

ALUCA

Installation Instructions
dimension2

Table of contents

1.0	ALUCA goods acceptance guidelines	4
1.1	Goods acceptance	4
1.2	Goods inwards inspection	4
1.3	Actions on obvious damage during transport	5
1.3.1	Damage report within 3 working days	6
1.3.2	Subsequent complaints	6
2.0	Assembly material	7
3.0	Preparatory actions	8
4.0	Side wall cladding installation	9
5.0	ALUCA floorplate assembly	10
5.1	Floor panels without lashing eye attachment	10
5.2	Floor panels with lashing eye attachment	10
6.0	Assembly/Positioning	12
7.0	Optional accessories	15
8.0	Technical notes	16
9.0	Cleaning/Care	19

Preface

You have made a good choice and decided for a vehicle racking from ALUCA. We are your partner for professional load securing. We are grateful to you for your confidence in our safe and modern product.

A carrier usually delivers our product. For this, it is essential that you observe our notes on goods acceptance under heading 1.0 and our general terms and conditions. These are on the Internet at www.aluca.de.

Note: You will receive installation instructions for accessories and/or special parts separately with the product in question.

These installation instructions will enable you to install your vehicle device in accordance with the rules of best engineering practice.

Please note: ALUCA does not assume any warranty for damage to the vehicle or to persons that is occasioned by the use of assembly material other than the original ALUCA assembly material or the device not being installed in accordance with these installation instructions.

We therefore recommend that ALUCA vehicle devices be installed by ALUCA or by one of our trained and certified partners. This guarantees that the device is installed in accordance with our current standards.

Your vehicle device has been planned individually for the purpose of your application. Consequently, you may not need all the fixing components included in the deliverables.

Please note that the device will only have a long working life and a high degree of safety if it is installed correctly. Before assembling the device, you should therefore read these installation instructions carefully.

In every case, the vehicle manufacturer's bodybuilder guidelines must be observed.

Note: To avoid later corrosion damage, all swarf must be vacuumed up after drilling work.

1. ALUCA goods acceptance guidelines

ALUCA adheres to numerous measures in order that your orders are delivered to you in perfect condition. Despite the greatest possible care, there may be damage or items missing on delivery.

With the following guidelines, ALUCA would like to point out to you the correct steps for goods acceptance if there is any damage, items are missing or there is an incorrect delivery.

1.1 Goods acceptance



Please check that the shipping documents are complete.



Is the number of packages delivered (e.g. disposable pallets, cardboard boxes) the same as that shown in the shipping documents?



External appraisal of the packages for visible damage to the outer packaging in the presence of the carrier.

1.2 Goods inwards inspection


Within 3 days, you must unpack the goods completely and check them for damage.



Find defects with the goods inwards inspection; please inform ALUCA Internal Sales immediately by email (in accordance with our general terms and conditions of purchase and in accordance with § 377 HGB [the Trading Code]) – see also 1.3.2

1.3 Actions on obvious damage during transport

- Record obvious transport damage immediately on the shipping documents or the delivery note as a damage report. Please describe the damage as precisely as possible, e.g. pallet dented on the side, cardboard torn. No settlement can be made later without a damage report.
- To avoid later changes to the document, insist on a photocopy or a carbon copy for the supplier of the shipping documents.

<p>weiß = Exemplar für Auftraggeber rosa = Exemplar für Absender blau = Exemplar für Empfänger grün = Exemplar für Frachtführer</p>		<p>blanc = Exemple pour commettant rose = Exemple de l'expéditeur bleu = Exemple du destinataire vert = Exemple du transporteur</p>		<p>wit = Exemplar voor lastgever roze = Exemplar voor afzender blau = Exemplar voor geadresseerde groen = Exemplar voor vervoerder</p>		<p>blanco = Exemple per committente rosa = Exemple per istante blu = Exemple per destinatario verde = Exemple per trasportatore</p>		<p>white = Copy for orderer pink = Copy for sender blue = Copy for consignee green = Copy for carrier</p>		<p>hvid = Exemplar for ordergiver rosa = Exemplar for absender blau = Exemplar for endtager grøn = Exemplar for beløstger</p>																			
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Consignment note

Never confirm "Hidden damage" or "Defective packaging", as damage declared in this way will not be recognised by the carrier's insurers.

- It is not hidden transport damage if the device has sustained damage, but its packaging is undamaged. On the contrary, it is genuine hidden transport damage if the vehicle device appears undamaged on the outside, but the drawer slides are, for example, damaged because the pallet was perhaps dropped.
- **Note:** If the carrier's driver offers a damage acknowledgement only on a mobile electronic device, insist on it being reprinted on the additional manuscript damage acknowledgement on the shipping documents/delivery note.
- If the carrier's driver denies you the opportunity to accept the goods with a damage report (e.g. he insists on a signature without a report), refuse to accept the goods and inform us immediately.

In the event that the device is an obvious write-off, please refuse to accept the goods.

1.3.1 Damage report within 3 working days

- Within 3 working days of establishing the damage, you must inform ALUCA Internal Sales in detail. Please send copies of the delivery note and the shipping documents with the damage report, registration number of the carrier's truck, as well as the driver's signature and the delivery date to ALUCA by fax or email. It is essential that you keep your copies as evidence.
- Please photograph the damaged packaging and the goods, and send the photographs with a listing of the damaged parts by email to ALUCA Internal Sales. ALUCA Internal Sales or Field Service will determine the way forward (return, replace, repair, an arranged date) jointly with you.

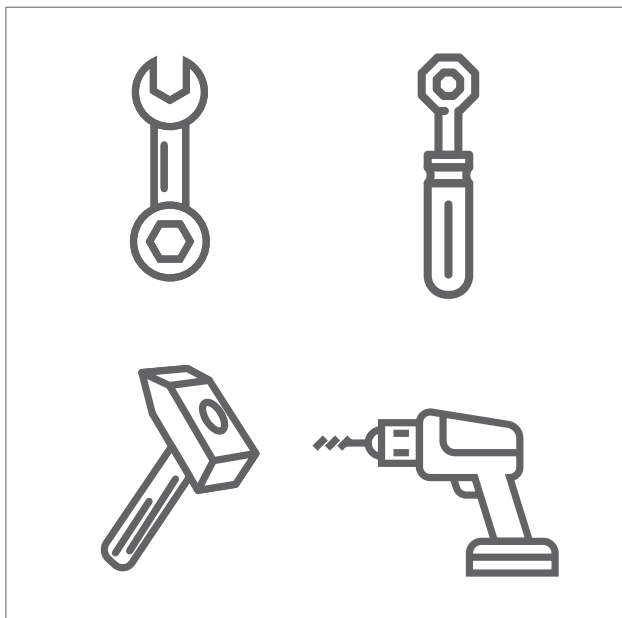
1.3.2 Subsequent complaints

In principle, we will not entertain subsequent complaints.

Any necessary redeliveries will therefore be made at the recipient's expense. We refer you to § 425/438 HGB in conjunction with paragraphs 25/28 ADSp.

2. Assembly material

For installation of an ALUCA system standard vehicle device, you will need:



- 10 mm combination wrench
- Ratchet handle
 - 10 mm socket wrench
 - 13 mm socket wrench (with extension)
- Power drill
 - Steel drill Ø 6.5 mm
 - Steel drill Ø 9.0 mm
 - Steel drill Ø 11.0 mm
 - Wood drill Ø 11.0 mm
- Hammer
- Plastic hammer
- Torque wrench



The fastening set for 1 single enclosure includes:

- 8 x M8 hex screws x 70
- 8 x M8 hex screws x 40
- 8 x M8 self-locking nuts
- 24 x spacers 25 x 45 x 3
- 8 x distance sleeves 8.2 x 12 x 20*
- 8 x M8 drive-in nut x 11
- 8 x M6 countersunk screws x 25
- 8 x centre punch underfloor drawers (not shown)*.

The fixing material for the base plate that is needed to bolt it to the vehicle body is included in the scope of delivery of the base plate, otherwise it must be ordered separately.

