

## **FOREWORD**

**Draft Addendum 62w**: This addendum defines performance criteria for air stream surface materials in ventilation system equipment and ducts. Conformance with these criteria is intended to minimize the potential for microbial growth and dissemination through the air distribution system. Installation provisions are intended to minimize internal insulation material from becoming loose, damaged, or collecting dirt at joints and seams. Other addenda will address the introduction of dirt and debris into the ventilation system (filtration) and condensate control (coils, drain pans, etc.), which are also associated with microbial growth and dissemination. Changes in response to public review comments are in bold with additions underlined and deletions indicated by double strikethroughs.

## **Addendum 62w**

### ***Delete the existing section 5.5 in ASHRAE 62.1-1999***

~~**5.5** Ventilating ducts and plenums shall be constructed and maintained to minimize the opportunity for growth and dissemination of microorganisms through the ventilation system. Construction also shall comply with applicable standards such as UL 181, NFPA 90A, NFPA 90B, and SMACNA (Refs 2-6).~~

### ***Add a new section 5.5:***

**5.5 Air Stream Surfaces:** All air stream surfaces in equipment, **and** ducts ~~and plenums~~ in the heating, ventilation and air conditioning system shall be designed and constructed in accordance with the following requirements:

**5.5.1 Resistance to Mold Growth:** Material surfaces shall be determined to be resistant to mold growth in accordance with a standardized test method, such as Underwriters Laboratories, Inc. (UL) 181 “Mold Growth and Humidity Test”, ASTM C 1338 “Standard Test Method for Determining Fungi Resistance of Insulation Material and Facings”, or other comparable test methods. Exception: sheet metal surfaces and metal fasteners. NOTE: Even with this resistance, any air stream surface that is continuously wetted is still subject to microbial growth.

**5.5.2 Resistance to Erosion:** Air stream surface materials shall be evaluated in accordance with the Underwriters Laboratories, Inc. (UL) 181 “Erosion Test” and shall not break away, crack, peel, flake off, or show evidence of delamination or continued erosion under test conditions. Exception: sheet metal surfaces and metal fasteners.