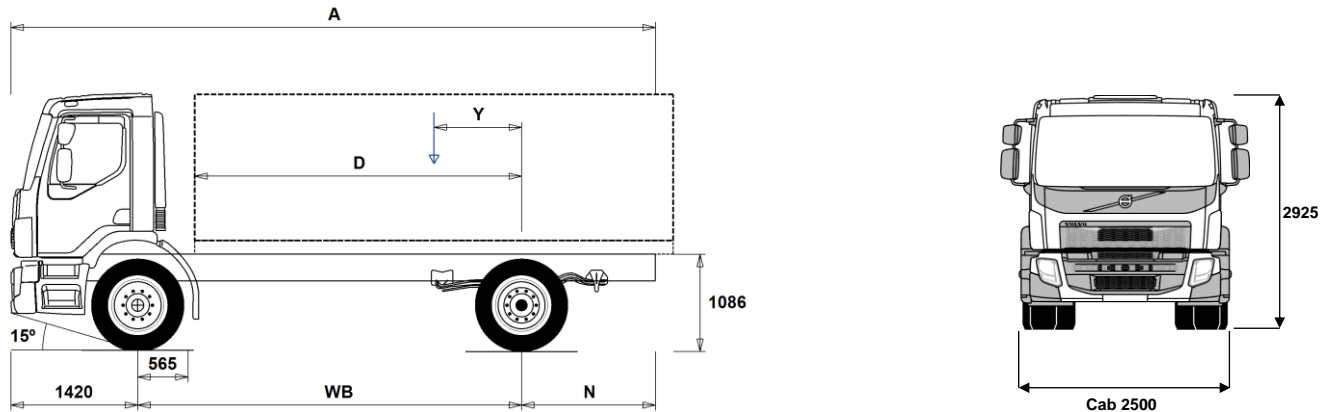


# MODEL RANGE



FE818 4x2 Rigid 18 tonne - Steel Suspension FE 42 R L

Volvo Trucks. Driving Progress



## Chassis Dimensions [mm]

WB Wheelbase	3495	3695	3895	4095	4295	4495	4745	4995	5245	5495	5795	6095	6445	6795
A Overall Chassis Length	6610	6910	7260	7560	7910	8210	8610	9010	9410	9760	10310	10760	11310	11560
D Center of rear axle to front of body	2856	3056	3256	3456	3656	3856	4106	4356	4606	4856	5156	5456	5806	6156
N Rear Overhang (Min.)	925	925	925	925	925	925	925	2595	2745	2845	3095	3245	3445	3345
N Rear Overhang (Max.)	1695	1795	1945	2045	2195	2295	2445	2595	2745	2845	3095	3245	3445	3345
Y Center of Gravity for Payload (Min.)	761	806	851	894	939	984	1040	1095	1151	1206	1271	1337	1415	1486
Y Center of Gravity for Payload (Max.)	929	983	1038	1092	1147	1201	1270	1338	1407	1474	1555	1637	1733	1821

## Chassis Weights [kg]

Front Axle	3775	3775	3770	3785	3790	3790	3790	3795	3800	3805	3820	3825	3830	3845
Rear Axle	1710	1725	1745	1785	1805	1820	1840	1870	1890	1905	1960	1980	2005	2010
Kerb Weight	5485	5500	5515	5570	5595	5610	5630	5665	5690	5710	5780	5805	5835	5855
Payload (including body, driver, fuel, etc.)	12515	12500	12485	12430	12405	12390	12370	12335	12310	12290	12220	12195	12165	12145

## Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12800	13400	14000	14700	15300	15900	16700	17400	18200	19000	19900	20800	21900	23000
Turning Circle Diameter Wall to Wall	14200	14800	15500	16100	16700	17300	18100	18900	19600	20400	21300	22200	23300	24400

## Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	18000	18000
Gross Combination Weight	24000	24000
Front Axle	7100	7500
Rear Axle	11500	13000

## Important Notes

### Chassis Dimensions

Front Axle to Back of Cab: +375 mm for CAB-SLP, +204 mm for CAB-SSLP.  
D-measure includes a front clearance of 74 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: 295/80R22.5  
Drive Axle Tyres: 295/80R22.5

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 FE42RL.

# MODEL RANGE

## FE818 4x2 Rigid 18 tonne - Steel Suspension FE 42 R L

### TRUCK USE

- **TGW-4G** Telematics gateway - GSM/GPRS/4G modem, WLAN
- **RC-ROUGH** On/off-road conditions
- **RC-SMOOT** Road Conditions - Smooth
- **GARB-PRE** Transport Adaption - Refuse preparation
- **TIPP-PRE** Transport Adaption - Tipper vehicle preparation
- **UNIFORM** Transport Adaption - Basic platform vehicle

### CORE COMPONENTS

- **CHH-HIGH** Chassis Height - High - for loading heights check the unique BEP chassis drawing
- **RAD-L90** Rear suspension - 90mm 'S' parabolic rear springs
- **CAB-DAY** Cab - Day - with steel safety cage design. Designed and built to Swedish impact and ECE R29 regulations
- **CAB-SLP** Cab - Sleeper with steel safety cage design. Designed and built to Swedish impact and ECE R29 regulations
- **CAB-SSLP** Cab - Comfort with additional storage space or optional fold up bunk behind the driver - with steel safety cage design. Designed and built to Swedish impact and ECE R29 regulations.
- **EU6SCR** Emission level - Euro VI step E
- **D8K250** Engine - D8K250 six cylinder 7.7 litre 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.
- **D8K320** Engine - D8K320 six cylinder 7.7 litre developing 320hp at 2100rpm. Peak torque 1200Nm at 1050-1600rpm.
- **D8K350** Engine - D8K350 six cylinder 7.7 litre engine developing 350hp at 2100rpm. Peak torque 1400Nm at 1200-1600rpm.
- **EBR-CEB** Engine Brake Type - Compression - producing 170kW at 2800rpm
- **EBR-EPG** Engine Brake Type - Exhaust - producing 120kW at 2800rpm
- **AL306** Gearbox - Allison AL306 6-speed automatic gearbox. If a PTO is required it must be specified from the factory
- **AT2412F** Gearbox - I-shift Automated 12-speed - suitable for gross train weights up to 44tonne
- **ZTO1006** Gearbox - Manual 6-speed overdrive
- **ZTO1109** Gearbox - Manual 9-speed range change overdrive
- **RSH1370F** Drive Axle - RSH1370F 13-tonne hub reduction with differential lock - design GCW 70 tonne
- **RSS1344C** Drive Axle - RS1344C single reduction with differential lock - design GCW 44 tonne
- **RSS1344E** Drive Axle - RSS1344E single reduction with differential lock - design GCW 44 tonne

### Packages

- **DRIVEFE** Cab Package - Drive
- **VISIFE** Visibility Package
- **AIRFLOW** Airflow Package -
- **FUELFE** Fuel Package
- **AUDIODAB** Audio System - Digital DAB AM/FM Radio with Bluetooth - without CD player
- **AUDIOPD** Audio - Preparation for DAB radio including amplifier and aerial

### CHASSIS

- **FST-PAR** Front suspension type - 2 leaf parabolic springs
- **FAL7.1** Front axle design capacity - 7.1 tonne
- **FAL7.5** Front axle design capacity - 7.5 tonne
- **FAL8.0** Front axle design capacity - 8.0 tonne - check tyre capacity
- **FAL9.0** Front axle design capacity - 9.0 tonne - check tyre capacity

- 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.

