JP Specialties, Inc. / Earth Shield® Waterstop

Tech Tips 006

The Anatomy of Hydrophobic Waterstop

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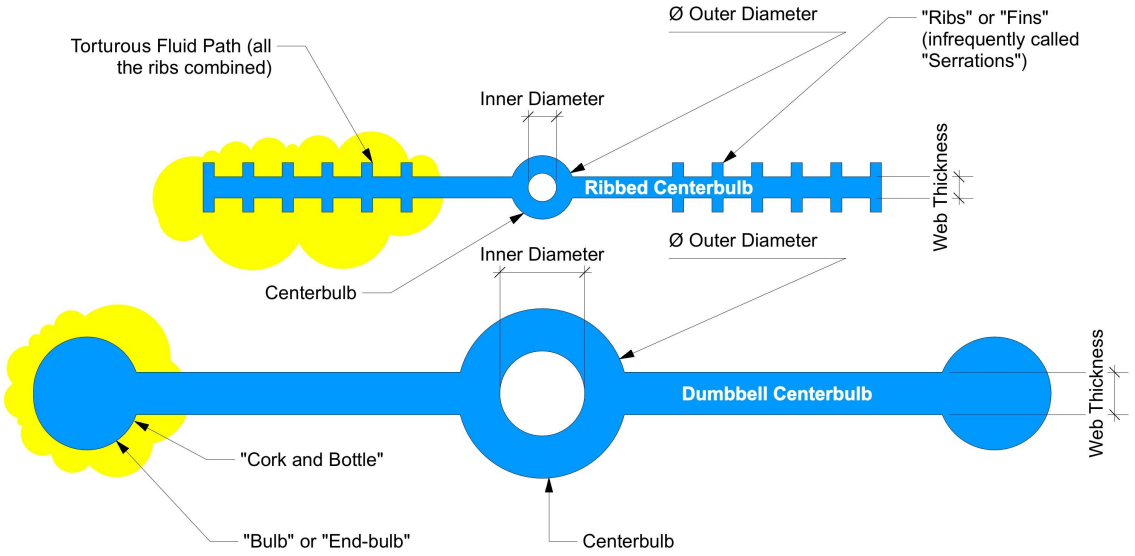

1. **Ribs (aka Fins or Serrations) create a "Torturous Fluid Path" by acting as multiple internal dams, making it more difficult for the fluid to migrate past.**

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2. **End-bulbs act as a single internal dam, sealing the joint using the "Cork and Bottle" theory: When the waterstop is placed under tension, the end-bulb is pulled tightly into the more narrow void of the web thickness, sealing the joint much like a cork in a wine bottle.**

3. **Generally, the wider and thicker a waterstop is, the greater the hydrostatic head pressure it can resist.**

4. **Because of their multiple ribs (or fins), ribbed waterstop offers greater joint protection and higher head pressure ratings than a similarly sized dumbbell waterstop.**

5. **Most engineering firms today specify ribbed waterstop profiles because of their greater capabilities. Notable exceptions are the United States Bureau of Reclamation and Army Corps of Engineers.**

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