



**Table 1.9.: Fire Resistance Separation and other requirement of incidental accessory /Occupancies.**

INCIDENTAL ACCESSORY ROOMS AND OCCUPANCIES	REQUIRED SEPARATION WITH AUTOMATIC FIXED FIRE PROTECTION SYSTEM	REQUIRED SEPARATION WITHOUT AUTOMATIC FIXED FIRE PROTECTION SYSTEM	OTHER CONSTRUCTION AND PROTECTION REQUIREMENTS (See Chapter 9 for Fire Protection requirements Chapter 10 for smoke control requirements)
59. RAIL AND TRAM SYSTEMS	2 Hour	2 Hour	<ul style="list-style-type: none"> <li>i. Planning, Construction, Structure, Strength, Materials etc. shall be as per <b>NFPA 130</b>. Standard for Fixed Guideway Transit and Passenger Rail Systems and latest edition of <b>UAE Fire and Life Safety Code of Practice</b>.</li> <li>ii. Building construction for all new stations shall be not less than Type I– or Type II– or combinations of Type I– and Type II–approved noncombustible construction as per the height and area calculations of latest edition of <b>UAE Fire and Life Safety Code of Practice</b>.</li> <li>iii. Stairs and escalators regularly used by passengers shall not be required to be enclosed.</li> <li>iv. Ancillary buildings shall be separated from station. All power substations shall have a fire separation of at least 3 hours from all other occupancies.</li> <li>v. Electrical control rooms, auxiliary electrical rooms, and associated battery rooms shall have a fire separation of at least 2 hours from all other occupancies and spaces.</li> <li>vi. Trash rooms shall have a fire separation of at least 1 hour from all other occupancies and sprinkler protected.</li> <li>vii. Train control rooms and associated battery rooms shall have a fire separation of at least 2 hours from all other occupancies. Battery rooms shall be mechanically ventilated as per NFPA 1 requirements.</li> <li>viii. All public areas shall have a fire separation of at least 2 hours from nonpublic areas.</li> <li>ix. All station public areas shall have a fire separation of at least 2 hours from all no-transit occupancies, except where degree of hazard permits reduction in rating, such as suppression systems or open station configuration.</li> <li>x. Interior wall and ceiling finish materials, other than textile wall coverings or foam plastic insulation, shall exhibit a flame spread index not exceeding 25 and a smoke developed index not exceeding 450, when tested by NFPA 255 or by ASTM E 84 or UL 723. and shall comply with latest edition of <b>UAE Fire and Life Safety Code of Practice</b>.</li> <li>xi. Perimeter Fire Barriers, Exterior Curtain Wall and Cladding systems shall be ‘Civil Defence Approved System’.,</li> </ul>