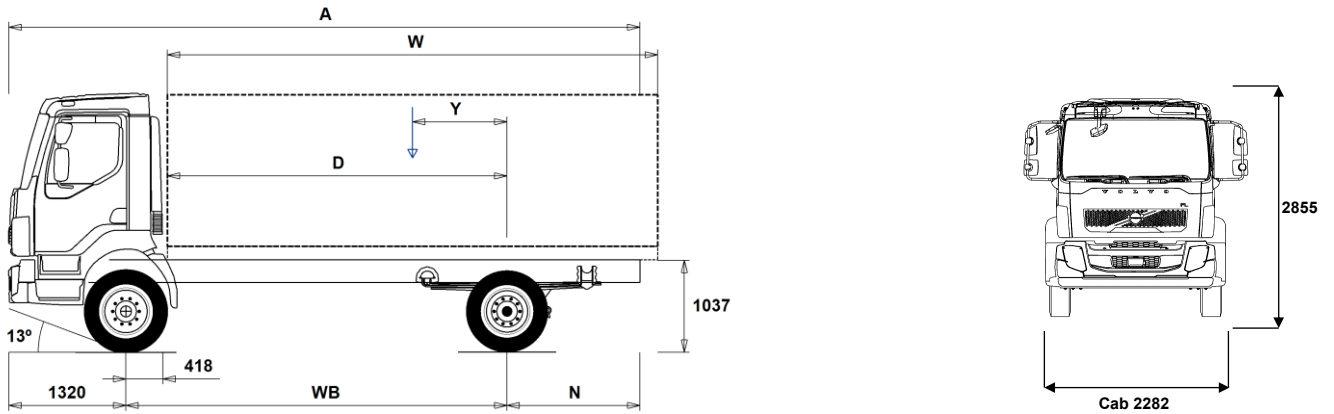


MODEL RANGE

FL 42R GVW18 8L leaf 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	3032	3332	3632	3932	4232	4532	4832	5132	5432	5732	6032	6332
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.)	838	909	979	1049	1120	1191	1260	1331	1398	1472	1536	1602
Y Center of Gravity for Payload (Max.)	1002	1087	1172	1257	1342	1427	1511	1598	1680	1768	1848	1929
W Body Length (Min.)	4060	4490	4920	5351	5781	6209	6641	7069	7504	7928	8369	8807
W Body Length (Max.)	4387	4847	5305	5765	6224	6683	7144	7602	8067	8520	8992	9459

Chassis Weights [kg]

Front Axle	3430	3440	3450	3460	3475	3480	3495	3500	3515	3520	3540	3550
Rear Axle	1750	1765	1790	1800	1820	1840	1865	1885	1900	1920	1935	1940
Kerb Weight	5180	5205	5240	5260	5295	5320	5360	5385	5415	5440	5475	5490
Payload (including body, driver, fuel, etc.)	12820	12795	12760	12740	12705	12680	12640	12615	12585	12560	12525	12510

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	13100	14000	14900	15900	16800	17800	18700	19700	20600	21500	22500	23400
Turning Circle Diameter Wall to Wall	14200	15100	16100	17000	18000	18900	19900	20800	21700	22700	23600	24600

Plated Weights [kg]

	Design
Gross Vehicle Weight	18000
Gross Combination Weight	21000
Front Axle	7100
Rear Axle	11500

Important Notes

Chassis Dimensions

Front Axle to Back of Cab: +400 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: 315/60R22.5
 Drive Axle Tyres: 295/60R22.5

Chassis weight includes oil, water, AdBlue, 0 litres fuel and without driver. Kerb weight can vary ± 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.

MODEL RANGE

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Core components

- **RAD-L80** Rear leaf suspension - one axle, driving (80 mm wide leaves)
- **FL-DAY2** FL Day cab
- **FL-SSLP2** FL Comfort cab
- **EU6SCR** Euro 6 with SCR, particulate filter and EGR, Turbo-S
- **D8K250** Diesel engine, Euro 6, 7.7 litres, 250 hp/184 kW, 950 Nm
- **D8K280** Diesel engine, Euro 6, 7.7 litres, 280 hp/206 kW, 1050 Nm
- **AL306** Automatic 6-speed gearbox, 1695 Nm
- **ATO1056**
- **EBR-CEB** Engine compression and exhaust brake
- **EBR-EPG** Engine brake with exhaust pressure governor
- **RSS1132A** Rear single reduction solo axle - axle load 11 tonnes, GCW 32.5 tonnes

Packages

- **AUDIODAB** Audio system with DAB radio and DAB amplifier
- **AUDIOPD** Preparation kit for DAB radio, including DAB amplifier

