



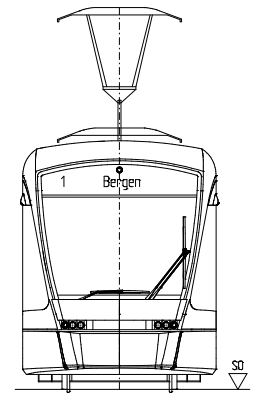
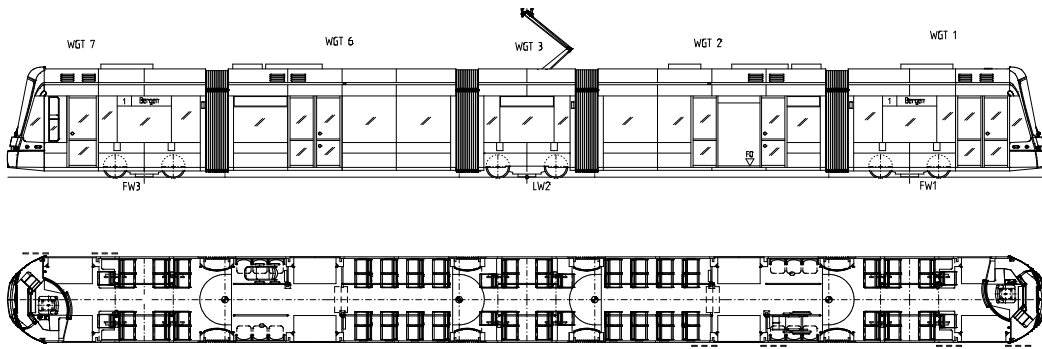
Low-floor light rail vehicle, type Variobahn for Bybanen, Norway

The City of Bergen decided to build a tramway system. The first segment of the system between the city centre of Bergen and the town centre of Nesttun with a distance of approximately 10 km is completed. Bybanen ordered 17 light rail vehicles of the type Variobahn for the service of the line between the city centre of Bergen and Nesttun. The bi-directional vehicles for Bergen have a continuous floor level (100 % low-floor) and the gauge is 1,435 mm.

The Variobahn is a modern and modular constructed light rail vehicle with clear interfaces and a high degree of flexibility concerning the length, the width, the gauge and the catenary supply voltage. A maximal adaptation to the needs of the customer is possible.

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Technical features

- Modular construction based on main functions
- Air suspension with constant height level
- Bi-directional vehicle
- 100 % low-floor
- Body-shell made of stainless steel
- Exterior covering made with bonding technology
- Free seat arrangement in passenger modules
- Length and width adjustment by chosen modules
- Spacious articulation section with flexible interior covering
- Optimal envelope behavior
- Fire protection for vehicles which operate in tunnels according to DIN 5510
- Air-conditioned passenger and driver compartments
- Ergonomically designed driver's cab
- WIFI for the passenger for video live streaming
- Special interior design with LED Lights

Vehicle data

Customer	Hordaland fylkeskommune (Bergen Commune)
Operated lines	City centre of Bergen to Nesttun
Number of vehicles	17
First delivery	2009
Vehicle length	32,180 mm
Vehicle width	2,650 mm
Height above roof devices	3,500 mm
Access height	315 mm
Constant low-floor height	350 mm
Aisle width	720 mm
Net weight	41,800 kg
Gauge	1,435 mm
Exterior sliding doors	4 on each side
Wheel diameter	650/570 mm (new/worn)
Drive/trailer wheel	8/4
Catenary voltage	750 V
Drive	8 x 45 kW
Maximum speed	70 km/h
Seats	84 (incl. folding seats)
Standing capacity (4 pers./m ²)	128
Minimal curve radius	25 m

