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General Conditions

- Review installation procedures and coordinate the installation with other construction activities, such as grading, excavation, utilities, construction access, erosion control, etc.
- Engineered Drawings supersede all provided documentation, as the information furnished in this document is based on a typical installation.
- When installed based on Brentwood’s Site Preparation and Installation Instructions or similar, a StormTank® system can support an HS-25 load.
- Coordinate the installation with manufacturer’s representative/distributor to be on-site to review start up procedures and installation instructions.
- Components shall be unloaded, handled and stored in an area protected from traffic and in a manner to prevent damage.
- Assembled modules may be walked on, but vehicular traffic is prohibited until backfilled per Manufacturer’s requirements. Protect the installation against damage with highly visible construction tape, fencing, or other means until construction is complete.
- Ensure all construction occurs in accordance with Federal, State and Local Laws, Ordinances, Regulations and Safety Requirements.
- Extra care and caution should be taken when temperatures are at or below 40° F (4.4° C).

Revision Date: 3/24/14
1.0 StormTank® Assembly

StormTank® Modules:

StormTank® modules are delivered to the site as palletized components requiring simple assembly. No special equipment, tools or bonding agents are required; only a rubber mallet. A single worker can typically assemble a module in two minutes.

General Notes:

- Remove packaging material and check for any damage. Report any damaged components to a StormTank® Distributor or Brentwood personnel.
- StormTank® components are backed by a one year warranty, when installed per manufacturer’s recommendations.

Step 1
Place a platen on a firm level surface and insert the eight (8) columns into the platen receiver cups. Firmly tap each column with a rubber mallet to ensure the column is seated.

Step 2
Place a second platen on a firm level surface. Flip the previously assembled components upside down onto the second platen, aligning the columns into the platen receiver cups.

Step 3
Once aligned, seat the top assembly by alternating taps, with a rubber mallet at each structural column until all columns are firmly seated.

Step 4
If side panels are required, firmly tap the top platen upward to raise the top platen. Insert the side panel into the bottom platen.

Step 5
Align the top of the side panel with the top platen and firmly seat the top platen utilizing a rubber mallet.

Completed Module
A complete module can support up to HS-25 Loading when installed per manufacturer’s recommendations.
2.0 Basin Excavation

1. Stake out and excavate to elevations per approved plans.

   Excavation Requirements:
   a. Sub-grade excavation must be a minimum of 6" (152 mm) below designed StormTank® Module invert.
   b. The excavation should extend a minimum of 12" (305 mm) beyond the StormTank® dimensions in each length and width (an additional 24" [610 mm] in total length and total width) to allow for adequate placement of side backfill material.
   c. Remove objectionable material encountered within the excavation, including protruding material from the walls.
   d. Furnish, install, monitor and maintain excavation support (e.g., shoring, bracing, trench boxes, etc.) as required by Federal, State and Local Laws, Ordinances, Regulations and Safety Requirements.

3.0 Sub-Grade Requirements

1. Sub-grade shall be unfrozen, level (plus or minus 1%), and free of lumps or debris with no standing water, mud or muck. Do not use materials nor mix with materials that are frozen and/or coated with ice or frost.

2. Unstable, unsuitable and/or compromised areas should be brought to the Engineer’s attention and mitigating efforts determined prior to compacting the sub-grade.

3. Sub-grade must be compacted to 95% Standard Proctor Density or as approved by the Engineer of Record. If code requirements restrict subgrade compaction, it is the requirement of the geotechnical Engineer to verify that the bearing capacity and settlement criteria for support of the system are met.

* The Engineer of Record shall reference Brentwood document Appendix A for minimum soil bearing capacity required based on Load Rating and top cover depth. Minimum soil bearing capacity is required so that settlements are less than 1” through the entire sub-grade and do not exceed long-term 1/2” differential settlement between any two adjacent units within the system. Sub-grade must be designed to ensure soil bearing capacity is maintained throughout all soil saturation levels.
4.0 Leveling Bed Installation

1. Install geotextile fabric and/or liner material, as specified.
   a. Geotextile fabric shall be placed per manufacturer’s recommendations.
   b. Additional material to be utilized for wrapping above the system must be protected from damage until use.

2. After the geotextile is secured, place a minimum 6” (152 mm) Leveling Bed.
   a. Material should be a 3/4” (19 mm) angular stone meeting Appendix B – Acceptable Fill Material.
   b. Material should be raked free of voids, lumps, debris, sharp objects and plate vibrated to a level with a maximum 1% slope.

