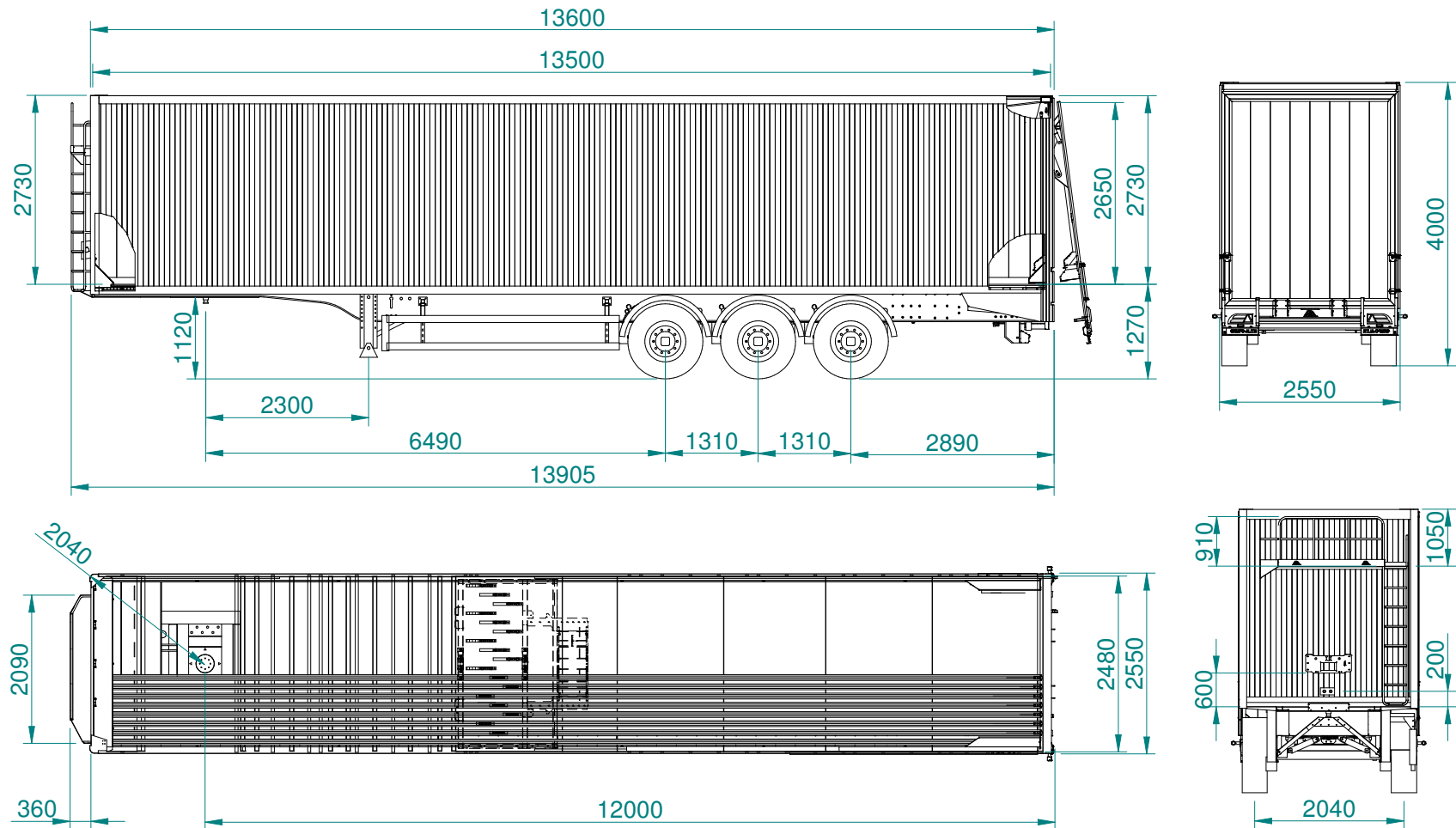


FULL DATA SHEET

LP2 - LEAK PROOF SEMI



Characteristic	Value	Observations
Useful volume (m ³)	91,4 m ³	Useful volume. Interior dimensions: 13.500 x 2.480 x 2.730 mm (long x width x high).
Empty weight (kg)	8.220	Vehicle weight. See equipment on next page.
TPMM (kg)	41.000	Vehicle total. (Technically Permissible Maximum Mass).
TPMM pivot (kg)	16.000	Standard pivot 2", class H50-X.
TPMM axles 1-2-3 (kg)	9.000	Tires 385/65 R22,5, rim offset.
European Homologation TIPO	S3NB	e9*2007/46*0557*01.