The fastening set for 1 double enclosure includes:

- 12 x M8 hex screws x 70
- 12 x M8 hex screws x 40
- 12 x M8 self-locking nuts
- 36 x spacers 25 x 45 x 3
- 12 x distance sleeves 8.2 x 12 x 20
- 12 x M8 drive-in nut x 11
- 12 x M6 countersunk screws x 25
- 12 x centre punch underfloor drawers (not shown).

3. Preparatory actions

All drawers and trays are removed for assembling the vehicle device.



Installation takes place in reverse order. For this, ensure that you insert the metal rails on the right and left of the drawers correctly into the plastic guides (see fig. 4)!

Procedure:

- Prepare the vehicle for installation. To do this, remove the rubber floor if one is present.
- Then place the floor panel diagonally into the vehicle.
- Remove cases and loose parts.
- Open pull-out drawers and tables fully.
- There is a drawer lock on each side, right and left, at the pull-out (see fig. 1).
- Press the right and left drawer locks inwards.
- This releases the lock.
- Take the drawer out frontwards. (see fig. 2).
- Press the white plastic lock to push the drawer slide into the device. This will avoid damage (see fig. 3).



Fig. 1



Fig. 2



Fig. 3

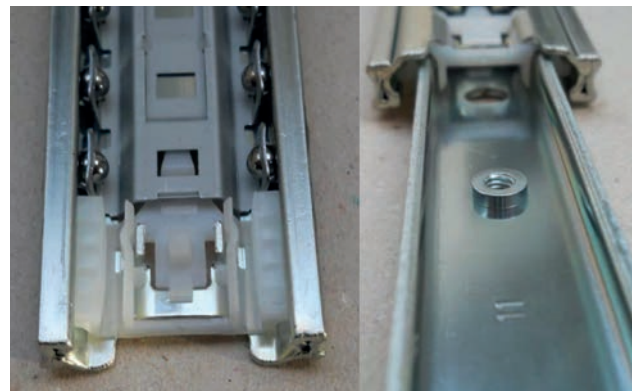
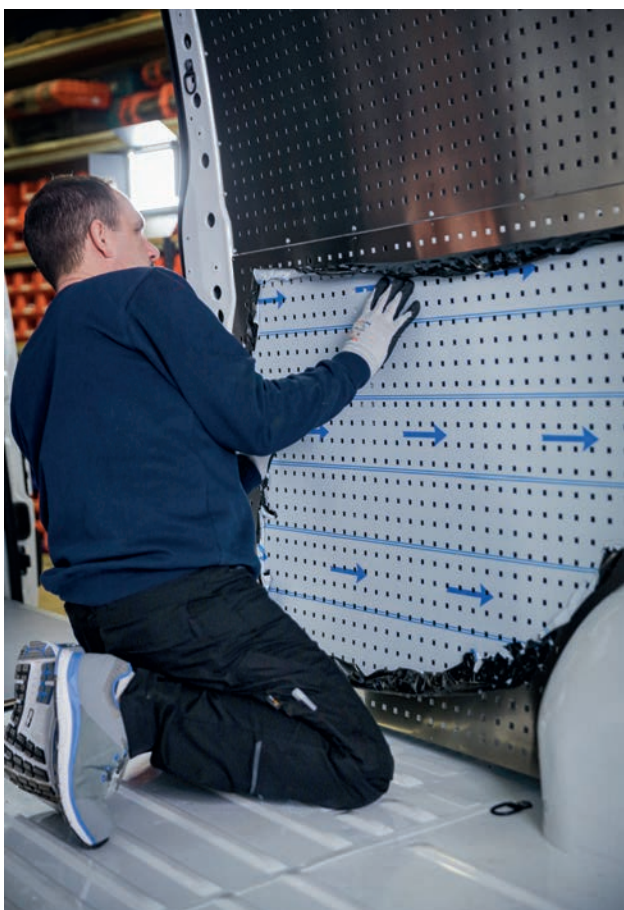


Fig. 4

4. Side wall cladding installation



The side trim is delivered customised for your vehicle. We recommend that you stick felt strips to the rear of the side wall cladding or apply silicone, in order to avoid noises caused by vibrations occurring occasionally. They are fastened with self-tapping metal screws to the vehicle struts.



