PACKING INSTRUCTIONS

ThorPak®
Batterie 03_900

Key Figures

Designation	*Type tested Plastic load carrier*
External dimensions	*1207 x 807 x 900 mm*
Internal dimensions	*1200 x 800 x 700 mm*
Tare weight	*55 kg*
Max. Gross Weight	*560 kg*
Permissible load	*1680 kg*
UN-Packaging approval	*UN 50H/Y/ * /E/COMPANY XX SYSTEM/02-G-303-01/3026/560*

Check before packing activity:

- Check transport boxes for damage and, if necessary, order for repair.
- Only transport-safe batteries may be loaded.
- Verification by transport assessment protocol.

TRANSPORT IN THE ABSENCE OF A TRANSPORT ASSESSMENT REPORT OR NOT IN A SAFE CONDITION FOR TRANSPORT IS PROHIBITED

Description

This is a large plastic packaging for LITHIUM METAL BATTERIES (including lithium alloy batteries) UN 3090, or LITHIUM ION BATTERIES (including lithium ion polymer batteries) UN 3480. The design is in accordance with the following applicable dangerous goods regulations: ADR, RID, ADN and IMDG, according to packing instructions LP903, LP904, LP905 for a maximum gross mass of 560 kg according to the ThorPak battery type.
The inner packaging must be enclosed with a sufficient amount of non-combustible and non-electrically conductive thermal insulation material to protect against hazardous heat generation.
Non-combustibility must be determined in accordance with a standard recognized in the country where the packaging is designed or manufactured. According to LP 904, this is approved for a single damaged or defective battery of UN Nos. 3090, 3091, 3480, 3481 and for individual pieces of equipment containing damaged or defective cells and batteries of these UN Numbers.
This packaging is not authorized for a single damaged or defective battery that may decompose rapidly, react dangerously, produce a flame or dangerous evolution of heat, or emit dangerous toxic, corrosive, or flammable gases or vapors under normal conditions of carriage, as shown in LP906.

Tested and certified according to

ADR, *2025 edition.*
RID, *2025 edition.*
ADN, *2025 edition.*
IMDG, *Code Amendment 42-24 edition.*
*According to norm **UNE-EN ISO** 16495:2022 Anex I and regulations in force:*
ADR, ADN, RID and IMDG, Chapter 6.6 Section 6.6.5.3.1 + 6.6.5.3.3 + 6.6.5.3.4

UN Nr.	Name & Description	Class	Packaging Groups	Classification code	Packaging instructions
3090	LITHIUM METAL BATTERIES *(including lithium alloy batteries)*	9	II, III	M4	LP903, LP904, LP905
3480	LITHIUM-IONEN-BATTERIEN *(including lithium ion polymer batteries)*	9	II, III	M4	LP903, LP904, LP905

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1. Fold safety belts & fire protection blankets over the edge of the container.

2. Position the battery centrally on the fire protection cushion.

3. Place all 4 sides of the fire blanket over the battery so that it is fully covered.

4. Tie down all belts tightly.

5. Place the end cap on the ring wall.

6. Hook the 2 hooks of the webbing under the pallet.

7. Tighten all straps using the ratchet **(yellow)**.

8. The tension of the webbing should be selected so that there is still 30 - 40mm play between the webbing and the ring wall.

9. Attention! If the tension is too tight, the webbing cassette can be damaged.

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10. If the packaging is loaded with dangerous goods, the marking must be set to **red.**

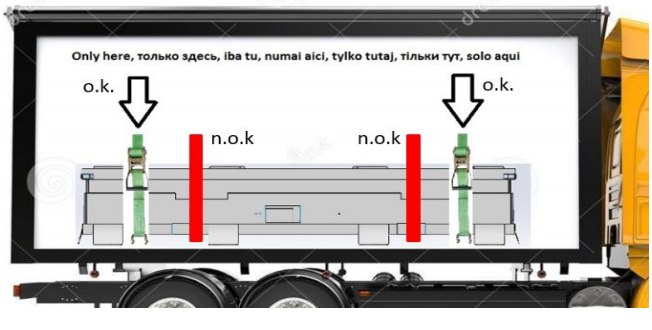
11. When the packaging is emptied, the marking must be set to **green** (empties).

12. Alternatively, use the existing sliders.

13. When lashing to the truck, make sure that the webbing cassettes are not displaced.

14. It is forbidden to lash the load carriers on the belt cassettes of the cover.

15. The plastic load carriers must be handled with care, especially when being transported with (forklift trucks) and when securing the load during truck transport.



	Material
Type	1207 x 807 mm
Pallet	HDPE
Cover	Alveolar - 10 mm - 3500 g/m² - schwarz Stahlrahmen
Sleeve	PP - 15 mm - 5000 g/m² - schwarz
Insert	Reusable inner packaging SwagBag non-flammable material

WISALES
Member of DÖRKEN

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AIDIMME
INSTITUTO TECNOLÓGICO

AIDIMME Reference: 2507179-01
Work order: 22503525

TEST CERTIFICATED Nº 311.C.2508.559.EN.01

SAMPLE:	**Client identification:** "A077-345-3D-00"
COMPANY:	**ALTOPLAST SYSTEM, S.L.U.** P.I. VALL-LLOSERA C/ PLA DE LA CALMA, 13-31 08550 ELS HOSTALETS DE BALENYÀ (BARCELONA) C.I.F.: B55020457 Phone number: +34 93 880 03 64 E-mail: info@altoplast.com

Packaging tested

DESCRIPTION: It is a Large Plastic Packaging intended to carry one electric car battery of LITHIUM METAL BATTERIES (including lithium alloy batteries), UN 3090 or LITHIUM ION BATTERIES (including lithium ion polymer batteries), UN 3480. The type of construction is according to the following regulations in force of dangerous goods: ADR, RID, ADN and IMDG, for a maximum gross mass of 560 Kg.

TESTS:

BOTTOM LIFT TEST. Mass for the test: 700 kg.
According to regulations in force: ADR, ADN, RID and IMDG, Chapter 6.6 Section 6.6.5.3.1

STACKING TEST. Superimposed test load: 3026 kg.
According to regulations in force: ADR, ADN, RID and IMDG, Chapter 6.6 Section 6.6.5.3.3.

DROP TEST. Drop height: 1.2 m
According to regulations in force: ADR, ADN, RID and IMDG, Chapter 6.6 Section 6.6.5.3.4.

This test methods and results are described in the test reports 311.I.2508.559.EN.01 of date 1st August 2025. The latest revision of the following Regulations: ADR, RID, IMDG, are used.

RESULT: The sample tested satisfactorily fulfils the specifications for the regulations used to carry out the test.

Identification of the large packaging as specified by the competent authority: 02-G-303-01

Primary marking:

(UN) 50H / Y / * / E / ALTOPLAST SYSTEM / 02-G-303-01/ 3062 / 560

* The month and year (last two digits) of manufacture

Paterna, 26th February 2026

AIDIMME
INSTITUTO TECNOLÓGICO

Raúl Moreno Castelló
Technical Manager of Dangerous Goods Laboratory

This certificate only refers to the samples received and tested by the Dangerous Goods Laboratory of AIDIMME. This certificate must not be partially reproduced without the written authorization of AIDIMME.

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