### Important Notes

#### Chassis Dimensions
- **Cab Height:** -115 mm for L1EH1, +404 mm for L2H2, +542 mm for L2H3.
- **Front Axle to Back of Cab:** -436 mm for L1EH1.

D-measure includes a front clearance of 50 mm and for rigid trucks also a subframe of 100 mm.

Height can vary ±20 mm for leaf and ±10 mm for air suspension.

Rear overhang used for vehicle weight calculation is the maximum rear overhang (N Max) for selected wheelbase.

Weight and dimensions are based upon the following tyres:
- **Front Axle Tyres:** 295/80R22.5
- **Drive Axle Tyres:** 295/80R22.5

#### Chassis Weights [kg]

<table>
<thead>
<tr>
<th></th>
<th>3200</th>
<th>3400</th>
<th>3700</th>
<th>3900</th>
<th>4300</th>
<th>4600</th>
<th>4900</th>
<th>5200</th>
<th>5600</th>
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</thead>
<tbody>
<tr>
<td><strong>Front Axle</strong></td>
<td>4695</td>
<td>4690</td>
<td>4700</td>
<td>4710</td>
<td>4755</td>
<td>4765</td>
<td>4775</td>
<td>4790</td>
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<tr>
<td><strong>Rear Bogie</strong></td>
<td>3470</td>
<td>3485</td>
<td>3515</td>
<td>3530</td>
<td>3590</td>
<td>3635</td>
<td>3660</td>
<td>3705</td>
<td>3740</td>
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<tr>
<td><strong>Kerb Weight</strong></td>
<td>8165</td>
<td>8175</td>
<td>8215</td>
<td>8240</td>
<td>8330</td>
<td>8390</td>
<td>8425</td>
<td>8480</td>
<td>8530</td>
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<tr>
<td><strong>Payload</strong></td>
<td>19935</td>
<td>19925</td>
<td>19885</td>
<td>19860</td>
<td>19770</td>
<td>19710</td>
<td>19675</td>
<td>19620</td>
<td>19570</td>
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</table>

#### Turning Diameter [mm]

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<th>3200</th>
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<th>3700</th>
<th>3900</th>
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<th>4600</th>
<th>4900</th>
<th>5200</th>
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<tbody>
<tr>
<td><strong>Turning Circle Diameter Kerb to Kerb</strong></td>
<td>13600</td>
<td>14300</td>
<td>15200</td>
<td>15800</td>
<td>17000</td>
<td>17900</td>
<td>18800</td>
<td>19800</td>
<td>21000</td>
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<tr>
<td><strong>Turning Circle Diameter Wall to Wall</strong></td>
<td>15300</td>
<td>15900</td>
<td>16900</td>
<td>17500</td>
<td>18700</td>
<td>19600</td>
<td>20500</td>
<td>21500</td>
<td>22700</td>
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#### Plated Weights [kg]

<table>
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<tr>
<td><strong>Gross Vehicle Weight</strong></td>
<td>28100</td>
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<tr>
<td><strong>Gross Combination Weight</strong></td>
<td>44000</td>
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<td><strong>Front Axle</strong></td>
<td>7100</td>
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<tr>
<td><strong>Rear Bogie</strong></td>
<td>21000</td>
</tr>
</tbody>
</table>

#### Chassis Weights includes oil, water, 70 litres fuel and without driver. Kerb weight can vary ±1.5%.

Turning diameters are theoretically calculated.

Legal weights can differ from country to country.

For more detailed weight information, including optional equipment weights, ask your Volvo sales contact to enter your specification into the Volvo Weight Information system (WIS).

