

20.8.2 In an emergency, the fire safety curtain shall have an average closing speed of not less than 6 in./sec (152 mm/sec) and not more than 24 in./sec (610 mm/sec).

20.8.2.1 The last 8 ft (2.4 m) of travel shall require not less than 5 seconds.

20.8.2.2 Acceptance testing shall verify proper descent of the fire safety curtain assembly for emergency service.

20.8.3 The above tests shall be conducted when the stage smoke vents are closed and then again when the smoke vents are open.

20.8.4 The installing contractor shall notify the AHJ prior to conducting acceptance testing.

20.8.4.1 Acceptance testing shall be conducted by the installing contractor in accordance with the requirements of Chapter 20.

20.8.5* The fire safety curtain shall be capable of automatic closing without the use of normal building-applied power.

20.8.6 The completed installation of a fire safety curtain assembly shall be inspected and tested to confirm that all emergency and routine operating components function in accordance with Chapter 20.

20.8.7 The owner shall be provided with a manual by the manufacturer detailing operation (both manual and emergency), maintenance, testing procedures, name, address, and phone number of the manufacturer, and date of installation.

20.9 Care and Maintenance.

20.9.1 The rigging system shall be inspected annually.

20.9.1.1 The annual rigging inspection shall be performed by a qualified person.

20.9.1.2 Inspection shall include all components of the fire safety curtain assembly and operation including 20.7.3.

20.9.1.3 Retraining of the owner and staff shall be mandatory during each annual inspection.

20.9.1.4 Signed and dated inspection reports including a list of who attended the training shall be kept on file with the owner for review by the AHJ as an ongoing acceptance procedure.

20.9.2 Unless temporary measures have been approved by the AHJ, repairs required for emergency operation of the fire safety curtain assembly shall be completed before the facility can be occupied for an event with an audience.

20.9.3 Repairs not affecting the emergency closing of the fire safety curtain shall be completed within 30 days.

20.9.4 Maintenance shall be carried out in accordance with the manufacturer's recommendations and schedule.

20.9.5 All repairs and maintenance shall be recorded in a repair/maintenance log.

20.9.5.1 This log shall include the date, the name of the person repairing or maintaining, and a description detailing parts affected, maintained, adjusted, and/or replaced.

20.9.5.2 This report shall be kept on file with the owner for review by the AHJ as an ongoing acceptance procedure.

Annex A Explanatory Material

Annex A is not a part of the requirements of this NFPA document but is included for informational purposes only. This annex contains explanatory material, numbered to correspond with the applicable text paragraphs.

A.1.1 See Annex K for general information about fire doors.

A.1.1.1 No fire test standard requirement currently exists to which fabric fire safety curtain assemblies can be tested. Only the curtain fabric is tested in accordance with NFPA 251, *Standard Methods of Tests of Fire Resistance of Building Construction and Materials*. The perimeter and internal framework and all supporting, guide, and operating components used in specific applications are not tested. Variations in size of proscenium openings and the amount of side and head clearances available for individual stages dictate the number of variations in design of the assemblies.

A.1.1.2 For requirements on their installation, see NFPA 82, *Standard on Incinerators and Waste and Liner Handling Systems and Equipment*, and NFPA 232, *Standard for the Protection of Records*.

A.1.1.3 For requirements on the installation of hoistway doors for elevators and dumbwaiters, see the applicable sections of ASME A17.1, *Safety Code for Elevators and Escalators*, or CSA B44, *Safety Code for Elevators*.

A.1.1.4 The fire performance evaluation of these assemblies is tested in accordance with NFPA 251, *Standard Methods of Tests of Fire Resistance of Building Construction and Materials*, for horizontal access doors; NFPA 252, *Standard Methods of Fire Tests of Door Assemblies*, for fire doors and shutters; NFPA 257, *Standard on Fire Test for Window and Glass Block Assemblies*, for fire windows and glass block; and NFPA 288, *Standard Methods of Fire Tests of Floor Fire Door Assemblies Installed Horizontally in Fire Resistance-Rated Floor Systems*, for doors in horizontal fire-rated assemblies. It is not the intent of this standard to establish the degree of protection required or to constitute the approval of any product. These are determined by the authority having jurisdiction.

A.1.2.1 These are determined by the authority having jurisdiction.

A.1.3 The authority having jurisdiction might require upgrading of existing installations to meet current standards and requirements only where the lack of compliance with this standard presents a serious fire or life safety hazard. It should be noted that care and maintenance of materials for ongoing and existing installations should be maintained in accordance with the standards under which they were installed. Protected openings provide access, ingress, egress, observation, passage of light, natural ventilation (other than ducts or transfer grilles), or movement through fire-resistive walls and ceilings that have been tested in accordance with NFPA 251, *Standard Methods of Tests of Fire Resistance of Building Construction and Materials*.

A.1.4.1 The development of fire doors and related devices is a continuous process; therefore, this standard is not always current. This standard is intended to be current only at the date of publication.

A.3.2.1 Approved. The National Fire Protection Association does not approve, inspect, or certify any installations, procedures, equipment, or materials; nor does it approve or evalu-