

SAFETY / OPERATIONAL NOTES

1. Tank is designed for loads induced from a liquid product.
2. Do not field cut openings in tank without written consent from Tank Connection.
3. Customer is responsible for providing proper bracing of their equipment attaching to any part of the tank.
4. Tank foundation shall be level within 1/8" in any 30' circumference under the tank shell. Levelness on circumference shall not vary more than ¼" from any established plane. Tank padding to be used on concrete foundations. Vapor barrier to be used on gravel and sand foundations.
5. If anchor bolts are not provided by Tank Connection, adequate anchoring necessary to resist all wind and seismic loads is the responsibility of the customer.
6. Application of loads to tank from equipment, other than those noted on the project drawings, must be approved in writing by Tank Connection prior to installation.
7. Tank is designed for atmospheric (equalized) pressure internally and externally. Customer to assure proper ventilation is provided and maintained.

INSTALLATION NOTES

1. Use only hardware furnished with tank. All bolts must meet special high strength requirements.
2. Install tank segments in a counter-clockwise direction when working from top down. Install tank segments in a clockwise direction when working from bottom up.
3. Tank shall be adequately braced during installation to prevent wind damage.
4. Tank and deck panels may be oriented to suit unless special orientation is required.
5. When encapsulated bolts are required, they shall be used in the stored liquid zone only.
6. Installation contractor shall coordinate touch-up coating procedures. Contractor to follow manufacturer's label instructions.
7. Adequate blocking shall be used to protect bolted panels if removed from shipping pallets prior to field installation.
8. All bolted connections to be min. snug tight unless noted otherwise.

DESIGN CRITERIA

|   |  |
|---|--|
| Design Code   | AWWA D103-09   |
| Roof Live Load  | 25 pounds per square foot                                      |
| Wind Design / Conditions  | AWWA D103-09, 100 miles per hour, Exp. C, I=1.15               |
| Seismic Design / Conditions   | AWWA D103-09, Ss=26.3%, S1=12.0%, I=1.5, Site Class=D, Group=3 |
| Design Pressure / Vacuum  | +2.0 oz/in^2 / -0.5 oz/in^2                                    |
| Operating Pressure / Vacuum   | Atmospheric  |
| Product Stored  | Potable Water  |
| Specific Gravity  | 1.0  |
| Product pH Range  | 4 to 9 Assumed   |
| Operating Temperature of Stored Material                                | Ambient  |
| TANK CONSTRUCTED OF ASTM CERTIFIED SHEET, PLATE, AND STRUCTURAL MEMBERS |  |
| ALL BOTTOM, ROOF SHEET AND SHELL BOLTS ARE GRADE 8 (150KSI)             |  |

COATINGS

| TANK LOCATION  | COATING             | NOMINAL MILS | AVERAGE MILS   |
|--|---------------------|--------------|----------------|
| Interior Primer  | Fusion 7000 FBE     | 6 mils DFT   | 6 - 9 mils DFT |
| Both Sides of Flat Bottom  | Fusion 7000 FBE     | 6 mils DFT   | 6 - 9 mils DFT |
| Exterior Primer  | EXT Fusion 5000 FBE | 3 mils DFT   | 3 - 5 mils DFT |
| Exterior Topcoat   | EXT Fusion SDP      | 3 mils DFT   | 3 - 5 mils DFT |
| Exterior Color   | Cobalt Blue RAL5022 |              |                |
| NOTE: All coatings are applied over an SP10 surface blast and fused to substrate surface |                     |              |                |

