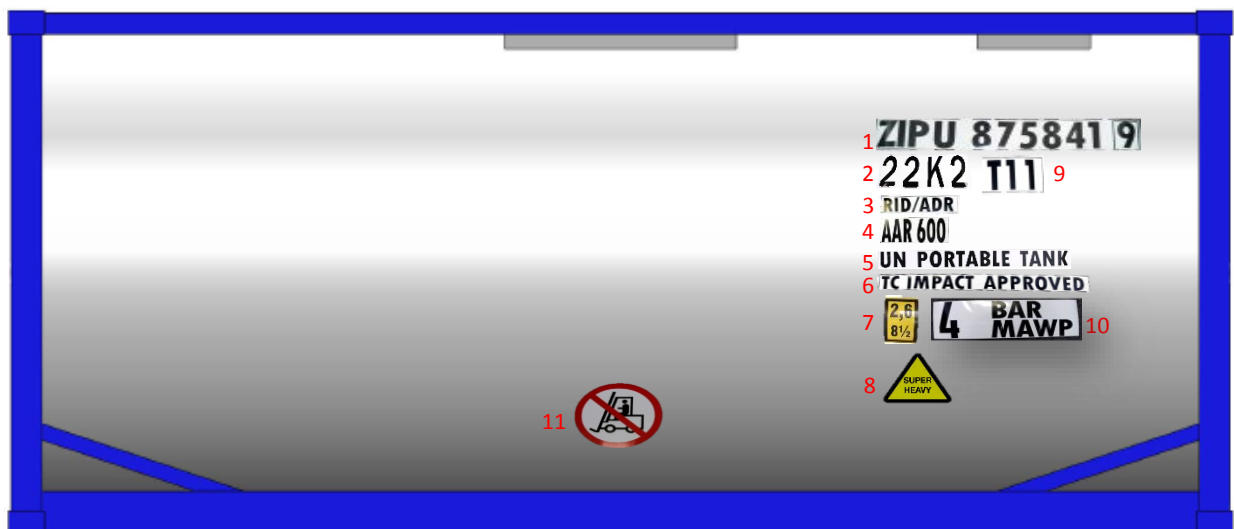
RIGHT SIDE



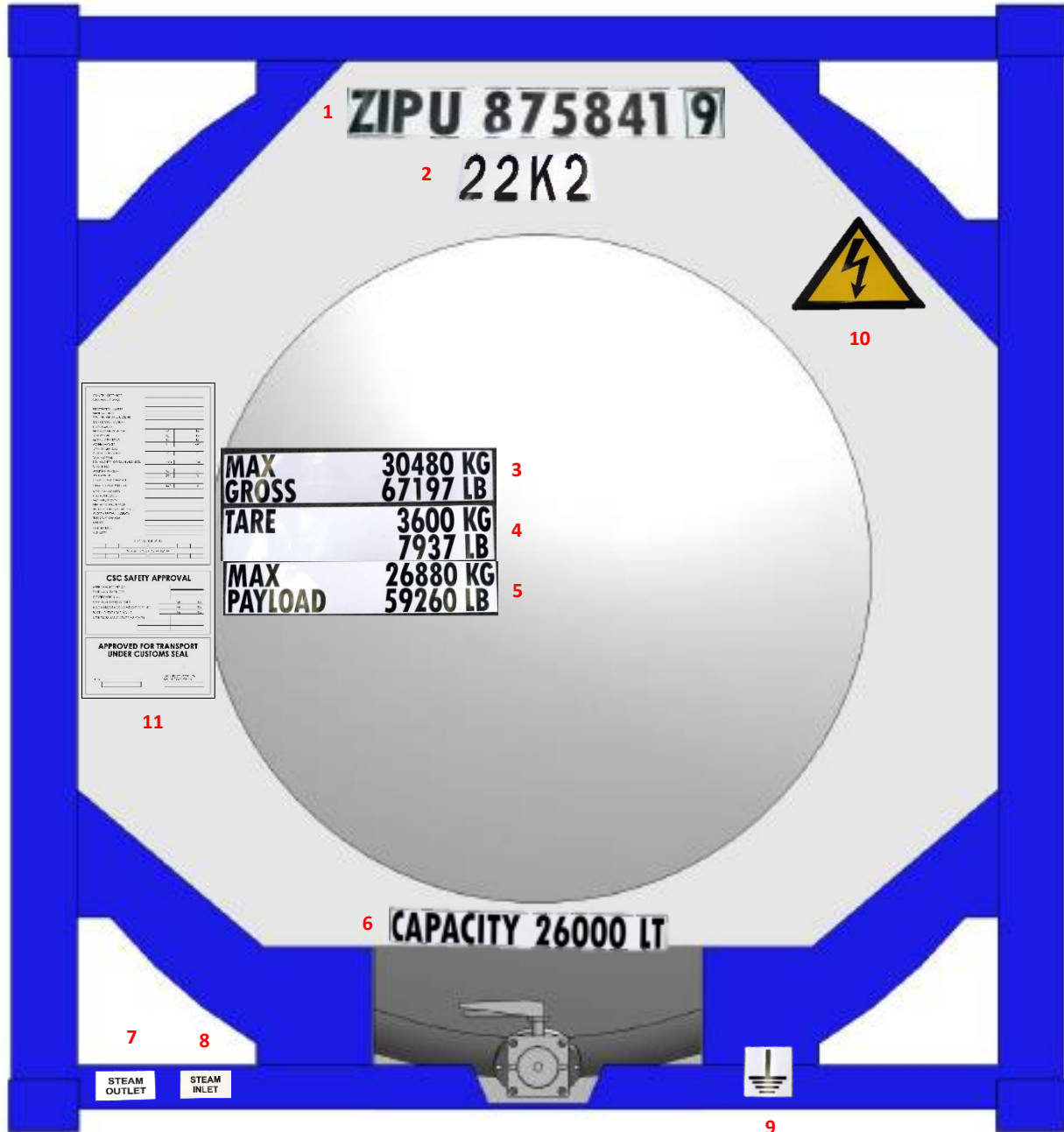
Decals:

