



**INNOVATIVE FIRE SYSTEMS.**  
**PASSIVE FIRE PROTECTION**

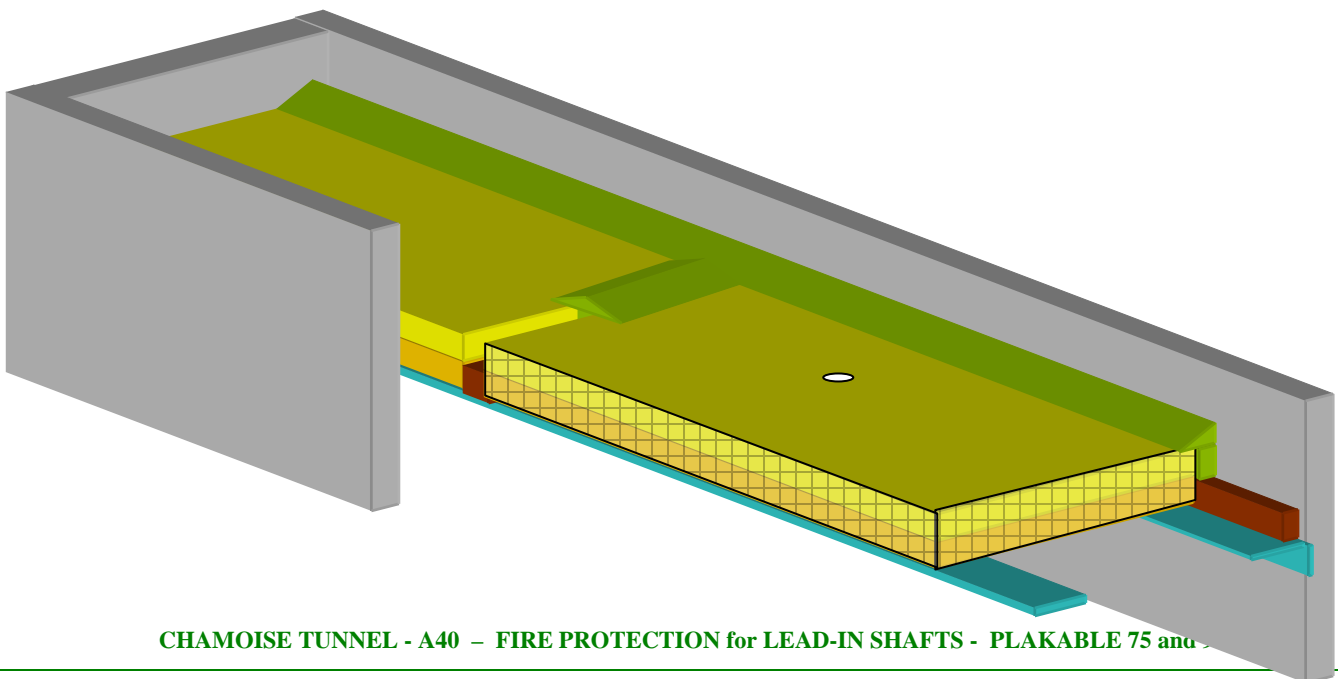
## **CHAMOISE TUNNEL**

### **A 40 MOTORWAY**

**FIRE PROTECTION for LEAD-IN SHAFTS**



The Contracting authority, APRR, has launched a programme to renovate the lead-in shafts of the two Chamoise tunnel tubes near Nantua. The prime contractor, Ingerop, has confirmed the choice of protection system with PLAKABLE 75 and PLAKABLE 95/250, developed by INNOVATIVE FIRE SYSTEMS, already installed in more than 20 French tunnels.



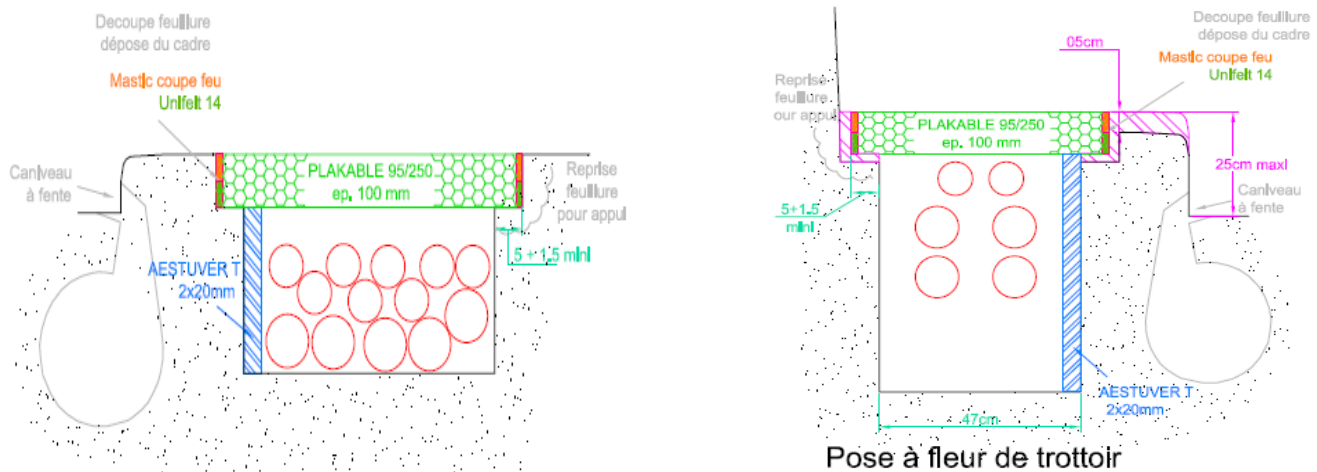
**CHAMOISE TUNNEL - A40 – FIRE PROTECTION for LEAD-IN SHAFTS - PLAKABLE 75 and 95/250**



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Two protection systems will be installed during this operation:

- the first type of protection: **PLAKABLE 75** under the existing ductile cast-iron (see drawing above). Generally, the 75 mm thickness of the felt + **FIRE BARRIER 135** mortar complex provide the required heat insulation, giving a temperature of less than 80° after exposure, in accordance with HCM 120 and CN 240 (degree N3).
- the second type of protection: **PLAKABLE 95/250**, at the pavement's edge (see drawing below). Generally, the 95 mm thickness of the felt + **FIRE BARRIER 135** mortar complex provide the required heat insulation after exposure, in accordance with HCM 120 and CN 240 (degree N3), as well as the mechanical strength required to meet the stresses of heavy duty road traffic.



To ensure a high level of resistance to defrosting salt, the plakable 95/250 will be covered with a coating which has successfully passed freeze/thaw tests.