NEW YORK STATE DEPARTMENT OF STATE

Division of Code Enforcement and Administration
Uniform Fire Prevention and Building Code - 2002 Edition

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T E C H N I C A L B U L L E T I N

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Source Document: **19 NYCRR 1221 *Building Code of New York State* (BCNYS)**

Topic: **Bottom seal for a fire-resistance rated opening protective**

This document is to clarify the use of a bottom seal for a fire-resistance rated opening protective . BCNYS section 714.2.3, Doors in corridors and smoke barriers, states:

> *fire doors required to have a minimum fire-protection rating of 20 minutes where located in corridor walls or smoke barrier walls having a fire-resistance rating in accordance with Table 714.2 shall be tested in accordance with NFPA 252 or UL 10C without the hose stream test. ... Fire doors shall also meet the requirements for a smoke-and draft-control door assembly tested in accordance with UL 1784 with an artificial bottom seal installed across the full width of the bottom of the door assembly. The air leakage rate of the door assembly shall not exceed 3.0 cfm per square foot (0.01524 m^3/slm^2) of door opening at 0.10 inch (24.9 Pa) of water for both the ambient temperature and elevated temperature tests. Louvers shall be prohibited.*

The installation of bottom seals is required only for the testing of the doors for use as smoke-and draft-control, and the bottom seal is not required to be installed on doors in a building. UL 1784 testing procedures allow the use of artificial bottom seals as part of the test process in order to comply with required ratings. The purpose of the code section is to mandate that the artificial bottom seals are installed for testing. Notice that the air leakage rate, which is part of the UL 1784 test parameters, is also included in the code text.

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