FUEL-VAULT
INTEGRAL CONTAINED – DUAL WALL TANK
OWNERS AND USERS MANUAL

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY
BEFORE INSTALLATION AND USE OF TANK

Contact Info:
www.westeel.com  Toll Free: 1-800-665-2099  Email: lcs@westeel.com
WESTEEL LIMITED WARRANTY......................................................................................................................................................... 3

1. Duration of Warranty........................................................................................................................................................................ 3
2. Limitation of Remedies Replacement ........................................................................................................................................ 3
3. Procedure for Obtaining Service.................................................................................................................................................. 3
4. Limitations as to Scope of Warranty ........................................................................................................................................ 3
5. Limitations as to Manufacturer .................................................................................................................................................. 4
6. Limitation of Implied Warranties and Other Remedies ............................................................................................................... 4
7. Exclusive Warranty ........................................................................................................................................................................ 4

DISCLAIMERS........................................................................................................................................................................................................... 4
EXTERNAL CORROSION........................................................................................................................................................................ 4
INTERNAL CORROSION........................................................................................................................................................................ 4
GENERAL ........................................................................................................................................................................................................ 5

KNOW YOUR TANK........................................................................................................................................................................................................ 6
TANK SERIAL NUMBER ......................................................................................................................................................................... 6
TANK & FUEL COMPATIBILITY .......................................................................................................................................................... 6
TANK MATERIAL .................................................................................................................................................................................. 7
DESIGN TEMPERATURE: .................................................................................................................................................................... 7
CORROSION ALLOWANCE: ................................................................................................................................................................. 8
TANK PAINT: ......................................................................................................................................................................................... 8
LIST OF CAUTION/WARNING DECALS .............................................................................................................................................. 9

SHORTAGES, DAMAGED PARTS, AND OPTIONAL EQUIPMENT .............................................................................................................. 9

HANDLING AND STORING........................................................................................................................................................................ 10
HANDLING................................................................................................................................................................................... 10
STORING ...................................................................................................................................................................................... 11
MAINTENANCE................................................................................................................................................................................. 11

TANK OPERATING INSTRUCTIONS ..................................................................................................................................................... 13
OPERATING CONDITIONS .................................................................................................................................................................. 13
VENTING ......................................................................................................................................................................................... 13
TANK GROUNDING: ........................................................................................................................................................................ 14
TANK LIFT LUGS: ............................................................................................................................................................................... 14

TANK INSTALLATION ........................................................................................................................................................................ 15
WESTEEL LIMITED WARRANTY

Petroleum Storage Products

Westeel warrants products that it has manufactured and/or that are branded with its name or that of Northern Steel Industries (the “goods”) subject to the following terms and limitations, (the “warranty”).

Note: The warranty does not apply to products manufactured by Westeel under license (the “licensed products”). The licensed products are solely subject to warranty terms as they may be set from time to time by the licensing body. The licensed products include but are not necessarily limited to: FLAME SHIELD, Fireguard, F921, stiP3, AquaSweep and Glasteel. For information on warranty terms applicable to the licensed products, or to determine whether a product is a licensed product, please consult the Westeel website and/or contact Westeel www.westeel.com or 1-800-665-2099.

1. **Duration of Warranty.** The duration of the warranty is limited as follows.
   - i. External Corrosion – 2 years.
   - ii. Internal Corrosion – 2 years.
   - iii. Structural Defect – 5 years, except in the case of Mobile Tanks in which case it is 1 year.
   - iv. Tank Accessories – 1 year;
   - v. Loss of Vacuum – 2 years, except in the case of Underground Tanks in which case it is 30 days from the date of delivery to the purchaser.

The duration of the warranty will run from the date of purchase from a dealer or distributor authorized by Westeel, unless otherwise stated (the "warranty period").

2. **Limitation of Remedies Replacement** Within the warranty period, Westeel will replace the goods and/or originally manufactured components thereof which are found, to Westeel's satisfaction, to be defective. Westeel is not responsible for direct, indirect, special, consequential, or any other damages of any kind, including personal injury to any individual, howsoever caused, including caused by transportation of the goods for repair or replacement.

