



**Vehicle
Certification
Agency**



**Maritime &
Coastguard
Agency**



**Department
for Transport**



VCA Dangerous Goods Office
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CERTIFICATE OF PACKAGING PERFORMANCE

Issued on behalf of the Department for Transport, Civil Aviation Authority and the Maritime and Coastguard Agency by the VCA Dangerous Goods Office

Certificate serial number: **5659**

NOT TRANSFERABLE

Application No.: **6238**

Issue number and date: **05 23/01/2020**

Issued to: **TRI-WALL UK LTD**
Wonastow Road
Monmouth
Monmouthshire
NP25 5TW

Packaging type: **4GV**

Description:

**Fibreboard box, special packaging
conforming to the provisions of
6.1.5.1.7. of the UN Recommendations**

with ends

Battened No corrugated/solidboard: **Corrugated** style: **0201** mfg: **Stitched**

Dimensions: **293** length x **213** width x **332** height

Closure top flaps: **H taped 50mm reinforced tape**

strapped: **No**

Closure bottom flaps: **H taped 50mm reinforced tape**

Fittings and material: **Top pad:** **No-**

Liner: **Yes- Plastics bag**

Bottom Pad: **No-**

Layer Pad: **No-**

Dividers: **No-**

Void Filler: **Yes- Vermiculite**

Contents: **Glass bottles with liquid contents in vermiculite cushioning**

Details Inner packages: **(1)**

Number:

Capacity:

Type:

Closure type:

Closure size:

Closure material:

Gasket:

Torque value:

Special Notes:

Approved to contain any type of inner packaging up to a maximum gross mass of inner packagings of 1.4 kg. This pack is not approved for Class 1 or Class 7 goods.

The packaging is approved, as provided in the relevant transport rule, to contain liquids in inner packagings.

Packing Group **Maximum relative density (d)** **Maximum gross mass (kg)**

I	-	7
II	-	7
III	-	7

Board Grammages (gsm) and Sources:

Outer:	440	Flute 1:	127 C
Middle:	135	Flute 2:	175 A
Extra Middle:		Extra Flute:	
Inner:	186	Combined:	1254

Box Source: **TRI-WALL EUROPE** **Town** **Monmouth**

Further detail and options on schedule issue no n/a dated n/a.

It is certified that samples of the packaging design type described above have been tested in accordance with the provisions of the United Nations Recommendations on the Transport of Dangerous Goods, Chapter 6.1 (and the equivalent provisions in RID/ADR, the IMDG Code and the ICAO Technical Instructions) and successfully met the criteria described in paragraphs 6.1.5.3 to 6.1.5.6: at test levels of:

Drop Height (m)	Stack Height (m)	Relative density (d)
1.8	3	-

THE TEST REPORT(S) AND ITS APPENDICES ARE AN INTEGRAL PART OF THIS DOCUMENT

Packagings of the sample specifications shall bear the marking:

U **4GV/X7/S/**/GB/5659**

**** To be replaced by the last two digits of the year of manufacture**

Revalidation due by: 31/12/ 2024

For further details see www.vca.gov.uk

Signed:

*Liz
Girling*

Keith F B White, Acting Head of Dangerous Goods VCA DGO

Amendments or additions to this certificate or the design type specification described therein other than those authorised by the certifying body render the certificate invalid.

Conditions of issue

1. This certificate is issued by the Vehicle Certification Agency Dangerous Goods Office (hereinafter called VCADGO) as the certifying body acting under the authority of the Department for Transport, the Civil Aviation Authority and the Maritime and Coastguard Agency, in accordance with dangerous goods guidance No.2 (available on the DfT website).
2. This certificate is issued to the holder at the registered address shown overleaf. It is not transferable and remains the property of VCADGO.
3. VCADGO shall be notified immediately of any changes affecting the certificate holder, including change of ownership, address or cessation of trading.
4. This certificate confirms that the packaging design type has been tested by an accredited laboratory and has satisfied the Test Requirements for Packagings, Large Packagings or IBCs (as applicable) of part 6 of RID; ADR, IMDG; ICAO¹. It is issued on the basis of one or more reports describing those tests and detailing the specifications of the approved packaging.
5. The certificate holder is authorised to apply the unique package marking identified by this certificate (hereinafter called the "UN mark") only to packagings which conform to the approved design type specifications and which comply with the relevant requirements of part 6 of RID¹, ADR¹, IMDG¹; ICAO¹.
6. The design type tests have been carried out on packagings prepared as for carriage. Combination packaging including large packagings have been tested in conjunction with the inner packaging(s) or article(s) which are to be carried. In this case the UN mark shall be applied to the outer packaging, but not to the inner packagings or articles. The UN mark is valid only when the outer packaging contains inner packaging(s) or article(s) described in this certificate and/ or the test report(s); use with other inner packaging(s) or articles is not permitted and will invalidate the approval.
7. The certificate holder may not mark or cause to be marked any packaging which, allowing for accepted manufacturing tolerances, deviates from the approved design type specification. If the packaging is to be modified from the design type specification identified in the test report or certificate, the certificate holder shall inform VCADGO immediately. A fee may be charged for activity associated with granting approval for any such modification.
8. The UN mark provides a guide to the test levels and use of a packaging but additional conditions in this certificate and associated test report must be taken into account.
9. The UN mark indicates that the packaging which bears it corresponds to a successfully tested design type and that it complies with the provisions of the relevant manufacturing test requirements of RID¹, ADR¹, IMDG¹; ICAO¹.
10. The UN mark does not imply that the packaging may be used in any particular mode of transport or for any particular substance. The type of packaging, its maximum capacity and/or mass and any special requirements are specified for each substance and for each mode of transport in RID¹, ADR¹, IMDG¹; ICAO¹ as applicable. Attention is also drawn to S6 of the Health and Safety at Work etc Act 1974¹ - General Duties of manufacturers etc. as regards articles and substances for use at work.
11. The certificate holder must ensure that the user of the packaging is made aware of and the need to check that the packaging is compatible with its contents.
12. It is noted that
 - A packaging design type is defined by the design, size, material and thickness, manner of construction and packing but may include various surface treatments. It also includes packagings which differ from the design type only in the lesser design height. The UN mark is valid for packagings of the design type(s) tested only as defined in the foregoing;
 - Packagings bearing the UN mark specified in this certificate shall be manufactured in accordance with an appropriate quality assurance programme;
 - Proof may be required, at any time, by retesting, that packagings bearing the specified UN mark meet the conditions of issue;
 - When applied to packaging, the UN mark allocated in this certificate must be durable, legible and at least 12mm high except for packagings of 30 litres or 30kg capacity, or less, when they shall be at least 6mm in height and for packagings of 5 litres or 5kg or less when they shall be of an appropriate size;
 - All single packaging for liquids shall undergo a leakproofness test before use.
13. This certificate does not exempt any persons or class of persons or any dangerous goods or class of dangerous goods from all or any of the requirements or prohibitions imposed by or under any legislation including secondary legislation which may apply.

¹ The legislation referred to above may be obtained from several sources, details may be found in Guidance Note 2.



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CERTIFICATE OF PACKAGING PERFORMANCE

Issued on behalf of the Department for Transport, Civil Aviation Authority and the Maritime and Coastguard Agency by the VCA Dangerous Goods Office

Certificate serial number: **6221**

NOT TRANSFERABLE

Application No.: **8071**

Issue number and date: **04 23/01/2020**

Issued to:
TRI-WALL UK LTD
Wonastow Road
Monmouth
Monmouthshire
NP25 5TW

Packaging type: 4G

Description:
Fibreboard box

with ends

Battened No corrugated/solidboard: **Corrugated** style: **0201** mjf: **Stitched**

Dimensions: **293** length x **213** width x **336** height

Closure top flaps: **U-taped with 50mm wide tape**

strapped: No

Closure bottom flaps: **U-taped with 50mm wide tape**

Fittings and material: **Top pad: No-**

Liner: No-

Bottom Pad: No-

Layer Pad: No-

Dividers: No-

Void Filler: Yes- Vermiculite

Contents: Inner packagings tested with either ethylene glycol for liquids or 125 micron sand for solids

Details Inner packages: (1)

Number:

Capacity:

Type:

Closure type:

Closure size:

Closure material:

Gasket:

Torque value:

Special Notes:

The maximum gross mass of the box depends on the inner packagings and contents (see schedule)

The packaging is approved, as provided in the relevant transport rule, to contain liquids in inner packagings.

Packing Group **Maximum relative density (d)** **Maximum gross mass (kg)**

I	1.4	12
II	2.1	15
III	2.1	15

Board Grammages (gsm) and Sources:

Outer:	420	Flute 1:	120 C
Middle:	130	Flute 2:	150 A
Extra Middle:		Extra Flute:	
Inner:	170	Combined:	1180

Box Source: **TRI-WALL EUROPE** **Town: Monmouth**

Further detail and options on schedule issue no 02 dated 04/08/2014.

It is certified that samples of the packaging design type described above have been tested in accordance with the provisions of the United Nations Recommendations on the Transport of Dangerous Goods, Chapter 6.1 (and the equivalent provisions in RID/ADR, the IMDG Code and the ICAO Technical Instructions) and successfully met the criteria described in paragraphs 6.1.5.3 to 6.1.5.6: at test levels of:

Drop Height (m)	Stack Height (m)	Relative density (d)
2.1	3	2.1

THE TEST REPORT(S) AND ITS APPENDICES ARE AN INTEGRAL PART OF THIS DOCUMENT

Packagings of the sample specifications shall bear the marking:

U **4G/X12/S/**/GB/6221**

** To be replaced by the last two digits of the year of manufacture

Revalidation due by: 31/12/ 2024

For further details see www.vca.gov.uk

Signed:

*Liz
Girling*

Keith F B White, Acting Head of Dangerous Goods VCA DGO

Conditions of issue

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5. The certificate holder is authorised to apply the unique package marking identified by this certificate (hereinafter called the "UN mark") only to packagings which conform to the approved design type specifications and which comply with the relevant requirements of part 6 of RID¹, ADR¹, IMDG¹; ICAO¹.
6. The design type tests have been carried out on packagings prepared as for carriage. Combination packaging including large packagings have been tested in conjunction with the inner packaging(s) or article(s) which are to be carried. In this case the UN mark shall be applied to the outer packaging, but not to the inner packagings or articles. The UN mark is valid only when the outer packaging contains inner packaging(s) or article(s) described in this certificate and/ or the test report(s); use with other inner packaging(s) or articles is not permitted and will invalidate the approval.
7. The certificate holder may not mark or cause to be marked any packaging which, allowing for accepted manufacturing tolerances, deviates from the approved design type specification. If the packaging is to be modified from the design type specification identified in the test report or certificate, the certificate holder shall inform VCADGO immediately. A fee may be charged for activity associated with granting approval for any such modification.
8. The UN mark provides a guide to the test levels and use of a packaging but additional conditions in this certificate and associated test report must be taken into account.
9. The UN mark indicates that the packaging which bears it corresponds to a successfully tested design type and that it complies with the provisions of the relevant manufacturing test requirements of RID¹, ADR¹, IMDG¹; ICAO¹.
10. The UN mark does not imply that the packaging may be used in any particular mode of transport or for any particular substance. The type of packaging, its maximum capacity and/or mass and any special requirements are specified for each substance and for each mode of transport in RID¹, ADR¹, IMDG¹; ICAO¹ as applicable. Attention is also drawn to S6 of the Health and Safety at Work etc Act 1974¹ - General Duties of manufacturers etc. as regards articles and substances for use at work.
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 - Packagings bearing the UN mark specified in this certificate shall be manufactured in accordance with an appropriate quality assurance programme;
 - Proof may be required, at any time, by retesting, that packagings bearing the specified UN mark meet the conditions of issue;
 - When applied to packaging, the UN mark allocated in this certificate must be durable, legible and at least 12mm high except for packagings of 30 litres or 30kg capacity, or less, when they shall be at least 6mm in height and for packagings of 5 litres or 5kg or less when they shall be of an appropriate size;
 - All single packaging for liquids shall undergo a leakproofness test before use.
13. This certificate does not exempt any persons or class of persons or any dangerous goods or class of dangerous goods from all or any of the requirements or prohibitions imposed by or under any legislation including secondary legislation which may apply.

¹ The legislation referred to above may be obtained from several sources, details may be found in Guidance Note 2.

