CRAFS®
CONTROL OUTLET SPECS

CRAFS CONTROL OUTLET UNIT COMPONENTS
• Vertical corrugated filter fabric
• Horizontal fabric with apron
• Vertical support post sleeves

STANDARD DIMENSIONS
• Width: 8' (distance between outside post sleeves on each end of unit)
• Height: 36” (from apron to top edge of filter fabric)

“Standard” dimensions represent typical project needs and can be modified if required.

FABRICS
Alternate fabrics can be substituted for the standard vertical filter fabric and horizontal apron as required.

A. VERTICAL CORRUGATED FILTER FABRIC
The vertical corrugated structure is made of a woven monofilament “filter fabric” that provides the primary retention and filtration functions of the system. The fabric’s pore size, porosity, and permeability is critical for providing adequate sediment retention, while resisting total clogging of its structure. Strength and UV stability are also critical to assure the integrity of the fabric structure.

B. HORIZONTAL FABRIC WITH APRON
The apron is joined to the vertical corrugated filter fabric and is made of heavy-weight nonwoven fabric across the entire base of the system. The mechanical connection between the two is critical in preventing the unfiltered passage of sediment under the system. It also provides dimensional stability and the linear toe-in of the structure.

The apron extends upstream from the vertical support sleeves of the system’s filter fabric to provide sufficient apron “toe-in” (per ASTM D6462 requirements, i.e., 6” vertical depth from ground surface to base of toe-in trench plus 6” horizontal at base of toe-in trench).

UPSTREAM - DOWNSTREAM VERTEXES
CRAFS corrugated structure has vertexes located at regular intervals along the upstream and the downstream edges of the system. The spacing between all vertexes is typically uniform. Variance in spacing between vertexes may be specified in certain applications.

VERTICAL SUPPORT POST SLEEVES
Vertical “support sleeves” are fabricated into the filter fabric component at each of the vertexes. These sleeves allow for the insertion of vertical support posts. Posts are driven into the ground until stable giving the entire structure in-place stability. Support posts should be metal “T” posts driven into the ground per the installation guidelines of ASTM D6482.

MECHANICAL CONNECTIONS
The vertical filter fabric and horizontal apron must be mechanically joined to assure system continuity and total retention and filtration of all sediment runoff. Vertical support sleeves are also fabricated with mechanical connections. All mechanical connections must have at least 80% of the fabric’s tensile strength as determined according to ASTM D4884 Standard Test Method for Strength of Sewn or Bonded Seams of Geotextiles.

CRAFS® FABRIC PROPERTY REQUIREMENTS
Fabric properties are for the standard CRAFS® components. The woven monofilament filter fabric is the vertical filter fabric while the nonwoven fabric apron is the horizontal system component.

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>UNITS</th>
<th>VALUE*: Woven Monofilament Filter Fabric</th>
<th>VALUE*: Needle-Punched Nonwoven Fabric Apron</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS</td>
<td>ASTM D4751</td>
<td>US Std Sieve</td>
<td>#30 (max)</td>
<td>#80 (nominal)</td>
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<tr>
<td>FLOW RATE</td>
<td>ASTM D4491</td>
<td>gpm/sf</td>
<td>75 (min)</td>
<td>90 (min)</td>
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<tr>
<td>GRAB TENSILE</td>
<td>ASTM D4632</td>
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<td></td>
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<tr>
<td>STRENGTH</td>
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<td>lbs</td>
<td>260 x 180 (min)</td>
<td>200 x 200 (min)</td>
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<tr>
<td>ELONGATION</td>
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<td>%</td>
<td>15 (nominal)</td>
<td>50</td>
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<tr>
<td>MULLEN BURST</td>
<td>ASTM D3786</td>
<td>psi</td>
<td>175 (min)</td>
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<tr>
<td>TRAPEZOID TEAR</td>
<td>ASTM D4533</td>
<td>lbs</td>
<td></td>
<td>80 (min)</td>
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<tr>
<td>UV RESISTANCE**</td>
<td>ASTM D4355</td>
<td>%</td>
<td>80</td>
<td>70</td>
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</tbody>
</table>

*Certifiable minimum or maximum | **Strength retained after 500 hour UV exposure

For more information, please contact us at 800-448-3636 or info@acfenv.com