

## CERTIFICATE OF APPROVAL

N° 230099

The packaging of type 4H2(V) plastic box (60l) with ref.: **4H2V-5100** assembled by **ENGELS LOGISTIEK – EINDHOVEN (NL) (ref in UN-mark: n°267)** and described in reports n° **G-22.273 & DGP-23.025** 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 packaging 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, Part 6
- the European ADR-Agreement, Part 6
- the International RID-Regulation, Part 6
- the ICAO Technical Instructions, Part 6

These packaging shall bear the following mark:

4H2 packaging:  
 **4H2/X25/S/\***  
**B/267-230004**  
**X25=Y30**

4H2V combination packaging:  
 **4H2V/X25.1/S/\***  
**B/267-230004**

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

(\*) The two last digits of the year of manufacturing.

The closing devices of the approved packaging shall be in accordance with those described in the report.

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 Competent Authorities reserves at any time the right to withdraw this certificate.

Special requirements:

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

Details: see annex IV

Annex: 4 pages

Brussels, 18/04/2023.



Dr. Ann Delmotte  
General Manager  
Belgium Packaging Institute



Owner certificate: **(ref in UN-mark: n°267)**

**ENGELS LOGISTIEK BV  
PARK FORUM 1139  
NL - 5657 HK EINDHOVEN**

230099

**CERTIFICATE OF APPROVAL N° 230099**

**ANNEX I TO THE UN CERTIFICATE OF APPROVAL: ROAD AND RAIL TRANSPORT**

UN mark

4H2 packaging:  
 **4H2/X25/S/\***  
**B/267-230004**  
**X25=Y30**

4H2V combination packaging:  
 **4H2V/X25.1/S/\***  
**B/267-230004**

Substances accepted for carriage and conditions for packing:

Substances of the classes 1,3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 8 and 9 if allowed by the following sections of the ADR/RID and under the conditions specified in these sections: 3.2, 4.1.4 and 4.1.10.

The following conditions must also be fulfilled:

Classification under the packing group	max. gross mass (kg) (as 4H2)	max. gross mass (kg) (as 4H2V)
I	25	25.1
II	30	25.1
III	30	25.1

For substances and articles of class 1, the packaging shall also be approved by

**FPS ECONOMY**

Direction générale Qualité et Sécurité / Algemene Directie Kwaliteit en Veiligheid  
 Service Réglementation Sécurité / Dienst Reglementering Veiligheid  
 North Gate III  
 Boulevard du Roi Albert II, 16  
 1000 - BRUSSELS



**CERTIFICATE OF APPROVAL N° 230099****ANNEX II TO THE CERTIFICATE OF APPROVAL: SEA TRANSPORT**UN mark

4H2 packaging:

**4H2/X25/S/\*  
B/267-230004  
X25=Y30**

4H2V combination packaging:

**4H2V/X25.1/S/\*  
B/267-230004**General conditions

- This packaging may only be used for the dangerous goods for which this packaging is allowed in the IMDG-code and under the conditions specified in that code.
- The dangerous goods may not attack the packaging (nor the closing devices).
- For substances and articles of class 1, the packaging shall also be approved by

**FPS ECONOMY**

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Service Réglementation Sécurité / Dienst Reglementering Veiligheid  
North Gate III  
Boulevard du Roi Albert II, 16  
1000 - 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 be reported to

**FPS Mobility and Transport**

Directorate General Shipping  
Port State Control  
Posthoflei 3  
2600 Berchem  
e-mail: [SC.Antwerpen@mobiliteit.fgov.be](mailto:SC.Antwerpen@mobiliteit.fgov.be)  
Tel. +32 478 82 58 09



**CERTIFICATE OF APPROVAL N° 230099****ANNEX III TO THE CERTIFICATE OF APPROVAL: AIR TRANSPORT**UN mark

4H2 packaging:  
**4H2/X25/S/\***  
**B/267-230004**  
**X25=Y30**



4H2V combination packaging:  
**4H2V/X25.1/S/\***  
**B/267-230004**

The type of packaging covered by this certificate of approval may be used for the transport by air under following conditions:

- The type of packaging must be allowed by the appropriate packing instruction as detailed in Part 4 of the Technical Instructions.
- The quantities must never exceed the maximum allowed quantities in table 3-1 of the Technical Instructions.
- For combination packagings, the quantities per inner packaging(s) must also not exceed the quantities permitted by the applicable packing instruction.
- The packaging must comply with the general packing requirements of Part 4 chapter 1 and with the packaging specifications of Part 6 of the Technical Instructions.
- For substances and articles of class 1, the package must also be approved by the:

**FPS ECONOMY**

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**CERTIFICATE OF APPROVAL N° 230099**
**ANNEX IV TO THE CERTIFICATE OF APPROVAL:**
UN mark


4H2 packaging:  
**4H2/X25/S/\***  
**B/267-230004**  
**X25=Y30**



4H2V combination packaging:  
**4H2V/X25.1/S/\***  
**B/267-230004**

Report G-22.273					Classification under the packing group max. gross mass (kg)		
					I	II	III
Content	1 plastic bag containing solids. The bag is closed with a knot, tape, metal wire or plastic straps.				25	30	30
		 					

Report DGP-23.025		Classification under the packing group max. gross mass (kg)		
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		I	II	III
Content	V type content.	25.1	25.1	25.1

	<u>4H2V Packaging specification:</u>			
	Box weight:	4.104 kg		
	Minimum weight of absorbent material with plastic bag:	5.979 kg		
	Minimum distance between the inner packaging in horizontal direction long side (A):	56.8 mm		
	Minimum distance between the inner packaging and the inner side of the box in horizontal direction long side (B):	56.8 mm		
	Minimum distance between the inner packaging and the inner side of the box in horizontal direction short side (D):	37.7 mm		
	Minimum distance between the inner packaging on the short side (C):	37.7 mm		
	Minimum distance between the inner packaging and the side of the box in vertical direction (E):	62.5 mm		
	Maximum gross weight of the content:	15 kg		
	Maximum gross weight of the 4H2V package:	25.1 kg		

