

CONDITIONS OF DELIVERY FOR ALUMINUM AND STAINLESS STEEL SILOS AND CONTAINERS

ZEPPELIN SYSTEMS GMBH

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ZEPPELIN SYSTEMS GMBH
Registered office: Graf-Zeppelin-Platz 1
88045 Friedrichshafen / Germany
www.zeppelin-systems.com

☐ 1. SILO CAPACITIES

The specified silo capacities are calculated on the basis of the cylindrical space and conical bottom according to the sketches in the catalog, and they are rounded up or down. Claims arising from deviating volumes cannot be asserted.

☐ 2. STRUCTURAL DESIGN

The load and bulk material assumptions apply to the design of the Zeppelin standard silos. To avoid dents in the base skirt or in the silo shell, the stand rings must have at least 80% of their area resting on the substructure (foundation, steel framework, building's ceiling, etc.). Guidelines for the design, calculation and construction of steel frameworks must be requested from us (information sheet G).

Deviating earthquake, wind and snow loads or other additional loads must be notified to us before the contract is awarded. We will charge for any additional costs resulting from load changes.

☐ 3. STRUCTURAL CALCULATIONS

If a structural calculation is wanted, you will receive it after receipt of the silo order. Inspection by an expert must be carried out by the builder for its own account. If, in exceptional cases, structural analysis is required before the order is placed, we will charge a protection fee, which will be credited back after the silo order (price code ST1).

☐ 4. MATERIALS

The conical roof, silo shell, conical bottom and base skirt for silos are made of aluminum 5454/5457/5083 (AlMg3Mn/AlMg3/AlMg4.5Mn) and accessories are made of 5457/6060 or 6082 (AlMg 3/AlMgSi1 or AlMgSi0.5). Screws or other connection parts are made of stainless material. Foundation rings and screws made of steel are galvanized in the simplest version. Non-galvanized foundation rings do not have any corrosion protection arising from the material.

Any discoloration of individual silo strakes in aluminum silos is due to production by the aluminum manufacturers. They do not impair the function and do not constitute a defect.

☐ 5. SURFACES

The surfaces remain bright rolled. Irregularities in the surface and / or visual impairments do not affect the function and do not constitute a defect. The silos are cleaned on the inside after completion. Depending on the requirements, we recommend subsequent appropriate cleaning of the silos and connected pipelines before commissioning.

☐ 6. WELDING SEAMS

The weld seams on aluminum silos are welded airtight using the MIG and TIG methods. The weld seams are not processed due to technical processing and strength-related reasons. Welding slag and other unevenness are removed.

Weld seam processing for stainless steel silos is carried out in accordance with specifications.

☐ 7. MANUFACTURING TOLERANCES

The manufacturing tolerances are assessed based on procedural instruction 20 VA 04 007.

☐ 8. PACKAGING

We charge the packaging for land transport according to expenses.

9. STORAGE

The possibility of temporarily storing the goods at our site, which can be revoked at any time, is subject to free capacity. No entitlement for this exists.

The costs of storage are €3.50 / m² per started week, taking into account the necessary traffic areas. Goods are stored outdoors in unroofed areas.

The provisions of the storage contract in accordance with Annex 01 apply. Storage does not affect due payments.

10. DEFAULT OF ACCEPTANCE

If the customer is in default of acceptance or fails to cooperate or our delivery is delayed due to other reasons for which the customer is responsible, we are entitled to demand the refund for the resulting damage, including additional expenses (e.g. storage costs). For this purpose, we charge flat-rate compensation of EUR 6 per calendar day per m² to be stored, starting with the delivery date or – in the absence of a delivery date – with the notification that the goods are ready for dispatch. The risk is transferred to the customer in accordance with Sections 446 and 644, German Civil Code (BGB) upon the default of acceptance by the customer. Other legal provisions remain unaffected. The Parties reserve the right to conclude a storage contract in accordance with Annex 01. Proof of higher damage and our legal claims (in particular, the refund of additional expenses, appropriate compensation, termination) remain unaffected; the flat rate shall, however, be offset against further monetary claims. The customer shall be entitled to prove that we have incurred no damage or only significantly lower damage than the above-mentioned flat rate.

11. TRANSPORT

If silo transport is included in the scope of delivery, the customer must bear in mind that in addition to the listed freight costs and apart from the official requirements for obtaining and issuing the transport permit, additional costs may be incurred, depending on the size and number of silos. Toll costs and transport insurance are included in the freight price.

