



STINGRAY ENVIRONMENTAL
ENGINEERING
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Awarded Certifications & Third-Party Verifications

ASTM International (American Society for Testing and Materials)



ASTM F3430 and F2418 are product standards that define the material and structural requirements of stormwater chambers. ASTM F2787 is the design standard specifying the structural performance requirements for these chambers in accordance with AASHTO LRFD Section 12.12.

- Standards: ASTM F3430, F2418, and F2787
- Third-party certification: Third-party engineering reports show that CULTEC chambers meet the performance requirements of these standards. Available upon request.
- Relevant to following CULTEC Chambers: Recharger® 360HD, Recharger® 902HD

CSA Group (Canadian Standards Association)



CSA B184 provides performance requirements for underground stormwater chambers, including those for short and long-term material properties, arch stiffness and flattening, structural live and dead loading per AASHTO LRFD Section 12.12, and manufacturing quality.

- Standard: CSA B184-17 Update 1: Polymeric Subsurface Stormwater Management Structures
- Third-party certification: Recharger® 360HD and 902HD - Yes, with Intertek. Models Recharger® 150XLHD and Recharger® 180HD are currently pending.
- Relevant to following CULTEC Chamber(s): Recharger® 150XLHD, Recharger® 180HD, Recharger® 360HD and Recharger® 902HD.

GPS (GLOBE Performance Solutions)



"When installed with Terratex HPG 550 and Terratex N10 geotextiles, and tested with silica sediment having a particle size distribution conforming to the Canadian Environmental Technology Verification Program Procedure for Laboratory Testing of Oil-Grit Separators, the CULTEC Recharger® 150XLHD Separator Row™ will remove at least the following fractions of suspended sediment at the corresponding flow rates: 80% at 24 gpm, 77% at 49 gpm, 73% at 73 gpm, 70% at 97 gpm, and 65% at 121 gpm. These performance claims are verified statistically at a 95% level of confidence."

- Environmental Technology Verification (ETV) Statement of Performance Claim of CULTEC Separator Row
- Third-party certification: Yes, GPS verified testing performed at Good Harbour Laboratories
- Relevant to following CULTEC Chambers: All models installed in Separator Row Configuration

CULTEC CONTACTOR® & RECHARGER® STORMWATER SOLUTIONS

IAPMO (International Association of Plumbing and Mechanical Officials)



The IAPMO standard sets forth requirements for plastic chambers intended for leaching wastewater into the ground. Minimum requirements include those for the plastic material, geotextile, molding process, minimum wall thickness and footprint, impact resistance, and AASHTO loading.

- Standard: IAPMO Standard PS 63-2019: Plastic Leaching Chambers
- Third-party certification: Yes, with IAPMO Research and Testing, Inc.
- Relevant to following CULTEC Chambers: Contactor® EZ24, Contactor® 100HD, Recharger® 150XLHD, Recharger® 180, Recharger® 280HD, and Recharger® 330XLHD

NSAI (National Standards Authority of Ireland)



NSAI reviewed third-party test data to verify the material and structural performance of the CULTEC chambers. Chambers meet the requirements set forth by Irish Building Regulations.

- European Technical Assessment in accordance with the Irish Building Regulations 1997 to 2017.
- Third-party certification: Yes, with NSAI
- Relevant to following CULTEC Chambers: Recharger® 150XLHD, Recharger® 330XLHD, and Recharger® 902HD

QUESTIONS?

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