LP2-1 CHASSIS SEMITRAILER ALITE (TPMM 41.000 kg)

LP2-1.1 Aluminium chassis with 450 mm frames in double T in AL6005 T6 extrusion in one piece. Self-supporting chasis neck construction.

LP2-1.2 Fifth wheel locking design for a 1.120 mm height from the floor. Range of run: 1.100 a 1.150 mm. Technically Permissible Maximum Mass: TPMM = 16.000 kg. Bolt-on fifth wheel plate in 10 mm thick S355 JR steel. Internal reinforcement plate welded to both chassis beams in the neck area of 150x15 mm in AL6082 T6. 10 mm thick coupling pivot bridge crosspieces in AL5754 H111 folded sheet metal.

LP2-1.3 Three (3) axles BPW ECOPLUS III with disc brake. Technically Permissible Maximum Mass: TPMM 1°-2°-3° = 9.000 kg per axle.

- Distance King Pin - 1st axis: 6.490 mm
- Distance 1st - 2nd axle: 1.310 mm
- Distance 2nd - 3rd axle: 1.310 mm
- Rear overhang: 2.890 mm

OPTIONS

OP LP2-1.3_01 Change 3rd axle fixed for self-directional BPW ECOPLUS III. 1st and 2nd AIRCOMPACT EAAM L2 (FH 235-305 mm) + 3rd AIRLIGHT II ALULL L2 (FH 270-300 mm). (+189,5 kg)

OP LP2-1.3_01.01 Add BPW ARC (Active Reverse Control) in self-directional axle. (+45,0 kg)

OP LP2-1.3_01.01.1 Add radio control for BPW ARC (Active Reverse Control).

OP LP2-1.3_02 Add BPW AIRSAVE self-pumping system mounted in three (3) ECOPLUS axles 9-12 tn. (+3,45 kg)

LP2-1.4 BPW ECO AIRCOMPACT integral pneumatic suspension (ACAU L1 FH 215-255 mm).

LP2-1.5 Third axle elevator with automatic control. Up and down control by the EBS ECU.

OPTIONS

OP LP2-1.5_01 Add automatic liftable axes 1st. (+23,3 kg)

LP2-1.6 Six (6) CHT3 CONTINENTAL tyres, dimensions 385/65R 22,5"

OPTIONS

OP LP2-1.6_01 Change tire CONTINENTAL CHT3 385/65 R22,5 to 6 MICHELIN X MULTI T 385/65 R22,5

LP2-1.7 Six (6) painted steel rims offset by pumping B=120 mm.

OPTIONS

OP LP2-1.7_01 Change to 6 ALCOA DURABRIGHT rims B=120 mm. (-68,0 kg)

OP LP2-1.7_02 Change to 6 SPEED LINE DIAMANTE rims B=120 mm. (-65,0 kg)

LP2-1.8 One (1) screw-type spare wheel support without wheel.

OPTIONS

OP LP2-1.8_01 Add one (1) wheel support.

LP2-1.9

HALDEX GEN3 + EBS 4S/2M pneumatic brake system with mechanical suspension:

- InfoCentre 2 panel to control suspension and brake parameters. Scale function among others.
- COLAS leveling valve:
 - o Dead man function, RoRo function (Roll-on, Roll-off).
 - o RTR function for automatic repositioning of ride height when starting the vehicle movement.
- TrCM (Trailer Control Module) parking valve.
- Six (6) brake pad wear sensors.
- Overflow valve for suspension circuit.
- Coupling heads with filter and pressure tap according to ISO 1728.
- ISO 7638 connector. Power supply by additional stoplight.

OPTIONS

OP LP2-1.9_01

Change HALDEX 4S/2M GEN3+ to the WABCO 4S/2M with electronic suspension:

- ECU EBS WABCO Premium.
- Lever for manual regulation of electronic suspension eTASC with solenoid valve for automatic regulation of the height of the suspension in running condition.
- Three (3) programmable suspension heights. OPTILEVEL.
- SmartBoard control panel for suspension parameters.
- Two (2) LACV lift axle controls.
- Brake pad wear sensor on all wheels.
- Coupling heads with filter and pressure tap according to ISO 1728.
- ISO 7638 connector. Power supply by additional stoplight.

OP LP2-1.9_02

Change HALDEX 4S/3M GEN3+ to the WABCO 4S/2M with electronic suspension + OPTITURN / OPTILOAD (3rd modulator)

- ECU EBS WABCO Premium.
- Lever for manual regulation of electronic suspension eTASC with solenoid valve for automatic regulation of the height of the suspension in running condition.
- Three (3) programmable suspension heights. OPTILEVEL.
- SmartBoard control panel for suspension parameters.
- Two (2) LACV + LAVic lift axle controls.
- 3rd modulator with pneumatic bellows pressure sensor for activate the OPTILOAD or OPTITURN function.
- Brake pad wear sensor on all wheels.
- Coupling heads with filter and pressure tap according to ISO 1728.
- ISO 7638 connector. Power supply by additional stoplight.

LP2-1.10 Three (3) 60 L aluminium tanks, diameter d396 x 592 mm with supports. Two (2) brake tanks + one (1) suspension tank.

LP2-1.11 Two (2) BPW 2 speed mechanical type painted steel support feet.

OPTIONS

OP LP2-1.11_01 Change steel legs to manual aluminium support legs 650-800 BALTECH / ALU-LEG / PLASTECHNIC.

LP2-1.12 Fixed anti-underrun device (bumper) in anodized aluminium ALA-ALU according to Regulation 58.

OPTIONS

OP LP2-1.12_01 Change anti-embedment WING-ALU for WING-E (extendable manual).

OP LP2-1.12_02 Change anti-embedment WING-ALU for WING-R (automatic folding).

LP2-1.13 Six (6) integral mudguards in polypropylene with anti-splash system valances according to Regulation 109.

LP2-1.14 Drop side lateral under-run protections with anodised aluminium bars.

LP2-1.15 One (1) 1.000 mm tools drawer in PVC. One (1) water tank with soap dispenser in PVC. Two (2) empty drawers of fire extinguishers in PVC, on configuration A1, B1, A2 or B2.

OPTIONS

OP LP2-1.15_01 Add plastic toolbox 1.000 mm with brackets (C=450).

**POSSIBLE MOUNTING CONFIGURATIONS:
A1 AND B1 FOR DRIVING ON THE RIGHT / A2 AND B2 FOR DRIVING ON THE LEFT:**

A1 Right driving vehicle WITHOUT hydraulic accessories

LEFT SIDE IN RUNNING ORDER:

- o Water tank.
- o Suspension lever.
- o Brake control.
- o Moving floor control panel.
- o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.

RIGHT SIDE IN RUNNING ORDER:

- o Lever for operating the legs.
- o Spare wheel holder.
- o One (1) tool drawer in the central rear part integrated in the cyclist life-saving.
- o One (1) rear mounted horizontal extinguisher drawer.
- o Ladder with 12-14 aluminium rungs with support for cyclists.
- o Pole for tarpaulin at the back.

NOTES:

1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the left side on the overhang.
2. When a 2nd spare wheel carrier is mounted, it will be mounted on the rear right side of the overhang.

B1 Right driving vehicle WITH hydraulic accessories**LEFT SIDE IN RUNNING ORDER:**

- o Water tank.
- o Suspension lever.
- o Brake control.
- o Moving floor control panel.
- o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.
- o One (1) hydraulic accessories control cabinet.

RIGHT SIDE IN RUNNING ORDER:

- o Lever for operating the legs.
- o Spare wheel holder.
- o One (1) tool drawer in the central rear part integrated in the cyclist life-saving.
- o One (1) rear mounted horizontal extinguisher drawer.
- o Ladder with 12-14 aluminium rungs with support for cyclists.
- o Pole for tarpaulin at the back.

NOTES:

1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the left side on the overhang.
2. When a 2nd spare wheel carrier is mounted, it will be mounted on the rear right side of the overhang

A2 Left driving vehicle WITHOUT hydraulic accessories**LEFT SIDE IN RUNNING ORDER:**

- o Lever for operating the legs.
- o Spare wheel holder.
- o One (1) tool drawer in the central rear part integrated in the cyclist life-saving.
- o One (1) rear mounted horizontal extinguisher drawer.
- o Ladder with 12-14 aluminium rungs with support for cyclists.
- o Pole for tarpaulin at the back.

RIGHT SIDE IN RUNNING ORDER:

- o Water tank.
- o Suspension lever.
- o Brake control.
- o Moving floor control panel.
- o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.

NOTES:

1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the right side on the overhang.
2. When a 2nd spare wheel carrier is mounted, it will be mounted on the rear left side of the overhang.

B2 Left driving vehicle WITH hydraulic accessories**LEFT SIDE IN RUNNING ORDER:**

- o Lever for operating the legs.
- o Spare wheel holder.
- o One (1) tool drawer at the rear on the overhang.
- o One (1) rear mounted horizontal extinguisher drawer.
- o One (1) hydraulic accessories control cabinet.

RIGHT SIDE IN RUNNING ORDER:

- o Water tank.
- o Suspension lever.
- o Brake control.
- o Moving floor control panel.
- o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.
- o Ladder with 12-14 aluminium rungs with support for cyclists.
- o Pole for tarpaulin at the back.

NOTES:

1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the right side on the overhang.
2. When a 2nd spare Wheel carrier is mounted, it will be mounted in the central part on the right side.

LP2-1.16

Lightening mechanism and light signals according to the Regulation 48 with Aspöck Ecoled II rear lights Led markers. Folding protections for the lights in aluminium integrated in the rear of the vehicle.

OPTIONS

OP LP2-1.16_01	Add two (2) working rear light led reverse gear + selector.
OP LP2-1.16_02	Add two (2) led work headlights in central part on each side under the front safety support + reverse selector.

LP2-1.17

Chassis finished in non-anodised raw aluminium.

OPTIONS

OP LP2-1.17_01	Imp. epoxy finish + acrylic water pain RAL.
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LP2-2 OPEN BODYWORK WITH INTEGRAL FIXED SIDES IN ALUMINIUM (91,4 m³)

LP2-2.1

Integral aluminium fixed sides open bodywork construction. Outer dimensions: 13.650 mm (length) x 2.550 mm (width) and 2.730 mm of usable inner height. Fully usable volume of 91,4 m³. Maximum ground height 4.000 mm for fifth wheel locking at 1.150 mm.

OPTIONS

OP LP2-2.1_01	Body length reduction by linear meter. (-233,0 kg/m). Range 10.000 - 13.650 mm.
OP LP2-2.1_02	Body height variation by linear meter. (\pm 442 kg/m). Range: 1.400 - 3.200 mm

LP2-2.2

AL6005 T6 Alloy aluminium panels with tongue-and-groove joint system boards. 300 x 30 x 2,25 / 1,85 (width x thickness x inner / outer thickness).

OPTIONS

OP LP2-2.2_01	Change panels 300 x 30 x 2,25 / 1,85 mm for 350 x 30 x 3,0 / 2,5 mm. (+136,0 kg).
OP LP2-2.2_02	Add inner complete reinforcement on both sides 13.500 x 1.500 x 3 mm AL5754 H111 (40,5 m ²). (+328,0 kg).
OP LP2-2.2_03	Add inner complete reinforcement on both sides 9.000 x 1.500 x 4 mm AL5754 H111 (27,0 m ²). (+218,7 kg).
OP LP2-2.2_04	Add inner complete reinforcement on both sides 6.000 x 1.500 x 4 mm AL5754 H111 (20,0 m ²). (+162,0 kg).

LP2-2.3

Floor made of 6 mm thick AL5754 H111 aluminium plate welded on 80 mm high asymmetrical double T-beams in AL6082 T6. Continuous floor with grooves in the central area for fastening the slats with the movement units.