5. ALUCA floorplate assembly



ALUCA floorplates are fixed via the original lashing points. With this, you should consider that we have developed plastic components for lashing points (pot and lid) which are used for all vehicle types.

Structurally, it can happen that the pot does not sit on the vehicle bodywork. In these cases, the unoccupied spaces must be packed with bodywork spacers (not included in the deliverables), in order to enable force to be exercised when loading the lashing point.

The floorplate can also be glued or fastened with self-tapping bodywork screws. Ensure that the plate has a clearance of at least 4 mm with the bodywork.

As a noise suppressor, we recommend that you underlay the plate partially with non-slip mats. This will minimise running noises.

5.1 Floor panels without lashing eye attachment



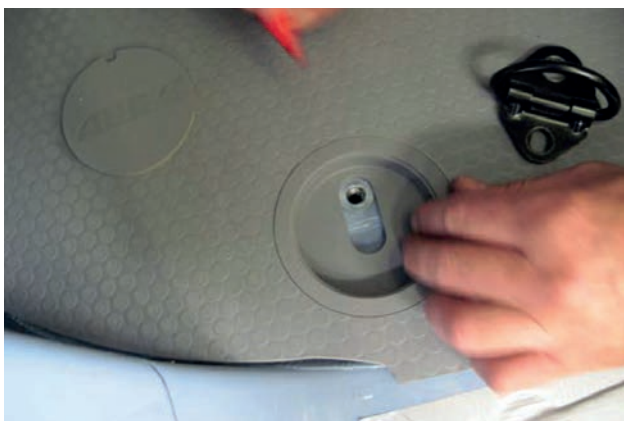
Mark the fixing points for the drill holes with which the base plate and the body are screwed in.

When drilling through the base plate and the chassis, be aware of any possible frame parts or electrical, hydraulic or fuel lines that may run along the underside of the vehicle.

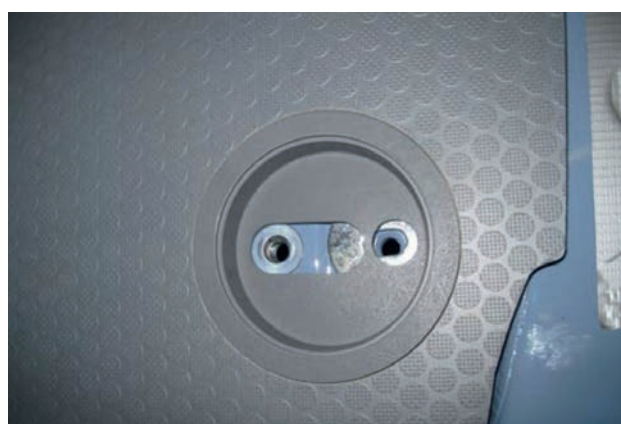
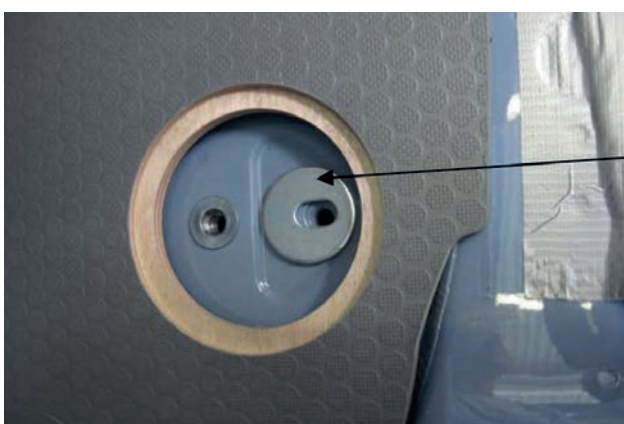
5.2 Floor panels with lashing eye attachment



Secure the base plate using the plastic plates that are supplied with the base plate.



After the floor has been laid, mark the second hole.



Set the hole with a stepped drill; compensate for unevenness with bodywork spacers (\varnothing 20 mm) (not in the deliverables)

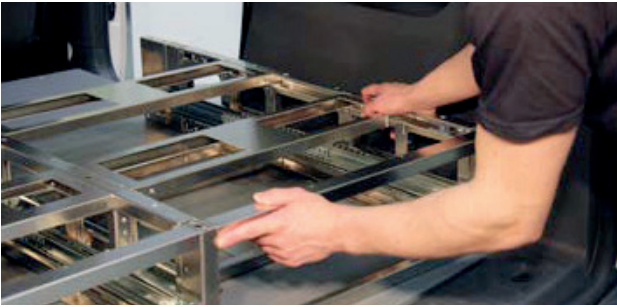


Refix the lashing point with original screws

If necessary, use a plastic hammer to fit the lid (please work carefully, to avoid damaging the plastic!)

6. Assembly/Positioning

6.1 Position the enclosure on the base plate



Place the enclosure in the vehicle and align it with the base plate.

6.2 Mark the fixing points



Mark the fixing points used to screw on the enclosure and the base plate.

Now remove the enclosure and the base plate from the vehicle.

The base plate can stay in the vehicle when the ALUCA dimension2 is screwed through the chassis!

Warning: Use the hole in the frame that has a $\varnothing 9$ mm.

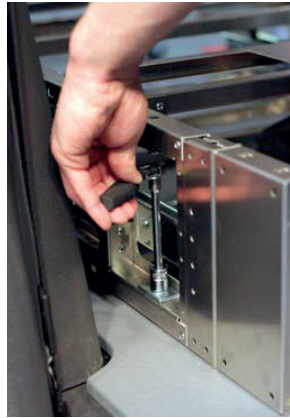
6.3 Drill through the floor plate



Drill through the floor plate from above with a 11 mm \varnothing . The M8 drive-in nuts are inserted into the drilled holes from below.

Replace the floorplate in the vehicle (smooth side facing downwards) and align it.

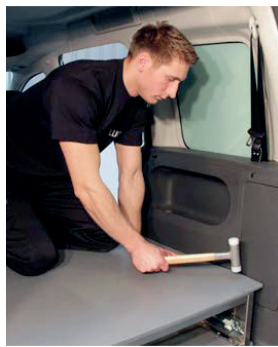
6.4 Screw in the enclosure



Position the pieces of enclosure and screw them together.

You will need the black spacer sleeves for this. To avoid damaging the frame when tightening it, these are placed between the two parts of the frame.

6.5 Mark the fixing points of the cover plate on the enclosure



Mark the fixing points of the enclosure on the cover plate and insert the supplied centre punches into the \varnothing 6mm holes that are provided. Place the cover plate on top and centre punch it.

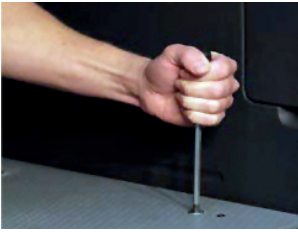
6.6 Remove and drill through the cover plate



Remove the cover plate from the vehicle and remove the centre punch.

Drill through the marked points on the cover plate from the underside with a 3 mm \varnothing drill and screw in from above using a 6 mm \varnothing drill. The drill holes then have to be lowered.

6.7 Screw in the cover plate and the enclosures



Then screw the cover plate to the enclosure (countersunk screws).

Ensure all chips are vacuumed out once you have finished the assembly process in order to avoid corrosion at a later date.

6.8. Insert drawers

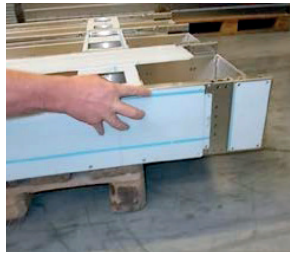


Re-insert the drawers with the runners into the enclosures and secure them.

(see disassembly)



7. Optional accessories



Obstacle detection mechanism:

As an accessory, we recommend installing an obstacle detection mechanism on each drawer.

This can be ordered at a later date (from a height of 150 mm) and mounted.

Side panel:

Side panels can also be ordered as an option for the ALUCA dimension2. These are not assembled ex works.