3. **Procedure for Obtaining Service** In the event of a warranty claim, the purchaser must complete any and all information required by Westeel in order to properly assess or investigate the claim. Westeel will not be responsible for the removal of any of the goods found to be defective, or transportation charges to and from Westeel's authorized dealer or distributor, or for installation of any replacement goods and/or parts furnished under the warranty.

4. **Limitations as to Scope of Warranty** The warranty does not extend to defects or damage caused, in whole or in part, by:
   - i. Use of a kind and/or to a degree not reasonably expected to be made of the goods.
   - ii. Improper storage of the goods both prior to and after purchase.
   - iii. Damage caused by, or in the course of, installation or assembly.
   - iv. Any use of the goods which an intended use is not, as specified in Westeel's published product literature, or otherwise specified by Westeel in writing.
   - v. Any equipment attached to or used in conjunction with the goods.
   - vi. Any field modification or substitutions to original tank components.
   - vii. Inadequate ventilation or any other circumstance not in keeping with proper maintenance and/or use of the goods.
   - viii. Acts of god, accident, neglect or abuse of the goods by the purchaser and/or any other individual or entity
   - ix. Any use or installation inconsistent with Westeel’s Standard Disclaimer.
5. **Limitations as to Manufacturer** The warranty does not cover products sold by Westeel that are not manufactured and/or that are not branded with its name or that of Northern Steel Industries. In those circumstances, the purchaser is referred to the manufacturer of those products.

6. **Limitation of Implied Warranties and Other Remedies** To the extent allowed by law, neither Westeel nor its dealers, nor any company affiliated with Westeel makes any warranties, representations, or promises as to the quality, performance, or freedom from defect of any Product covered by this Warranty.

**WESTEEL HEREBY DISCLAIMS, TO THE EXTENT APPLICABLE, ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. A PURCHASER’S ONLY REMEDIES IN CONNECTION WITH THIS WARRANTY ARE THOSE SET FORTH IN THIS WARRANTY. IN NO EVENT WILL WESTEEL, ITS DEALERS, OR ANY COMPANY AFFILIATED WITH WESTEEL BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES.**

Some jurisdictions do not allow waivers of certain warranties, so the above waivers may not apply to you. In that event, any implied warranties are limited in duration to ninety (90) days from delivery of the products. You may also have other rights which vary from jurisdiction to jurisdiction.

7. **Exclusive Warranty** This warranty is the only warranty provided by Westeel and all other warranties and/or commitments whether express or implied and no matter by whom made, statutory or otherwise, are subsumed and replaced by it and are of no legal effect. If any provision of the warranty is held by a court of competent jurisdiction to be void or unenforceable, in whole or in part, such provision shall be deemed severable and will not affect or impair the legal validity of any other provision of the warranty.

Note: An extended warranty may be available for purchase in respect of certain of the goods (the “Guardian Warranty and Environmental Protection Program”). The terms of the Guardian Warranty and Environmental Protection Program apply only if and when it is purchased. Please contact a Westeel representative should you wish further information on terms and pricing of the Guardian Warranty and Environmental Protection Program.

**DISCLAIMERS**

**EXTERNAL CORROSION**

The warranty does not apply if:

I. Foreign materials have contacted painted surfaces or stainless-steel surfaces causing damage and/or allowing for corrosion and/or rust.

II. The goods have been primed and/or painted by someone other than Westeel.

III. Threaded material has been scraped or scratched in a manner causing damage and/or allowing for corrosion and/or rust (e.g. pipe caps or pumps).

**INTERNAL CORROSION**

The warranty does not apply if:

I. The goods are not used solely for the containment of petroleum products unless otherwise stated in writing and signed off by an authorized representative of Westeel.

II. All maintenance procedures are not strictly followed. This includes but is not limited to a regular inspection for internal moisture and debris, dents, punctures, leaks, and loose or damaged fittings a minimum of once every twelve (12) months.
GENERAL

The following disclaimers apply to the goods in all circumstances:

I. The goods must be installed by a certified installer recognized by local authorities, where applicable, and strictly in accordance with Westeel’s Installation Instructions as well as all applicable installation and building codes and accepted trade practices. Without limiting the generality of the foregoing, proper foundation assembly, installation and use solely for the purposes intended as specified in Westeel’s published product literature is essential. As well, tank venting for both normal and emergency situations must be installed properly and kept unobstructed always.