- | | | |
|-------------------------------|-----------------------|----------------------------|
| 1) Tank Unit # | 5) UN Portable Tank | 9) T-Code |
| 2) Size & Type | 6) TC Impact Approved | 10) Working Bar Pressure |
| 3) Rail/Road Europe Transport | 7) Height | 11) No Forklift |
| 4) American Railroad | 8) Super Heavy | 12) Emergency Remote Cable |

LEFT SIDE



TANK DECALS



REAR

Decals:

- | | | | |
|----------------|----------------|-----------------|--------------------------|
| 1) Tank Unit # | 4) Tare Weight | 7) Steam Outlet | 10) Overhead (Lightning) |
| 2) Size & Type | 5) Max Payload | 8) Steam Inlet | |
| 3) Max Gross | 6) Capacity | 9) Ground Lug | 11) Data Plate |

TANK DECALS



FRONT

Decals:

1) Tank Unit #

2) Size & Type

TANK DECALS

Tank Unit #s:

ISO6346 International Shipping Container Standard

ZIPU 123456 7

OWNER CODE

SERIAL NUMBER

CHECK DIGIT

CATEGORY IDENTIFIER:

J: detachable freight container related equipment

R: reefer (refrigerated) containers

U: freight containers

Z: trailers and chassis

Size & Type:

ISO6346 International Shipping Container Standard

22T1

LENGTH

HEIGHT

TYPE

LENGTH

2: 20'

4: 40'

L: 45'

M: 48'

HEIGHT

0: 8'

2: 8' 6"

4: 9'

5: 9' 6"

TYPE*

T0-2 Non Dangerous Liquids

T3-6 Dangerous Liquids

T7-9 Gases

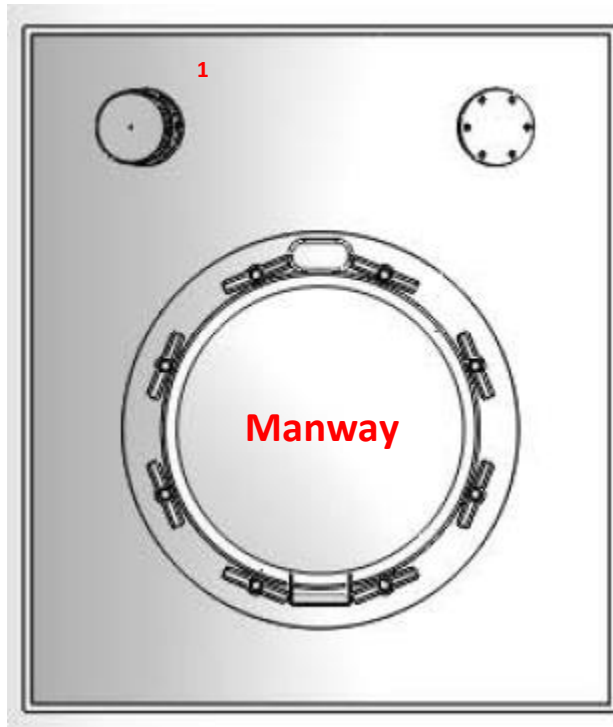
T11 Non-Hazardous Chemicals

T50 LPG and Ammonia Gas

* Please refer to Federal Register / Vol. 66, No. 120 / Thursday, June 21, 2001 / Rules and Regulations

TANK SPILL BOX COMPONENTS

MANWAY SPILLBOX



Valves:

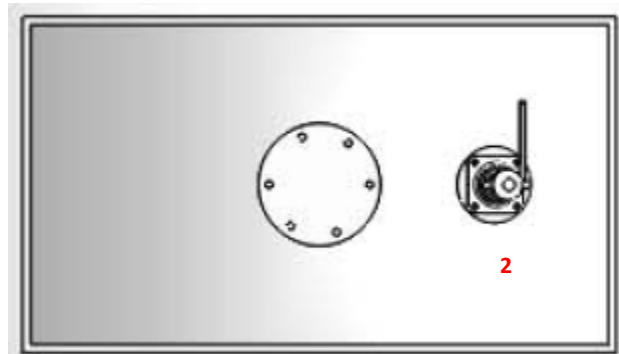
1) Safety Relief Valve –
2.5" BSP or Flanged Tank Connection

2) Airline Ball Valve –
1.5" BSP or Flanged Inlet Connection

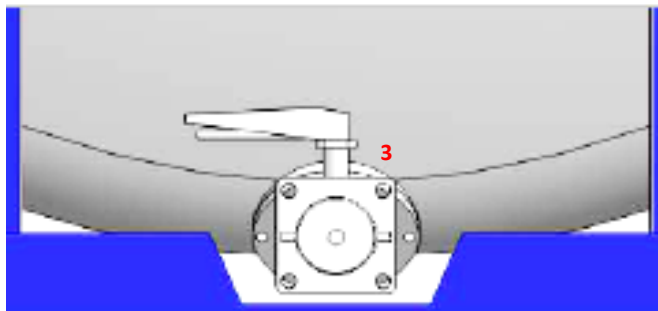
3) Bottom Discharge-
3" Foot Valve to Tank,
3" Butterfly Valve to Foot Valve
3" BSP Spigot to Butterfly Valve

Tank Valve combinations vary from Types,
Brands, and Locations.

