**STORMVAULT BIOFILTRATION (SVBF)\**

**CONFIGURATION: UNDERGROUND VAULT (-UV)**

**MODEL: SVBF-UV 4X4**

**HYDRAULICS**

- **STORMVAULT QUALITY DESIGN FLOW (QSF):** XX.X-CFS
- **STORM DRAIN DESIGN CONVEYANCE FLOW:** XX.X-CFS
- **RETURN FREQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW:** XX-X-YRS

**TREATMENT**

<table>
<thead>
<tr>
<th>BIO SOLID FILTRATION MEDIA</th>
<th>PUBLIC DOMAIN BIO SOLID WETLAND</th>
<th>JENSEN'S BIORA™ ENSIZED **</th>
<th>BIO SOLID MEDIA, UNILATERAL TREATMENT FLOW RATE</th>
<th>HYDRAULIC SURFACE LOADNG RATE (HSLR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-IN-RING</td>
<td>105-IN-RING</td>
<td>0.1-GPM/FT²</td>
<td>2-GPM/FT²</td>
<td></td>
</tr>
<tr>
<td>MODE: SVBF-UV 4X4 PEAK TREATMENT FLOW RATE</td>
<td>0.004-CFS</td>
<td>0.017-CFS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.6-GPM</td>
<td>52-GPM</td>
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**JENSEN’S BIORA™ ENSIZED**

- **JENSEN BIORA™ ENSIZED STORMVAULT BIOFILTRATION**

1. **JENSEN’S BIORA™ ENSIZED**
   - 1.6-GPM
   - 32-GPM

**CONSTRUCTION & INSTALLATION NOTES**

1. **CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS INVOLVED PRIOR TO INSTALLATION.**
2. **THE CONNECTION BETWEEN THE INTERNAL DRAIN Fittings OF THE SVBF SHALL BE MADE USING PVC CONNECTORS CONFORMING TO ANSI C190.**
3. **ALL SCREW CONNECTORS MAY BE USED IN THE CONSTRUCTION OF BIORA™ ENSIZED STORMVAULT.**
4. **CONTRACTOR TO PROVIDE FIELD FLOW PER CUBIC FEET TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS PRIOR TO INSTALLATION.**
5. **THE CONNECTION BETWEEN THE STORM DRAIN LINE AND THE SVBF SHALL BE MADE USING A REINFORCED CONNECTOR CONFORMING TO ANSI C190.**
6. **CONTRACTOR TO PROVIDE ALL HARDWARE ACCORDING TO THE SITE DRAWINGS.**
7. **STORMVAULT BIOFILTRATION MAY BE DEPLOYED WITH UNFINISHED TOPS OF UVS TO BE LOCATED IN FIELD ALLOWING FOR CONSTRUCTION OF CONTINUOUS STREET SCAPERY AND LANDSCAPING FEATURES.**
8. **INLET PIPE CAN BE LOCATED ON ANY SIDE OF THE BOX AND THE SIZE MAY VARY PER DESIGN.**

**MATERIALS & DESIGN PARAMETERS**

1. **ALL DIMENSIONS ARE IN DECI METERS (M).**
2. **CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH Fc = 5,000 psi AT 28-DAYS.**
3. **THE FORTIS LAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE RV OF A HIGH SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM C1557.**
4. **VALVE SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C1578 & C889.**
5. **ALL Precast Concrete Components Manufactured in an Infra-Red Cured Plant.**
6. **BIOVAULT INTERNAL SURFACE TREATED WITH TREATED WATERPROOFING COATING AROUND ENTIRE UNDERDRAIN.**
7. **BIOVAULT UNDERDRAIN SHALL BE CLEAN & WASHED.**
8. **ALL PVC PIPE SHALL CONFORM TO ASTM D 3034 (SDR 35 PVC).**
9. **GEO-MATRIC FABRIC IS DEIGNED TO BE BELOW THE BOTTOM OF THE INFILTRATION STRUCTURE.**

**CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS.**

**JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.**

**STORMVAULT BIOFILTRATION SYSTEMS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.**