Reference: 3.3.3 Limited-Combustible Material, 3.3.4 Noncombustible Material, 4.1.5, and 4.1.6
TIA 12-1
(SC 11-8-25/TIA Log #1027)

Note: Text of the TIA issued and incorporated into the text of 3.3.3 Limited-Combustible Material, 3.3.4 Noncombustible Material, 4.1.5, and 4.1.6 therefore no separate publication is necessary.

1. Replace the definition of 3.3.3 Limited-Combustible Material as follows:

3.3.3 Limited-Combustible Material. (See 4.1.6).

2. Revise the definition of Noncombustible Material of 3.3.4 as follows:

3.3.4 Noncombustible Material. (See 4.1.5).

3. Revise 4.1.5 as follows:

4.1.5 Noncombustible Material.

4.1.5.1* A material that complies with any one of the following shall be considered a noncombustible material:

(1)* The material, in the form in which it is used, and under the conditions anticipated, will not ignite, burn, support combustion, or release flammable vapors when subjected to fire or heat

(2) The material is reported as passing ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 Degrees C

(3) The material is reported as complying with the pass/fail criteria of ASTM E 136 when tested in accordance with the test method and procedure in ASTM E 2652, Standard Test Method for Behavior of Materials in a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750 Degrees C. [5000:7.1.4.1.1]

4.1.5.2 Where the term limited-combustible is used in this standard, it shall also include the term noncombustible. [5000:7.1.4.1.2]

A.4.1.5.1 The provisions of 4.1.5.1 do not require inherently noncombustible materials to be tested in order to be classified as noncombustible materials. [5000:A.7.1.4.1]

A.4.1.5.1(1) Examples of such materials include steel, concrete, masonry and glass. [5000:A.7.1.4.1.(1)]

4. Add new text for 4.1.6 from NFPA 5000 as follows:

4.1.6 Limited-Combustible Material. A material shall be considered a limited-combustible material where both of the following conditions of 4.1.6.1 and 4.1.6.2, and the conditions of either 4.1.6.3 or 4.1.6.4 are met. [5000:7.1.4.2]

4.1.6.1 The material does not comply with the requirements for a noncombustible material, in accordance with 4.1.5. [5000:7.1.4.2(1)]
4.1.6.2 The material, in the form in which it is used, exhibits a potential heat value not exceeding 3500 Btu/lb (8141 kJ/kg), when tested in accordance with NFPA 259, Standard Test Method for Potential Heat of Building Materials. [5000:7.1.4.2(2)]

4.1.6.3 The material has a structural base of a noncombustible material with a surfacing not exceeding a thickness of 1/8 in. (3.2 mm) where the surfacing exhibits a flame spread index not greater than 50 when tested in accordance with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials or ANSI/UL 723, Standard for Test for Surface Burning Characteristics of Building Materials. [5000:7.1.4.2.1]

4.1.6.4 The material shall be composed of materials that, in the form and thickness used, neither exhibit a flame spread index greater than 25 nor evidence of continued progressive combustion when tested in accordance with ASTM E 84 or ANSI/UL 723 and are of such composition that all surfaces that would be exposed by cutting through the material on any plane would neither exhibit a flame spread index greater than 25 nor exhibit evidence of continued progressive combustion when tested in accordance with ASTM E 84 or ANSI/UL 723. [5000:7.1.4.2.2]

4.1.6.5 Where the term limited-combustible is used in this standard, it shall also include the term noncombustible. [5000:7.1.4.2.3]