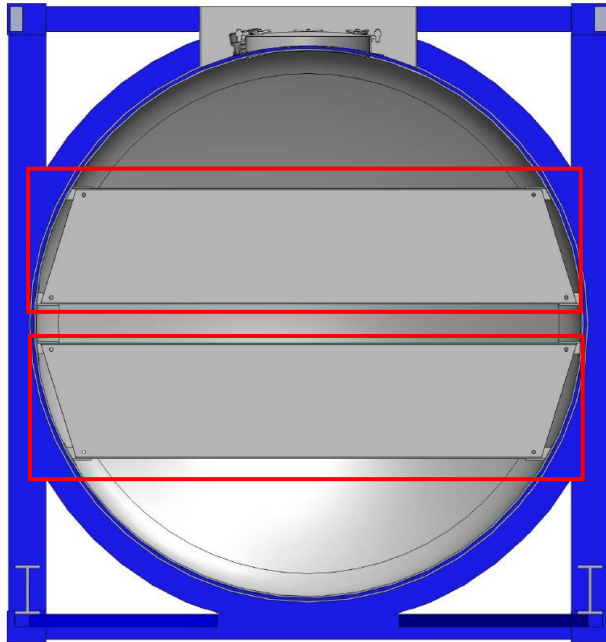
REAR SPILLBOX



BOTTOM DISCHARGE SPILLBOX



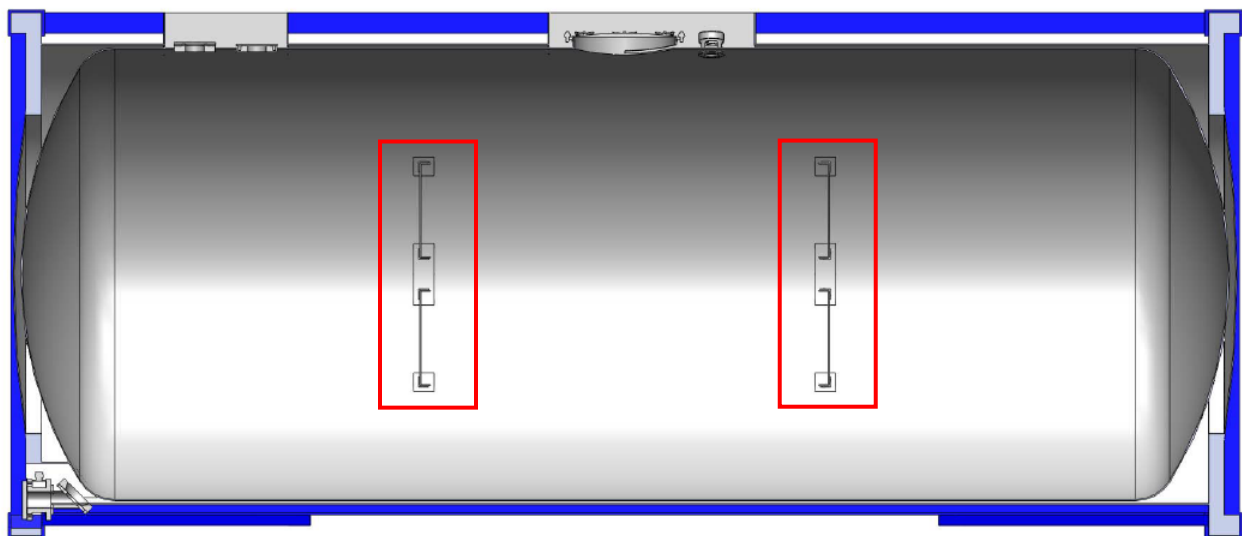
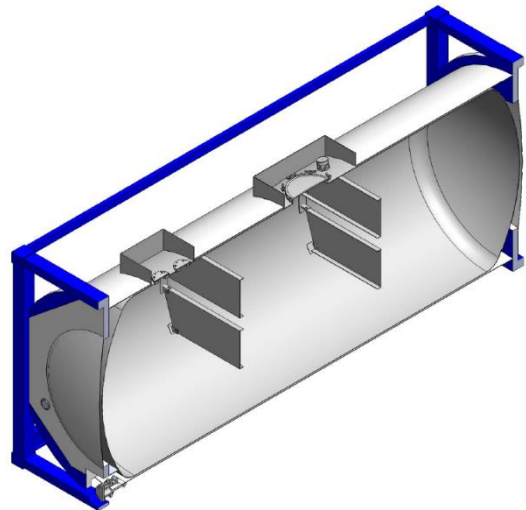
TANK BAFFLES



FRONT VIEW

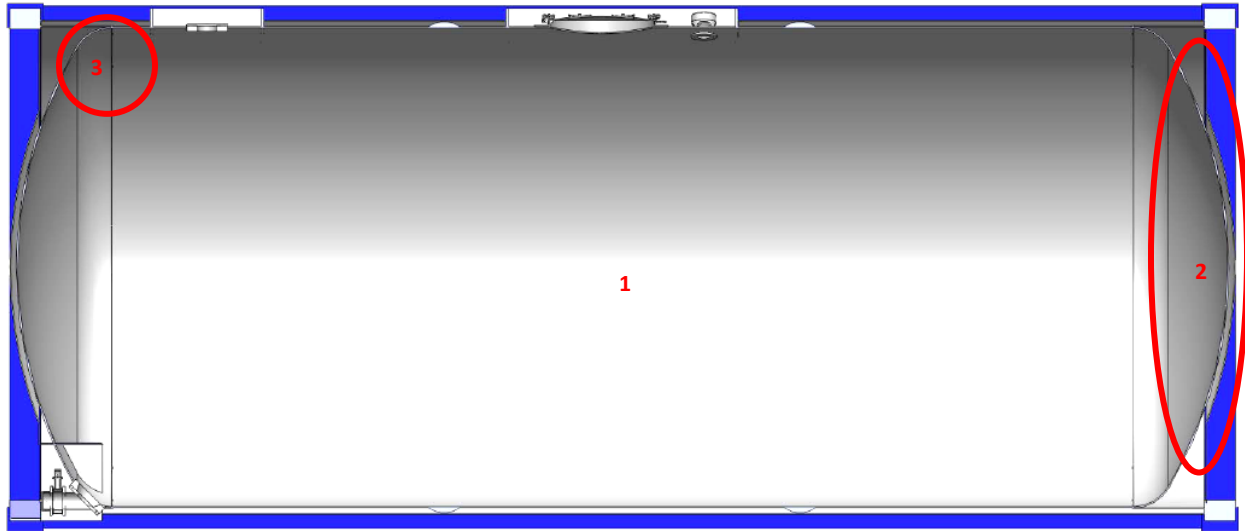
BAFFLES:

Are large set of corrugated plates that are bolted to the inside of the tank horizontally. They are used to provide stability during transportation of liquids when the tank is filled between 20 to 80%.



SIDE VIEW

TANK SHELL INTERIOR

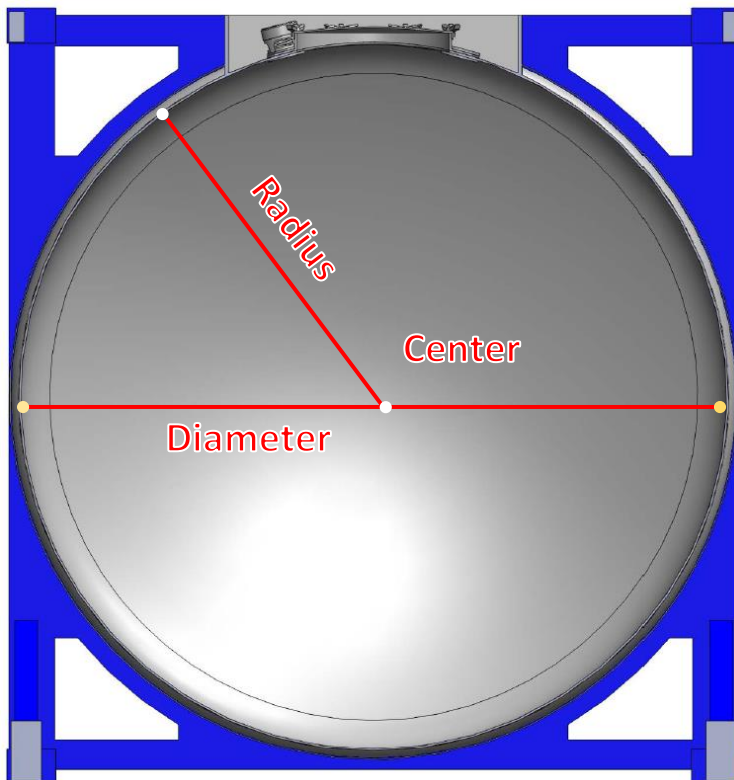


Shell:

1) Barrel (shell)

2) Shell End Cap (Head)

3) Head Knuckle

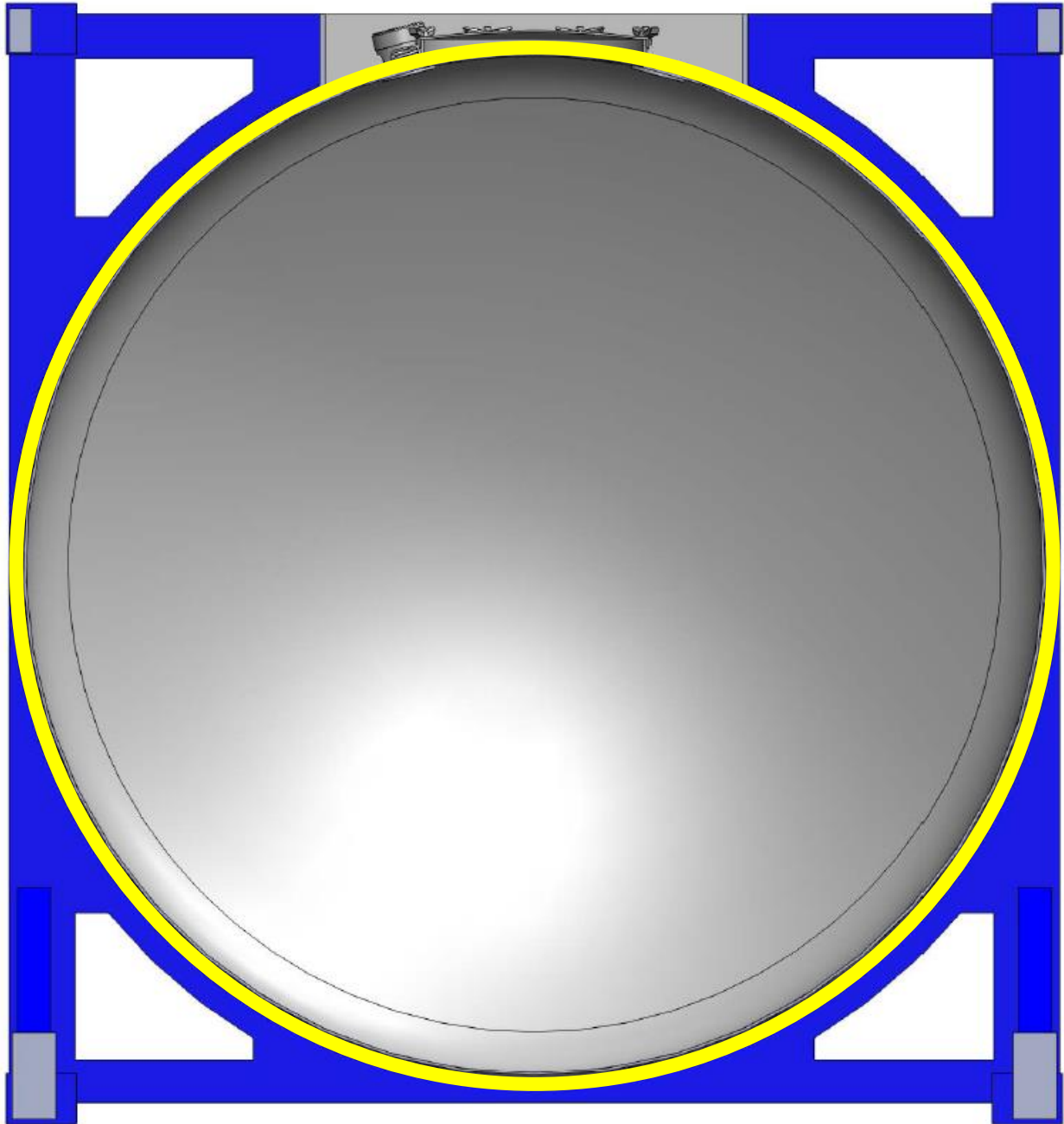


How to Measure the Shell:

