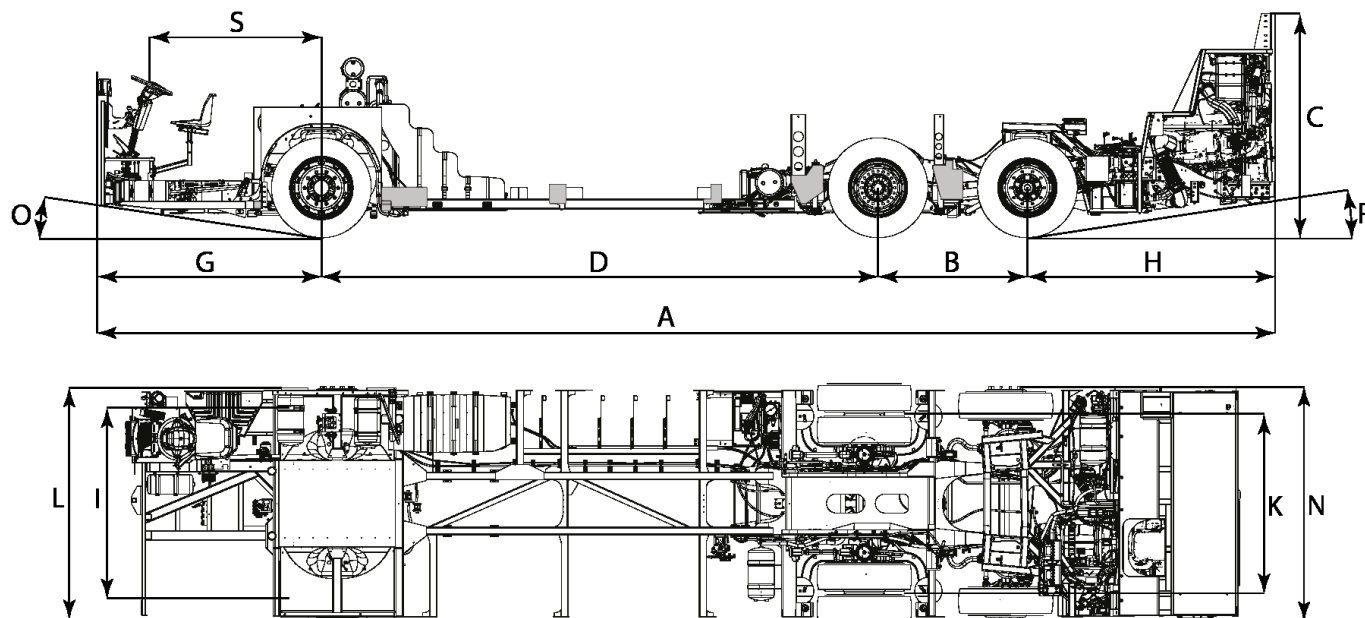




Volvo Buses. Driving quality of life

# VOLVO B8L DOUBLE DECKER

Euro 6



|              |              |
|--------------|--------------|
| <b>Model</b> | <b>6 x 2</b> |
|--------------|--------------|

| <b>Overall dimensions</b>   |   |  |
|---|---|--|
| A   | Overall chassis length (mm)                 | 11,791                                       |
| B   | Bogie (mm)                                  | 1,500  |
| C   | Frame height at rear structure (mm)*        | 2,213  |
| D   | Wheelbase (mm)                              | 5,590  |
| G   | Front overhang (mm)                         | 2,213  |
| H   | Rear overhang (mm)                          | 2,488  |
| S   | Steering wheel position (mm)                | 1,703  |
| I   | Track, front (mm)*                          | 2,069  |
| K   | Track, rear (mm)*                           | 1,878  |
| L   | Overall width front wheels or housing (mm)* | 2,450  |
| N   | Overall width rear wheels (mm)*             | 2,526  |
| O   | Approach angle (°)                          | 7.5  |
| P   | Departure angle (°)                         | 8  |
| *) Track width, overall width and frame height are measured with tyres:<br>and steel rims |   | 305/70 R22.5<br>steel disc rim 8.25" x 22.5" |

| <b>Weights</b>                 |  |        |
|--------------------------------|--|--------|
| Permitted front axle load (kg) |  | 7,500  |
| Permitted drive axle load (kg) |  | 11,500 |
| Bogie axle load (kg)           |  | 17,300 |
| Permitted tag axle load (kg)   |  | 6,700  |
| Permitted GVW (kg)             |  | 24,750 |

