

**TYPE APPROVAL OF PACKAGING FOR
TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET10802A**

HOLDER OF CERTIFICATE:
Paketo Recycling Oy

2000 kg max

MANUFACTURER:

Paketo Recycling Oy, Kisällintie 7, 04500 Kellokoski,
Finland



MARKING ON PACKAGING:

Each IBC 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. The IBC shall also be appropriately marked in accordance with ADR 6.5.2.2 Additional marking, and shall be marked with maximum permitted stacking load according to ADR 6.5.2.2.2.1 (as shown in figure to left). For this Cross bottling IBC, the inner receptacle shall be marked:

31HA1/Y/MMYY/NL/TCPI-GEFSEO1-150582/R, ADR 6.5.2.1.1 b) - f).

The period of use permitted for the carriage of dangerous substances shall be five years from the date of manufacture of the inner receptacle, except where a shorter period of use is prescribed because of the nature of the substance to be carried.

UN 31HA1/Y/MMYY/N/NET10802A - ID/3600/1997

- UN** : The United Nations symbol
- 31HA1 : Composite IBCs with a rigid plastics inner receptacle, for liquids
- Y : Packaging group II and III
- MMYY : To be replaced with the month and year, last two digits, of manufacturer
- N : Norway, the state authorizing the allocation of the mark
- NET10802A-ID : Identification of the IBC followed by "ID" to be replaced by the name or symbol of the manufacturer
- 3600 : The stacking load in kg
- 1997 : The maximum permissible gross mass in kg

PRODUCT:

Description
A cross-bottling IBC with HDPE inner receptacle performed by Greif, other parts by Mauser according to BAM 11027. The IBC has a threaded top opening for filling and a bottom valve for easy draining.

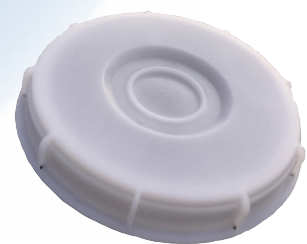


DIMENSIONS:

Packaging	Tara weight, kg	Volume, l	Height, mm	Width, mm	Length, mm
IBC, plastic pallet	53.6	1056	1160	995	1210
IBC, hybrid skid pallet	53.7	1056	1180	995	1210

CLOSING MECHANISM:

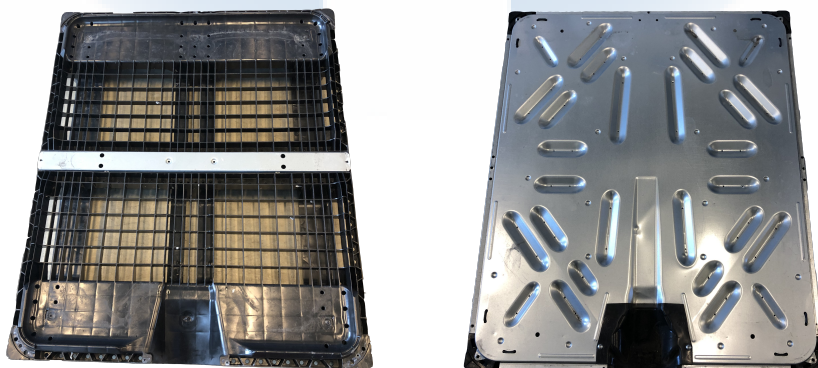
Closure type	Description	Drawing	Material	Torque, Nm
Screw cap #1	150 mm	2064co1rev0	HDPE	35
Screw cap #2	150 mm vented	2001co0rev3	HDPE	35
Screw cap #3	150 mm vented	TSF-21000100	HDPE	35
Screw cap #4	150 mm vented	2064co0rev2	HDPE	35
Screw cap #5	220 mm	2000co0rev4	HDPE	35
Screw cap #6	220 mm	2068co1rev0	HDPE	90
Screw cap #7	220 mm, vented	2068co0rev0	HDPE	90
Valve #1	2" integrated nut, butterfly	2017ass0rev5	HDPE/PP/fibreglass	-
Valve #2	2" weldable, butterfly	2019cp1rev0	HDPE/PP/fibreglass	-
Valve #3	2" plunger	2008ass0rev1	HDPE	-
Valve #4	3" integrated nut	2015ass0rev4	HDPE/PP/fibreglass	-
Valve #5, with liner	2" weldable, Butterfly	2019ass0rev5	HDPE	-
Valve #6	2" integrated nut, ball	2055ass0rev0	HDPE/PP/fibreglass	-
Screw cap #8	150 mm	2071ass0rev0	HDPE	35





INNER PACKAGING/ACCESSORIES:

Type	Description	Drawing	Material
Inner receptacle Ø150	Blow moulded	2003bo0rev11	HDPE
Inner receptacle Ø220	Blow moulded	2003bo0rev11	HDPE
Outer casing	Galvanized pipe section. Lattice-type basket screwed onto a pallet	O-C-11027	Steel
Corner protection	Black sheets of plastic	C-P-11027	HDPE
Plastic pallet, BAM 11027	Blow moulded/Welded	P-P 11027	HDPE
Hybrid skid pallet, BAM 11027	Galvanized steel sheet	H-S-P 11027	Plastic/Steel



LEGISLATION:

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.

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.

TESTS CARRIED OUT:

The following test are performed and approved according to ADR:

- 6.5.6.4 Bottom lift test
- 6.5.6.6 Stacking test
- 6.5.6.7 Leakproofness test
- 6.5.6.8 Internal pressure test
- 6.5.6.9 Drop test
- 6.5.6.13 Vibration test

APPROVAL IS VALID FOR:

The packaging shall always be used according to the requirements of the applicable UN-code and its packaging instructions. The 2" weldable butterfly valve (listed as #5) is only approved with a welded aluminum liner between neck and cap. The following test are performed and approved: Bottom lift-, drop-, leakness-, internal pressure-, stacking- and vibration test. Compatibility testing has been carried out according to ADR/RID with the content listed below:

Content	Max. relative density	Max. vapour pressure, kPa at +50°C	Packaging group
Water	1.9	114	II and III
Wetting Solution	1.6	114	II and III
Acetic Acid	1.6	114	II and III
n-Butyl acetate	1.5	114	II and III
Mixture of hydrocarbons	1.5	114	II and III
Nitric Acid	1.5	114	II and III

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0394CX	21.10.2019	NET	Type Approval, cross bottling
NET03TE39	30.10.2019	NET	Technical evaluation, P-r
NET0359A6	10.12.2020	NET	Additional cap, #8
NET10802A2	12.09.2023	NET	Additional type test, IR
NET10802A3	10.11.2023	NET	Additional type test, IR

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.

The packagings shall be manufactured, reconditioned and tested under a quality assurance programme which satisfies NET Certification, in order to ensure that each packaging meets the requirements in ADR and the guidelines in ISO 16106.



PORSGRUNN, NORWAY

11.12.2023 CERTIFICATE IS VALID UNTIL:

31.12.2028



Geir Morten Johansen
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification