



Ventilation centres for the Great St. Bernard Tunnel



In recent years, Tunnel du Grand-Saint-Bernard SA has once again adapted the road tunnel - which was opened in 1964 - to modern safety standards with a safety gallery, among other things. This gallery, which runs parallel to the road tunnel, serves to safely evacuate people from the driving area in case of a fire.

The safety gallery is placed under slight positive pressure by two ventilation centres - each with two axial fans - placed on the portals and a damper system in the crosscuts. This prevents the intrusion of combustion gases from the road tunnel.

Constructor
Tunnel du Grand-Saint-Bernhard SA

Realisation
2020 / 2021

maintenance
as of 2021





Services provided by
Marti Technik AG
Delivery, assembly, commissioning,
maintenance during 3 years of service



Work carried out

- Positive pressure ventilation of the safety gallery (length 6,300 m)
- 2 ventilation centres, each with 2 axial fans (110,000m³/h per centre), sealing dampers, auxiliary aggregates and laser-assisted flue gas monitoring of incoming air
- Equipped the 11 crosscuts (sealing walls) with fire protection and regulating dampers
- Differential pressure measurements between the driving area and safety gallery
- Positive pressure ventilation of the hydroelectric power plant located in the middle of the tunnel (separate cavern)

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