II. The goods must be handled always (including but not limited to shipping, loading and unloading, positioning) only when empty and must be secured always in a manner as specified in the Owners’ Manual. Any damage caused during handling is not covered by the warranty.

III. Any damage caused by foreign debris entering into the tanks, including but not limited to moisture, is not covered by the warranty. It is extremely important for the owner/user to check for foreign debris inside the tank at the time of delivery as well as before commencing use of the goods and regularly during use of the goods. Moisture can cause irreparable damage to the goods including but not limited to a leak due to microbial corrosion. For further information on moisture monitoring and removal you may contact:
   - Steel Tank Institute (STI)
   - Westeel website
   - Petroleum Equipment Institute

IV. Accessories and parts on the goods may not have been manufactured by Westeel (“third party manufactured goods”). Third party manufactured goods are not covered by the warranty. Warranty terms applicable to third-party manufactured goods are as per the terms published by the applicable manufacturer. For further information on accessing the website of the applicable manufacturer please contact a Westeel representative.

V. Modifications made to the goods that have not been approved in writing by an authorized representative of Westeel will result in the warranty being null and void. This will be the case for any and all damages howsoever caused to the goods at any time after the modification has been made.

VI. The goods must be maintained and used at all times in a manner consistent with all Westeel procedures contained in the Owners’ Manual as well as prudent, accepted practice.
KNOW YOUR TANK

1. SINGLE ACCESS STEP
2. AUTO NOZZLE DISPENSER
3. PUMP METER
4. HOSE RETRACTOR WITH MAST
5. PUMP
6. NORMAL VENT
7. VENT STACK
8. LIFT LUGS
9. PRIMARY EMERGENCY VENT
10. MECHANICAL GAUGE
11. SECONDARY LEAK INSPECTION PORT
12. FILL PORT
13. SECONDARY EMERGENCY VENT
14. HD SKID w/BOLLARDS & FORK LIFT POCKET

NOTE: LAYOUT OF FITTINGS AND ACCESSORIES WILL VARY FROM MODEL TO MODEL

TANK SERIAL NUMBER

TANK SERIAL NUMBER IS LOCATED AT 3 DIFFERENT LOCATIONS.
1. ULC NAMEPLATE
2. SERIAL NUMBER DECAL
3. PERMANENTLY INSCRIBED ON A LOCK LUG (LOCATED ON ONE OF THE TOP FITTING)
4. ALTERNATIVELY, BIGGER TANKS (15-25KL) HAVE SERIAL NUMBER INSCRIBED TO THE SADDLE.

NOTE: FOR ANY WARRANTY CLAIMS, A PICTURE OF THE ULC NAMEPLATE ALONG WITH THE SERIAL NUMBER OF THE TANK MUST BE PROVIDED.

TANK & FUEL COMPATIBILITY

All steel tanks are compatible with all blends of fuels meeting ASTM standards. Ethanol blends from E10 to E100 and blends of biodiesel from B2 to B100 can be stored in steel tanks. Methanol blends to 100% (neat) are also compatible with steel. Recent work has been performed to assess the viability of fuel blends using isobutanol. As part of the research, it was necessary to test the compatibility of isobutanol with infrastructure materials. The results show that fuel blended with concentrations up to and including 24% isobutanol is compatible with steel.