3. Correct any unsatisfactory conditions.

   *Leveling Bed preparation is critical to proper installation and operation of the StormTank® system. DO NOT PROCEED UNTIL THE LEVELING BED IS PROPERLY PREPARED.*

5.0 StormTank® Module Placement

1. Install geotextile fabric and/or liner material, as specified.
   a. Geotextile fabric shall be placed per manufacturer’s recommendations.
   b. Additional material to be utilized for wrapping above the system must be protected from damage until use.

2. Mark the footprint of the modules for placement.
   a. Ensure module perimeter outline is square or similar prior to Module placement.
   b. Care should be taken to note any connections, ports or other irregular units to be placed.
5.0 StormTank® Module Placement (Continued)

3. Install the individual modules by hand, as detailed below.
   a. The modules should be installed as shown in the StormTank® submittal drawings with the short side of perimeter modules facing outward, except as otherwise required.
   b. Make sure the top/bottom platens are in alignment in all directions to within a maximum 1/4” (6.4 mm).
   c. For double stack configurations:
      i. Install the bottom module first. **DO NOT INTERMIX VARIOUS MODULE HEIGHTS ACROSS LAYERS.** Backfilling prior to proceeding to second layer is optional.
      ii. Insert stacking pins (2 per module) into the top platen of the bottom module.
      iii. Place the upper module directly on top of the bottom module in the same direction, making sure to engage the pins.

4. Install the modules to completion, taking care to avoid damage to the geotextile and/or liner material.

5. Locate any ports or other penetration of the StormTank®.
   a. Install ports/penetrations in accordance with the approved submittals, contract documents and manufacturer’s recommendations.

6. Upon completion of module installation, wrap the modules in geotextile fabric and/or liner.
   a. Geotextile fabric shall be wrapped and secured per manufacturer’s recommendations.
   b. Seal any ports/penetrations per Manufacturer’s requirements

Notes:

- **If damage occurs to the geotextile fabric or impermeable liner, repair the material in accordance with the geotextile/liner Manufacturer’s recommendations.**
6.0 Side Backfill

1. Inspect all geotextile, ensuring that no voids or damage exists; which will allow sediment into the StormTank® system.

2. Adjust the stone/soil interface geotextile along the side of the native soil to ensure the geotextile is taught to the native soil.

3. Once the geotextile is secured, begin to place the Side Backfill.
   a. Material should be a 3/4” (19 mm) angular stone meeting Appendix B – Acceptable Fill Material.
   b. Backfill sides “evenly” around the perimeter without exceeding single 12” (305 mm) lifts.
   c. Place material utilizing an excavator, dozer or conveyor boom.
   d. Utilize a plate vibrator to settle the stone and provide a uniform distribution.

*Complete the Side Backfill evenly to the top of the StormTank® Modules prior to proceeding to the next step (Top Backfill).*

**Notes:**
- Do not apply vehicular load to the modules during placement of side backfill. All material placement should occur with equipment located on the native soil surrounding the system.
- If damage occurs to the geotextile fabric or impermeable liner, repair the material in accordance with the geotextile/liner Manufacturer’s recommendations.
7.0 Top Backfill (Stone)

1. Begin to place the Top Backfill.
   a. Material should be a 3/4” (19 mm) angular stone meeting Appendix B – Acceptable Fill Material.
   b. Place material utilizing an excavator, dozer or conveyor boom (Appendix C – Material Placement) and use a walk-behind plate vibrator to settle the stone and provide an even distribution.

   **DO NOT DRIVE ON THE MODULES WITHOUT A MINIMUM 12” (305 mm) COVER.**

2. Upon completion of Top Backfilling, wrap the system in geotextile fabric and/or liner per manufacturer’s recommendations.

3. Install metallic tape around the perimeter of the system to mark the area for future utility detection.

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**Driving on the Modules and stone backfill with equipment heavier than a low ground pressure, track type equipment (Max. gross operating load of 6,000 lbs. [2,721 kg] or less) is prohibited until a full 24” (610 mm) of material has been placed.**

---

**Notes:**

- If damage occurs to the geotextile fabric or impermeable liner, repair the material in accordance with the geotextile/liner Manufacturer’s recommendations.
8.0 Suitable Compactable Fill

Following Top Backfill placement and geotextile fabric wrapping; complete the installation as noted below.