The radius is the distance from the center of the circle to its edge.

To find the radius of the barrel measure the interior wall to the opposite wall and divide the measurement in half.

TANK SHELL EXTERIOR

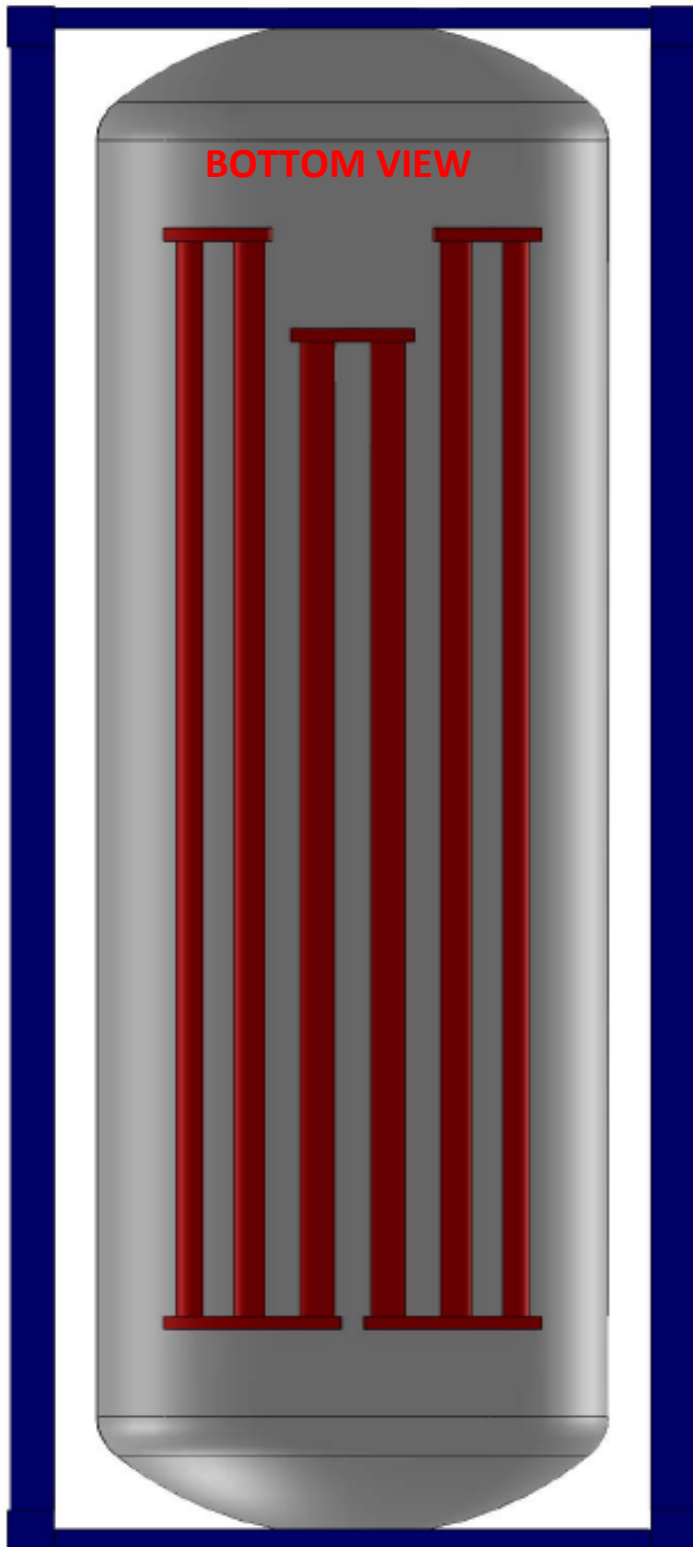


FRONT VIEW

Shell Exterior Components:

The Shell is wrapped in 2" **Insulation** highlighted in **yellow**. **Cladding** wraps over the insulation and is composed from either GRP, Aluminum or Stainless Steel material.

TANK STEAM CHANNELS



Steam Channels:

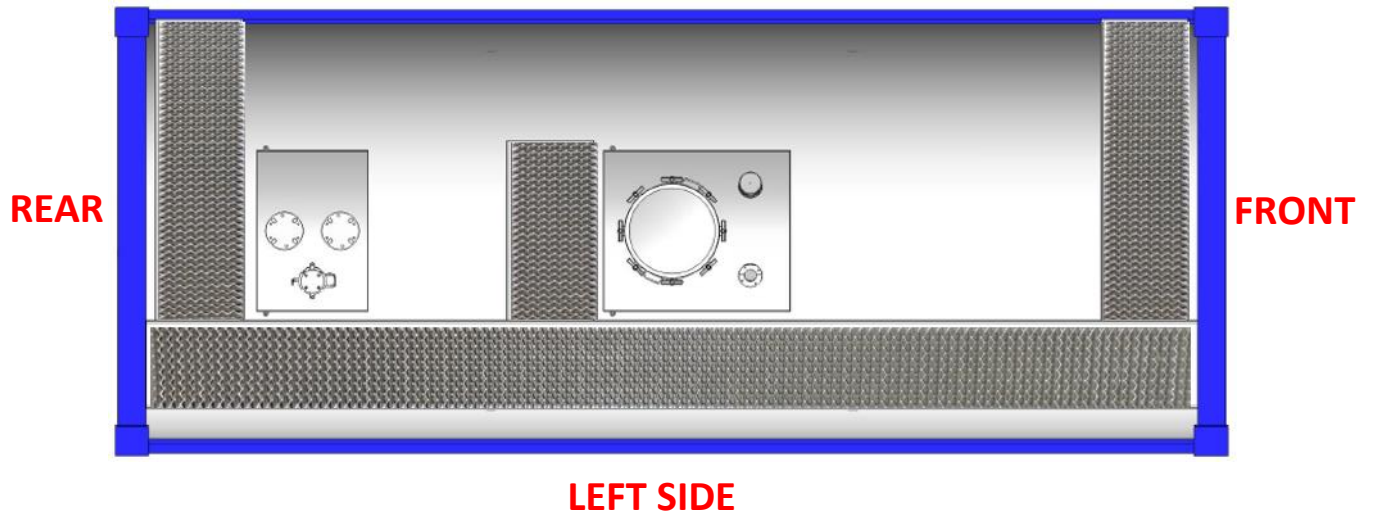
They are made up of channels welded in a continuous loop on the outside of the lower half of the tank.

The connections can be fitted with a relief valve and closed with threaded caps.

