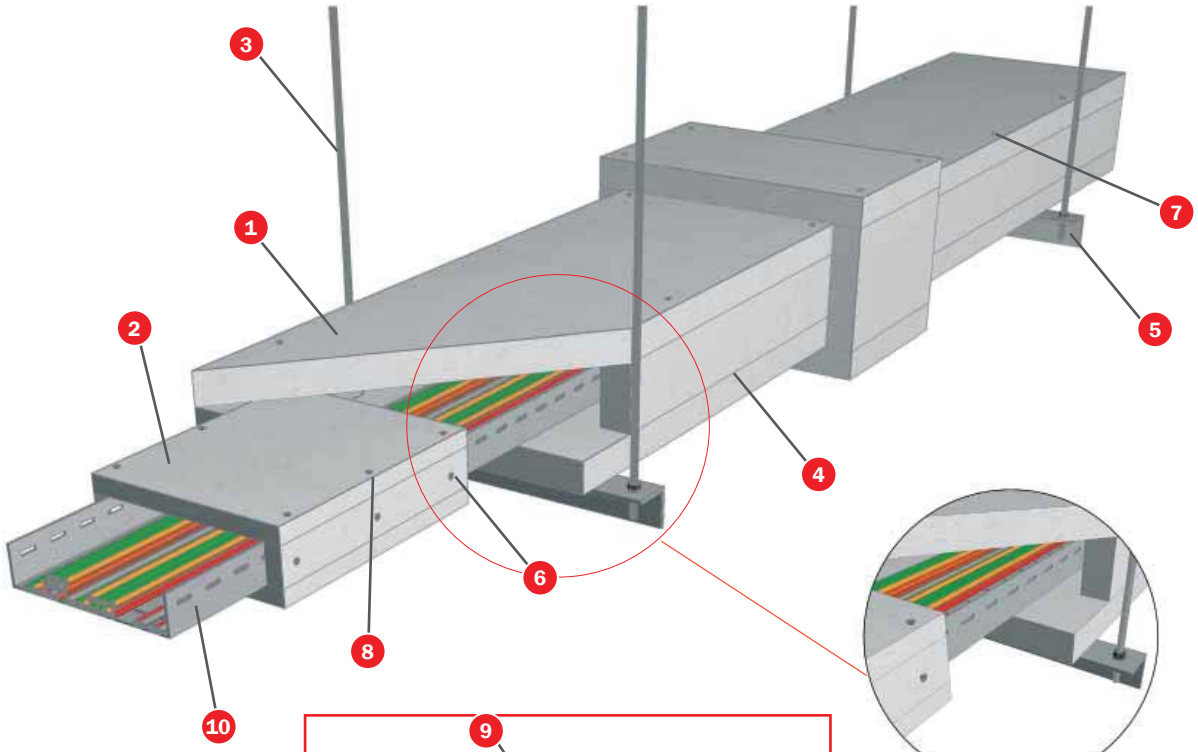
3. CABLE TRAY

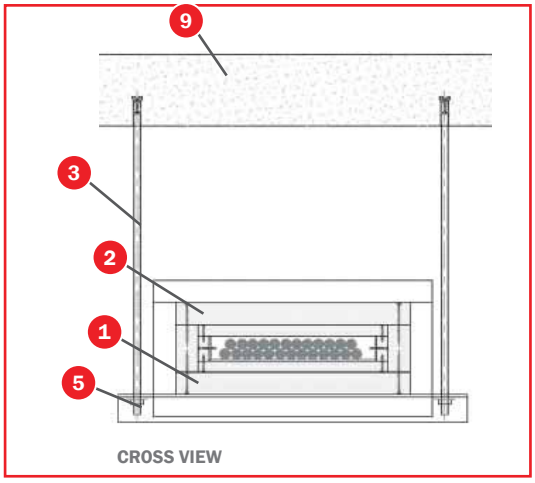
Protecting the wiring adequately will be crucial when electrical supply systems must be kept in optimal running conditions during fires. In tunnels, heavy traffic buildings or high-rises, it is of paramount importance to perform orderly evacuations while basic systems keep running.

Tecbor® B 40 mm has been tested covering a cable tray from different sections and evaluated according to UNE EN 1363-1 general requirements, following the heating curve defined by UL 1709 standard. Electric conductivity, short-circuit between cables and earth fault have been also added.

Facilities may be accessed through inspection hatches. Likewise, **Tecsel® Grids** allowing for ventilation and sealing the hole in case of fire have been tested (*For additional information, please contact our Sales Department.*).

3.1 TECBOR® B 40 - EI-120 CABLE PROTECTION





CROSS VIEW

TEST

Standard: UNE ENV 1363-1. UL 1709 Heating Curve

Laboratory: CIDEMCO

Test Nº: 25417

SOLUTION

1. **Tecbor® B** 40 mm boards
2. **Tecbor® B** 20 mm boards
3. M12 rod
4. **Tecbor®** joint paste ready to use
5. 50x50x5 mm angle section every 1000 mm
6. 3,5x45 mm self-drilling screw
7. 5,2x80 mm self-tapping screw
8. 3,5x45 mm self-tapping screw
9. Slab
10. Cable tray

DESCRIPTION OF ASSEMBLY

The tray is protected by a layer of **Tecbor® B** 40 mm boards set together with 5.2x80 mm self-tapping screws. At duct section joints, place a 200 mm wide board strip of 20 mm **Tecbor® B** and fix it to the metal tray and to each other using 3.5x45 mm screws.

The duct is anchored to the slabs with a 12 mm rod and supported by 50x50x5 mm angle sections.

Board joints and screw heads should be covered with **Tecbor® joint paste ready to use**.

Penetrations seals:

Fill the hole between the duct and the structural work with 50 mm and 145 kg/m^3 rock wool and paint both sides with **Tecbor® joint paste ready to use**.