ITEM	DESCRIPTION	WEIGHT (grams)	No	For Solids or Liquids	Cap L	Closure	Size (mm)	Torque (Nm)	Wad/ Gasket	Container Source	Pkg Grp I		Pkg Grp II		Pkg Grp I		Pkg Grp II		Solids particle size(microns)
											Max R.D	Max R.D	Max. Kg	Max. Kg	Max. Kg	Max. Kg			
1	Plastics jerrican	135	1	Liquids	5.00	T/E Plastics screwcap	38	2.36	Polyfoam wad	Plastic Bottle Supplies	1.4	2.1	10.0	13.00	n/a				n/a
2	Plastics jerrican	80	2	Liquids	2.50	T/E Plastics screwcap	38	2.36	Polyfoam wad	Plastic Bottle Supplies	1.4	2.1	9.0	13.00	n/a				n/a
3	Plastics jerrican	44	4	Liquids	1.00	T/E Plastics screwcap	38	2.36	Polyfoam wad	Plastic Bottle Supplies	1.4	2.1	8.0	11.00	n/a				n/a
4	Plastics Powder Jar	130	2	Solids	2.50	T/E Plastics screwcap	80	3.00	Polyfoam disc	Mauser	1.65	1.65	11.1	11.10	125				125
5	Plastics Powder Jar	75	4	Solids	1.00	T/E Plastics screwcap	50	3.00	None	Mauser	1.65	1.65	9.2	9.15	125				125
6	Plastics Powder Jar	47	6	Solids	0.50	T/E Plastics screwcap	50	3.00	None	Mauser	1.65	1.65	8.7	8.70	125				125
7	Plastics Powder Jar	30	6	Solids	0.25	T/E Plastics screwcap	45	3.00	None	Mauser	1.65	1.65	5.6	5.63	125				125
8	Metal Jerricans	280	2	Liquids	2.50	Tin screwcap / push-in tin cap	38/30	2.50	Cardboard wad	Carnaud Metalbox	1.4	2.1	11.0	15.00	n/a				n/a
9	Metal Jerricans	137	4	Liquids	1.00	Tin screwcap / push-in tin cap	38/31	2.50	Cardboard wad	Carnaud Metalbox	1.4	2.1	9.0	13.00	n/a				n/a
10	Amber Glass Bottle	570	2	Liquids	1.00	Plastics screwcap	31	3.00	Polycone seal	Beatson Clark	1.4	2.1	7.0	9.00	n/a				n/a
11	Amber Glass Bottle	340	2	Liquids	0.50	Plastics screwcap	32	3.00	Polycone seal	Beatson Clark	1.4	2.1	5.0	6.00	n/a				n/a
12	Plastics jerrican	44	5	Liquids	1.00	T/E Plastics screwcap	38	2.36	Polyfoam wad	Plastic Bottle Supplies	1.4	2.1	9.3	13.00	n/a				n/a
13	Plastics bottle	45	6	Liquids	1.00	Plastics screwcap	28	3.00	Polyfoam wad	Plastic Bottle Supplies	1.4	2.1	11	15.00	n/a				n/a
14	Plastics bottle	27	8	Liquids	0.50	Plastics screwcap	28	3.00	Polyfoam wad	Plastic Bottle Supplies	1.4	2.1	7.8	10.80	n/a				n/a
15	Plastics bottle	22	24	Liquids	0.25	Plastics screwcap	24	3	Polyfoam wad	Plastic Bottle Supplies	1.4	2.1	8.3	11.70	n/a				n/a
16	Metal tin	110	5	Liquids	1.00	Push-in tin cap	90	n/a	None	Pack2pack Halsteren	1.4	2.1	10.1	14.00	n/a				n/a
17	Metal tin	110	5	Solids	1.00	Push-in tin cap	90	n/a	None	Pack2pack Halsteren	1.4	1.65	11.2	11.20	125				125
18	Metal tin	360	1	Liquids	5.00	Push-in tin cap	160	n/a	None	Pack2pack Halsteren	1.4	2.1	9.4	13.20	n/a				n/a
19	Metal tin	360	1	Solids	5.00	Push-in tin cap	160	n/a	None	Pack2pack Halsteren	1.4	1.65	10.5	10.50	125				125
20	Metal tin	239	1	Liquids	2.50	Push-in tin cap	153	n/a	None	Pack2pack Halsteren	1.4	2.1	4.7	6.50	n/a				n/a
21	Metal tin	239	1	Solids	2.50	Push-in tin cap	153	n/a	None	Pack2pack Halsteren	1.65	1.65	6.3	6.30	125				125
22	Metal Jerricans	280	2	Liquids	2.50	Tin screwcap	38	2.5	LDPE	Carnaud Metalbox	1.4	2.1	10.2	14.30	n/a				n/a
23	Metal Jerricans	280	2	Solids	2.50	Tin screwcap	38	2.5	LDPE	Carnaud Metalbox	1.65	1.65	11.4	11.40	125				125

