

## 4 INSTALLATION

### 4.1 Places of installation and safety distances

Combustible materials in store must be at a sufficient distance for the radiating pipe to prevent them from reaching dangerous temperatures. Laboratory experiments have shown that combustible materials (with a surface of 0.5 m<sup>2</sup>), placed at a distance of 1.5 metres from the module and parallel to it, never reach temperatures that could be considered dangerous.

**MINIMUM DISTANCES OF COMBUSTIBLE MATERIALS FROM THE HEAT RADIATING TUBE:** (wood, cardboard, plastic materials, pallets, etc.) ACCORDING TO: - STANDARD DIN 3372 part 6, par. 3.12 - DVGW, G63/11, part 12/3.1.2. In any case the distance must be such that the maximum surface temperature of the materials **does not exceed 85°C**. The bearing elements must not be heated on large surfaces to over 50°C.

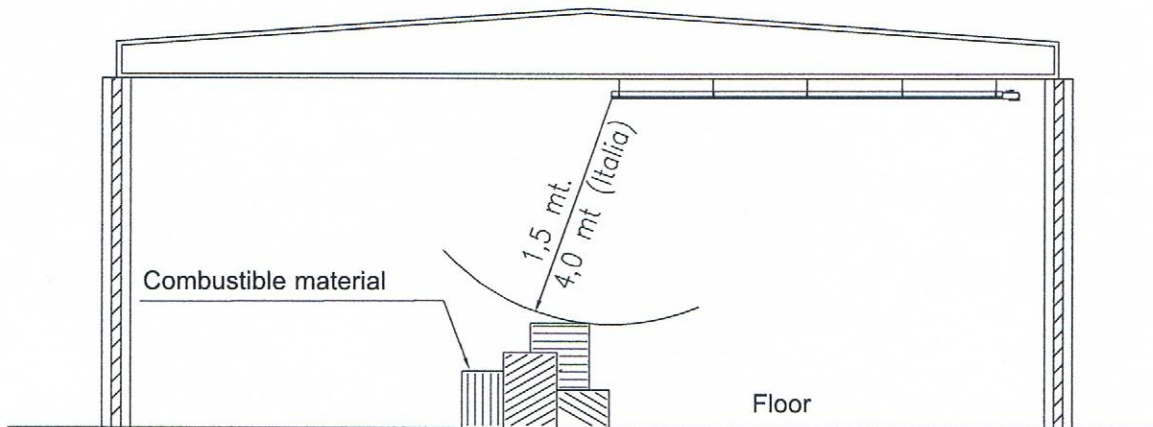


Fig. 4.1 Distance from combustible material

In particular cases, if it is impossible to respect these distances (for example motors of the carriages on a bridge crane, electric cables, lamps, cabins) suitable steps must be taken to screen heat-susceptible materials from the module heat radiation (see fig. 4.2).

Moreover, Infras have to be installed in order to assure that the temperatures of the vertical and horizontal structures to which Infras lean on do not exceed 50°C. Please arrange where necessary the suitable shield.

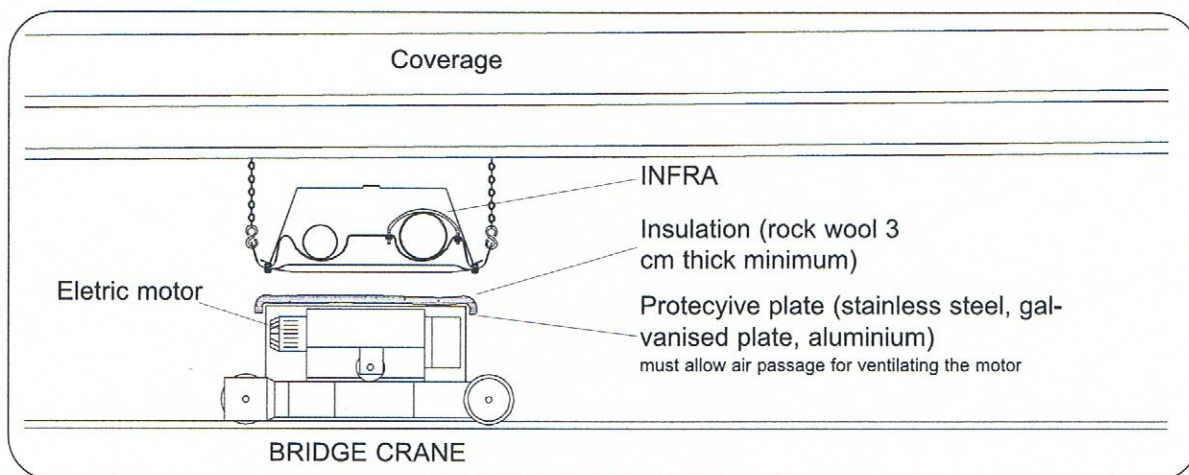


Fig. 4.2 Example of protection of the motor of a bridge crane