The tank purchaser must rely on the expertise of their own consultants when determining the suitability of a ULC storage tank for products other than refined petroleum.
## TANK MATERIAL

<table>
<thead>
<tr>
<th>Model</th>
<th>Primary Shell</th>
<th>Secondary Shell</th>
<th>Thickness Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFV50</td>
<td>12 GA</td>
<td>12 GA</td>
<td>12 GA: 2.46mm (MIN) to 2.85mm (MAX)</td>
</tr>
<tr>
<td>HFV100</td>
<td>12 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>HFV300</td>
<td>12 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>HFV500</td>
<td>12 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>HFV1000</td>
<td>12 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>HFV8500</td>
<td>10 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>HFV11000</td>
<td>10 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>HFV15000</td>
<td>3/16”</td>
<td>10 GA</td>
<td>10GA: 3.20mm (MIN) to 3.61mm (MAX)</td>
</tr>
<tr>
<td>HFV25000</td>
<td>3/16”</td>
<td>10 GA</td>
<td></td>
</tr>
<tr>
<td>VFV2500</td>
<td>12 GA (SHELL), 12 GA (SHELL), 10 GA (ROOF &amp; FLOOR), 10 GA (FLOOR)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VFV5000</td>
<td>10 GA (SHELL &amp; ROOF), 3/16” (FLOOR)</td>
<td>10 GA (SHELL), 3/16” (FLOOR)</td>
<td></td>
</tr>
<tr>
<td>RFV 1100</td>
<td>12 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>RFV 2400</td>
<td>12 GA</td>
<td>12 GA</td>
<td></td>
</tr>
<tr>
<td>RFV 5000</td>
<td>10 GA</td>
<td>10 GA</td>
<td></td>
</tr>
</tbody>
</table>

**Table 1**

**Steel Specification:**
- All gauge sheet: ASTM A1011 Commercial Quality
- All plates: G40.21.44W

**Pipe Specification:** ASTM A53 Grade B Schedule 40
**Flange Specification:** ASTM A105 #150
**Threaded Fitting Specification:** ASTM A105 (3000#) or ASTM A865 (150#)

**DESIGN TEMPERATURE:**

The tank is designed to operate in Canadian Outdoor Temperatures.

**NOTE:** At elevated temperatures, increased risk of corrosion or flammability may occur. Westeel recommends consulting with a materials / Fire Code expert for these applications. The tank purchaser must rely on the expertise of their own consultants when determining the suitability of a ULC storage tank for conditions other than ambient.
CORROSION ALLOWANCE:

ULC design contains a suitable corrosion allowance but it is not a calculated quantity, it is included in the design formula.

TANK PAINT:

All non-galvanized parts are coated to one of the two Westeel standards. WCS-2 is a liquid coating, WCS-PC1,2 is for powder coat. Westeel reserves the right to choose between these two standards.

Paint Standard summary:

WCS-2 (Liquid):
1. Cleaned for all contamination
2. Surface Blast to SSPC SP-6 commercial Grade (NACE 3)
3. Apply D.T.M. Two Component Acrylic Urethane White (Gloss) paint
   a. 3.0-5.0 Total DFT

WCS-PC1,2 (Powder):
1. All Exterior Surface is washed and cleaned (PC1)
2. Phosphate etch steel and rinse clean and forced air dry (PC1)
3. Surface Blast to SSPC SP-6 commercial Grade (NACE 3) (PC2)
4. Apply 2-8 mil DFT of Westeel White Powder Paint
5. Baked in an oven for cure

NOTE: WESTEEL HAS RIGHT TO CHOOSE PAINT COAT.

NOTE: CONTACT YOUR WESTEEL REPRESENTATIVE TO FIND OUT WHICH PAINT COAT WAS APPLIED TO YOUR TANK.
LIST OF CAUTION/WARNING DECALS

- ULC nameplate
- Tank Serial Number Decal
- No smoking/No open flame Decal
- Don’t Forget… Decal
- Consult With…Decal

SHORTAGES, DAMAGED PARTS, AND OPTIONAL EQUIPMENT

1. Report damaged parts or shortages immediately to the delivering carrier followed by a confirming letter requesting an inspection by the carrier if required.

2. Order necessary replacement parts immediately to ensure that installation will not be held up by missing parts. All parts will be charged for and credit will be issued by the party at fault. **No credit will be issued if the freight bills are signed as received in good condition.**

3. Optional equipment such as stairs, ladders, skid extensions, pump mounts, fill limiters, anti-siphon devices, high-level alarms, or level gauges should be ordered with the tank and, if not supplied by Westeel, must be checked for compatibility with this product.
HANDLING AND STORING

HANDLING

IMPORTANT: Do NOT (under no circumstantial) the tank be handle or move with product inside.
Lift lugs are for lifting EMPTY WEIGHT only. The tank is intended for stationary use. Not to be transported with liquid.

