

**TYPE APPROVAL OF PACKAGING FOR
TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET18101A**

HOLDER OF CERTIFICATE:


LiProPac AB

MANUFACTURER: Grönlunds Plåt AB, Björkelundsgatan 3, 532 37 SKARA

MARKING ON PACKAGING:

Each packaging intended for use according to the ADR shall bear markings which are durable, legible and placed in a location as to be readily visible. Letters, numerals and symbols shall be at least 12 mm high.

 **4A/X40/S/YR/N/NET18101A - ID**

-  : The United Nations symbol
- 4A : Steel boxes
- X40 : Packaging group I, II and III, max gross mass in kg
- S : Intended for carriage of solids or inner packagings, see content table
- YR : To be replaced with the year, last two digits, of manufacturer
- N : Norway, the state authorizing the allocation of the mark
- NET18101A - ID : Identification of the LP followed by "ID" to be replaced by the name or symbol of the manufacturer

PRODUCT:

Description/ Method of manufacture	Thickness, head/ body/ bottom	External dimensions: L*W*H, mm
Steel box with fully welded seams, hinges and hasps are attached by welding, riveting, or bolting (nuts on inside).	3.0/ 1.5/ 1.0	640*264*359



DIMENSIONS:

Volume, l / Tare weight, kg	Internal dimensions: L*W*H, mm	Explosive approved	Drawing
20.0/ 25.0	460*137*291	Yes	360-0003-00 / 360-0003-00-2

CLOSING MECHANISM:

Closure type	Producer	Drawings	Material	Gasket
Eccentric lock, 4 pcs	Eugen Wiberger AB	360-0003-00	Eugen Wiberger AB Excenterlås EL2030-160 - DC01	-
Hinges, 2 pcs	Industrilås AB	Hinges. Art.no. 321667-00-0	Steel	-
Lid	Götlinds Svets AB	360-0003-00 / 360-0003-00-2	Swedish Steel DC01	Nitrile, details in report

INNER PACKAGING:

Type	Description	Drawing	Material	Dimensions
Handle, 2pcs	Protex	360-0003-00	Steel	-
Wellplast box	EQpack AB	230103 Version 1	EQpack AB Biplax 650g/m ² , 3,5 mm	432*120*199
Fibreboard box	SEQ Pack AB	230103 Version 1	DS Smith Packaging AB B-BB-0180	433*120*199
Cardboard box	EQpack AB	231201 Ver 1 EQ-Pack	EQpack AB Cardboard FBB w/ w 350 g	310*40*40
Phase-change material, 10 pcs	Climator Sweden AB	PCM (Phase-change material)	Climator Sweden AB ClimSel? C48-X	-
Cushioning material	EQpack AB	231201 Version 1 Foam for envelope	EQpack AB EQfoam-Plastazote LD 24 FR	-
Cushioning material	EQpack AB	- 231201 Version 1 (Long - Top short - Top long)	EQpack AB EQfoam-Plastazote LD 24 FR	-

LEGISLATION:

The certificate is valid for a maximum of five years, provided no modifications have been made to the packaging design, materials, dimensions, closure system or manner of construction. To ensure validation of the certificate, check the NET website.

NET issues the certification on described product according to delegated authority from Norwegian Directorate for Civil Protection and Emergency Planning (DSB): Legal regulations for Transportation of Dangerous Goods on road and railway - 06/6950-7/BJRU.

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.

REGULATIONS BASED UPON 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:
 6.1.5.3 Drop test
 6.1.5.6 Stacking test

APPROVAL IS VALID FOR:

The packaging shall always be used according to the requirement of the applicable UN-code and its packaging instruction.

Content	Packaging instruction
UN3480, Lithium ion batteries	P903

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET18101A	08.12.2023	NET	Type approval

VALIDITY:

The continued validity of the type approval requires that the holder of the certificate and/ or the manufacturer inform NET certification that has approved its type of packaging of any changes to the characteristics of the type or anything that can influence on the transport safety on the specific design so that it can be verified that the type of packaging continues to comply with packaging tested as base for the original type approval.

The validity of the type approval assume regular verification by means of 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 program which satisfies NET Certification, in order to ensure that each packaging meets the requirements in ADR and the guidelines in ISO 16106.

TEST STANDARD:

All tests are performed in accordance with NET accredited test method ATM001. The test method is accredited in accordance with ISO17025 approved by Norsk Akkreditering and based upon ISO16495 and ISO13274.



BREVIK, NORWAY

21.03.2024 CERTIFICATE IS VALID UNTIL:

28.02.2029



Mathias Werner
 Certification Officer



Rune Madsen Fink
 Control Officer

Nordisk Emballasje Testing Certification