



Table 1.22.: Roofing System Test requirements.

| OCCUPANCY AND TYPE OF BUILDING | EXTERIOR FIRE EXPOSURE TO ROOFING ASSEMBLIES | INTERIOR OR UNDER DECK FIRE EXPOSURE TO ROOFING ASSEMBLIES | PLASTIC SKY LIGHTS ON ROOFING ASSEMBLIES |
|---|--|---|---|
| 1. NON SPRINKLERED BUILDINGS, 2. BUILDINGS WITHOUT FIRE SUPPRESSION SYSTEMS, 3. BUILDINGS, LESS THAN 6 M FROM NEIGHBORING BUILDING, 4. MALLS, 5. ASSEMBLY, 6. HOSPITAL, 7. EDUCATIONAL, | <u>ANY OF THE FOLLOWING</u> Class A with ASTM E 108 Class AA with BS 476 -3 Class Broof t4 with EN 13501-5: +A1 Class A with UL 790 Class 1 with NFPA 276 Pass with FM 4470 or FM 4471 | <u>ANY OF THE FOLLOWING</u> CLASS I rating with FM 4450 Pass as assembly with UL 1256 Structural Metal panel Roof systems shall be tested with FM 4471 Roof systems with modified bitumen and other types of membrane roof systems shall be tested with FM 4470 | <u>ANY OF THE FOLLOWING</u> Class A with FM 4431 Class A with ASTM E 84 Class A with UL 723 Class 1 with BS 476 -7 Class A with EN 13501-1 |
| 8. OTHER BUILDINGS AND OCCUPANCIES, NOT MENTIONED ABOVE 9. BUILDINGS WITH SPRINKLER PROTECTION 10. BUILDINGS WITH FIRE SUPPRESSION SYSTEMS | <u>ANY OF THE FOLLOWING</u> Class B with NFPA 256 Class B with ASTM E 108 Class BB with BS 476 -3 Class Broof t4 with EN 13501-5: +A1 Class B with UL 790 | | <u>ANY OF THE FOLLOWING</u> Class B with FM 4431 Class B with ASTM E 84 Class B with UL 723 Class 2 with BS 476 -7 Class B with EN 13501-1 |

6.4.1.4. For Roof recovering situations, where covering an existing roofing system with a new roofing system or Roof Replacement situations where removing an existing roof system and replacing it with a new system, the following methods shall apply.

- a. Certified insulated systems may be installed over existing certified insulated systems when:
 - i. The new system is certified for use with the existing roof insulation type (glass fiber, perlite, wood fiber, foamed plastic, etc.
 - ii. The total thickness of insulation in both systems does not exceed the maximum specified for the new system being applied.
- b. For installation over noncombustible decks, any certified insulated system utilizing minimum 1-in.-thick insulation (glass fiber, polyisocyanurate or perlite) may be used over any existing insulated system regardless of the type, provided the insulation in both systems does not exceed the maximum specified for the new system being applied.