SEALANT / GASKET

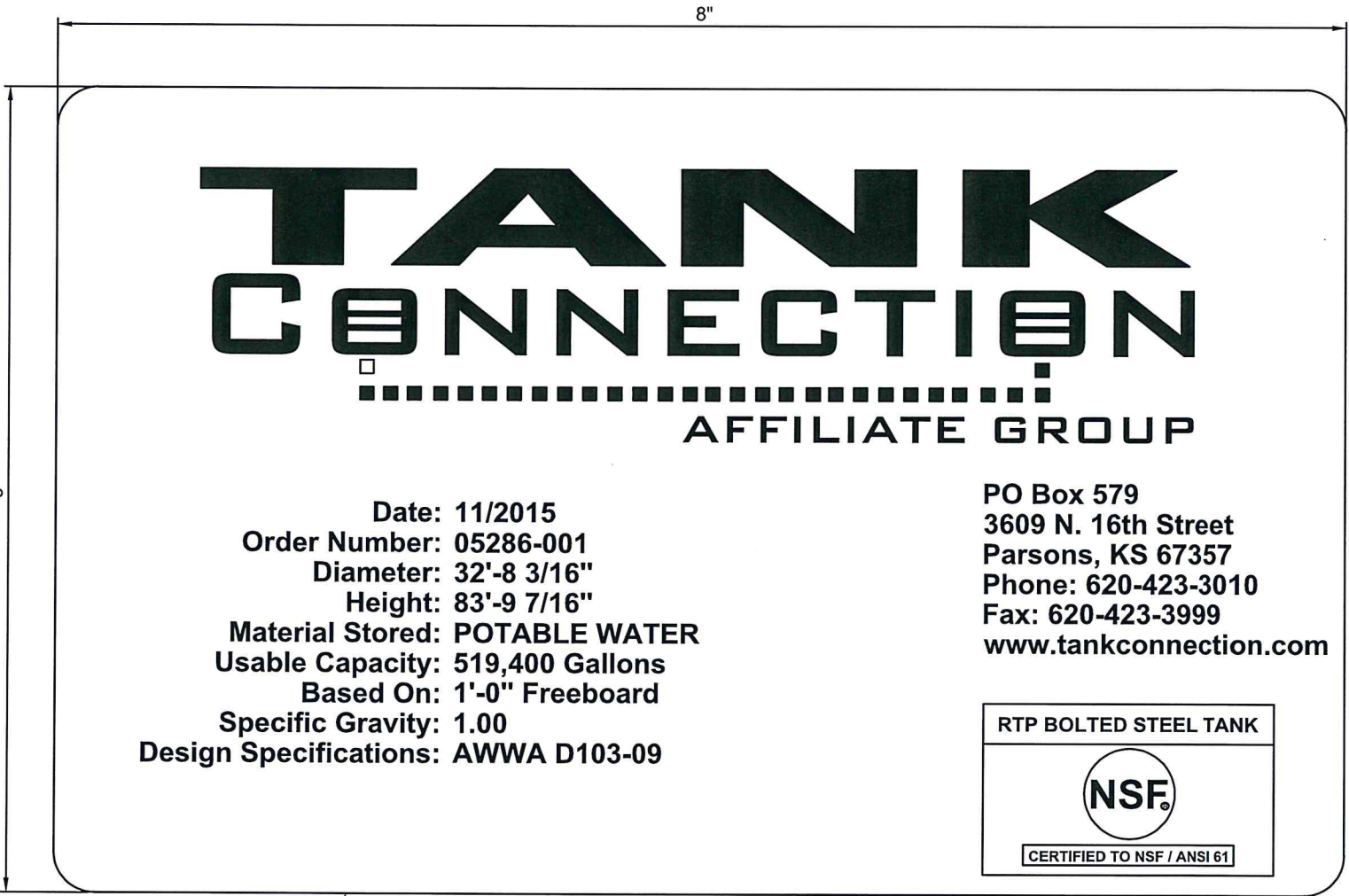
|         |                       |       |
|---------|-----------------------|-------|
| Sealant | Manus Bond Mastic     | Black |
| Gasket  | EPDM Synthetic Rubber | White |