Do NOT use this drawing for bodybuilding. Refer to Volvo Bodybuilder Instructions and chassis assembly drawing 3199808.
Core components
- **CHH-STD** Approximate chassis height 1.050 - 1.150 mm
- **L1EH1** Day cab
- **L2H1** Sleeper cab
- **L2H2** Sleeper cab with roof, Globetrotter
- **L2H3** Sleeper cab with extra roof, Globetrotter XL
- **D12D380** Diesel engine, 12 litre, 380 hp, 2000 Nm, version D
- **D12D420** Diesel engine, 12 litre, 420 hp, 2000 Nm, version D
- **D12D460** Diesel engine, 12 litre, 460 hp, 2000 Nm, version D
- **D12D500** Diesel engine, 12 litre, 500 hp, 2000 Nm, version D
- **D12F390** Engine, 12 litre, 390 hp, 2040 Nm.
- **D12F430** Engine, 12 litre, 430 hp, 2160 Nm.
- **D12F500** Engine, 12 litre, 500 hp, 2400 Nm.
- **CCV-C** Closed crankcase ventilation.
- **EBR-EPG** Engine brake, exhaust pressure governor
- **EBR-VEB** Engine brake, Volvo Engine Brake (incl. exhaust pressure governor)
- **V2009** Manual range gearbox 2000 Nm, 9 speed
- **V2214** Manual split range gearbox 2200 Nm, 14 speed
- **V2412IS** I-shift, 12 speed, 2400 Nm, max. permitted GCW 44000 kg, fully automated electronically controlled gearshift and clutch, without clutch pedal.
- **V2514** Manual split range gearbox 2450 Nm, 14 speed
- **VO2214** Manual split range gearbox 2200 Nm with overdrive, 14 speed
- **VO2514** Manual split range gearbox 2450 Nm with overdrive, 14 speed
- **TP-COMF** Drive comfort gear changing software
- **TP-TECOM** Drive & fuel optimized gear changing software
- **TP-FUEC** Fuel optimized gear changing software
- **CD38B-O** Double disc clutch, diameter 380 mm
- **CD40B-O** Double disc clutch, diameter 394 mm
- **CS43B-O** Single disc clutch, diameter 430 mm
- **CS43B-OR** Single disc clutch, diameter 430 mm, reinforced; version B
- **FAL7.1** Front axle load 7.1 tonnes
- **FAL7.5** Front axle load 7.5 tonnes
- **FAL8.0** Front axle load 8.0 tonnes
- **FAL9.0** Front axle load 9.0 tonnes
- **FST-PAR** Front leaf suspension, parabolic spring
- **FST-PAR3** Front leaf suspension, stiff parabolic spring
- **FSTAB** Front stabilizer, normal stiffness
- **FSTAB3** Front stabilizer, stiff
- **RAD-DR** Rear leaf suspension (6x4/8x4), B-ride
- **RT2610HV** Rear tandem axle, hub reduction, 3 planet gear, bogie load 26 tonnes, GCW 100 tonnes
- **RTS2370A** Rear single reduction tandem, bogie load 23 tonnes, GCW 70 tonnes
- **RAL21** Bogie load 21 tonnes
- **RST-PAR** Rear leaf suspension, parabolic spring
- **RSTAB1** Rear stabilizer, normal stiffness

### Packages
- **CBL1-BA2** Easy cab package
- **CBL2-BA2** Comfort cab package
- **CBL3-BA2** Prestige cab package, Israel
- **ISCL2-BA2** Comfort cab package, Israel
- **ARC1-H1** Arctic sleeper cab (L2H1) package for one person.
- **ARC1-H2** Arctic sleeper Globetrotter cab (L2H2) package for one person.
- **ARC2-H2** Arctic sleeper Globetrotter cab (L2H2) package for two persons.
- **ARC2-H3** Arctic sleeper Globetrotter XL cab (L2H3) package for two persons.
- **ARC3-H2** Arctic sleeper/office/dinette Globetrotter (L2H2) cab package for one person.
- **ARC3-H3** Arctic sleeper/office/dinette Globetrotter XL cab (L2H3) package for one person.
- **LIV1-H1** Sleeper cab (L2H1) package for one person.
- **LIV1-H2** Sleeper Globetrotter cab (L2H2) package for one person.
- **LIV2-H2** Sleeper Globetrotter cab (L2H2) package for two persons.
- **LIV2-H3** Sleeper Globetrotter XL cab (L2H3) package for two persons.
- **LIV3-H2** Sleeper/office/dinette Globetrotter (L2H2) cab package for one person.
- **LIV3-H3** Sleeper/office/dinette Globetrotter XL (L2H3) cab package for one person.
- **AUDIO1** Audio package; cassette player & CD change function & speakers
- **AUDIO2** Audio package; CD player & CD change function & speakers
- **AUDIO3** Audio package; CD & CD change function & cassette player & speakers

