

Key Figures

Gotthard Base Tunnel Railway Infrastructure Systems

General contractor railway infrastructure systems (Transtec Gotthard)	
Work contract signed	April 29, 2008
Man-hours	4 million
Railway track	
Ballasted trackbed	31 km
Ballastless trackbed (incl. MFS tunnel crossover)	115 km
Concrete	131,000 m ³
Rails (incl. MFS tunnel crossover)	290 km
LVT single-block system	380,000 units
Points	30 units
Catenary	
In-tunnel catenary	115 km
Overground catenary	39 km
Overground catenary mast foundations	560 units
In-tunnel supports	2,860 units
Spring-tensioned supports	3,200 units
50 Hz electric power supply and cable systems	
Optical-fibre cable	2,631 km
Copper cable	3,200 km
Electrical connection cabinets for cross-passage infrastructure systems (50 % air-conditioned)	2,200 units
Electrical connection cabinets for central infrastructure systems	300 units
Luminaires	10,000 units
Transformers	250 units
Handrails	118 km
Signs	3,500 units
No-break systems (emergency electric power supply)	10 units
Medium-voltage switchgear panels	850 units

Telecommunication systems	
Stand-alone control computers	380 units
Tunnel control system data points	70,000 units
Emergency call columns	417 units
Telephone instruments	60 units
Network components	500 units
In-tunnel wireless communication amplifiers	280 units
Antenna cable	120 km
Safety systems	
Balises	928 units
Axle counters	712 units
Main signal warning signs	426 units
Signal boxes	4 units
Radio block centre (ETCS)	1 unit
Railway control system	1 unit

Figures correct at April 18, 2011, Transtec Gotthard / original document: LZ 178403

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