

7.4.6 Flammability

The temperature of a luminaire may limit the surfaces on which it can be mounted. If the surface is non-combustible, then any luminaire may be mounted on it. But when the surface is either normally flammable or readily flammable, restrictions may apply. A normally flammable surface is one having an ignition temperature of at least 200 °C and that will not deform or weaken at this temperature. A readily flammable surface is one that cannot be classified as normally flammable or non-combustible. Readily flammable materials are not suitable for direct mounting of luminaires. The IEC recommends a two part classification system. For luminaires suitable for direct mounting only on non-combustible surfaces, a warning notice may be required. For luminaires suitable for direct mounting on normally flammable surfaces a symbol consisting of a letter F inside an inverted triangle is required.



USA



Suitable for mounting on flammable substrates >200°C, according to DIN 4172

NOTE 1 In order to ensure all testing and safety is present and correct, it is mandatory to check all certification and test sheets, to ensure ESMA requirements have been met or request fixtures are compliant with the technical criteria of the DMA Lighting Specifications and/or (if external LED luminaires) are ADQCC certified and marked. (www.qcc.abudhabi.ae)

Europe

Figure 109
Different marks for fire-safety rating
testing for US-market and Europe