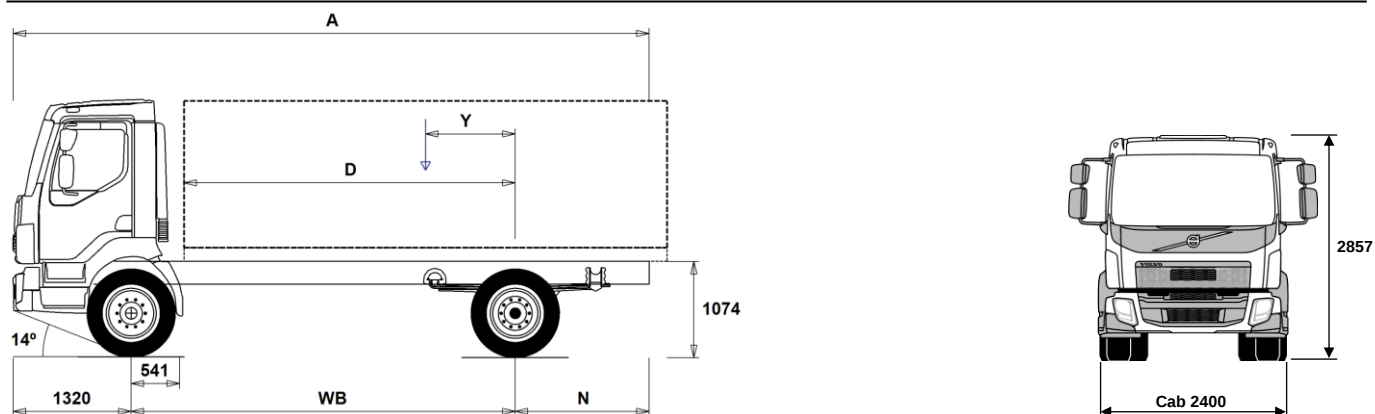


MODEL RANGE



Volvo Trucks. Driving Progress

FL818 4x2 Rigid 18 tonne - Steel Suspension FL 42 R 818L



Chassis Dimensions [mm]

WB Wheelbase	3500	3800	4100	4400	4700	5000	5300	5600	5900	6200	6500	6800
A Overall Chassis Length	6975	7425	7955	8425	8915	9435	9915	10425	10835	11430	11730	12030
D Center of rear axle to front of body	2909	3209	3509	3809	4109	4409	4709	5009	5309	5609	5909	6209
N Rear Overhang (Min)	1515	1615	1515	1615	1615	1615	1615	1615	1615	1615	1615	1615
N Rear Overhang (Max)	2155	2305	2535	2705	2895	3115	3295	3505	3615	3910	3910	3910
Y Center of Gravity for Payload (Min)	842	914	988	1060	1132	1205	1277	1350	1420	1495	1562	1631
Y Center of Gravity for Payload (Max)	1005	1091	1179	1266	1353	1440	1527	1615	1699	1789	1871	1955

Chassis Weights [kg]

Front Axle	3395	3400	3405	3410	3420	3420	3435	3435	3450	3450	3470	3480
Rear Axle	1695	1720	1745	1765	1790	1810	1840	1860	1875	1900	1915	1920
Kerb Weight	5090	5120	5150	5175	5210	5230	5275	5295	5325	5350	5385	5400
Payload (including body, driver, fuel etc)	12910	12880	12850	12825	12790	12770	12725	12705	12675	12650	12615	12600

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12300	13200	14100	15000	15800	16700	17600	18500	19400	20300	21100	22000
Turning Circle Diameter Wall to Wall	13500	14400	15300	16200	17100	17900	18800	19700	20600	21500	22400	23300

Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	18000	18000
Gross Combination Weight	18000	18000
Front Axle	7100	7100
Rear Axle	11500	11500

Important Notes

Chassis Dimensions

Front Axle to Back of Cab: +291 mm for CAB-SSLP.
D-measure includes a front clearance of 50 mm and for rigid trucks also a subframe of 120 mm.
Height can vary ± 20 mm for leaf and ± 10 mm for air suspension.
All dimensions are for unladen chassis and any tag axles down.

Weight and dimensions are based upon the following tyres:

Front Axle Tyres: 305/70R22.5
Drive Axle Tyres: 305/70R22.5

Chassis weight includes oil, water, AdBlue, 0 litres fuel and without driver. Kerb weight can vary $\pm 3\%$.

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 FL42R818L.

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CORE COMPONENTS

- **RAD-L80** 80mm parabolic rear springs
- **EU6SCR** Emission level - Euro 6
- **D8K250** D8K250 six cylinder 7.7 litre engine developing 250hp at 2100rpm.
Peak torque 950Nm at 900-1700rpm.
- **D8K280** D8K280 six cylinder 7.7 litre engine developing 280hp at 2100rpm.
Peak torque 1050Nm at 950-1700rpm.
- **EBR-CEB** Exhaust brake producing 170kW at 2800rpm controlled by steering column switch
- **EBR-EPG** Exhaust brake producing 120kW at 2800rpm controlled by steering column switch
- **AL306** Allison AL306 6-speed automatic gearbox (If a PTO is required it must specified from the factory)
- **ATO1056** 6-speed overdrive "I Sync" automated mechanical gearbox
- **ZTO1006** 6-speed overdrive gearbox
- **RSS1132A** RS1132A single reduction rear axle - design GCW 32tonne with differential lock

Packages

- **AUDADV** Audio advanced - Radio CD, two speakers, bluetooth and MP3 plugs
- **AUDBAS** Audio basic - Radio CD and two speakers
- **AUDMED** Audio medium - Radio CD and two speakers
- **AUDMED+** Audio medium plus - Radio CD, two speakers and bluetooth
- **AUDPREP** Audio preparation

CHASSIS

- **FST-PAR** Parabolic front springs with shock absorbers and anti roll bar
- **RSTAB1** Rear anti-roll bar
- **EBS-MED** EBS+ package including traction control & hill hold
- **EBS-STD** EBS standard package without traction control
- **RST-PAR1** Parabolic rear springs
- **RST-PAR3** Stiffer parabolic rear springs
- **FST7070** Frame thickness 7mm
- **FST8080** Frame thickness 8mm
- **2BATT140** 2 x 140 Ah capacity batteries on left hand side
- **2BATT170** 2 x 170 Ah capacity batteries on left hand side
- **ADR2** ADR package for transportation of dangerous goods on road (Note does NOT include safe loading pass package if required this is quoted separately)
- **R215P** 215 litre right hand plastic fuel tank
Min volume 80l
Max volume 430l
- **UL-FUEL** Without left fuel tank
Min volume 160l
Max volume 210l
- **ADTP-L** AdBlue tank on left hand side
- **ADTP-R** AdBlue tank on right hand side
- **WHC-FIX1** One wheel chock
- **WHC-FIX2** Two wheel chocks
- **TOWMBRH** Towing member, high position, mounted in centre of frame
- **C-RO40AG** Rockinger 400 G145
- **TOWF-NO1** One towing device in front.
- **TOWF-NO2** Two towing devices in front.
- **TOWR-ONE** Pintle type towing hitch attached to rear crossmember for 3.5tonne trailer
- **TREL15** Single 15 pole electrical trailer connector - ADR certified
- **TBC-EC**
- **RUP-FIX2** Fixed rear EC approved aluminium underrun

- **RFEND-T** Mudwings on drive axle for transportation only

WHEELS & TYRES

- **SPWT-F** Spare wheel & tyre with front tyre pattern
- **SWCP-LF** Spare wheel carrier on left side, in front of rear axle.
- **SWCP-R** Spare wheel carrier rear mounted below frame.
- **SWCP-T** Spare wheel supplied temporarily strapped to chassis
- **SWCP-TP** Spare wheel carrier transport mounted on frame (spare wheel carrier not included)
- **JACK-10T** 10 tonne bottle jack
- **GAUGE-TP** Tyre pressure gauge

DRIVELINE EQUIPMENT

- **CS39A-O** Single plate 395mm (16") clutch
- **RET-TPT** Retarder for automatic gearbox
- **TC-HWO** Automatic gearbox oil cooler - water to oil
- **1COMP500** Single cylinder air compressor 360 cc / 500 l/min
- **2COM1080** Two cylinder, air compressor, 1080 litres per minute
- **AIRIN-HI** High air intake behind cab on right hand side
- **AIRIN-RL** Chassis mounted mounted behind cab on right hand side
- **ACL1ST** Air cleaner with one filter element
- **ACL1ST-S** Air filter with secondary filter element
- **24AL110B** 110 amp alternator
- **24AL130B** 130 amp alternator
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- **EST-AID** Air inlet manifold starting heater element
- **PTER-100** Rear engine mounted power-take-off with DIN 7476 flange
- **PTER-DIN** Rear engine mounted PTO with DIN5462 (female) splined shaft for a close coupled pump
- **PTER1400** Rear engine mounted power-take-off with SAE 1410 flange
- **PR-HF4S** Live-drive PTO for Allison gearbox output 400Nm for flange connection mounted on the side of the torque convertor
- **PR-HF4SH** Live-drive high speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque convertor
- **PR-HF6S** Live-drive PTO for Allison gearbox output 600Nm for flange connection mounted on the side of the torque convertor
- **PR-HP4S** Live-drive PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque convertor
- **PR-HP4SH** Live-drive high speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque convertor
- **PR-HP6S** Live-drive PTO for Allison gearbox output 600Nm for hydraulic pump connection mounted on the side of the torque convertor
- **PTR-FH1** Rear PTO Gearbox S81 flange DIN connection
- **PTR-FH2** Rear PTO Gearbox S84 flange DIN connection
- **PTR-FH5** Rear PTO Gearbox S88 flange DIN connection
- **PTR-PH1** Rear PTO Gearbox S81 pump DIN connection
- **PTR-PH2** Rear PTO Gearbox S84 pump DIN connection
- **PTR-PH4** Rear PTO Gearbox S88 pump DIN connection
- **PTR-PK** Electrical and solenoid prep kit for gearbox PTO
- **PTR-ZF2** Rear Power Take Off flange DIN connection
- **PTR-ZF3** Rear Power Take Off Gearbox pump DIN connection
- **PTR-ZF4** Rear PTO Gearbox 320Nm flange connection
- **PTR-ZF5** Rear PTO Gearbox 320Nm pump connection
- **PTR-ZF6** Rear PTO Gearbox 320Nm flange connection
- **HPG-F101** Gearbox mounted hydraulic pump F1-101, fixed displacement, single flow.
- **HPG-F41** Gearbox mounted hydraulic pump F1-41, fixed displacement, single flow.
- **HPG-F51** Gearbox mounted hydraulic pump F1-51, fixed displacement,

- Standard Equipment
- Optional Equipment

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.

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- **HPG-F61** single flow.
Gearbox mounted hydraulic pump F1-61, fixed displacement,
- **HPG-F81** single flow.
Gearbox mounted hydraulic pump F1-81, fixed displacement,
- **ETC** single flow.
Electronic throttle control - dash mounted switch for PTO
speed control

CAB INTERIOR

- **STWPOS-L** Left hand drive
- **STWPOS-R** Right hand drive

CAB EXTERIOR

- **SUNV-B** Exterior sun visor - smoked grey
- **SUNV-PK** Sunvisor installation preparation kit
- **AD-ROOF** Fixed cab roof air deflector - not adjustable
- **AD-SIDES** Cab side air deflector, short extension panels.
- **BEACON-P** Beacon preparation
- **BEACON2** Two amber beacons directly mounted to cab roof

SUPERSTRUCTURE PREPARATIONS

- **FBA-BTF** Lower front body attachments for torsionally flexible - platform
body
- **FBA-BTSF** Lower front body attachments for torsionally semi-flexible body
- box or curtainsider
- **RBA-T2** Rear body attachments, divided
- **TAILPREP** Taillift preparation kit - cab switch and warning in driver display

DELIVERY SERVICES

- **WVTA** Whole Vehicle Type Approved - MANDATORY for standard
truck



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