### Truck use
- **ADR1** ADR adaptation, transportation of dangerous goods, 1 switch.
- **ADR2** ADR adaptation, transportation of dangerous goods, 2 switches.
- **STWPO3-L** Left hand drive
- **STWPO3-R** Right hand drive

### Chassis
- **BRAKE-DV** Volvo disc brakes
- **BRAKE-ZV** Volvo Z-cam brakes
- **EBS-MED** EBS medium package
- **EBS-STD** EBS standard package
- **ABS-EBS** ABS, Anti-lock/electronic brake system
- **ABS-WHL** ABS, Anti-lock brake system
- **FRAME77** Frame section thickness 7 mm
- **FIL-FBEB** Liner from front bogie to bogie end.
- **FIL-TXEB** Inner liner from transmission member to bogie end.
- **FRAMEHIG** Frame rail section height, 300 mm
- **FRACLLOS** Frame end closing
- **BBOX-L** Battery box on left hand side
- **2BATT170** Batteries 2x170 Ah
- **2BATT225** Batteries 2x225 Ah
- **R330071** Right aluminum 710 mm D-shaped fuel tank, 330 litres volume
- **Min volume 255l** Max volume 900l
- **UL-FUEL** Without left fuel tank
- **Min volume 165l** Max volume 730l
- **FUELTIL** Filter for breather pipe on fuel lever sender device
- **ESH-LEFT** Muffler horizontal, left exhaust outlet
- **ESH-REAR** Muffler horizontal, rear exhaust outlet
- **ESH-RIGH** Muffler horizontal, right exhaust outlet
- **ESH-VERT** Muffler vertical, exhaust outlet on right hand side
- **ESH-VERT** Muffler vertical, exhaust outlet on right hand side
- **EAS-DPF** Diesel Particulate Filter, after-treatment system.
- **EXSH-STX** Extra exhaust heat shield
- **SWCP-LF** Spare wheel carrier, on left hand side behind rear axle
- **SWCP-R** Spare wheel carrier, on left hand side behind rear axle
- **SWCP-T** Spare wheel supplied temporarily strapped to chassis
- **SWCP-TP** Temporarily spare wheel carrier on top of chassis frame
- **LUB-CENT** Central lubrication
- **WHCHOCK** Two wheel chocks
- **TB-L80** Toolbox 800 mm, left side
- **TB-R80** Toolbox 800 mm, right side
- **SUP-BAS** Standard side underrun protection
- **CHAIN-S** Snow chains
- **TOWMRBRH** Towing member, high mounted in centre of frame.
- **TOWMRBL1** Towing member, medium mounted in line with frame lower flange.

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

For all possible options and combinations of options please consult your Volvo sales contact who can create a specification to match your requirements using the Volvo Sales Support system (VSS).

The factory reserves the right to modify design and change equipment without previous notification. The specification can vary from country to country.

Ref: FH 64R B2HR 01 GLOBAL 2005-11-03 ENGLISH

Volvo Truck Corp
S-40508 Göteborg, Sweden
www.volvo.com
The specification can vary from country to country. The specification to match your requirements using the Volvo Sales Support system (VSS).

### Standard Equipment

- **C-R1040** Towing coupling, Ringfeder 2040
- **C-R1050** Towing coupling, Ringfeder 2050
- **C-R8SG** Towing coupling, Ringfeder R85G
- **C-RO400G** Towing coupling, Rockinger 400 G-150
- **C-RO500G** Towing coupling, Rockinger 500 G6
- **C-VBG070** Towing coupling, VBG 750
- **C-VBG1850** Towing coupling, VBG 850

### Rims and Tyres

- **WL-AL** Aluminium rims
- **WL-ALDU** Aluminium rims, dual holes
- **WL-ALP** Polished aluminium rims
- **WL-ALPDU** Polished aluminium rims, dual holes
- **WL-ST** Steel rims
- **SPWT-D** Spare wheel & tyre equal to drive wheel
- **SPWT-F** Spare wheel & tyre equal to front wheel
- **WCAP** Wheel caps

