

# TYPE APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET16702A

HOLDER OF CERTIFICATE:  
**BMW Group GmbH**

**3086 kg max**



**MANUFACTURER:**

TRANSpofix GmbH, Industriepark Erasbach B9, 92334  
Berching, Germany

**MARKING ON PACKAGING:**

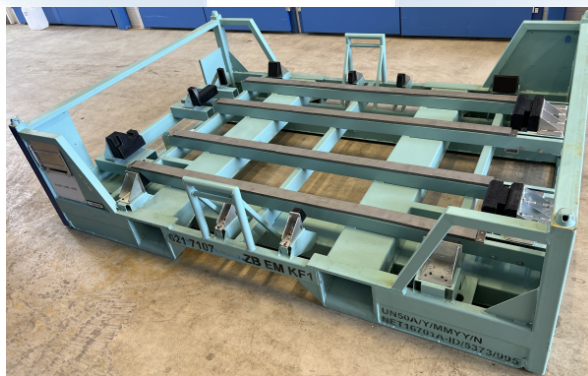
Each packaging intended for use according to the ADR shall bear markings which are durable, legible and placed in a location as to be readily visible. Letters, numerals and symbols shall be at least 12 mm high. Each LP shall also be marked with maximum permitted stacking load according to ADR 6.6.3.3.1 (as shown in figure to right).



|  |  |
|--|--|
|  | <b>50A/Y/MMYY/N</b><br><b>NET16702A-ID/5556/997</b>  |
|  | : The United Nations symbol  |
| 50A  | : Large packaging, steel   |
| 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   |
| NET16702A - ID   | : Identification of the LP followed by "ID" to be replaced by the name or symbol of the manufacturer |
| 5373   | : The stacking test load in kg   |
| 997  | : The maximum permissible gross mass in kg   |

**PRODUCT:**

| Description/ Material/ Method of manufacture  | Drawing                       |
|---|-------------------------------|
| Welded steel frame, primarily made from 40/ 60 mm square tubes, is fitted with multiple cushioning elements to protect the battery from potential damage due to movement inside the packaging | 6217107 ZB EM KF1 SE1 2025-02 |



**DIMENSIONS:**

| Packaging weight, kg/<br>Volume, l | External dimensions:<br>L*W*H, mm | Internal dimensions:<br>L*W*H, mm | Min. wall thickness, mm |
|------------------------------------|-----------------------------------|-----------------------------------|-------------------------|
| 391/ 2013                          | 2400 * 1670 * 670                 | 2280 * 1590 * 561                 | 0                       |

### SAFETY PARTS:

Pillows mounted on steel frames from Transpofix

Thirteen pieces, each with a specific function, are mounted on steel frames to absorb shocks and secure the battery against movement inside the packaging during transport. The pillows are made of rubber. Drawings and material details are provided in the report.

### LEGISLATION:

The approval 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. This certificate is liable to withdrawal at any time, to ensure validation check the published version on the Internet ([www.net17025.com/Sertifisering/UN\\_ADR/cid/30758/](http://www.net17025.com/Sertifisering/UN_ADR/cid/30758/)).

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 - 2023/4375 PRAX.

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:

6.6.5.3.1 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 according to the requirement of the applicable UN-code and its packaging instruction; LP903.

| Content   | Battery dimensions, L*W*H, mm | Battery weight, kg |
|---|-------------------------------|--------------------|
| UN3480, Lithium ion battery:<br>BMW Germany UKL Modul | 1990*1420*293                 | 504                |
| UN3480, Lithium ion battery:<br>BMW Germany KKL Modul | 2068*1420*293                 | 605                |

### DOCUMENTS BASED UPON FOR APPROVAL:

| Report id. | Date       | Issued by | Scope         |
|------------|------------|-----------|---------------|
| NET16702A  | 14.05.2025 | 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 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

03.06.2025

CERTIFICATE IS VALID UNTIL:

30.06.2030



Mathias Werner  
Certification Officer



Rune Madsen Fink  
Control Officer

*Nordisk Emballasje Testing Certification*