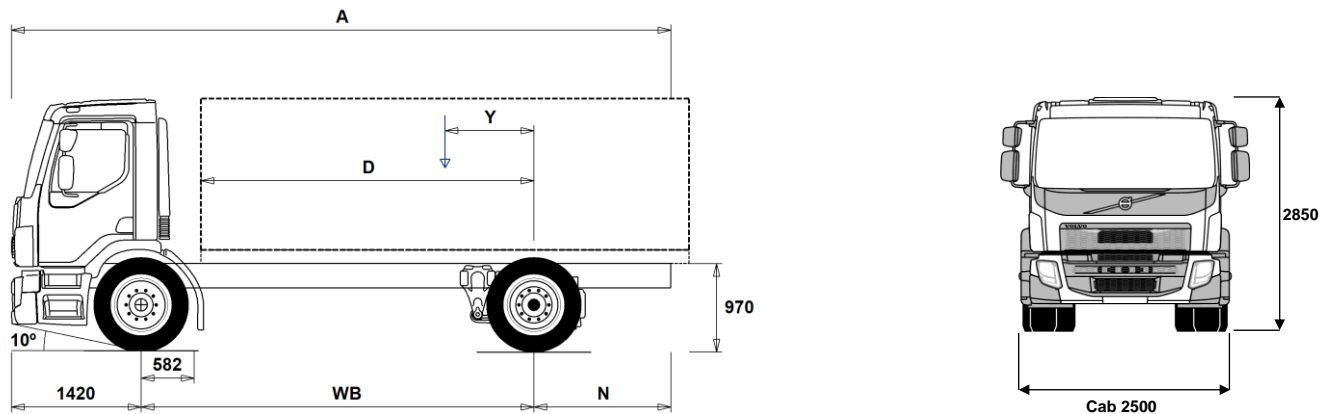


MODEL RANGE



FE818 4x2 Platform 18 tonne - Rear Air Suspension FE 42 R A Volvo Trucks. Driving Progress



Chassis Dimensions [mm]

WB Wheelbase	3500	3700	3900	4100	4300	4500	4750	5000	5250	5500	5800	6100	6450	6800
A Overall Chassis Length	6610	6910	7260	7560	7910	8210	8610	9010	9410	9810	10310	10760	11310	11560
D Center of rear axle to front of body	2844	3044	3244	3444	3644	3844	4094	4344	4594	4844	5144	5444	5794	6144
N Rear Overhang (Min.)	640	640	640	640	640	640	640	2590	2740	2890	3090	3240	3440	3340
N Rear Overhang (Max.)	1690	1790	1940	2040	2190	2290	2440	2590	2740	2890	3090	3240	3440	3340
Y Center of Gravity for Payload (Min.)	726	769	814	855	898	942	996	1049	1104	1157	1221	1283	1359	1427
Y Center of Gravity for Payload (Max.)	895	948	1002	1054	1108	1161	1228	1294	1361	1428	1507	1585	1679	1765

Chassis Weights [kg]

Front Axle	3920	3915	3910	3925	3925	3920	3920	3930	3925	3930	3940	3955	3955	3965
Rear Axle	1645	1660	1685	1725	1745	1765	1785	1815	1835	1855	1900	1935	1955	1965
Kerb Weight	5565	5575	5595	5650	5670	5685	5705	5745	5760	5785	5840	5890	5910	5930
Payload (including body, driver, fuel, etc.)	12435	12425	12405	12350	12330	12315	12295	12255	12240	12215	12160	12110	12090	12070

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12800	13400	14100	14700	15300	15900	16700	17400	18200	19000	19900	20800	21900	23000
Turning Circle Diameter Wall to Wall	14200	14900	15500	16100	16700	17300	18100	18900	19600	20400	21300	22300	23300	24400

Plated Weights [kg]

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

Important Notes

Chassis Dimensions

Front Axle to Back of Cab: +358 mm for CAB-SLP, +196 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 ± 20 mm for leaf and ± 10 mm for air suspension.
 All dimensions are for unladen chassis and any tag axles down. Chassis height used: CHH-MED.
 Height change when chassis height CHH-HIGH,FRAME300: +17 mm.

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 FE42RA.

MODEL RANGE

FE818 4x2 Platform 18 tonne - Rear Air Suspension FE 42 R A

TRUCK USE

- **TGW-4G** Telematics gateway - GSM/GPRS/4G modem, WLAN
- **FELECD** Volvo FE Low entry cab 2 person with engine tunnel diesel
- **FELECFDD** Volvo FE Low entry cab 4 person
- **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
- **CHH-LOW** Chassis Height - Low - for loading heights check the unique BEP chassis drawing
- **CHH-MED** Chassis Height - Medium - for loading heights check the unique BEP chassis drawing
- **RAD-KR** Rear suspension - Air 2 bag design
- **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** Engine - 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

- 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.

- **FST-AIR** Front suspension type - Air
- **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
- **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-AIR** Rear suspension type - Air
- **RST-AIR5**
- **ABS** Anti-lock brakes
- **SUSPL-E2** Air suspension levelling control - Remote control on wander-lead
- **SUSPL-E4** Air suspension levelling control - Integra dash switches
- **FRAME266** Chassis frame section external height - 266 mm
- **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-B** Three piece rear mudwings
- **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

MODEL RANGE

FE818 4x2 Platform 18 tonne - Rear Air Suspension FE 42 R A

- 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
- 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.

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MODEL RANGE

FE818 4x2 Platform 18 tonne - Rear Air Suspension FE 42 R A

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