

**TYPE APPROVAL OF PACKAGING FOR
TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET0393CX**

HOLDER OF CERTIFICATE:
Greif Sweden AB

MANUFACTURER: Greif Sweden AB, Kvekatorpsvägen 25, Box 203, SE-311 23 Falkenberg, Sweden

MARKING ON PACKAGING:

Each IBC intended for use under ADR regulations shall bear markings that are durable, legible, and placed in a location where they are easily visible. The letters, numerals, and symbols shall be at least 12 mm high. The IBC shall also be marked in accordance with ADR 6.5.2.2 (Additional marking) and shall display the maximum permitted stacking load as per ADR 6.5.2.2.2.1 (as shown in the figure to the right).

For this Cross bottling IBC, the inner receptacle shall be marked as follows:

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

The permissible period of use for the carriage of dangerous substances is five years from the date of manufacture of the inner receptacle, unless a shorter period is required due to the nature of the substance being transported.

UN 31HA1/Y/MMYY/N/NET0393CX - 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
- NET0393CX - ID** : Identification of the IBC followed by "ID" to be replaced by the name or symbol of the manufacturer
- 2000** : The stacking load in kg
- 1997** : The maximum permissible gross mass in kg

PRODUCT:

Description
1056 L IBC with blow-molded rigid plastic inner receptacle performed at Greif Sweden and outer galvanized steel cage and pallet according to Schütz BAM 14978 & BAM 14822



DIMENSIONS:

Packaging	Tara weight, kg	L*W*H, mm	Min. thickness, mm	Drawing
IBC, wood pallet	57.5	1200*1000*1145	1.4	IBC Trä pall
IBC, plastic pallet	58.0	1210*1000*1175	1.4	2066ppj0rev0
IBC, hybrid pallet	52.5	1210*1000*1155	1.4	2058ass0rev0
IBC, steel pallet	55.5	1195*1000*1160	1.4	SteelBAM14822

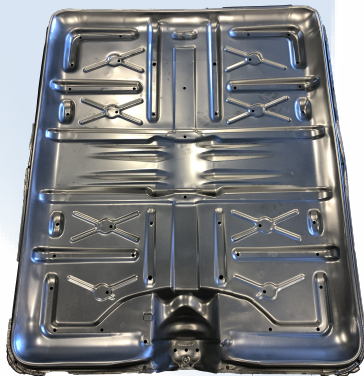
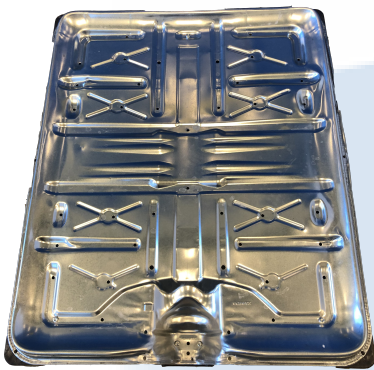
CLOSING MECHANISM:

Closure type	Description	Drawings	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	-



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-P-14822	Steel
Corner protection	Black sheets of plastic	C-P-14978	HDPE
Wood pallet	Board, plank	P-W-14978	Wood
Plastic pallet	Blow moulded/Welded	P-P-14822	HDPE
Hybrid pallet, BAM 14822	Galvanized steel sheet	P-H-14822	Plastic/Steel
Steel BAM, 14822	Galvanized steel sheet	P-S-14822	Galvanized steel



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/).

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:
 6.5.6.4 Bottom lift test
 6.5.6.5 Top lift test: WLL 1116 kg, all 4 padeyes shall be used when lifting the IBC
 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:

Transport of liquids in this IBC is allowed as long as a conventional pressure relief device is mounted. The start-to-discharge pressure shall not be higher than 65 kPa and not lower than the total gauge pressure experienced in the IBC. The IBC shall always be used according to the requirement of the applicable UN-code and its packaging instruction.
 The packaging is valid for packaging group II and III containing liquid substances covered by the liquids listed in the table below. The liquids marked with letter A - F are referring to standard liquids listed in ADR 6.1.6.1 and verified by chemical compatibility testing, ADR 6.1.5.2.6, to this specific liquid.
 The dangerous substances allowed to transport in the packaging after chemical compatibility with these liquids, are listed in the "Assimilation list" table 4.1.1.21.6 in ADR.
 The packaging shall always be used according to the requirements of the applicable UN-code and its packaging instructions.

Content	Max. relative density
Standard liquid A: Wetting Solution	1.2
Standard liquid B: Acetic Acid	1.1
Standard liquid C: n-Butyl acetate	1.0
Standard liquid D: Mixture of hydrocarbons	1.0
Standard liquid E: Nitric Acid	1.4
Standard liquid F: Water	1.9

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0393CX	04.07.19	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 and NS-EN ISO 13274:2013.



BREVIK, NORWAY

30.09.2024 CERTIFICATE IS VALID UNTIL:**30.09.2029**

Geir Morten Johansen
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification