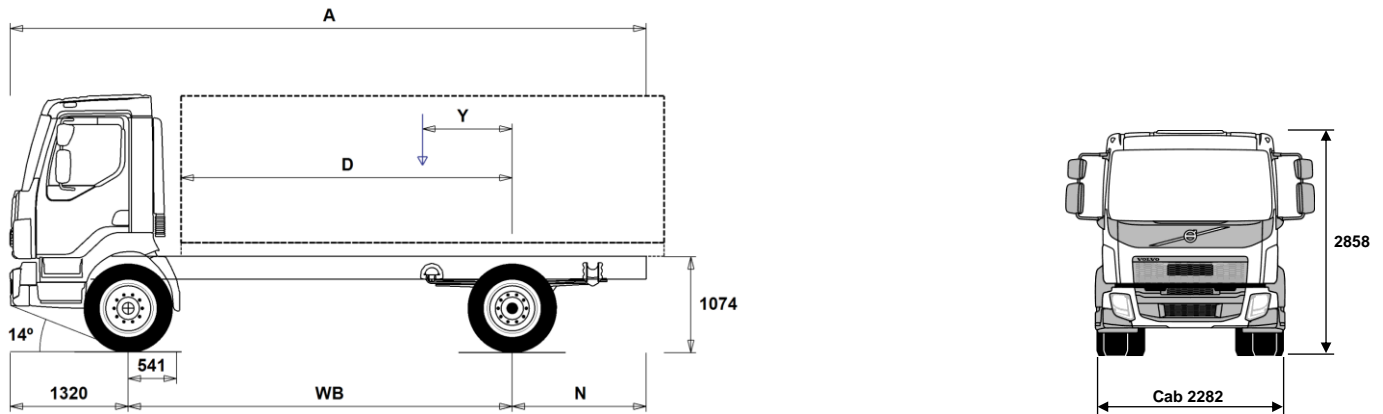


# MODEL RANGE



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.)	845	918	991	1064	1137	1211	1283	1357	1428	1503	1571	1640
Y Center of Gravity for Payload (Max.)	1007	1094	1182	1270	1357	1445	1532	1621	1706	1796	1879	1963

## Chassis Weights [kg]

Front Axle	3375	3380	3385	3390	3395	3400	3410	3415	3425	3425	3445	3455
Rear Axle	1680	1705	1730	1750	1775	1800	1830	1850	1865	1890	1910	1915
Kerb Weight	5055	5085	5115	5140	5170	5200	5240	5265	5290	5315	5355	5370
Payload (including body, driver, fuel, etc.)	12945	12915	12885	12860	12830	12800	12760	12735	12710	12685	12645	12630

## Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	13400	14300	15300	16300	17300	18200	19200	20200	21100	22100	23100	24000
Turning Circle Diameter Wall to Wall	14500	15500	16400	17400	18400	19300	20300	21300	22300	23200	24200	25200

## Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	18000	18000
Gross Combination Weight	24000	24000
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  $\pm 20$  mm for leaf and  $\pm 10$  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 be 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

- **DRIVEFL** NEW drive package FL
- **VISIFL** NEW visibility package FL
- **AIRFLOW** Airflow package
- **AUDIODAB** Digital DAB AM/FM Radio with Bluetooth - without CD player
- **AUDIOPD** Preparation for DAB radio including amplifier and aerial

## 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
- **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 of chassis ahead 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 left 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 converter
- **PR-HF4SH** Live-drive high speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque converter
- **PR-HF6S** Live-drive PTO for Allison gearbox output 600Nm for flange connection mounted on the side of the torque converter
- **PR-HP4S** Live-drive PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque converter
- **PR-HP4SH** Live-drive high speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque converter
- **PR-HP6S** Live-drive PTO for Allison gearbox output 600Nm for hydraulic pump connection mounted on the side of the torque converter
- **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
- **BEACONA2** 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

- **TGW-4G** GSM/GPRS/4G modem, WLAN for telematics gateway
- **WVTA** Whole Vehicle Type Approved - MANDATORY for standard  
truck

**VOLVO**

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