

BELGISCH VERPAKKINGSINSTITUUT

Vereniging zonder winstgevend doel

B.V.I.

DATUM: Brussels, 20th of June 1995.

RAPPORT Nr.: SVD/hv/G-95.106/0615

VOORWERP: Tests on wooden boxes (4D) intended to be used for the transport of dangerous goods of the packaging group II and III.

AANVRAGER: CLIP-LOK FORESCO N.V.
Diksmuidestraat 64
2300 TURNHOUT

The use of the boxes is submitted to the autorisation of the competent authority.
(ADR - RID, IMDG, ICAO)


ing. M. WITTEBOLLE
Technical Director


Sabine VAN DAEL
Dangerous Goods Department

De totale of gedeeltelijke reproductie van dit document is verboden zonder machtiging van het B.V.I.

BELGISCH VERPAKKINGSINSTITUUT
Vereniging zonder winstgevend doel
Picardstraat 15 - B-1210 Brussel

Telefoon: 32-(0)2-427 26 38
427 26 39
Telefax: 32-(0)2-425 99 75

MINISTRY OF TRANSPORT AND INFRASTRUCTURE
CO-ORDINATION COMMISSION FOR THE TRANSPORT
OF DANGEROUS GOODS


CERTIFICATE OF APPROVAL

The packaging of type 4D wooden box manufactured by CLIP-LOK FORESCO N.V.- TURNHOUT (B) and described in report n° G-95.106 issued by IBE-BVI is accepted for the transport by land (road and rail), by sea and by air of dangerous goods mentioned in following annex, within the limits prescribed in that annex.

Type-series packagings shall in every way be in conformity with the approved design type described in the above mentioned report and successfully pass all the tests specified in :

- the IMDG-Code, Annex I
- the European ADR-Agreement, appendix A5
- the International RID-Regulation, appendix V
- the ICAO Technical Instructions, part 7.

These packagings shall bear the following identification marking :

 4D/Y 240/S/*
B/CLIB-959614

The identification marking shall be indelible and preferably inscribed on one of the lateral sides of the packaging. The affixing of the marking shall not weaken the strength of the packaging.

(*) The two last digits of the year of manufacture.

Packagings of types 1H and 3H shall also be appropriately marked with the month of manufacture; this may be marked on the packaging in a different place from the remainder of the marking.

REPORT G-95.106I. Presented packages

Typ of box : Multiplex wooden box conform the description (4D) as mentioned in the different regulations.

Description of the samples :

Multiplex wooden boxes (dimensions : 966 x 871 x 967 mm), manufactured following the plan n° CLF5027B.

The boxes are foreseen with ²⁴~~28~~ plastic boxes (dimensions: 395 x 295 x 145 mm). Content of the plastic boxes : 50 pieces of 25mm cartridges.

The cartridges describe a short track number 280 (see drawing 217143), are placed in polystyrene and belong to class 1 Y3° 1.4G 0425.

Each box is closed by means of ²⁴~~28~~ clips of the type "Clip-Lok" (see specifications) and marked with the logo.

Total weight : 240 kg

Total weight of the sample : 240 kg

Number of received samples :

8 packagings ready for shipment

II. Test programme

Performance tests for wooden boxes (4D) prescribed by :

- UN - Part 9
- IMDG - Annex I - paragraph 8
- ICAO - Part 7 - chapter 4
- ADR-RID - Appendix V (A5)

1. Drop test

Filling material : see point I (inner packaging)

Number of tested packagings : 5

Drop height : 1,2 m

Drop orientation :

- first drop : flat on the top
- second drop : flat on the bottom
- third drop : flat on the longest side
- fourth drop : flat on the shortest side
- fifth drop : on a corner

Criterion

No important deterioration of the box, no loss of the contents.

2. Stacking test

Filling material : see point I (inner packaging)

Number of tested samples : 3

Stacking height : 3 m

Duration of the test : 24 hours

Stacking load :

$$(3000/967) \cdot 1 \times 240 = 505 \text{ kg}$$

Criterion

No deteriorations which could adversely affect transport safety.

No distortion liable to reduce the strength of the box or to cause instability in a stack of packages.

III. Results of the tests

1. Drop test

No important deterioration of the box, no loss of the contents.

2. Stacking test

No test sample shows any deterioration which could adversely affect transport safety.

No distortion liable to reduce the strength of the box or to cause instability in a stack of packages.

V. Conclusions

The presented packagings have successfully met the performance tests prescribed for the transport of dangerous goods of the packaging groups II and III and may be used in connection with the following conditions :

- maximal stacking height : 3 m
- maximal total weight : 240 kg

All other conditions of use are not covered by this report.

The packagings may only be used for the transport of dangerous goods by road, rail, sea or air with the agreement of the concerned competent authority.



Sabine VAN DAEL
Dangerous Goods Department

Report G-95.106/2

Brussels, the 20th of June 1995.

REPORT G-95.106

The use of the UN mark hereafter, is still submitted to the authorization of the competent authority.


