

- a. Penetrations through fire resistance rated floor including both empty openings and openings containing penetrants.
- b. Penetrations through fire resistance rated wall assemblies including both empty openings and openings containing penetrants.
- c. Membrane penetrations in fire resistance rated wall assemblies where items penetrate one side of the barrier.
- d. Joints between fire resistance rated assemblies.
- e. Perimeter gaps between rated floors and an exterior wall assembly.

## 3.2. Classification of Firestop Systems

### 3.2.1. Through penetration Firestop system

- a. This category addresses openings in fire rated assemblies where penetrants are passing through a fire-rated construction and where the integrity of the wall and/or floor needs to be maintained.
- b. The penetrants include, but are not limited to, mechanical, electrical, piping, structural and communication devices.

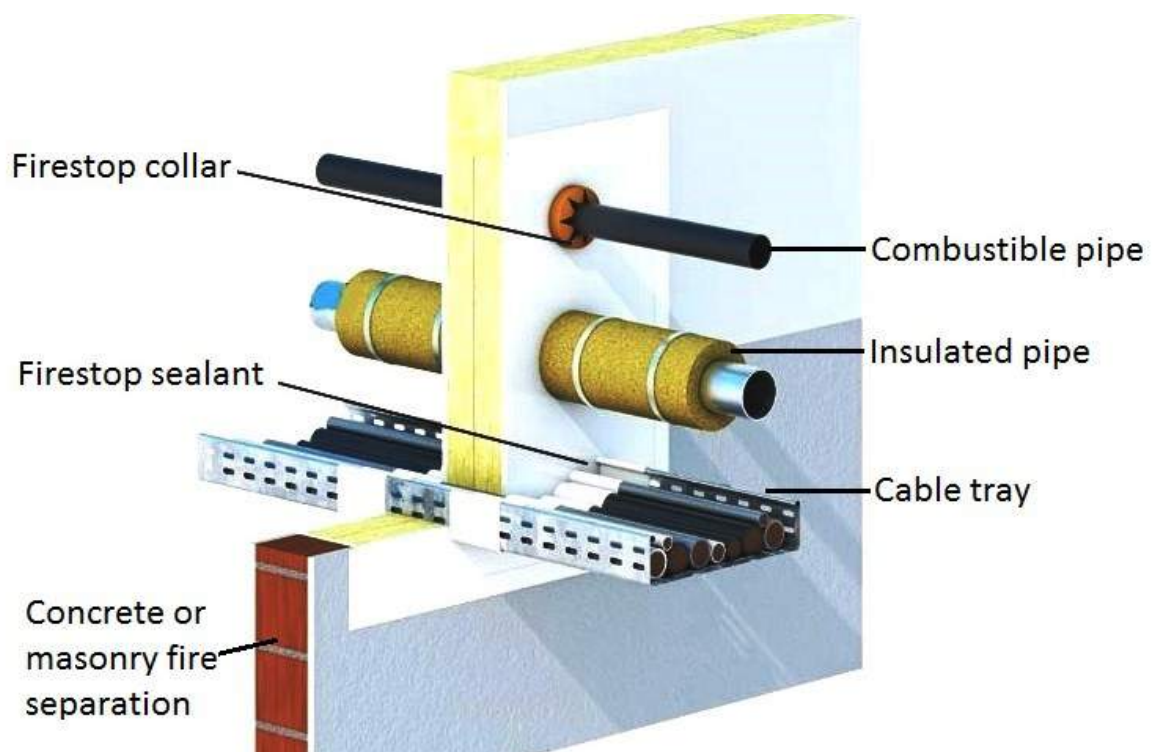


Figure 1.18.b.: Through penetration Firestop System