

SOS Cabin



Basic Information

Every road tunnel must provide the maximum extent of safety to road users. For this purpose, in addition to special structural features in the tunnel, a safety facility is installed there whose aim is to reduce the risk of emergency situations and, when they occur, provide the possible maximum of protection to all the participants in the event.

SOS cabins are the basic element of the road tunnel safety system. This cabin can be used for establishing phone connection between the road tunnel user and the traffic dispatcher and, at the same time, they allow connection with the dispatcher via buttons. They are installed on one wall in one-way tunnels, and on two walls in two-way tunnels, always on the right-hand side in the traffic lane direction. As per Technical Specification 98 – Technology Equipment in Tunnels – SOS cabins are a fundamental part of the tunnel equipment.

Basic Technical Design

The basic variant of SOS cabin consists of a cabinet made of stainless material, with the IP54 protection, and the minimum sight size of 1,850 x 1,600 x 800 mm. Cabins are designed for building into a niche prepared during the tunnel construction and equipped with power supply and grommets for control cables.

As per Technical Specification 98 – Technology Equipment in Tunnels, the basic equipment of SOS cabins is as follows:

- Marking the cabinet with the symbols of “SOS”, fire, first aid, towing, and police
- Cabin door, 1/3 glazed with safety glass and furnished with an automatic closer, with outward opening
- Cabin illumination
- Soundproof design

	<ul style="list-style-type: none"> ▪ Alarm button with optical signalisation (connection confirmation) furnished with pictograms ▪ 230 V and 3 x 230 / 400 V sockets ▪ Phone connection with the dispatching ▪ Extinguishers and basic fire protection equipment
<p>SOS Cabin Standard Equipment</p>	
<p>Other Models of and Equipment in SOS Cabins</p>	<p>In terms of the Technical Specification 98 and on the customer's request, the SOS cabins may be designed in additional variants and models with equipment variants.</p> <ul style="list-style-type: none"> ▪ Cabin as the front wall for building into a niche prepared for this purpose during the tunnel construction ▪ Signalisation of opened door by a couple of flashing yellow lights located above the cabin ▪ Furnishing the cabin with voice phone or videophone ▪ Acoustic signalisation of the cabin's location within the tunnel in case visibility is deteriorated due to smoke engulfment ▪ Handicapped access, information in Braille ▪ Furnishing with the first aid box ▪ Furnishing with masks for the handicapped.
<p>References</p>	<p>SOS cabins produced by the ELTODO group of companies to be part of the road tunnel safety system equipment were already installed in the following tunnels:</p> <ul style="list-style-type: none"> • Strahov road tunnel - Prague • Tesnov road tunnel - Prague • Hrebec tunnel • Kohoutova tunnel - Brno • Letna tunnel - Prague • Mrazkova tunnel - Prague • Jihlava tunnel • Horelica tunnel - Slovakia
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