

**TYPE APPROVAL OF PACKAGING FOR
TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET3221C**

HOLDER OF CERTIFICATE:
DS Smith Packaging Sweden AB

MANUFACTURER: DS Smith Packaging Sweden AB, Bangårdsgatan 2-4, SE-331 26
Värnamo, SWEDEN
DS Smith Packaging Sweden AB, Förrådsgatan 15, SE-542 35
Mariestad, SWEDEN

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.

Ⓢ **4G/XKG YKG/S/YR/N/NET3221C-ID**

- Ⓢ : The United Nations symbol
- 4G : Fibreboard boxes
- XKG YKG : Packaging group I and II, max gross mass in kg, see content table
- S : Intended for carriage of inner packagings, see content table
- YR : To be replaced with the year (last two digits) of manufacture
- N : Norway, the state authorizing the allocation of the mark
- NET3221C-ID : Identification of the packaging followed by "V" for Värnamo or "M" for Mariestad

PRODUCT:

Description/ Method of manufacture	Manufacturer´s joint	Material
FEFCO 0201, slotted type	Glued	Corrugated fibreboard, double wall board, details in report

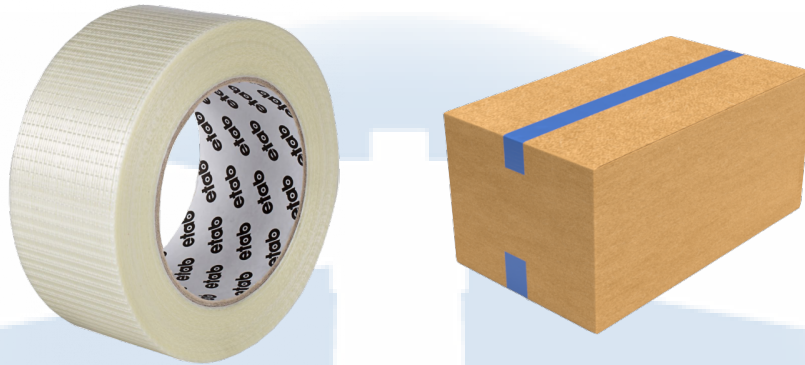


DIMENSIONS:

Box #: Volume, l	L*W*H, mm	Thickness, mm	Explosive approved	Pressure tested	Drawing
1: 275.5	785*585*600	6.9	Yes	No	KD45834
2: 75.4	785*240*400	6.9	Yes	No	M107060
3: 46.1	600*320*240	6.9	Yes	No	KD05195
5: 48.0	400*300*400	6.9	No	No	M107815
6: 48.0	400*300*400	6.9	Yes	No	V18185
7: 33.8	475*285*250	6.9	Yes	No	M89663
8: 5.7	200*190*150	6.9	Yes	No	KD06020
11: 12.0	280*190*225	6.9	Yes	No	M86517
17: 6.7	160*160*260	6.9	No	No	KD12413
19: 2.8	180*180*85	6.9	No	No	FPS 408802
20: 6.9	190*190*190	6.9	No	No	KD05961
21: 15.9	220*190*380	6.9	Yes	No	KD06020
25: 12.3	290*250*170	6.9	No	No	FPS102682
29: 10.9	300*243*150	6.9	Yes	No	KD07081
30: 23.1	318*238*305	6.9	Yes	No	KD58129
34: 29.2	380*260*295	6.9	No	No	V00436
35: 29.2	380*260*295	6.9	Yes	No	V25870
38: 34.2	383*223*400	6.9	Yes	No	M71447
42: 31.0	440*220*320	6.9	Yes	No	V23880
44: 28.7	475*285*212	6.9	Yes	No	KD02156
45: 76.7	475*475*340	6.9	Yes	No	M108132
47: 46.0	510*410*220	6.9	Yes	No	M107060
54: 41.9	700*260*230	6.9	No	No	GD24690
56: 15.7	330*280*170	6.9	Yes	No	V00436
58: 32.3	420*275*280	6.9	Yes	No	SD08682
60: 39.4	590*290*230	6.9	Yes	No	SD22708

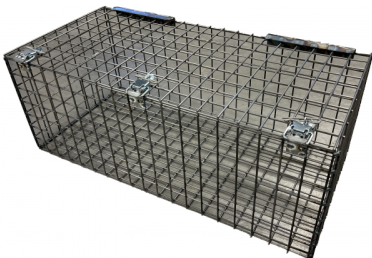
CLOSING MECHANISM:

Closure type	Producer	Drawings	Description	Dimensions	Material
Tape	Etab	Eurocol 75003016 50 mm	Tape method; "U-pattern", 50 mm over every edge	0,12 * 50 mm	ETAB Glass fibre, cross armed 810



INNER PACKAGING:

Type of packaging	Producer / Distributor	Thickness at least	Tear resistance at least, MD/TD	Seal strengt at least	Packaging #
Plastic bag where the size adjusts the current outer packaging	Any	47 µm	2.5 / 8.7 N	11 MPa	1-6, 11-25, 30-42, 54, 58
Cardboard box designed to fit each content and outer packaging	-	-	-	-	7, 8, 29, 44, 45, 47
Steel Cage	Hansson PyroTech AB	-	-	-	56, 60



LEGISLATION:

NET issues the certification on described product according to delegated authority from Norwegian 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:

6.1.5.2.3 Preparation of packaging, relativ humidity

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	Max gross mass in packaging group I, kg	Max gross mass in packaging group II, kg	Max gross mass in packaging group III, kg
Solids (Granules only, packed in a plastic bag, not articles)	Box 1: 26 kg Box 5: 35 kg Box 17: 5 kg Box 19: 2 kg Box 21: 12 kg Box 25: 9 kg Box 34: 21 kg	Box 1: 50 kg Box 2: 30 kg Box 3: 25 kg Box 5: 45 kg Box 6: 34 kg Box 11: 25 kg Box 19: 3 kg Box 21: 19 kg Box 25: 20 kg Box 30: 23 kg Box 34: 31 kg Box 35: 25 kg Box 38: 28 kg Box 42: 26 kg Box 54: 20 kg Box 58: 17kg	
UN0339, CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS		Box 8: 15 kg	

UN0373, SIGNAL DEVICES, HAND		Box 29: 19 kg Box 56: 17 kg	
UN0195, SIGNALS, DISTRES		Box 7: 38 kg Box 45: 43 kg	
UN0186, ROCKET MOTORS		Box 7: 38 kg	
UN0197, SIGNALS, SMOKE		Box 44: 33 kg Box 45: 43 kg Box 47: 20 kg	
UN0507, SIGNALS, SMOKE		Box 47: 20 kg	
UN0240, ROCKETS, LINE-THROWING		Box 29: 19 kg Box 45: 43 kg	
UN0191, SIGNAL DEVICES, HAND		Box 29: 19 kg Box 45: 43 kg	
UN 0403 FLARES, AERIAL		Box 60: 21 kg	
UN 0507 SIGNALS, SMOKE		Box 60: 21 kg	
UN 0453, ROCKETS, LINE-THROWING		Box 60: 21 kg	
UN 0506, SIGNALS, DISTRESS, ship		Box 60: 21 kg	

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET3221C#60	02.12.24	NET	Type approval
NET3221C2#34	05.01.19	NET	Type approval
NET3221C#5	04.04.19	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.



BREVIK, NORWAY

13.12.2024 CERTIFICATE IS VALID UNTIL:

30.09.2028



Mathias Werner
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification

