



Meet Or Exceed All Testing Standards

Aeroseal® duct sealant has been tested to meet or exceed all testing standards required for use in duct construction and sealing applications. Aeroseal DuctSeal is a liquid sealant that is aerosolized through an innovative process to safely and effectively “seal ducts from the inside”, sealing leaks not accessible through traditional manual sealing techniques. SMACNA “Duct Construction Standards – Metal and Flexible, 4th Edition” included updates to recognize the use and application of spray and aerosol duct sealants for safe and effective duct construction standards.

The IRC code section M1601.4.1 allows for liquid sealants such as Aeroseal to be used for duct sealing. Aeroseal sealant has been approved to UL-723, the standard for “Test for Surface Burning Characteristics” including liquid sealants and caulking materials. To further ensure that aerosolized sealants meet the rigorous threshold for use in building applications once applied, Aeroseal has worked with Underwriter’s Laboratories (UL) to identify test and evaluation criteria specifically for aerosol delivered sealants. This enhanced category, UL-1381, developed test requirements to ensure safe application to UL-181 duct systems. Aeroseal duct sealant is the only liquid-based sealant that has been tested in compliance with the rigorous UL-1381 criteria for use with SMACNA HVAC Duct Construction Standards.

While UL-181B outlines several tape and mastic specific test criteria such as a tape’s “peel adhesion”, which are not applicable to liquid and aerosol delivered sealants, the UL-1381 outline was developed specifically to test aerosolized sealants to the same exacting UL-181 test criteria. Aeroseal labels our sealants with the UL-723 and UL-1381 marks to recognize our compliance to these standards. The following table summarizes the test criteria for Aeroseal’s UL-1381 compliant duct sealant.

UL-1381 TEST CRITERIA


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UL-1381 Test Category	Meets or Exceeds
Tests for surface burning characteristics	UL-181A, UL-181B, UL-723 (ASTM E84)
Flame spread and smoke developed	UL-723 (ASTM E84)
Burning, erosion and temperature test	UL-181
Mold Growth and Humidity	UL-181
Leakage Reduction	ASTM E2342
Durability Tests of Duct Seal	UL-181, UL-181A, UL-181B, ASTM E2342

In the event an engineer or building code official needs documentation of Aeroseal’s compliance, a Certificate of Compliance and the UL-1381 test methodologies are available for review.