1. Industry best practice must be deployed to ensure that the appropriate material handling equipment and methods are used to prevent damage during offloading and moving the tank and its accessories.

2. Equipment used for the handling and movement of materials shall be suited for the task and capable of handling the load requirements.

3. Equipment operators shall be qualified & meet regulatory requirements to operate the equipment used for the handling of material.

4. Equipment Operators shall also be trained in the safe and correct methods used for the handling and moving of the materials.

5. Tanks shall be carefully handled to prevent damage to the tank coating. The use of nylon straps is preferred to prevent damage to the tank coating. When using cables or chains, they shall be padded, and of adequate length and size

   **NOTE:** It is the responsibility of the owner or owner’s representative to touch-up and repairs any damage to the coating that occurs during transportation, tank installation or piping installation.

6. Handling jigs or attachments such as spreader-bars, cradles, flipping brackets shall be used where appropriate.

7. Where possible materials that can be moved in crates or strapped on pallets shall be handled in that fashion.

8. Materials shall be secured to pallets by banding or strapping when possible. The banding used shall be appropriate for the material being handled.

9. Materials that cannot be moved in crates or on pallets shall be secured when possible during moving to ensure they will not be damaged or cause a safety concern during movement.
STORING

1. If units are to be stored outside in the elements, all opening must be sealed/covered in a way no water or moisture can get into the tank.

2. The unit should be reasonably protected from any accidental impacts.

3. Material shall be stored minimum distance of 2 feet from fence lines.

4. Materials that are subject to rolling or tipping shall be blocked with suitable blocking to prevent movement of the materials.

5. On a monthly interval, the inside of the tank must be checked to ensure no water or moisture has accumulated.

6. Remedial action must be taken immediately to remove any water found inside the tank.

MAINTENANCE

A basic maintenance procedure must be developed with the following minimum requirements.

1. The monitoring port on the secondary containment should be checked periodically for the accumulation of liquid. If the liquid is detected, test for the presence of hydrocarbons. Refer to the STI Standard SP001, “Standard for the Inspection of Aboveground Storage Tanks” for requirements concerning tank inspections. This SP001 Standard details requirements for inspections based on the tank installation and age. A tank must undergo the appropriate inspection prior to relocation.

2. The primary tank shall be inspected monthly for the presence of water at the lowest possible points inside the primary tank. Remove any water found. Water and sediment in the fuel can cause plugging of filters. Also, bacterial growth, originating from the fuel, can cause corrosion of tanks and lines. For procedures on how to check for the presence of water and removal of water, refer to API Recommended Practice 1621 and API Standard 2610.

3. Visually inspect the tank periodically for any damage or degradation of the coating. Remedial action must be taken if any damage found.

   The frequency of this inspection must be based on the environmental factors in the geographic area where the tank is located.

4. If major degradation of the coating is observed, a repainting of the surface will be required. The operator is responsible for the selection of the paint, surface preparation, and coating application. Local codes may require that the tank is recertified and relabeled.

5. Visual inspection of the installation site must be done periodically to identify changes in the drainage system or movement in the surrounding foundation. Remedial action must be taken to reverse and prevent any future degradation.

**NOTE:** Failure to adhere to and provide proof of proper maintenance may void your warranty.
1. Check the tank for damage or shortages. If any serious damage or defects are evident, do not install the tank; contact WESTEEL immediately.

2. Care must be taken to prevent damage during handling. When lifting and moving the tank, use only, and all of, the lift lugs identified on the tank for this purpose. The lift cable or chain length must allow for a minimum angle of 60 degrees between a horizontal plane and the sling. Tanks designed for stationary applications should never be transported or lifted with product contained within.

3. Consult the authorities having jurisdiction before installation of the tank to ensure compliance with local requirements. Installation should be completed by a qualified contractor in a manner acceptable to the authorities having jurisdiction, as well as to any insurance underwriter involved. The installer is responsible for obtaining and completing the necessary permits and certificates and shall ensure that all Federal, Provincial and Local codes are being met prior to installation.