- **RAL13** Rear axle design capacity - 13 tonne
- **RSTAB1** Rear anti-roll bar - Normal stiffness
- **EBS-MED** Brake package - EBS medium including traction control & hill hold
- **EBS-STD** Brake package - EBS standard package without traction control
- **RST-PAR1** Rear suspension type - Parabolic springs
- **RST-PAR4** Short parabolic rear springs
- **ABS** Anti-lock brakes
- **FRAME300** Chassis frame section external height - 300 mm
- **FST7070** Chassis frame thickness - 7 mm web and flange
- **FST8080** Chassis frame thickness - 8 mm web and flange
- **2BATT170** Battery Capacity - 2 x 170 Ah on the left-hand side
- **2BATT225** Battery Capacity - 2 x 225 Ah on the left-hand side
- **ADR2** ADR Adaptation - For transportation of dangerous goods on the road - Note does NOT include safe loading pass package if required this is quoted separately
- **R255A56** 255 litre right hand aluminium 560 mm D-shaped fuel tank  
Min volume 160l  
Max volume 630l
- **UL-FUEL** Without left fuel tank  
Min volume 160l  
Max volume 315l
- **ADTP-L** Adblue tank position - Chassis mounted on the left-hand side
- **ADTP-R** Adblue tank position - Chassis mounted on the right-hand side
- **WHC-FIX1** Wheel chock - One fixed design
- **WHC-FIX2** Two wheel chocks
- **TB-L33** Toolbox - 58 litre - width 330mm, height 310mm, depth 660mm
- **TB-L75** Toolbox - 106 litre - width 755mm, height 430mm, depth 550mm
- **TOWMBRH** Tow member - High mounted in centre of frame, D=190 kN - Check the GCW in the "Truck Use" section of this specification
- **RFEC-S** Rear frame profile - Straight cut
- **C-RI4040** Towing coupling, Ringfeder 4040 G-150
- **C-RI5055** Towing coupling, Ringfeder 5055 G-150
- **C-RO400G** Towing coupling, Rockinger 400 G-150 for 40mm eyes
- **C-RO430G** Towing coupling, Rockinger 430 G-150
- **C-RO50** Rockinger RO 50 50mm for centre axle trailer
- **TOWR-ONE** Light trailer coupling - Pintle type hitch attached to rear cross member for an unbraked trailer
- **TBC-EC** Trailer brakes with EC palm coupling connectors
- **TRBR-STA** Stationary trailer brake control
- **RUP-FIX2** Rear underrun protection - Fixed EC approved
- **RFEND-T** Rear mud wings - Temporary on drive axle for transport delivery only
- **RFH-103** Quarter rear wing
- **RFH-BAS** Basic rear wing height
- **RFH-HIG** High rear wing height - higher wing tops
- **RFH-LOW** Lower rear wing height - shallower wing tops
- **ATANK-AL** Air tanks - Aluminium
- **ATANK-ST** Air tanks - Steel
- **FRACLOS** Frame end closing

### WHEELS & TYRES

- **RT-AL** Wheels - Alcoa brushed aluminium rims - standard holes for long stud fixing
- **RT-ALDP** Wheels - Alcoa Dura-Bright aluminium rims - standard holes for long stud fixing
- **RT-ALP** Wheels - Alcoa polished aluminium rims - standard holes for long stud fixing
- **RT-STEEL** Wheels - Steel rims

# MODEL RANGE

## FE818 4x2 Rigid 18 tonne - Steel Suspension FE 42 R L

- SPWT-F** Spare wheel & tyre - Spare with front tyre pattern
- SWCP-R** Spare wheel carrier rear mounted below frame.
- SWCP-T** Spare wheel supplied temporarily strapped to chassis
- SWCP-TP** Spare wheel transport mounted on frame, (spare wheel carrier not included)