MATERIAL SPECIFICATION

|                                     |                              |
|-------------------------------------|------------------------------|
| Sheet                               | ASTM A1011 Grade 40          |
| Plate (standard)                    | ASTM A1011 Grade 36          |
| Plate (high strength)               | ASTM A1011 Grades 50, 60, 70 |
| Structural Shapes (angle / channel) | ASTM A36                     |
| Structural Shapes (w-shapes)        | ASTM A992                    |
| Carbon Steel Pipe / Tube            | ASTM A53 Grade B             |
| Carbon Steel Structural Pipe / Tube | ASTM A500 Grade B            |
| Carbon Steel Bolts (standard)       | SAE Grade 5 ASTM A325        |
| Carbon Steel Bolts (high strength)  | SAE Grade 8                  |
| Anchor Bolts                        | ASTM F1554 Grade 36, 105     |



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NAMEPLATE IS CONSTRUCTED OF CORROSION RESISTANT PLASTIC AND MOUNTED TO THE TANK USING INDUSTRIAL STRENGTH DOUBLE SIDED TAPE

NAMEPLATE DETAIL

|  |  |                                   |  |  |  |          |  |   |  |             |  |                          |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |
|--|--|-----------------------------------|--|--|--|----------|--|---|--|-------------|--|--------------------------|--|-----------|--------------------------------------|-----|--|-----|--|--------------------------|--|--------------|--|-----------|--|
| TOTAL WT:  |  | PARENT: ---                       |  |  |  |          |  | <div>THE INFORMATION ON THIS DOCUMENT IS<br/>CONFIDENTIAL PROPERTY OF TANK<br/>MANUFACTURER AND/OR ITS AFFILIATES. ANY<br/>OTHER USE, RETENTION, DISSEMINATION,<br/>FORWARDING, PRINTING OR COPYING OF THIS<br/>DOCUMENT TO UNAUTHORIZED PARTIES IS<br/>STRICTLY PROHIBITED, WITHOUT THE<br/>EXPRESSED WRITTEN CONSENT OF TANK<br/>MANUFACTURER.</div> <div><div>TANK<br/>CONNECTION</div><div>AFFILIATE GROUP</div><div>3609 NORTH 16TH ST. . PARSONS, KANSAS 67357<br/>620.423.3010 . FAX: 620.423.3999</div></div> |  |             |  |                          |  |           | CERTIFIED: APPROVED FOR CONSTRUCTION |     |  |     |  |                          |  |              |  |           |  |
| ***DO NOT SCALE***<br>DRAWING IN INCHES<br>ANSI/ASME Y14.1 STANDARDS                                       |  | TOLERANCES UNLESS OTHERWISE NOTED |  |  |  |          |  |   |  | 0           |  | RELEASED FOR FABRICATION |  | 11/3/2015 |                                      | DWM |  | CAS |  | NAMEPLATE & DESIGN NOTES |  | PROJ # 05286 |  | JOB # 001 |  |
|  |  |                                   |  |  |  |          |  |   |  |             |  |                          |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |
|  |  |                                   |  |  |  |          |  |   |  |             |  |                          |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |
|  |  |                                   |  |  |  |          |  |   |  |             |  |                          |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |
|  3RD ANGLE<br>PROJECTION |  | ANGULAR DEVIATION                 |  | PERMISSIBLE DEVIATION NOMINAL LENGTH IN INCHES |  |          |  |   |  |             |  |                          |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |
|  |  | X = ±1.0° / X.X = ±0.5°           |  | 0 - 4"   |  | 4" - 48" |  | 48" - 130"  |  | 130" - 240" |  | 240"+                    |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |
|  |  | LINEAR TOLERANCE:                 |  | 1/32"  |  | 1/16"    |  | 5/32"   |  | 1/8"        |  | 3/16"                    |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |
|  |  | HOLE TO HOLE TOLERANCE:           |  | 1/32"  |  | 1/32"    |  | 1/32"   |  | 1/16"       |  | 1/16"                    |  |           |                                      |     |  |     |  |                          |  |              |  |           |  |