In order not to cause interference when fixing the device, these must always be fitted by the installer.

Overview dimension2:



8. Technical notes



Our load stickers are included with each fully assembled device. Affix this to the device or to the vehicle in a clearly visible position.

The stickers give information on how our products and lashing points, fitted by ourselves retrospectively, may be loaded.

ALUCA®		
LADEGEWICHTE bei flächiger Beladung	LOAD WEIGHT with flat loads	
80 kg	Schublade - ALUCA dimension2	Drawer - ALUCA dimension2
40 kg	Schublade - System ALUCA mit Aluminium-Vollauszug	Drawer - System ALUCA with aluminium full extension
80 kg	Schublade - System ALUCA mit Stahl-Vollauszug bis Breite 950 mm	Drawer - System ALUCA with steel full extension width up to 950 mm
60 kg	Schublade - System ALUCA mit Stahl-Vollauszug ab Breite 950 mm	Drawer - System ALUCA with steel full extension width from 950 mm
20 kg	Koffertablar	Case pullout
40 kg	Fachboden ohne Verstärkung	Shelf without reinforcement
60 kg	Regalfachboden / Fachboden mit Verstärkung bis Breite 950 mm	Shelf compartment base with reinforcement width up to 950 mm
45 kg	Regalfachboden / Fachboden mit Verstärkung ab Breite 950 mm	Shelf compartment base with reinforcement width from 950 mm
70 kg	Regalwanne N und H bis Breite 950 mm	Shelf trough tray N and H width up to 950 mm
55 kg	Regalwanne N und H ab Breite 950 mm	Shelf trough tray N and H width from 950 mm
250 kg	max. Feldlast	Max. bay load

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Permissible torque for screwed connections:

Thread size	Tightening torque for standard thread		
Strength class	8.8	10.9	12.9
M5	6.03	8.48	10.18
M6	10.25	14.41	17.29
M8	24.93	35.06	42.07

All vehicle equipment fastening points are to be checked at regular intervals (approx. every 5,000 km). This is applicable for floor and wall connections, as well as lashing points.

Use only original ALUCA spare parts for any repairs.

- Before starting the vehicle, check the permitted payload.
- Be aware that the vehicle equipment is a part of the payload.
- Note the axle loads prescribed by the manufacturer.
- Avoid a one-sided weight distribution in the vehicle.

Fixtures in private cars and transporters that are fixed force-locking and form-fit in the load space are to be deemed loads. For loads, there are no regulations in traffic law which stipulate an acceptance by a recognised expert or demand an entry in the vehicle logbook. Official bodies are exceptions if need be.

ALUCA GmbH recommends separating the passenger area from the load space by means of isolating bulkheads or grids approved by the vehicle manufacturer. If viewing windows are installed in bulkheads, then it should be essential for the manufacturer to supply a clearance certificate. ALUCA recommends that these windows always be fitted with a protective grid, in order to increase passive safety in the passenger compartment.

Loose parts in the load space are in principle to be secured with suitable and approved load securing means.

ALUCA GmbH recommends that all employees who use a vehicle device be informed by means of a suitable and documented course of instruction of the relevant load securing regulations and of the optimal use of the product. Therefore, for example, you should ensure that a heavy load is always transported in the lower part of the vehicle equipment. However, light loads are always to be stowed in the upper area of the vehicle equipment.

Usable internal drawer dimensions*



- System width minus 40 mm
- System depth minus 45 mm
- System height minus 14 mm**

* the internal dimensions given here are nominal dimensions and deviations related to tolerances can occur.

** for a drawer front height of 450 mm, 28 mm is deducted



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ALUCA WERKSTÄTTE

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9. Cleaning/Care

Vehicle devices by ALUCA are made from high quality aluminium. It is unnecessary to paint this material. Cleaning is consequently extremely simple and can

be done in the vehicle. To do this, use a high quality product for cleaning metal surfaces.



Do not under any circumstances use steel wool or a steel brush or similar means, as rust will form owing to the steel abrasion of the cleaning equipment used. After every cleaning, all surfaces should be treated with a high quality product for the care of metal surfaces.

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