### DRIVELINE EQUIPMENT

- TP-BAS** I-shift software - basic
- TP-DICON** I-shift software - Distribution and Construction
- TP-FUEC** I-shift software - Fuel & economy
- APF-ENH** I-shift enhanced PTO functions
- APF-ENH2** I-shift enhanced PTO functions on service brake
- CS39A-O** Clutch - Single plate 395mm (16")
- CS43B-O** Clutch - Single plate 430mm (17")
- RET-TPT** Retarder for automatic gearbox
- TC-HWO** Transmission oil cooler - water to oil
- TC-MWO** Basic transmission oil cooler - water to oil
- AIRIN-HI** Air intake - Mounted behind cab on the left-hand side
- AIRIN-RL** Air intake - Chassis mounted behind cab on the left-hand side
- ACL1ST-S** Air filter - two-stage element
- 24AL110B** Alternator capacity - 110 amp
- CCV-C** Closed crankcase ventilation
- CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
- AF-E** Auxiliary fuel system option - Electrically heated fuel filter
- EST-AID** Engine starting aid -Preheating element in the air inlet manifold
- 220EBH08** Engine block heater - 220V/0.8kW
- PTER-100** Engine power-take-off - Rear-mounted with DIN100/ISO7646 flange
- PTER-DIN** Engine power-take-off - Rear-mounted with DIN5462 (female) splined shaft for a close-coupled pump
- PTER1400** Engine power-take-off - Rear-mounted with SAE 1410 flange
- PR-HP4T** Live-drive PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on top of the torque convertor
- PR-HP4TL** Live-drive low speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on top of the torque convertor
- PR-HP6TH** Live-drive high speed PTO for Allison gearbox output 600Nm for hydraulic pump connection mounted on top of the torque convertor
- PR-HP6TL** Live-drive low speed PTO for Allison gearbox output 600Nm for hydraulic pump connection mounted on top 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-ZF4** Rear PTO Gearbox 320Nm flange connection
- PTR-ZF5** Rear PTO Gearbox 320Nm pump connection
- PTRD-D1D** PTO for I shift with twin outputs - flange (550 Nm) and pump connection (1000 Nm)
- PTRA-PH1** Add PTO for 9sp box twin S81 pump conn
- PTRA-PH2** Add PTO for 9sp box twin S84 pump conn
- 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, single flow.
- HPG-F61** Gearbox mounted hydraulic pump F1-61, fixed displacement, single flow.

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

### CAB INTERIOR

- STWPOS-L** Steering wheel position - LEFT-HAND DRIVE
- STWPOS-R** Steering wheel position - RIGHT-HAND DRIVE
- IMMOBIL** Immobiliser
- WARNLAMP** Portable warning lamp
- ALARM-B** Vehicle alarm - cab only
- WARNVEST** High visibility warning vest - no sleeves
- AIDKIT** First aid kit - Legal demand for EU markets including delivery to EU bodybuilder
- AIDKIT1B** First aid kit - Legal demand for trucks transiting Germany
- CRUIS-E2** Cruise control for I shift with Eco-Roll
- CRUISEC** Cruise control with switches in the steering wheel

### CAB EXTERIOR

- AUXFS** Extra foot step on both sides
- CF-AFS** Foldable extra front cab foot-step
- RCABS-A** Rear cab suspension - Air
- RCABS-M** Rear cab suspension - Mechanical spring
- AD-ROOFA** Adjustable roof deflector with 12 positions
- AD-SIDES** Cab side air deflector, short extension panels.
- HL-CLEAN** Head lamp cleaner
- HL-ADJ** Adjustable headlights with switch in the cab
- DRL-LED** V-shaped daytime running lights
- BEACON-P** Beacon preparation
- BEACONA2** Two amber beacons directly mounted to cab roof
- HORN-F1S** Horn - Air single tone - chassis mounted
- HORN-R2S** Horn - Air - Two roof-mounted

### SUPERSTRUCTURE PREPARATIONS

- FBA-BTF** Lower front body attachments - For torsionally flexible - platform body
- FBA-BTS** Pre-punched front body attachment holes for torsionally stiff body - tanker
- FBA-BTSF** Lower front body attachments - For torsionally semi-flexible body - box or curtainsider
- RBA-T1** Rear body attachments, plates
- RBA-T2** Rear body attachments - Divided
- HBA-FSFB** Holes for body attachments - flexible/semi-flexible body
- HBA-SB** Holes for body attachments - stiff body
- TAILPREP** Taillift preparation kit - cab switch and warning in driver display

### DELIVERY SERVICES

- WVTA** EC Whole Vehicle Type Approved

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.

# MODEL RANGE

FE818 4x2 Rigid 18 tonne - Steel Suspension FE 42 R L

---

**V O L V O**

Volvo Truck Corporation  
[volvotrucks.com](http://volvotrucks.com)