TANK CATWALK

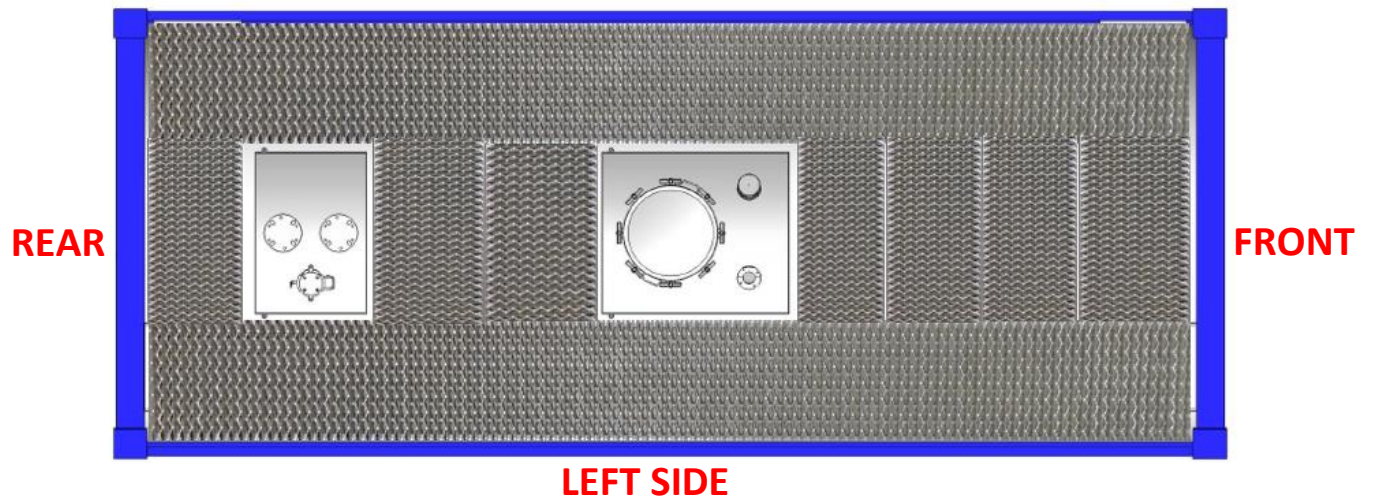
**PARTIAL
COVERAGE**

RIGHT SIDE

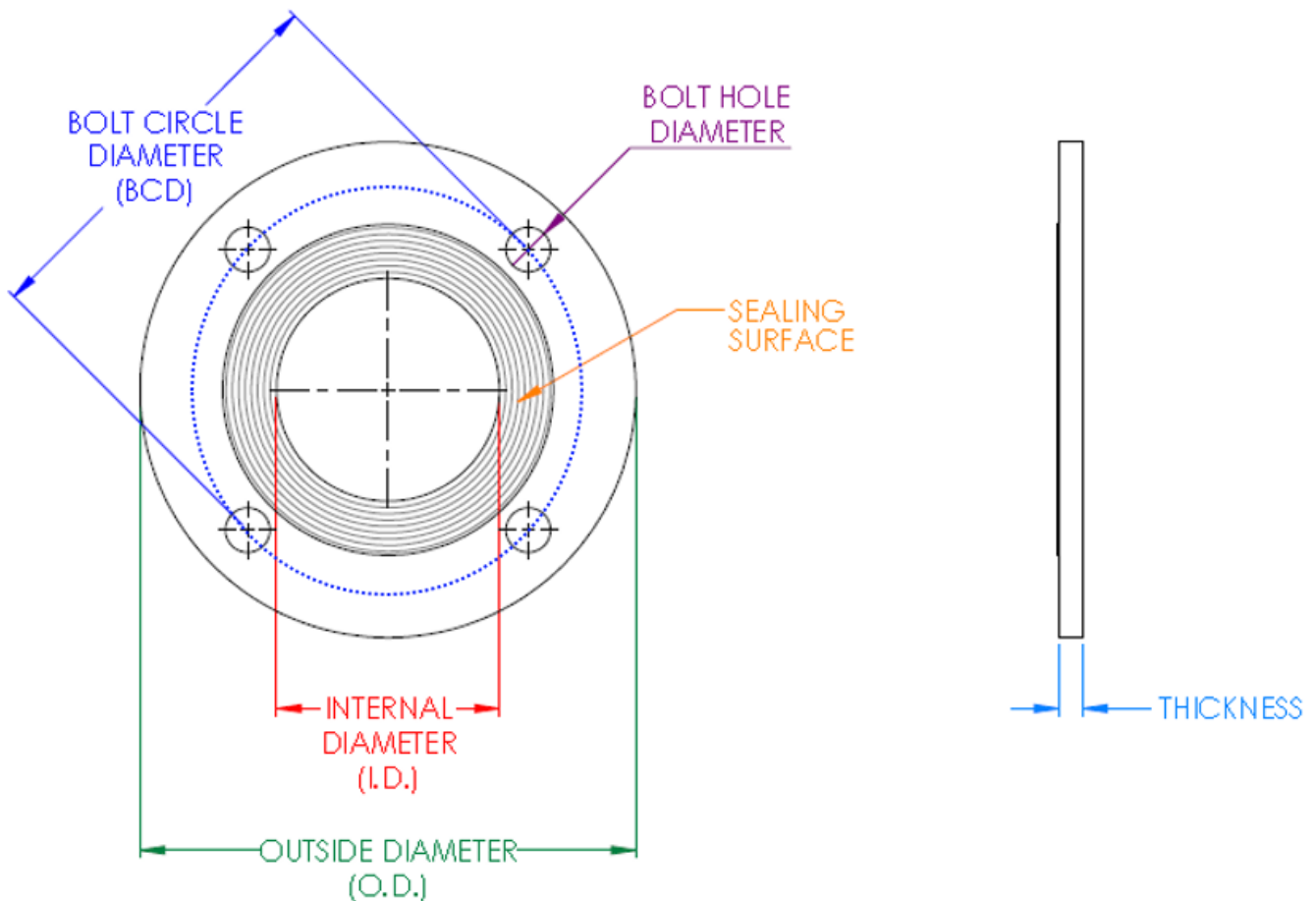


**FULL
COVERAGE**

RIGHT SIDE



How to Measure Flanges & Gaskets



The measuring principles apply to both flanges and gaskets.

*Above is a drawing of a Flange.

The **Bolt Circle** is the measurement (diameter) of an imaginary circle passing through the centers of all the bolts in a round pattern. This is represented by the **Blue Dashed Circle** in the drawing. To measure such circle measure from the center of one bolt directly across to the center of the other bolt.

The **Outside Diameter** is the measurement of the outside of the Flange or Gasket.

The **Inside Diameter** is the measurement of the inside of the hole of a Flange or Gasket.

The **Sealing Surface** is the area of contact the gasket is placed to seal between two flange connections.

All measurements should be made across the center of the flange or gasket.