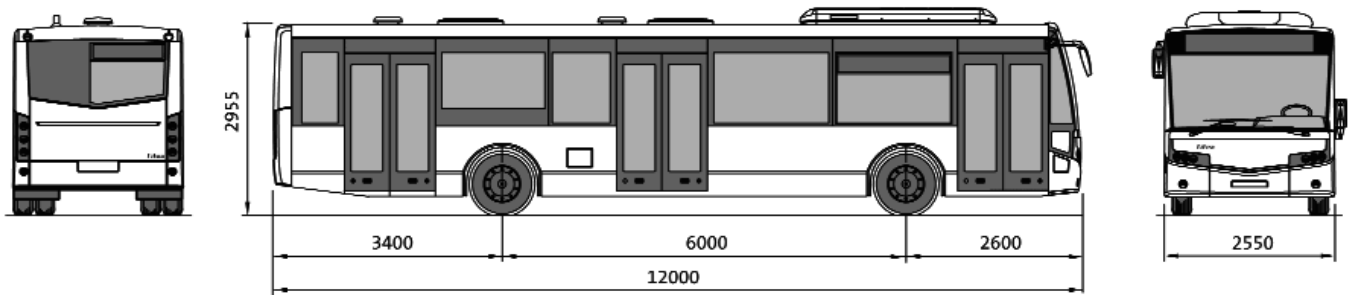


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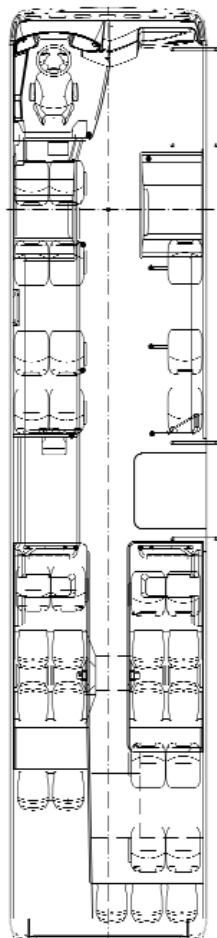
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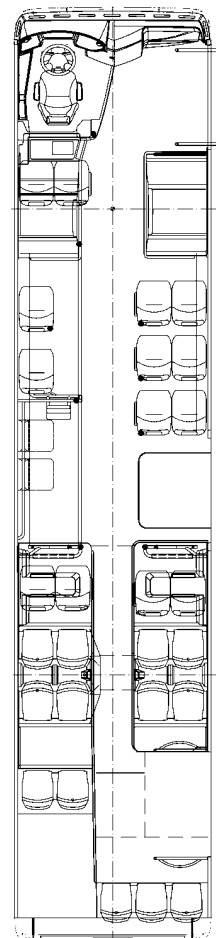
**VDL BUS & COACH**



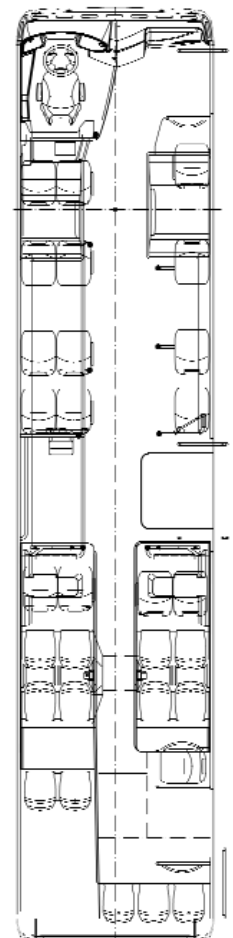
Shown seat configurations are examples. Other configurations are possible.



32+1 seats  
68 standees - 1 wheelchair area



27+2+1 seats  
73 standees - 1 wheelchair area



30+1 seats  
70 standees - 1 wheelchair area

### MEASUREMENTS - WEIGHTS

• Overall length	12,000 mm	• Step height rear door	340 mm
• Overall width	2,550 mm	• Minimum turning circle	21,180 mm
• Overall height (excl. roofunit/airco)	2,955 mm	• Max. front axle load	6,500 kg
• Wheelbase	6,000 mm	• Max. rear axle load	11,500 kg
• Front overhang	2,600 mm	• Max. GVW	18,000 kg
• Rear overhang	3,400 mm	• Unladen vehicle weight (depending on execution)	ca. 10,000 kg
• Interior saloon height (low floor)	2,420 mm	• Capacity	ca. 100 passengers
• Step height at entrance door	340 mm		
• Step height middle door	340 mm		

**ENGINE**

- Make ..... Cummins - DAF
- Type ..... ISBe<sup>4</sup> 250 - PR 183 S - PR 228 S
- Mounting ..... vertical, left rear
- Construction ..... 4-stroke diesel engine  
6 cylinders in line, with turbo and intercooler
- Bore x stroke ..... 104 x 132 mm (ISBe<sup>4</sup> 250)  
118 x 140 mm (PR 183 S + PR 228 S)
- Swept volume ..... 6.7 litres (ISBe<sup>4</sup> 250)  
9.2 litres (PR 183 S + PR 228 S)
- Compression ratio ..... 1:17.3 (ISBe<sup>4</sup> 250)  
1:17.4 (PR 183 S + PR 228 S)
- Max. power ..... 183 kW (250 bhp) at 1800-2500 rpm (ISBe<sup>4</sup> 250)  
183 kW (250 bhp) at 2200 rpm (PR 183 S)  
228 kW (310 bhp) at 2200 rpm (PR 228 S)
- Max. torque ..... 1020 Nm between 1200-1600 rpm (ISBe<sup>4</sup> 250)  
1050 Nm between 1200-1700 rpm (PR 183 S)  
1250 Nm between 1100-1700 rpm (PR 228 S)
- Exhaust ..... stainless steel  
emission through roof left rear
- Emission level ..... Euro 4
- Oil fill ..... automatic sump topping up  
with 6 litres reservoir
- Throttle control ..... electronic with integrated  
throttle interlock and speed limiter

*Typical options:*

*Emission level Euro 5*

*Emission level EEV*

**TRANSMISSION**

- Gearbox ..... automatic Voith D854.5 + integrated retarder  
(ISBe<sup>4</sup> 250 + PR 183 S)  
automatic Voith D864.5 + integrated retarder (PR 228 S)
- Ratios ..... 1:6.10 - 0.70 (D854.5 - ISBe<sup>4</sup> 250)  
1:5.05 - 0.735 (D854.5 - PR 183 S)  
1:5.05 - 0.735 (D864.5 - PR 228 S)
- Number of gears ..... 4
- Operation ..... D-N-R switch with NBS

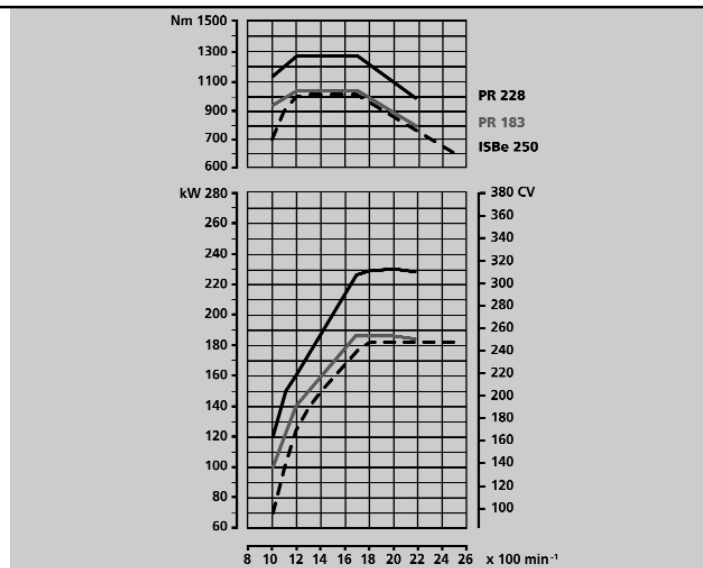
*Typical options:*

*Automatic ZF 6HP504C + integrated retarder, 6 gears*

*Ratios 1:3.43 - 0.59 (ISBe<sup>4</sup> 250 + PR 183 S)*

*Automatic ZF 6HP594C + integrated retarder, 6 gears*

*Ratios 1:3.43 - 0.59 (PR 228 S)*



**REAR AXLE**

- Rear axle ..... ZF AV 132/80°  
low floor portal axle
- Ratios ..... 1:5.13 / 1:6.20

**FRONT AXLE**

- Front axle ..... ZF RL 75C  
independent front wheel suspension

**STEERING GEAR**

- Hydraulic power-assisted steering
- Steering house TRW THP80, steering wheel diameter 450 mm
- Adjustable steering column with pneumatic lock
- Stainless steel steering oil pipes

**SUSPENSION**

- Electronically-controlled air suspension
- Front axle ..... via 2 roller bellows  
and 2 double-action shock absorbers
- Rear axle ..... via 4 roller bellows  
and 4 shock absorbers
- Kneeling ..... at front axle/both axles or one-sided right  
ferry lift at front and rear axle

**BRAKES**

- Dual-circuit air-mechanical EBS brake system with disc brakes at front and rear axle
- Foot-operated retarder (brake pedal)
- Compressor: 2 cylinder, 460 cc, 700 litre/min at 2,500 rpm
- Single chamber air drier with replaceable element and pressure regulator
- Door-operated halt-brake on the rear axle in combination with NBS and speed signal
- ABS
- Oil separator

**FUEL TANK**

- Combined AdBlue and fuel tank with filler cap at right hand side, 30 + 135 litres
- Fuel tank 170 litres left hand side

**WHEELS - TYRES**

- Rims 6x . . . . . steel, 7.50 x 22.5"
- Tyres 6x . . . . . Goodyear 275/70 R22.5" MCS