Vegetated Area

1. Place fill onto the geotextile.
   a. Maximum 12” (305 mm) lifts, compacted with a vibratory plate or walk behind roller to a minimum of 90% Standard Proctor Density.
   b. The minimum top cover to finished grade should not be less than 24” (610 mm) and the maximum depth from final grade to the bottom of the lowest module should not exceed 11’ (3.35 m).

2. Finish to the surface and complete with vegetative cover.

Impervious Area

1. Place fill onto the geotextile.
   a. Maximum 12” (305 mm) lifts compacted with a vibratory plate or walk behind roller to a minimum 90% Standard Proctor Density or to meet the Engineer of Record’s specification.
   b. Sub-base materials should be referenced by the approved Engineering Drawings.
   c. The minimum top cover to finished grade should not be less than 24” (610 mm) and the maximum depth from final grade to the bottom of the lowest module should not exceed 11’ (3.35 m).

2. Finish to the surface and complete with asphalt, concrete, etc.

Notes:

- A vibratory roller may only be utilized after a minimum 24” (610 mm) of compacted material has been installed or for the installation of the asphalt wearing course.
- If damage occurs to the geotextile fabric, repair the material in accordance with the geotextile Manufacturer’s recommendations.
### Appendix A - Bearing Capacity Tables

<table>
<thead>
<tr>
<th>Cover English (in.)</th>
<th>Metric (mm)</th>
<th>English Metric (ksf) (kPa)</th>
<th>English Metric (ksf) (kPa)</th>
<th>English Metric (ksf) (kPa)</th>
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**Notes:**

1. Additional load ratings and associated bearing capacities may be applicable on a case by case basis. Please contact your local Brentwood Representative.
# Appendix B - Acceptable Fill Materials

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<tr>
<th>Material Location</th>
<th>Description</th>
<th>AASHTO M43 Designation</th>
<th>ASTM D2321 Class</th>
<th>Compaction/Density</th>
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<tr>
<td>Finished Surface</td>
<td>Topsoil, hardscape, stone, concrete or asphalt per engineer of record.</td>
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<td>N/A</td>
<td>Prepare per engineered plans.</td>
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<tr>
<td>Suitable Compactable Fill</td>
<td>Granular well graded soil/aggregate, typically road base or earthen fill, maximum 4” particle size.</td>
<td>56, 57, 6, 67, 68</td>
<td>I &amp; II</td>
<td>Place in max. 12” lifts to a min. 90% standard proctor density.</td>
</tr>
<tr>
<td>Top Backfill</td>
<td>Crushed angular stone placed between modules and road base or earthen fill.</td>
<td>56, 57, 6, 67, 68</td>
<td>I &amp; II</td>
<td>Plate compacted to provide evenly distributed layers.</td>
</tr>
<tr>
<td>Side Backfill</td>
<td>Crushed angular stone placed between earthen wall and modules.</td>
<td>56, 57, 6, 67, 68</td>
<td>I &amp; II</td>
<td>Place in uniform 12” lifts around the system</td>
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<tr>
<td>Leveling Bed</td>
<td>Crushed angular stone placed to provide level surface for installation of modules.</td>
<td>56, 57, 6, 67, 68</td>
<td>I &amp; II</td>
<td>Plate vibrated to achieve level surface.</td>
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* See Appendix C - Material Placement for limitations

---

**Notes:**

2. All stone must be angular stone meeting ASTM D2321. Recycled concrete may be utilized when meeting acceptable gradation and ASTM standards.

3. The sub-grade is to be prepared to meet bearing and compaction requirements. Please see engineer of record’s design.

4. Storage of materials such as construction materials, equipment, soils, etc. over the StormTank® system is strictly prohibited.

5. Please contact a Geotechnical Engineer and the Brentwood representative prior to utilization of any material not listed above.
## Appendix C - Material Placement Guidelines