4. The tank must be installed on a solid, level, non-combustible foundation designed to support the weight of the assembly plus the liquid loading. Any other loadings - such as snow, wind or earthquakes - must be considered. Hold-down devices may be necessary to meet seismic requirements in some locations and WESTEEL should be contacted for acceptable designs.

5. Electrical grounding and electrical equipment installation must comply with the requirements of the electrical authority having jurisdiction.

6. If the tank is shipped with a vent pipe, or if a tank opening is marked “Normal vent”, a vent pipe and updraft / weatherproof vent cap must be installed. Normal vent caps must not allow flame impingement onto the surface of the tank in the event of vapor ignition. Additional normal venting is required on some tanks. For example, tanks using combination fill / vent caps may require additional venting if using a pump with a capacity greater than 75 LPM. Contact your local WESTEEL dealer for more information.

7. Most tanks require emergency venting. If an opening is marked “Emergency vent” and none is installed, purchase the correct vent from your local WESTEEL dealer. Do not remove a factory-installed emergency vent or plug its opening. Ensure that the lifting cover movement is not restricted in any way after installation, including due to buildup of snow or ice on the top of the tank, as this could restrict venting and cause tank damage.

8. All unused fittings must have suitable product-resistant closures and be tested leak-tight by the installer. Any parts installed by WESTEEL should be checked for leak-tightness to ensure they did not loosen during shipping.

9. Inspect the tank on a regular basis for visible problems such as leaks, coating chips or scratches. For information or instructions on paint touch-up, contact WESTEEL. A certified service technician should regularly check for the presence of moisture in the bottom of the tank and remove if found. The life of a tank may be significantly reduced because of chloride contamination of the moisture or bacterial contamination of the fuel. The addition of bactericides at time of fuel delivery, or the use of moisture removal products, may extend the life of the tank.

10. Contact your fuel delivery agent, visit www.westeel.com or www.pei.org, or consult “RECOMMENDED PRACTICE: OPERATION OF SHOP FABRICATED ABOVEGROUND PETROLEUM STORAGE TANK SYSTEMS” by the Canadian Petroleum Products Institute for more information on recommended maintenance procedures or products.
TANK OPERATING INSTRUCTIONS

These Westeel Tanks are designed for:

Holding flammable and combustible liquid products of relative density not greater than 1.0. *These products must be compatible with steel.*

**NOTE:** Flammable and Combustible are as defined in the National Fire Code of Canada. The use of these tanks for products other than refined petroleum is at the discretion of the tank the purchaser or their own expert consultants.

OPERATING CONDITIONS

*Maximum tank operating pressure: 7 kPa*
*Maximum operating vacuum: 0.3 kPa*

**NOTE:** Max. Head pressure (overfill condition at bottom of the tank) per CSA B139 10.5.1.3 or NFCC 4.3.12.3: 70 kPa (Max. Vent height above the bottom of the tank must be less than 7m [23’])

This applies to horizontal cylindrical or rectangular tank designs that are installed in a manner that would allow an accidental overfill of the normal vent pipe. This is not to be considered as a condition.

**NOTE:** ULC tanks must be operated with a minimum 5% vapor space at the top of the tank and are not intended to operate under flooded conditions.

VENTING

Max. tank emergency venting pressure for:
Horizontal Cylindrical & Rectangular: 35 kPa,
Vertical Cylindrical: 9 kPa

**NOTE:** For emergency venting capacity and maximum test pressures, see Table 2 below.

**HORIZONTAL CYLINDRICAL TANKS**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>CAPACITY (Liters)</th>
<th>REQUIRED VENTING CAPACITY m^3/min</th>
<th>MAX. TEST PRESSURE (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFV50</td>
<td>260</td>
<td>34</td>
<td>35</td>
</tr>
<tr>
<td>HFV100</td>
<td>495</td>
<td>34</td>
<td>35</td>
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<td>HFV300</td>
<td>1295</td>
<td>34</td>
<td>35</td>
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<tr>
<td>HFV500</td>
<td>2250</td>
<td>48</td>
<td>35</td>
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<tr>
<td>HFV1000</td>
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<td>35</td>
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<tr>
<td>HFV11000</td>
<td>11 000</td>
<td>128</td>
<td>35</td>
</tr>
<tr>
<td>HFV15000</td>
<td>14 860</td>
<td>128</td>
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<tr>
<td>HFV25000</td>
<td>24 375</td>
<td>155</td>
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</tbody>
</table>