The hereafter mentioned packagings :

- wooden boxes (4D)

that are the subject of report :

- G-95.106 of the 20th of June 1995

may obtain the hereafter mentioned UN mark :

 4D/Y 240/S/* * : year of manufacture
B/CLIE - ** **: registration number to be delivered by the authority

as far as the use of the above mentioned packagings in the IMDG, ICAO and ADR-RID prescriptions is provided for.

The stacking test was effectuated for a stacking height of 3 m.

Gross weight : 240 kg

Firm : CLIP-LOK FORESCO N.V.
Diksmuidestraat 64

2300 TURNHOUT



Sabine VAN DAEL
Dangerous Goods Department

The closing devices of the approved packagings shall be in accordance with those described in the report and bear the following identification mark :

If the closing devices are manufactured by subcontractors, the manufacturer to whom the certificate of approval was assigned remains directly responsible for the conformity of the whole packaging.

Any alteration of the above mentioned packaging (including the closing devices) or of its operating conditions implies the automatic cancellation of this certificate.

The Commission reserves at any time the right to invalidate this certificate.

Special requirements :

Outer packaging and cushioning material must be at least as efficient as those described in the report.

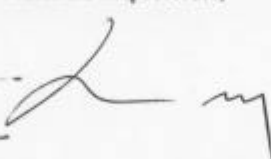
Annex : 3 pages

Brussels, 26th of July, 1995.

For the Administration
of Transport,

Chief of District of the
Maritime Inspectorate,

for the Civil Aviation
Administration,



Ir. Cl. RENARD

Ir. M. BROUCKE

Ing. P. LECOMTE


Adresses : CLIP-LOK INTERNATIONAL
Central Office
Europlaza Hoogoorddreef 54 E
NL-1101 BE AMSTERDAM ZO

Ministère des Communications
Commission de coordination des transports
de marchandises dangereuses
Ministerie van Verkeerswezen
Coördinatiecommissie voor het vervoer
van gevaarlijke goederen 96.14

Annex to UN certificate of approval

UN marking

Road and rail transport

 4D/Y 240/S/*
B/CLIE-959614

Substances accepted for carriage and
conditions for packing

class 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 8 and 9

see marginal

2300 to 2312, 2400 to 2412, 2430 to 2442, 2470 to 2482, 2500 to 2512, 2550 to 2559, 2600 to 2612, 2800 to 2812, 2900 to 2912 (ADR)

300 to 312, 400 to 412, 430 to 442, 470 to 482, 500 to 512, 550 to 559, 600 to 612,
800 to 812, 900 to 912 (RID)

Substances are allowed if the following conditions are fulfilled :


Classification under the letters	max. relative density	max. vapour pressure at 50° C (kPa)	max. gross mass (kg)
a			
b			240
c			240

Other class

See ADR or RID



ANNEX TO THE CERTIFICATE OF APPROVAL

 4D/Y 240/S/*
B/CLIE-959614

FOR SEATRANSPORT

General conditions

- This packaging may only be used for the products for which this packaging is allowed in the IMDG-code and under the conditions specified in that code.
- The product may not attack the packaging (nor the closing devices).
- For products of class 1, the packaging shall also be approved by the "Ministry of Economic Affairs, Administration of the Mines, Belgian service of Explosives, J.A. de Motstraat 30, 1040 Brussels".
- The manufacturer must inform the user of the packaging and all persons, responsible for the loading and the stowing of the ship, of the conditions specified in this certificate.
- All accidents or events that may influence the security adversely during loading, during the voyage or during the unloading of the ship, shall reported to the Belgian Maritime Inspectorate.



AUTHORIZED GOODS AND PRESCRIPTIONS FOR THE TRANSPORT BY AIR

1. Combination packagings (outer packagings with inner packagings) and single packagings to be used for the transport of solids :

Classes 1*, 2, 3, 4, 5, 8 and 9 : Division 6.1

All the products authorized for transport by air according to table 2-14 of the ICAO Technical Instructions and for the maximum net quantities indicated in that table. The type of packaging covered by the certificate of approval (1A2, 4C1 and so on ...) must conform to the appropriate packaging instructions detailed in Part 3 of the ICAO Technical Instructions.

See part 3, Chapter 1 and Part 4, Chapters 2 and 3 of the ICAO Technical Instructions about the general packaging instructions, the marking and label specifications.

- products classified in the packing group(s) II and III
- gross mass authorized per package ≤ 240 kg
- * For this class, the package must also be approved by the :
Ministry of Economic Affairs
Bestuur van het Mijnwezen/Administration des Mines
Service des Explosifs/Dienst der Springstoffen
rue J.A. de Motstraat 30
1040 - BRUSSELS

2. Single packagings to be used for the transport of liquids

Classes 3, 8 and 9, divisions 4.3, 5.1 and 6.1

All the products authorized for transport by air according to table 2-14 of the ICAO Technical Instructions and for the maximum net quantities indicated in that table. The type of packaging covered by the certificate of approval (1A1, 3A1, 1H1 and so on ...) must conform to the appropriate packaging instructions detailed in Part 3 of the ICAO Technical Instructions.

See part 3, Chapter 1 and Part 4, Chapters 2 and 3 of the ICAO Technical Instructions about the general packaging instructions, the marking and label specifications.

- products classified in the packing group(s)
with a corresponding relative density \leq
- vapour pressure at 50° C \leq