<table>
<thead>
<tr>
<th>Material Location</th>
<th>Placement Methods</th>
<th>Tired Equipment Limitations</th>
<th>Tracked Equipment Limitations</th>
<th>Roller Limitations</th>
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<td>Finished Surface</td>
<td>Numerous methods may be utilized. Material dumping onto system should be limited unless otherwise noted.</td>
<td>Asphalt can be dumped into pavers.</td>
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<td>Vibratory rollers may only be utilized if compacted cover exceeds 24” (610 mm) or for pavement installation.</td>
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<td>Suitable Compactable Fill</td>
<td>Utilize an excavator, skid loader or dozer to place material. (Max. gross operating load of 6,000 lbs. [2,721 kg] or less).</td>
<td>No DUMPING by dump trucks. No wheel loads until approved by Engineer of Record.</td>
<td>SMALL DOZERS ONLY (Max. gross operating load of 6,000 lbs. [2,721 kg] or less).</td>
<td>Static rollers ONLY are permitted until compacted cover exceeds 24” (610 mm).</td>
</tr>
<tr>
<td>Top Backfill</td>
<td>Utilize excavator bucket or stone conveyor, positioned off of system, to uniformly backfill on top of the modules. No DUMPING directly onto modules by dump trucks.</td>
<td>No DUMPING by dump trucks. No wheel loads until approved by Engineer of Record.</td>
<td>Utilize an excavator or skid loader (Max. gross operating load of 6,000 lbs. [2,721 kg] once a min. 12” (305 mm) has been placed and compacted.</td>
<td>No rollers allowed at this time.</td>
</tr>
<tr>
<td>Side Backfill</td>
<td>Utilize excavator bucket or stone conveyor, positioned off of system, to uniformly backfill around modules. Stone to be placed in max. 12” (305 mm) lifts until stone reaches top of modules.</td>
<td>No equipment is permitted on the modules during the side backfilling process.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leveling Bed</td>
<td>No limitations</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

1. Storage of materials such as construction materials, equipment, soils, etc. over the StormTank® system is strictly **prohibited**.
2. Please contact a Brentwood representative/distributor prior to utilization of any equipment not listed above.
3. During paving operations it may be necessary to utilize dump operations for paving equipment. Additional precautions should be utilized to limit the dump distance and prevent rutting of the road base.
4. It is recommended that all backfilling operations be completed with low ground pressure vehicles such as mini excavators, skid steers, etc. **All equipment is to access system by a level approach to the system.**
Appendix D - Standard Limited Warranty

Brentwood Stormwater StormTank® Module Product

One (1) Year Limited Express Warranty

WARRANTY ("Warranty"): Unless agreed otherwise, in writing, between Brentwood Industries, Inc. ("Brentwood") and Purchaser, Brentwood warrants its Stormwater StormTank Module Product against defects in materials and workmanship that affect the performance for which it was intended upon meeting the subsequent terms and conditions. This Warranty applies solely to the StormTank Module Product (including the platens, columns, and side panels, and hereinafter collectively referred to as the "Product"). Warranty coverage is contingent upon proper installation, in strict accordance with Brentwood’s written installation instructions, proper Product Warranty registration upon completion of installation (form to be returned to Brentwood is included in installation instructions), and compliance with all applicable local, state and federal codes/regulations. This Warranty is further contingent upon proper use and maintenance under ordinary conditions, consistent with the approved design criteria and good industry standards, as well as compliance with Brentwood’s Warranty claim procedure. The Warranty period shall be limited to twelve (12) months from the Product purchase date. The terms of this Warranty shall be modified only through written agreement by an authorized Brentwood employee. This Warranty applies to the Purchaser of the Product and is non-transferable.

REMEDY AND EXCLUSIONS: The sole remedy for a covered defect during the Warranty period shall be limited to Product replacement, including shipping costs, or refund of the original purchase price. The remedy excludes costs of labor, removal of non-conforming Product, and expenses related to de-installation and re-installation of the Product. In no event will Brentwood be obligated to pay costs, damages or other amounts, in total, exceeding the original price paid to Brentwood for the Product to Purchaser or any third party. Additionally, Brentwood shall not warrant Product nor be liable to Purchaser or any third party for any Product liability claims or damages caused by non-compliance with any of the foregoing conditions or, without limitation, any of the following:

i) Alteration, accident, abuse, misuse or neglect;
ii) Acts of god or otherwise outside the control of Brentwood;
iii) Normal wear and tear;
iv) Abnormal contaminants detrimental to the Product or damage due to pollutants, solvents or hazardous substances;
v) Improper handling during installation, improper installation, and improper or unintended use;
vi) Subjecting Product to vehicle traffic, adjacent excavation and any other conditions excluded by Brentwood’s specifications and written installation instructions;
vii) Failure to maintain the minimum ground covers set forth in the installation instructions;
viii) Placement of improper materials into or onto the Product;
ix) Failure due to improper siting or sizing; and
x) Damage during shipping.