**Table 2A**

**VERTICAL CYLINDRICAL TANKS**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>CAPACITY (Liters)</th>
<th>REQUIRED VENTING CAPACITY m^3/min</th>
<th>MAX. TEST PRESSURE (kPa)</th>
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</thead>
<tbody>
<tr>
<td>VFV2500</td>
<td>2400</td>
<td>57</td>
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<tr>
<td>VFV5000</td>
<td>5000</td>
<td>90</td>
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</table>

**Table 2B**
### Table 2C

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>CAPACITY (Liters)</th>
<th>REQUIRED VENTING CAPACITY m^3/min</th>
<th>MAX. TEST PRESSURE (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFV 1100</td>
<td>1135</td>
<td>34</td>
<td>35</td>
</tr>
<tr>
<td>RFV 2400</td>
<td>2400</td>
<td>48</td>
<td>35</td>
</tr>
<tr>
<td>RFV 5000</td>
<td>5000</td>
<td>125</td>
<td>20</td>
</tr>
</tbody>
</table>

**TANK GROUNDING:**

Standard Westeel tanks include at least 1 carbon steel grounding lug or attachment point. Ground lugs have a minimum 3/8" hole. If no ground lug is shown on the drawing, a 3/8 hole can be drilled on a suitable location on the tank saddle (on horizontal tanks) without structural integrity concerns or another tank ladder or pipe support lug can be used for grounding purposes.

Requirements and installation details for grounding is outside the scope of ULC standards and the tank user or installer should refer to electrical codes governing the installation of electrical equipment attached to the tank. Use of a dielectric sealant (not provided by Westeel) is recommended to maintain electrical continuity of the ground wire connection to the tank and stud or bolt shown below.

![Typical Ground Detail](image)

**TANK LIFT LUGS:**

Care must be taken to prevent damage during handling. When lifting and moving the tank, use only, and all of, the lift lugs identified on the tank for this purpose. The lift cable or chain length must be allow for a minimum angle of 60 degree between a horizontal plane and the sling. Tanks designed for stationary applications should never be transported or lifted with product contained within.

**NOTE: LIFT LUGS ARE NOT CERTIFIED TO LIFT THE TANK CONTAINING PRODUCTS.**

![Lift Lug Decal](image)
**TANK INSTALLATION**

**IMPORTANT NOTE:**
Proper installation of each tank is essential:

- To ensure the safety of all the individuals involved in the installation.
- To prevent tank damage and/or failure, which could lead to product loss and environmental contamination.
- To validate the tank warranty.

In addition to these instructions, the installation must comply with all applicable Federal, Local or Provincial, construction, safety, and environmental codes and regulations.

1. Chose a firm, level, well-drained site. Drainage is important to ensure soil stability and reduce the risk of tank corrosion.
2. The foundation for the tank must be designed to support the total tank weight plus 100% of the weight of the maximum amount of product the tank will be storing. The foundation must include provisions in its design to prevent tank movement.
3. Care should be taken when placing a tank close to buildings to ensure that snow does not build up on the tank. The buildup of snow and ice may also cause failure of the tank emergency and normal vents.
4. The tank must be located with clearance from buildings and property lines in accordance with all applicable fire and environmental codes (national and local). Check with the local authority having jurisdiction to confirm the required clearance.
5. This tank must be installed in accordance with all applicable federal, state and local environmental regulations and safety codes.
6. Tanks located in areas subject to flooding must be protected against flotation. Tanks subject to overturning from seismic or wind forces must be anchored to concrete foundations. Many building codes do not allow the use of friction to resist seismic forces.
7. The tank shall be protected and secured from vandalism. The tank shall also be protected from accidental damage, such as from vehicular impacts, in accordance with all applicable codes.