# VOLVO B8L DOUBLE DECKER

Euro 6

| Model                           | 6 x 2                              |
|---------------------------------|------------------------------------|
| <b>Engine</b>                   |                                    |
| Emission standard               | Euro 6                             |
| Engine system                   | EGR, Common Rail                   |
| Displacement (dm <sup>3</sup> ) | 7.7                                |
| Cylinders/arrangement           | 6/in-line                          |
| Output (hp)                     | 350                                |
| Output ISO 1585 (kW)            | 258                                |
| Torque ISO 1585 (Nm)            | 1,400                              |
| at engine speed (rpm)           | 1,200-1,600                        |
| <b>Fuel tanks</b>               |                                    |
| Diesel (L)                      | 350, 375                           |
| AdBlue® (L)                     | 30                                 |
| AdBlue® tank side (RHS/LHS)     | RHS                                |
| Oilmaster® (L)                  | 7                                  |
| <b>Transmission and axles</b>   |                                    |
| Gearbox                         | ZF 6AP1400C                        |
|                                 | ZF 6AP1600C                        |
| Front axle                      | Volvo RFS                          |
| Rear axle                       | ZF AV133                           |
| Tag axle                        | Fixed                              |
| Differential lock               | No                                 |
| <b>Suspension and steering</b>  |                                    |
| Air bellows, front              | 2                                  |
| Air bellows, drive              | 4                                  |
| Air bellows, tag                | 2                                  |
| Kneeling                        | Standard                           |
| Max wheel angle                 | 52°                                |
| Power steering                  | Electric driven hydraulic steering |
| Steering wheel position         | RHD                                |

## Important information

For variants concerning wheelbase, steering wheel diameter and permitted front axle load, see Type approval according to EC/70/311/ECE R79 and EC/71/320/ECE R13.

## Exhaust system

- One box muffler design
- Diesel Oxidation Catalyst (DOC)
- Diesel Particulate Filter (DPF)
- Selective Catalytic Reduction (SCR)
- Ammonia Slip Catalyst (ASC)
- Automatic regeneration of DPF without driver involvement under normal conditions
- On Board Diagnostic (OBD) for emissions, according to step C of emission regulations

## Cooling system

- Electrically driven fans with speed control
- No coolant filter
- Coolant level warning in instrument cluster
- Higher allowed coolant temperature for better cooling performance and lower fuel consumption

## Tyres and rims

Steel or aluminium rims available

| Rims         | Tyres        |
|--------------|--------------|
| 8.25 x 22.5" | 305/70 R22.5 |

# VOLVO B8L DOUBLE DECKER

Euro 6

## Air and brake system

- Volvo disc brakes
- Electronic Stability Program (ESP)
- Electronic Braking System (EBS 5)
- Anti-lock Braking System (ABS)
- Acceleration Slip Regulation (ASR)
- Brake blending
- Drag torque control
- Hill Start Aid
- Brake temperature warning
- Poor brake performance warning
- Door brake
- Brake assistant
- Lining wear sensing and analysis
- Automatic calibration after brake pad change
- Compressed air system, easily filled from external circuit

|                  |          |
|------------------|----------|
| Cut-in pressure  | 9.5 bar  |
| Cut-out pressure | 12.5 bar |

## Driver's station

Cluster and controls transit mounted.

- Instrument cluster
  - speedometer
  - rev counter
  - 6.5" display
  - fuel gauge
  - coolant temperature
  - brakes
  - turbo and oil pressure
  - indicators
  - warning lamps
- Tachograph
- Data logging
- External temperature meter
- Fuel economy meter
- Engine controls in engine compartment to enable engine operation from the rear of the vehicle

## Electrical system

- Volvo I-Start system
  - dual battery system that separates batteries into two circuits
  - optimised start batteries to increase engine start capability
  - optimised consumer batteries for longer lifetime
- Automatic shut off of main switch at low voltage level
- Load balanced alternators
- Regenerative charge control to increase fuel efficiency

### Number of batteries

|                    |          |
|--------------------|----------|
| Start batteries    | 2 x 12 V |
| Consumer batteries | 2 x 12 V |

### Battery capacity

|                    |            |
|--------------------|------------|
| Start batteries    | 2 x 35 Ah  |
| Consumer batteries | 2 x 105 Ah |



Volvo Bus Corporation

volvobuses.com