Chassis

- **FST-PAR** Two-leaf front parabolic springs (normal stiffness)
- **RSTAB1** Rear anti-roll bar, normal stiffness
- **EBS-MED** EBS (Electronic Braking System), Medium package
- **RST-PAR1** Rear parabolic leaf springs
- **RST-PAR3** Three-leaf parabolic rear springs, stiffer than normal
- **FST7070** Frame thickness - web 7.0 mm / flange 7.0 mm
- **FST8080** Frame thickness - web 8.0 mm / flange 8.0 mm
- **2BATT170** Batteries, 2x170 Ah
- **ADR2** ADR adaptation, 1 switch in dashboard, 1 outside on back of cab
- **R80P** Right 80-litre plastic fuel tank
Min volume 80l
Max volume 430l
- **UL-FUEL** Without left side 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 non-collapsible wheel chock
- **WHC-FIX2** Two non-collapsible wheel chocks
- **TOWMBRH** Towing member, high-mounted in centre of frame
- **C-RO40AG** Towing coupling Rockinger 400 G-145
- **TOWF-NO1** One front towing device
- **TOWF-NO2** Two front towing devices
- **TOWR-ONE** Rear towing device in frame-end cross member
- **TREL15** 15-pin trailer connection (ADR certified)
- **TBC-EC** Trailer brake connection, European Community
- **RUP-FIX2**
- **RFEND-T** Transport mudguard

Rims and tyres

- **RT-AL** Brushed aluminium rims with standard holes (long stud fixing) on all axles
- **RT-ALDP** Dura-Bright® polished aluminium rims with standard holes (long stud fixing) on all axles
- **RT-STEEL** Steel rims on all axles
- **SPWT-F** Spare front wheel
- **SWCP-LF** Spare wheel carrier on left side in front of rear axle
- **SWCP-R** Spare wheel carrier mounted behind rear axle
- **SWCP-TP** Spare wheel and carrier transport-mounted on top of frame

- **JACK-10T** Hydraulic jack, 10 tonnes. Low manual pumping force facilitates use in uncomfortable positions. Has a release valve, which permits safe, easy and precise control over rate of lowering and a filter in the oil reservoir gives protection from contamination. Colour RAL 9004. Height 200-518 mm, weight 9,2 kg

- **GAUGE-TP** Tyre pressure gauge

Powertrain equipment

- **CS39A-O** Single-plate clutch, plate diameter 395 mm
- **RET-TPT** Gearbox-mounted Powertronic primary retarder
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **1COMP500** Single-cylinder air compressor 360 cc, 500 l/min
- **2COM1080** Dual-cylinder air compressor 704 cc, 1080 l/min
- **AIRIN-HI** High air inlet
- **AIRIN-RL** Low air inlet, chassis mounted behind cab on left-hand side
- **ACL1ST** Air cleaner with one filter element
- **ACL1ST-S** Air cleaner with extra filter element
- **24AL110B** Alternator 110 Ampere
- **24AL130B** Alternator 130 Ampere
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open extended crankcase ventilation with oil separator and maintenance-free gas centrifuge
- **EST-AID** Engine intake air heater
- **PTER-100** Rear engine, clutch-independent PTO, flange connection, DIN 100/ISO 7646
- **PTER-DIN** Rear engine, clutch-ind. PTO, splined shaft groove (fem), close-coupled pump DIN 5462/ISO7653
- **PTER1400** Rear engine, clutch-independent PTO, flange connection, SAE 1410/ISO 7647
- **PR-HF4S** Rear gearbox (side) PTO, flange connection
- **PR-HF4SH** Rear gearbox (side) PTO, flange connection, high-speed
- **PR-HF6S** Rear gearbox (side) PTO, flange connection
- **PR-HP4S** Preparation kit for rear, side-mounted gearbox PTO, pump connection, 400 Nm
- **PR-HP4SH** Rear gearbox PTO, pump connection, side-mounted, high-speed
- **PR-HP6S** Preparation kit for rear, side-mounted gearbox PTO, pump connection, 600 Nm
- **PTR-FH1** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft 800 Nm
- **PTR-FH2** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 430 Nm
- **PTR-FH5** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 450 Nm
- **PTR-PH1** Rear gearbox PTO Hydrocar S81, connection DIN 5462/ISO 7653 for pump, 800 Nm
- **PTR-PH2** Rear gearbox PTO Hydrocar S84, connection DIN 5462/ISO 765 for pump, 430 Nm
- **PTR-PH4** Rear gearbox PTO Hydrocar S88, connection DIN 5462/ISO 7653 for pump, 450 Nm
- **PTR-PK** Preparation kit for rear gearbox PTO
- **PTR-ZF2** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 410 Nm
- **PTR-ZF3** Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 410 Nm
- **PTR-ZF4** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 320 Nm
- **PTR-ZF5** Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 320 Nm
- **PTR-ZF6** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 270 Nm
- **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

- 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** Gearbox-mounted hydraulic pump F1-61, fixed displacement, single flow
- **HPG-F81** Gearbox-mounted hydraulic pump F1-81, fixed displacement, single flow
- **ETC** PTO speed control 900-1500 rpm with dash-mounted switch

Cab interior

- **TAS-DIG4** Gen 4 one-day digital tachograph, EC approved (GNSS & DSRC, EU 2020/1054)
- **TSRS2** Road sign recognition (not ISA compliant)

Cab exterior

- **SUNV-B** Exterior front sun visor, transparent dark-grey
- **AD-SIDES** Cab side air deflectors, short
- **BEACON-P** Preparation kit for roof beacons
- **BEACONA2** Two amber LED beacons on cab front roof

Superstructure preparations

- **FBA-BTF** Front body attachment brackets, lower, for flexible body
- **FBA-BTSF** Front body attachment brackets, lower, for semi-flexible body
- **RBA-T2** Rear body attachment brackets, lower
- **TAILPREP** Tail lift preparation kit

Services

- **TGW-4G**