



GLACIER EXPRESS PANORAMA CARRIAGES

Rhätische Bahn (RhB) and Matterhorn Gotthard Bahn (MGB), Switzerland

In December 2003, February 2008 and December 2010, RhB and MGB ordered a total of 34 carriages from Stadler for the Glacier Express, probably the most famous train in the world. In a seven-hour journey, the Glacier Express covers the line from Zermatt to Davos or St. Moritz. Passengers can enjoy views over unspoiled mountain scenery, classy health resorts, deep gorges, gentle valleys, 91 tunnels and 291 impressive bridges through the panoramic windows. A non-dazzling central lighting strip guarantees pleasant distribution of light. The HVAC units ensure an optimum climate in the trains all year round. In order to make the passengers feel even more comfortable, they are served food and drinks at their seats. They can receive detailed information about the sections they are travelling on via a headset. The bogies have pneumatic suspension and are connected to the carriage underfloor via a swivel bearing to enable a quiet ride.

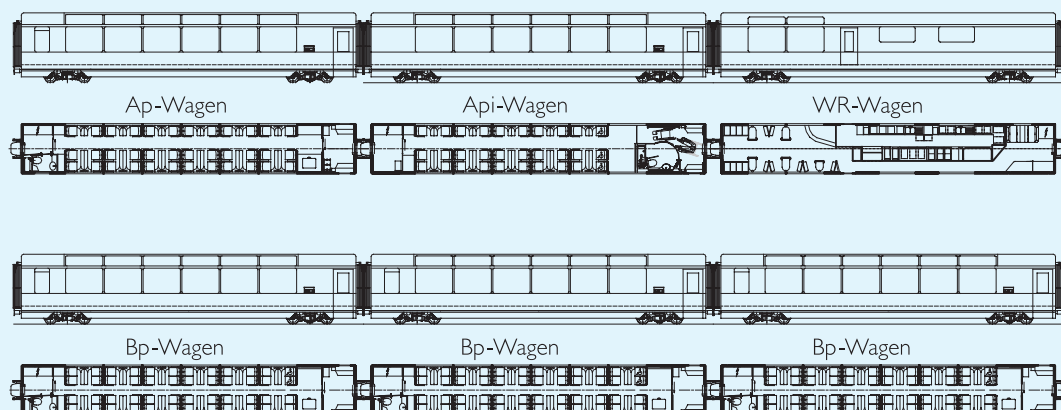
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Technical features

Technology

- Car body made of extruded aluminium sections
- Car body prepared for fitting of an autocoupler
- Windows fitted using adhesive bonding technology
- Vacuum- or compressed-air-controlled load-dependent compressed-air brakes, spring-loaded brakes
- Bogies with pneumatic suspension and swivel bearing
- Adjustable cog wheel built into bogie frame

Comfort

- HVAC system with dual redundancy (one pair per carriage)
- Passenger information system tailored to individual passengers
- Integrated interior and exterior design for the whole trainset
- Bright, passenger-friendly interior with panoramic windows
- Non-dazzling central lighting strip with pleasant light distribution
- Barrier-free toilets

Vehicle Data

Customer	Rhätische Bahn (RhB) and Matterhorn Gotthard Bahn (MGB)
Lines serviced	St. Moritz/Davos–Zermatt
Gauge	1000 mm
Minimum curve radius	60 m
Designation (number)	
First-class carriage	Api, Ap (12)
Second class carriage	Bp (16)
Service carriage	WRp (6)
Second class carriage	Bp (16)
Service carriage	WRp (6)
Total number of vehicles	24
Commissioning	2006, 2009, 2011
Seats in each train	
First class	66
Second class	144
Length over buffers	18 500 mm
Distance between bogie pivots	12 830 mm
Body length	17 700 mm
Vehicle height	3695 mm
Vehicle width	2680 mm
Bogie wheelbase	1800 mm
Wheel diameter (new)	685 mm
Floor height	950 mm
Entrance width	850 mm
Axial thrust	800 kN
Maximum speed	
Adhesion	100 km/h
Rack rail	35 km/h
Maximum gradient	
Adhesion	60 ‰
Rack rail	125 ‰
Train line voltage	320 V (16 2/3 Hz)