*Typical option:*

*Tyres Michelin XZE-2E*

**STRUCTURE - DOORS**

- Integrated construction with pre-assembled drive modules
- Bottom and side wall construction in high-quality stainless steel tubular profiles
- Fibreglass exterior panelling bonded to the framework
- Roof in lightweight sandwich construction component
- Roof, floor and sidewalls with thermal insulation
- Entrance door: two leaf inward swing door, portal width 1350 mm
- Exit door middle: two leaf inward swing door, portal width 1350 mm
- Exit door rear: two leaf inward swing door, portal width 1350 mm
- Doors fitted with MTS door control

*Typical options:*

*Entrance door portal width 880 mm: single-leaf outward swing door, inward swing door or swing sliding door*

*Exit door centre and rear: two leaf outer swing doors or swing sliding doors*

*Exit door rear portal width 880 mm: single-leaf outward swing door or swing sliding door*

*Lockable doors*

**GLAZING**

- Windscreen . . . . . laminated, 1 piece, clear glass, bonded
- Destination sign (front) . . . . . laminated, clear glass, bonded
- Side windows . . . . . 1st right double glazed, the rest single glazed, tinted bronze, bonded
- Rear window . . . . . single glazed, tinted bronze, bonded
- Driver's window . . . . . double sliding, double glazed, fitted in an aluminium frame
- Entrance door windows . . . . . double glazed, clear glass, fitted in door blades
- Exit door windows . . . . . single glazed, tinted bronze, fitted in door blades

*Typical options:*

*Side windows with sun-protecting glass, Venus 35 (green)*

*Side windows with flap windows*

*Side windows double glazed*

**ELECTRICAL EQUIPMENT**

- Full installation with VDO Kibes 32 multiplex Canbus system
- Instrument panel with VDO central including fuel gauge, speedometer, revolution counter, coolant and transmission temperature gauges
- 2x battery 230 Ah, 24V, on swing out tray
- 2x alternator 100 A
- Starter motor 4 kW
- Safety switch ECE R36
- TSU
- Water cooling with level sensor, buzzer and optic signal
- Engine protection with buzzer for too low oil pressure and/or too high temperature
- 2x 2 headlights at the front, LED-lights at the rear
- Interior lighting via fluorescent fitting in duct on window side, cab lamp, halogen payment table spotlight and halogen lighting above the doors
- Stop indicators: push buttons on stanchions
- Public address system with 6 loudspeakers, 1 microphone and a loudspeaker amplifier

*Typical options:*

*Wiring/preparation/installation for a.o. ticketing machine/validators, communication systems, on-board computer, fuel fill registration, traffic light interruption, camera systems etc.*

*Quick Scan Diagnosis via standard LCD screen on dashboard*

*Digital tachograph (DTCO)*

*Fog lights*

**DESTINATION EQUIPMENT**

- Preparation/installation of destination equipment with:
  - front: route number + destination display
  - right side: route number + destination display
  - rear: route number display

*Typical options:*

*Route number display left*

*Interior display in rear of driver's partition*

**HEATING - VENTILATION - COOLING**

- Interior heating and ventilation with thermostat-controlled roof heating and convector heating + heaters
- Roof unit for heating driver's cab and window demisting
- Webasto Thermo 300 pre-heater

*Typical options:*

*Integrated roof heating and air conditioning passengers, in multiple capacities available*

*Separate air conditioning for driver*

*Webasto timer*

**INTERIOR**

- Conforming with class I, 2001/85/EC, including appendix VII
- Standing area in middle opposite the door with wheelchair fastening device
- Manually-operated fold-down wheelchair access ramp at central door
- Side walls with Hornit-covering
- Handrails: epoxy coated steel pipes
- Driver's seat ISRI, type 6860 with air suspension
- Roller blind for windscreen and driver's window
- Fixed dashboard integrated with VDO instrument panel
- Payment table right beside driver, with lockable door
- Passenger seats with cantilever mounting to side wall
- Passenger seats type Kiel Ideo, Fainsa Metropolis, Esteban Ciclo, Vogel Pino or Compin Perseus
- Back 13 seats integrated in polyester formed parts
- Maximum 31 seats with three wide doors or 33 with single-leaf entrance door

*Typical options:*

*Range of upholstery variants for seats*

*Other types of seats on request*

*Electrically-operated wheelchair access ramp*

*Tip-up seats at the standing area*

*Entirely closed-in driver's cab*

**EXTERIOR**

- 2 heated exterior mirrors, on the driver's side in standing position and on the right-hand in hanging position, both mirrors electrically operated
- Blind spot mirror right
- 2 manually-operated roof hatches
- 1 Standard base colour
- 2 electrically operated roof hatches

*Typical options:*

*2 electrically-operated roof hatches*

*Service flaps and/or fuel fill flaps with locks*

**VDL Bus & Coach bv**

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