Costs of heavy-lift and special transports

Costs of third parties will be charged to the purchaser separately upon presentation of the original receipts. It may take a longer period of time of up to 2 years to receive the original receipts. Therefore, these costs listed below as examples can still be invoiced to the customer after acceptance of the silos or receipt of the final invoice:

- Costs of road preparation (e.g. route testing, structural analysis of bridges, etc.)
- Traffic control measures (e.g. shutting off railway crossings, laying out road plates for driving over, turning traffic lights and traffic signs, removing guardrails, etc.)
- Costs of police and BF4 escort (in Germany) as well as preparation of the roadbook
- Unloading the silos
- Provision of a crane
- Provision of a crossbeam

Delays and waiting times beyond the unloading time per silo of a maximum of 2 working hours for which we are not responsible will be invoiced separately.

A forklift truck must be provided free of charge for transports with a vessel bridge.

Trafficability at the unloading point must be ensured. The basis for the transports are the CMR conditions. For silo transports with oversized loads carried out by rail or road, we prepare loading drawings and apply for the necessary special permits.

We accept no liability for non-punctual provision of wagons by the Federal Railway, duration of transport, crane waiting times on the construction site and similar consequences of delayed transport on the part of the customer and / or third parties.

12. DELIVERY TIME

Delivery times must be agreed with us. Clarification and approval of the customer's drawing should take place on time. Technical changes after approval may lead to date and price adjustments.

13. DELIVERY

When our silos are delivered, free access of the means of transport to the construction site must be ensured.

If installation is carried out by Zeppelin on your behalf, the following requirements must be met:

- Sufficient parking space for the large crane truck, corresponding to the silo size
- Provision of a crossbeam by the customer
- Free support by at least two assistants (locksmiths) with tools

Due to the weather conditions in winter, it is possible that the silos may be contaminated with salt or other gritting material during transport. To prevent possible visual impairments, we recommend that you hot clean the silos and accessories with a steam cleaner immediately after arrival. Irregularities in the surface and / or visual impairments do not affect the function and do not constitute a defect.

14. CLEANING

Unless special cleaning is explicitly ordered, the silos are delivered clean swept.

Due to manufacturing, the silos may still contain swarf or other impurities that can only be completely removed by a final cleaning performed by the customer after the silo has been set up. Even in the case of an optional commissioning of "washing and degreasing in the manufacturer's plant", very small quantities of impurities detached during transport, e.g. in the form of residual swarf could be present. Damage to the product cannot be ruled out without subsequent cleaning of the silos by the customer before use. Zeppelin assumes no liability for product damage that is attributable to a failure to perform final or subsequent cleaning.

15. PRICE RESERVATION / SUPPLEMENTS

The prices are based on the material prices and wage costs available at the time the contract was concluded. If a change to the silo design drawing is required during order processing, we reserve the right to adjust the respective agreed price.

16. WARRANTY

We provide a warranty for the use of flawless material, professional processing, dimensional accuracy and stability of the silos and accessories for a period of 12 months after commissioning, a maximum 18 months after delivery or respectively notification of readiness for dispatch.

17. SILO OPERATION

For silo operation, centric emptying without the formation of asymmetrical flow zones and bridges as well as full activation of the outlet cross-section is required. We accept no liability for damage to silos caused by asymmetrical discharge of bulk material or bridging. Please note the bulk material data specified in the order confirmation. As the operator, you are responsible for compliance with these design data.

18. SILO HONKING

When discharging certain bulk materials (e.g. PET, SAP, PBT, PA, PVC or starch), honking noises as well as vibrations can occur on the silo or on the substructure. This does not constitute a defect and we accept no liability for subsequent costs.

To prevent such effects, we offer options including patented anti-honking equipment.

19. TESTS

A dimensional and geometry test is carried out in accordance with the Zeppelin standard.

20. DOCUMENTATION

The following documentation is included:

- Silo drawing
- Testable structural silo analysis
- Foundation load data
- Operating instructions
- Installation instructions for Bolt-Tec silos
- Documentation of accessories as required

In addition, please refer to the current Zeppelin General Terms and Conditions of Delivery and Service / Zeppelin General Terms and Conditions of Delivery and Service – International - as well as our Terms and Conditions of Installation and Servicing.