

Technical Note

**FLAMMABILITY TESTING OF  
HYDROTURF® ADVANCED REVETMENT  
TECHNOLOGY**

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Independent third-party flammability testing has been performed on HydroTurf® Revetment Technology (HydroTurf) by Testing Services Inc. (TSI). TSI provides independent, professional, laboratory testing services of textiles. A description of flammability testing procedures and test results are provided in this document. Additional testing and evaluations performed on HydroTurf include hydraulic jump, steady state and wave overtopping hydraulic performance and multiple non-hydraulic tests. Those testing descriptions and results are available in separate documents. Please contact Watershed Geosynthetics for additional information.

**FLAMMABILITY**

The HydroTurf system was tested for surface flammability in accordance with ASTM D 2859, *Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials*. The test was conducted on eight 12-inch by 12-inch samples of HydroTurf with HydroBinder® infill and eight 12-inch by 12-inch samples of HydroTurf without infill (engineered turf only). Samples were pre-heated to insure any moisture was removed. Once samples were dry, a metal frame with an 8-inch diameter opening was positioned as presented in Figure 1.

An ignition source (methenamine solid fuel tablet) was placed in the sample center and ignited. The fuel tablet burned for approximately 2 minutes at over 770 F°. The fuel tablet and HydroTurf sample were allowed to burn until self-extinguishing. Once the flame extinguished, propagation of the flame was measured from the edge of the 8-inch diameter metal frame. The passing criteria is the flame must self-extinguish before burning within 1 inch of the metal frame in seven out of eight burned samples.

Both the HydroTurf with HydroBinder infill and HydroTurf without infill (engineered turf only) passed the flammability test. The HydroTurf without infill was evaluated as a worst-case scenario. Pictures of a post-test sample are presented in Figure 2.



**Figure 1. HydroTurf® Sample Prepared for Flammability Testing**



**Figure 2. HydroTurf® Sample after Flammability Testing**

## **LIMITATIONS**

HydroTurf® is a U.S. registered trademark which designates a product from Watershed Geosynthetics LLC. This product is the subject of issued U.S. and foreign patents and/or pending U.S. and foreign patent applications. All information, recommendations and suggestions appearing in this literature concerning the use of our products are based upon tests and data believed to be reliable; however, this information should not be used or relied upon for any specific application without independent professional examination and verification of its accuracy, suitability and applicability. Since the actual use by others is beyond our control, no guarantee or warranty of any kind, expressed or implied, is made by Watershed Geosynthetics LLC as to the effects of such use or the results to be obtained, nor does Watershed Geosynthetics LLC assume any liability in connection herewith. Any statement made herein may not be absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Nothing herein is to be construed as permission or as a recommendation to infringe any patent.