### Powertrain equipment

- **RET-TH** Retarder for manual gearbox
- **1COMP530** Air compressor, 530 litres per minute
- **2COMP1080** Air compressor, 1080 litres per minute
- **AIRIN-JR** Front air intake
- **AIRIN-HI** High air intake
- **AIRIN-LO** Low air intake
- **AC11ST-S** Air cleaner with additional filter element
- **24ALT-HB** High capacity alternator, Alternator 80A (D12/D13/16) / 90A (D9)
- **24ALT-XB** High capacity alternator, 110 Ampere.
- **COOLC40** Cooling capacity 40°C, ATB
- **COOLC48** Cooling capacity 48°C, ATB
- **TC-MWO** Oil cooler for mechanical transmissions, basic performance, without retarder – water/oil
- **TC-WOH** Oil cooler for mechanical transmissions, high performance, without retarder – water/oil
- **TC-RWO** Oil cooler for mechanical transmissions, integrated in the retarder heat exchanger – water/oil
- **TRAP-HD** Steel gearbox range housing, heavy duty.
- **AF-E** Auxiliary fuel filter, electrically heated
- **EST-AID** Engine start pre heating element
- **PTES-F10** Side engine mounted power-take-off with VOAC F1 Plus (F1-101) hydraulic pump
- **PTES-F41** Side engine mounted power-take-off with VOAC F1 Plus (F1-41) hydraulic pump
- **PTES-F51** Side engine mounted power-take-off with VOAC F1 Plus (F1-51) hydraulic pump
- **PTES-F61** Side engine mounted power-take-off with VOAC F1 Plus (F1-61) hydraulic pump
- **PTES-F81** Side engine mounted power-take-off with VOAC F1 Plus (F1-81) hydraulic pump
- **PTES-V45** Side engine mounted power-take-off with VOAC 45 variable hydraulic pump
- **PTES-V75** Side engine mounted power-take-off with VOAC 45 variable hydraulic pump
- **PTR-D** DIN connection PTO, low speed, manual gearbox
- **PTR-DH** DIN connection PTO, high speed, manual gearbox
- **PTR-DM** DIN connection PTO, medium speed, manual gearbox
- **PTR-FL** Flange connection PTO, high speed, manual gearbox
- **PTRD-D** PTO with 2 DIN connection rear + 1 DIN connection front, manual gearbox
- **PTRD-D1** PTO with 1 DIN + 1 flange connection rear + 1 DIN connection front, manual gearbox
- **PTRD-F** PTO with 1 flange connection, facing rear, manual gearbox
- **HGP-F101** Hydraulic pump F1-101, fixed displacement, single flow, gearbox mounted.
- **HGP-F41** Hydraulic pump F1-41, fixed displacement, single flow, gearbox mounted.
- **HGP-F51** Hydraulic pump F1-51, fixed displacement, single flow, gearbox mounted.
- **HGP-F61** Hydraulic pump F1-61, fixed displacement, single flow, gearbox mounted.
- **HGP-F81** Hydraulic pump F1-81, fixed displacement, single flow, gearbox mounted.

### Cab exterior

- **BUMP-P** Front plastic bumper without spoiler
- **BUMP-S** Front steel bumper
- **BUMP-SC** Front steel bumper, construction applications.
- **GUARD-EH** Guard plate for cooling pipes and oil sump
- **BUMP-SP** Frontumper spoiler

### Superstructure preparations

- **TBC-DUO** Duomatic trailer brake connection
- **TBC-EC** European Community trailer brake connection
- **RTRCON14** Trailer cable connection 14-pin connector.
- **RTRCON15** Trailer cable connections for ADR
- **RTRCON7** Trailer cable connections, UADR
- **RTRCON77** Trailer cable, two connections, UADR
- **RTRCONPK** Trailer cable connections preparation kit including electrical cables and trailer brake piping from cab to the rear axle(s).
- **TRBR-DBS** Electronic controlled trailer brake
- **TRBR-HCF** Hand controlled trailer brake, full pressure
- **TRBR-HCR** Hand controlled trailer brake, reduced pressure
- **WPRE-BOC** Wire preparation back of cab
- **BODATTF** Body attachments, flexible torsion
- **BODATTS** Body attachments, stiff torsion
- **BODATTFS** Body attachments, semi-flexible torsion
- **UNIFORM** Basic uniform vehicle

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

For all possible options and combinations of options please consult your Volvo sales contact who can create a specification to match your requirements using the Volvo Sales Support system (VSS).

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