LP2-2.4	ALITE HEAVY DUTY hydraulic moving floor system with 18 aluminium slats in AL6082 T6 impact with 7 thick + 6.5 mm in two (2) projections. Assembly of the sheet on continuous 10 mm thick polyethylene plates mounted on a double T-shaped aluminium base welded to the floor. Mounting of the machine in the central part of the semi-trailer between the crossbeams and underneath the floor plate. Floor system with a maximum of 30 mm watertight closure above the sheet metal floor.
LP2-2.5	Lower band of curved type reinforced in aluminium AL6082 T6.
LP2-2.6	Upper profile for closing handrail with integrated rail reinforced in AL6082 T6.
	OPTIONS
	OP LP2-2.6_01 Additional profile of reinforcement U 100x50x4 mm 13,6 m in steel galvanized in the right handrail. (+65,0 kg).
	OP LP2-2.6_02 Additional profile of reinforcement U 100x50x4 mm 13,6 m in steel galvanized in the left handrail. (+65,0 kg).
LP2-2.7	Inside standard tarpaulin wall on a bar with two stainless steel pulleys with dismountable bearing.
	OPTIONS
	OP LP2-2.7_01 Change to loose sweeper canvas with manual tape on the front. Without pulley.
	OP LP2-2.7_02 Change to loose canvas with telescopic bar. Without pulley.
	OP LP2-2.7_03 Aluminium front sweep panel with inf. canvas + lat. rubber joint. Inside wall hung on stainless steel carts. (+112,8 kg).
LP2-2.8	Full height fixed front in aluminium with catwalk at 1.050 mm from the handrail and with maximum dimensions according to Regulations. Access ladder on the left side in running order. 910 mm high railing.
LP2-2.9	ALITE hydraulic rear door of watertight type with hydraulic drive. Control panel with electrical and manual emergency operation.
LP2-2.10	Hydraulic closing system of the rear door with six (6) synchronised bolts. Opening and closing with a single button per manoeuvre.
LP2-2.11	Arch system for butterfly roof. <ul style="list-style-type: none"> ▪ Two (2) steel-type arches painted by tube 120x80x6 mm S275 JR: <ul style="list-style-type: none"> o Equidistant assembly leaving three (3) equal gaps. o Reinforced bolted brackets and mounting bars with 30 mm diameter reinforced bolts.

LP2-2.11**OPTIONS**

- OP LP2-2.11_01 Change butterfly roof arches system (standard version):
- Two (2) black anodized 60x50 mm AL6082 T6 straight aluminium arches with removable side bolt fixing at both ends:
 - o First (1st) and second (2nd): centred leaving 3 equal holes.
 - Three (3) 6x8 mm coated steel cables with turnbuckles and hooks:
 - o First (1st), second (2nd) and third (3rd): mounted in the centre or each hole with folding stainless steel rings welded to the handrail.
- OP LP2-2.11_02 System 5 arches in black anodized ALITE extrusion aluminium tube of section 60x50 mm, quality AL6082 T6. Arches folding towards the top and rotating laterally. Standard version:
- First (1st): straight without detachable type point with pin.
 - Second (2nd), third (3rd) and fourth (4th): 50 mm high centre point, rotating and folding upwards.
 - Fifth (5th): straight without point, rotating and folding upwards.

LP2-2.12

- Hydraulic butterfly-type roof with 680 g/m² canvas, RAL chart. B1 or B2 configuration.
- Operation by 4 double acting hydraulic cylinders with chains and blocking valve.
 - Screw mounting.
 - Integral wings in aluminium. Manual locking control of the wings.
 - Hydraulic system with manual and electric distributor.
 - Control block with limiter and emergency stop valve. With drive speed regulator.

OPTIONS

- OP LP2-2.12_01 Remove roof tarpaulin. (-450,0 kg).
- OP LP2-2.12_02 Change butterfly roof canvas for gray butterfly roof mesh.
- OP LP2-2.12_03 Add canvas colour RAL + white centre stripe.

