

The OMG Sump RetroDrain has been extensively tested by an independent, third party, organization to ensure that it meets the critical design requirements necessary thermoplastic roof system components. Below are the data and results.

TEST STANDARD	TEST DESCRIPTION	MEASUREMENT/TARGET VALUE	LOCATION		
ASTM E108 Spread of Flame Test	A fire-test-response standard that is used to evaluate roof coverings in both residential and commercial roofing applications for materials used on combustible or noncombustible decks. Measures how quickly flame will spread once the roof assembly catches fire.	The OMG Sump RetroDrain meets or exceeds the requirements of a Class A fire rated roof assembly.	Third Party		
ASTM D6878 Weathering & Visual Inspection	Advanced weathering simulates years of UV and heat exposure as well as wet dry cycling. This specification covers flexible sheet made from thermoplastic polyolefin (TPO) as the principal polymer, intended for use in single-ply roofing membranes exposed to the weather.	The OMG Sump RetroDrain meets or exceeds the requirements of the ASTM D6878 Visual Inspection.	Third Party		
ASTM D412 Tensile Strength and Elongation at Break	A common standard for determining tensile properties of vulcanized (thermoset) rubber and thermoplastic elastomers. Sump drain material was tested post weathering.	The OMG Sump RetroDrain material tensile strength = 2480 (psi); Elongation at Break = (46%).	Third Party		
UL2218 Impact Testing	Impact resistance testing for the evaluation of low slope roofing systems. The test evaluates the effect of impact from a steel ball at locations on the assembly selected to be most vulnerable, such as (but not limited to) edges, corners, unsupported sections and joints.	The OMG Sump RetroDrain meets or exceeds the requirements of the UL2218 impact test in 40 drop locations. Drain impacted with and without membrane attached as well as in both flat and material creased areas.	Third Party		
ASPE/IAPMO/ANSI Z1034-2015 Flow testing	Test Method for Evaluating Roof Drain Performance and conducted in accordance with Section 4.1 "Vertical-Pipe Roof-Drain Test."	Flow rates for 4" sump drain:		Third Party	
		Water Head Level (in.)	Actual Head Level (in.)		Volumetric Flow Rate (gpm)
		1	1.1		40
		2	1.9		95
		3	3		184
		4	4.1		274
		5	4.9		291
		6	5.9		410
Test data of other sizes will be available as testing is completed.					
ANSI/SPRI RD1	A national performance standard for retrofit roof drains that covers many design considerations inclusive a leakage test. Drain bodies with backflow seals shall withstand a continuous test pressure under the equivalent of a 10-foot head of water or 4.33 lbf./in.2 (30 kPa) above the elevation of the backflow seals without any visible leakage after 24 hours. Laboratory test method RF-1 shall be used to test the backflow seals.	The OMG Sump RetroDrain meets or exceeds this standard.	In House		
Membrane Weld Study	OMG performed extensive testing that included welding new membrane to new sump material, tested immediately; welding new membrane to new sump material aged together and tested; welded new membrane to aged sump material and tested.	The OMG Sump RetroDrain material is compatible and welds to all major brands of commercially available TPO roofing membranes.	In House		

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