THE TERMS OF THIS WARRANTY ARE THE SOLE AND EXCLUSIVE OBLIGATION OF BRENWOOD TO PURCHASER. UNDER NO CIRCUMSTANCE SHALL BRENWOOD BE LIABLE TO ANY PERSON OR ENTITY FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES OR ANY OTHER LOSS, COST OR EXPENSE OTHER THAN SPECIFICALLY STATED IN THIS WARRANTY. OTHER THAN THE EXPRESS LIMITED WARRANTIES MADE HEREIN, BRENWOOD EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED BY LAW, WITH RESPECT TO ANY SERVICE OR DELIVERABLE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AS WELL AS ANY WARRANTIES WHICH MAY ARISE FROM PRIOR COURSE OF DEALING, CUSTOM, TRADE USAGE, PROVISION OF SAMPLES, PRODUCT LITERATURE OR WEBSITE CONTENT.

CLAIM PROCEDURE:

1) Notification: Warranty claims must be submitted to Brentwood within fifteen (15) days of discovering the defective material and must be accompanied by a copy of the already-filed Product Warranty Registration and proof of purchase, a detailed explanation of the claim and alleged defect/damages, any relevant work logs/repair orders, and pictorial documentation of the defect. Brentwood reserves the right to investigate all claims and request additional information. Claims shall be emailed to stormtank@brentwoodindustries.com or mailed to: Brentwood Industries, Inc., Attn: Stormwater Warranty Claims, 610 Morgantown Road, Reading, PA 19611.

2) Dispute Resolution: Brentwood shall, in its sole opinion, have the authority to judge the existence and extent of any alleged defect. In the event Brentwood denies a Warranty claim, the claimant has ten (10) days to supply additional data in support of its claim. If a second denial is made by Brentwood, or a resolution cannot otherwise be reached amongst the parties, both Brentwood and Purchaser agree upon and preserve the right to pursue impartial mediation/arbitration under the Pennsylvania Uniform Arbitration Act, Pa. Stat. §7301-7320, subchapter A, as the means of dispute resolution. Mediation/arbitration shall take place in Reading, Berks County, in the Commonwealth of Pennsylvania. Costs of mediation/arbitration (excluding attorneys’ fees and travel/individual related expenses which shall be borne by the party incurring the costs/expenses) shall be divided equally between Brentwood and Purchaser.

COMPLETE AGREEMENT: This Warranty incorporates and shall be interpreted along with Brentwood’s Standard Terms and Conditions, in their entirety; however, in the event of conflict between the two, the terms of this Warranty shall supersede the Standard Terms and Conditions. Brentwood reserves the right to modify or discontinue offering this Warranty at any time.
Appendix E - StormTank® Module Project Registration

Please complete and mail / email to the addressee at the bottom within 30 days of installation of the product.

**Owner’s Information:**
Name: ____________________________________________
Address: ____________________________________________
City: ___________________________ State: ___________________________ Zip Code: ________________
Phone: ___________________________ Email: ____________________________________________

**Installation Contractor Information:**
Name: ____________________________________________
Address: ____________________________________________
City: ___________________________ State: ___________________________ Zip Code: ________________
Phone: ___________________________ Email: ____________________________________________

**Project Information:**
Name: ____________________________________________ Installation Date: ____________________________
Location: ____________________________________________
City: ___________________________ State: ___________________________ Zip Code: ________________
Storage Capacity: ____________________________ ft³ ________________ m³
Engineer of Record: ____________________________ Distributor / Supplier: ____________________________

**Product Information:**
Application (Select One):
- [ ] Detention
- [ ] Infiltration
- [ ] Capture / Reuse
- [ ] Other:

Module Height (Select Applicable):
- [ ] 18” (457.2 mm)
- [ ] 24” (609.6 mm)
- [ ] 30” (762.0 mm)
- [ ] 33” (838.2 mm)
- [ ] 36” (914.4 mm)

Stacking (Select One):
- [ ] Single
- [ ] Double

Cover (Select One):
- [ ] Impervious
- [ ] Vegetated
- [ ] Pervious Hardscape

By completing and signing this document, the Owner, Engineer of Record and Contractor acknowledge they have reviewed the Brentwood Industries StormTank Module Site Preparation and Installation Instruction document. Additionally, the distributor hereby indicates that they have provided installation documentation and explanation relating to the product and this project.

Owner / Engineer of Record Signature: ____________________________ Date: ____________________________
Distributor Signature: ____________________________ Date: ____________________________

Revision Date: 3/24/14