

TYPE APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET19005A

HOLDER OF CERTIFICATE:

AB Karl Hedin
1440 kg max
MANUFACTURER:

Boardic AB, Sjötullsgatan 35, 602 28 Norrköping, Sweden

MARKING ON PACKAGING:

Each packaging intended for use under ADR must bear markings that are durable, legible, and placed in a location where they are easily visible. Letters, numerals, and symbols must be at least 12 mm in height. Each large packaging (LP) must also be marked with the maximum permitted stacking load, in accordance with ADR 6.6.3.3.1 (as shown in the figure to the right).


u **50D/Y/MMYY/N/NET19005A-ID/2592/720**

<u>u</u>	: The United Nations symbol
50D	: Large Packaging, plywood
Y	: Packaging group II
MMYY	: To be replaced with the month and year, last two digits, of manufacture
N	: Norway, the state authorizing the allocation of the mark
NET19005A - ID	: Identification of the LP followed by "ID" to be replaced by the name or symbol of the manufacturer
2592	: The stacking test load in kg
720	: The maximum permissible gross mass in kg

PRODUCT:

Description/ Method of manufacture	Drawings	Material
Plywood crate large packaging with pallet base and removable lid.	Main rev.1	5 layers of pine plywood


DIMENSIONS:

Volume, l	Internal dimensions: L*W*H, mm	External dimensions: L*W*H, mm	Thickness, mm
718	1273*705*800	1304*729*970	12

CLOSING MECHANISM:

Closure type	Producer	Description
Metal clips	-	Internal type designation "Isabel", used to connect and secure the box walls at each corner.
PET straps	Fromm Packaging Systems	15,5 x 0,7 mm PET (Art.no. 40.7382).

INTERNAL PROTECTIVE/ SECURING SYSTEM:

Type	Description
L-shaped support	A wooden support frame shall be positioned inside the box during transport to support and secure the battery and to provide additional support to the box structure.
Fire blanket	For damaged or defective lithium-ion batteries, the battery shall be fully enclosed by a fire-resistant protective blanket or cloth meeting reaction-to-fire classification A1 or A2 according to EN 13501-1:2019, based on testing according to EN ISO 1182:2020. Equivalent materials may be used, provided that documentary evidence of compliance is available and that the packaging is otherwise closed and secured as tested.

LEGISLATION:

NET issues this certification pursuant to delegated authority from the Norwegian Directorate for Civil Protection (DSB), in accordance with the Regulation of 1 April 2009 No. 384 on the land transport of dangerous goods, Chapter 6a (ref. 2023/4375 PRAX). NET is designated as the competent body for allocation of the UN mark on packagings, including IBCs and large packagings, as published by the United Nations (UNECE) list of competent authorities.

NET issues the certification on described product according to delegated authority from Norwegian Maritime Directorate (Sjøfartsdirektoratet) - 200705977-4/5367.1.

NET issues the certification on described product according to an agreement between Norwegian Civil Aviation Authority (Luftfartstilsynet) - 01.03.18 - 18/00114-8.

REGULATORY BASIS FOR APPROVAL:

UN Recommendations on the Transport of Dangerous Goods.

ADR, European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID, International Regulations on Transport of Dangerous Goods by Rail.

IMDG, International Maritime Dangerous Goods Code, for sea transport.

ICAO, Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IATA, Dangerous Goods Regulations, for the air transport.

TESTS CARRIED OUT:

Prototype tests performed and approved according to the above regulations:

6.6.5.3.1 Bottom lift test

6.6.5.3.3 Stacking test

6.6.5.3.4 Drop test

APPROVAL IS VALID FOR:

The packaging shall always be used in accordance with the requirements of the applicable UN number and its relevant packaging instruction.

The large packaging covered by this certificate has been prepared and tested as for transport in accordance with the applicable requirements of ADR. The use of other packaging methods, components, or preparations than those described in this certificate may render the approval invalid.

Prior to reuse, all UN-approved packagings intended for the transport of dangerous goods shall be inspected to confirm that they remain free from damage, corrosion, and contamination. Compliance with the original ADR type approval, including all applicable prototype test performance criteria, must be ensured.

Packagings showing any sign of reduced mechanical integrity shall be subject to reconditioning, repair, or permanent withdrawal from service. All functional components, including lid, fasteners and internal fittings, must remain intact and fully functional to ensure continued conformity.

Packagings that no longer fulfil these requirements shall not be reused for the transport of dangerous goods, in accordance with ADR 4.1.1.9.

Approved Contents	Dimensions, mm	Weight of content, kg
One lithium-ion battery contained in equipment or packed with equipment, UN 3481, in accordance with packing instruction LP903	1166*600*697	630
One damaged or defective lithium-ion battery contained in equipment or packed with equipment, UN 3481, in accordance with special provision 376 and packing instruction LP904	1166*600*697	630

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET19005A	18.08.26	NET	Type approval
NET190TE05	25.08.26	NET	Technical Evaluation; LP904

VALIDITY:

This approval is valid for five (5) years, provided no modifications are made to the packaging design, materials, dimensions, closure system, or method of construction.

The certificate may be withdrawn at any time.

The published version on www.net17025.com/Sertifisering/UN_ADR/cid/30758/ shall always be considered the valid one.

The certificate holder/manufacturer must notify NET Certification of any changes that may influence transport safety.

Continued validity requires periodic audits by NET in accordance with NET Doc 2: "Production control agreement".

The packaging shall be manufactured, reconditioned and tested under a quality assurance programme meeting ADR requirements and guidelines in NS-EN ISO 16106:2020.

TEST STANDARD:

All tests are performed in accordance with NET accredited test method ATM001. The test method is accredited in accordance with NS-EN ISO/IEC 17025:2017 approved by Norsk Akkreditering and according to NS-EN ISO 16495:2022.



BREVIK, NORWAY

31.08.2026 CERTIFICATE IS VALID UNTIL:**31.08.2031**

Anita Gusfre Thoner
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification

