



Articulated GTW 2/6 and GTW 2/8 low-floor EMUs for VEOLIA Transport Nederland

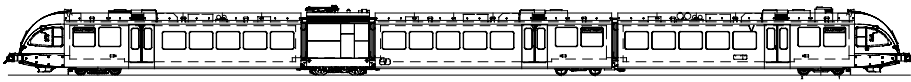
VEOLIA has purchased 8 new 1500V DC electric articulated railcars for regional traffic in the south of the Netherlands. The delivery of 5 of them will be 2-unit GTWs and 3 are to be 3-unit models. These trains will be commissioned in the Province of Limburg for the route between Maastricht–Kerkade. This generation of GTW articulated trains fulfill the new European EN 15227 standard which regulates energy absorption in the case of collisions. The trains are equipped for welcoming passengers with physical handicaps, have a video surveillance system, a closed toilet system, as well as 220V circuit points in first class.

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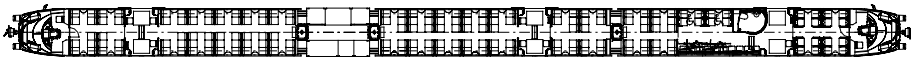
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GTW 2/6



GTW 2/8



Technical features

- Bright, friendly interior with large window areas
- Transparent, open interior design
- Air-conditioned passenger and driver compartments
- Closed toilet system with easy access for the disabled
- Stepless passenger compartment with wide doors, low floor section > 75 %
- Body structure fulfils the prEN 15227 standard for energy absorption in the event of collision
- 2/3 entrance doors per side, equipped with sliding step
- Spacious multipurpose area in entrance sections
- Air-suspended power and trailer bogies
- Ergonomically designed driver's cab
- Traction equipment housed in a separate power car
- Redundant traction chain consisting of two units, each with a diesel engine, asynchronous generator, IGBT power converter and asynchronous drive motor
- Vehicle control system with train bus and diagnostics computer (CAN open bus)

Vehicle Data

GTW 2/6

GTW 2/8

Customer	VEOLIA Transport Nederland	
Lines operated	Maastricht – Kerkrade	
Gauge	1435 mm	1435 mm
Supply voltage	1.5 kV DC	"
Axle arrangement	2'Bo'2'	2'2'Bo'2'
Number of vehicles	5	3
Service start-up	2008	"
Seating capacity 2 nd class	93	159
Seating capacity 1 st class	16	16
Fold up seats	14	17
Floor height		
Low floor	830 mm	"
High floor	996 mm	"
Door width	1300 mm	"
Longitudinal strength	1500 kN	"
Overall length	40890 mm	55937 mm
Vehicle width	2990/2950 mm	"
Vehicle height	4300 mm	"
Tare weight	appr. 65.5 t	appr. 84.5 t
Bogie wheelbase		
Power unit	2100 mm	"
Trailer unit	2100 mm	"
Powered wheel diameter (new)	860 mm	"
Trailer wheel diameter (new)	750 mm	"
Maximum power at wheel	1100 kW	"
Starting tractive power	80 kN	"
Maximum speed	140 km/h	"