COLOUR	RAL	RAL	RAL	RAL	RAL	RAL	OTHER
BLUE	5012	5015	5010	5002	5003	5013	EUROPA 941
YELLOW	1013	1015	1014	1018	1021	1003	
GREEN	6005	6028	6026	6018			
GRAY	7035	7038	7037				
ORANGE	2008	2004					
RED	3020	3002					
WHITE	9010	9016					
BROWN	8017						
ALUMINUM	9006						
BLACK	9005						

LP2-2.12	OPTIONS	
	OP LP2-2.12_04	Change of hydraulic butterfly roof for in opener roll up 680 g/m ² canvas top, with fall of 600 mm on the left side in running order and fixed on the right side. Colour according to RAL guide. Four (4) tensing ratchets on the left side and two (2) on the right side in running order for the tarpaulin belts. Four (4) ALITE aluminium swing-away spring-loaded bayonets mounted on the right side in running order. Two (2) inner reinforcing tubes in the centre at 550 mm between them, 3/4" galvanized iron pipe. (-315,0 kg).
	OP LP2-2.12_05	Change in drop of the canvas from the canopy: 600 mm drop on the right side in running order and fixed with pawls on the left side.
	OP LP2-2.12_06	Add roll-up can opener mesh.
	OP LP2-2.12_07	Add mesh to cover load 15.000 x 5.000 mm + hooks to welded on band.
	OP LP2-2.12_08	Change of hydraulic butterfly roof for CRAMARO Cabriolé type C manual + elec + radio. (-160,0 kg). <ul style="list-style-type: none"> ▪ Electric drive with manual control panel and radio control. ▪ 680 g/m² PVC tarpaulin in RAL colour. RAL 9010, RAL 3002, RAL 1030, RAL 7038, RAL 6026, RAL 5002 and RAL 2008. ▪ 130 mm long type C side straps. 100 mm side canvas drop. ▪ Arches with a central arch 200 mm high at the centre. Optional 300-400-500 mm. ▪ Automatic folding rear trolley. ▪ Change to a system of 5 black anodized aluminium straight rings with screw-on supports. Modification point 2.10.
OP LP2-2.12_09	Change of hydraulic butterfly roof for fixed aluminium roof with hydraulic rear gate of 3,000 mm length. (+565,0 kg)	
LP2-2.13	Two (2) pulling rings at the rear	
	OPTIONS	
	OP LP2-2.13_01	Add four (4) rings to the chassis for the mooring of the vehicle on board.
LP2-2.14	Electrical and pneumatic connections 600 mm from the coupling pivot plate. Watertight box with electrical connectors ISO 3731 (24 N) + ISO 1185 (24 s) + ISO 12098 (15 P) and red and yellow ISO 1728 tires.	
	OPTIONS	
	OP LP2-2.14_01	Electrical connections height change to 1.000 mm.
LP2-2.15	Hydraulic connections 250 mm from the coupling pivot plate with aluminium safety valve against wrong connections ALITE AL-BL101. Rigid pressure tube DIN 2391 with sections 22x2,5 mm in pressure (WP 250 bar) and 28x2,0 mm in return (WP 200 bar).	
	OPTIONS	
	OP LP2-2.15_01	Electrical connections height change to 800 mm.
	OP LP2-2.15_02	Add auxiliary hydraulic set 1 drive (manual/electric).
	OP LP2-2.15_03	Add auxiliary hydraulic set 2 drives (manual/electric).

LP2-2.15

OPTIONS

- OP LP2-2.15_04 Diesel autonomous hydraulic system for mobile floor. (+585,0 kg).
- Autonomous hydraulic power system with 3-cylinder HATZ diesel engine and 41 cm³ / rev Parker axial piston pump. Equipment for working flow of 100 l / min / 180 bar.
 - Engine control panel integrated in the main panel. Electric drives for the walking floor, rear door and hydraulic roof. Additional emergency manual override for all walking floor, tailgate and power roof functions.
 - Side connection for operation in stationary plant with selector for panel or remote operation. Functions wired according to customer specifications.
- DIESEL ENGINE HATZ 3M41 -

LP2-2.16

One (1) aluminium ladder with 12 steps with holder on the under-run protections.

LP2-2.17

Body of the semitrailer finished in non-anodised raw aluminium.

OPTIONS

- OP LP2-2.17_01 Imp. epoxy finish + acrylic water p. RAL.