



Package Type

Designed as a re-usable Type A package for the shipment of solids or liquids.

Certification

The package has previously been licensed under the requirements for the US DOT Specification 7A Type A Packages as defined in 49 CFR (HM 181) and the IAEA SSR-6 2018 Regulations for the Safe Transport of Radioactive Material. Currently undergoing Type A recertification tests which will enable an increase range of contents to be transported.

Description

The SAFDRUM® CU106 is designed as a reusable package and manufactured from stainless steel to give a long service life. The SAFDRUM® CU106 consists of an Outer Drum (Design No CU106) which carries a Containment Vessel (CV) (either Design No CU116, CU107 or CU110) within polyethylene shock absorbing packing.

The SAFDRUM® CU106 has a fabricated stainless steel body and pressed steel lid held in place with a painted steel closure band. The inner CVs (Design Nos CU116, CU107 and CU110) are fabricated from stainless steel and have a bolted flange closure fitted with an O-ring seal.

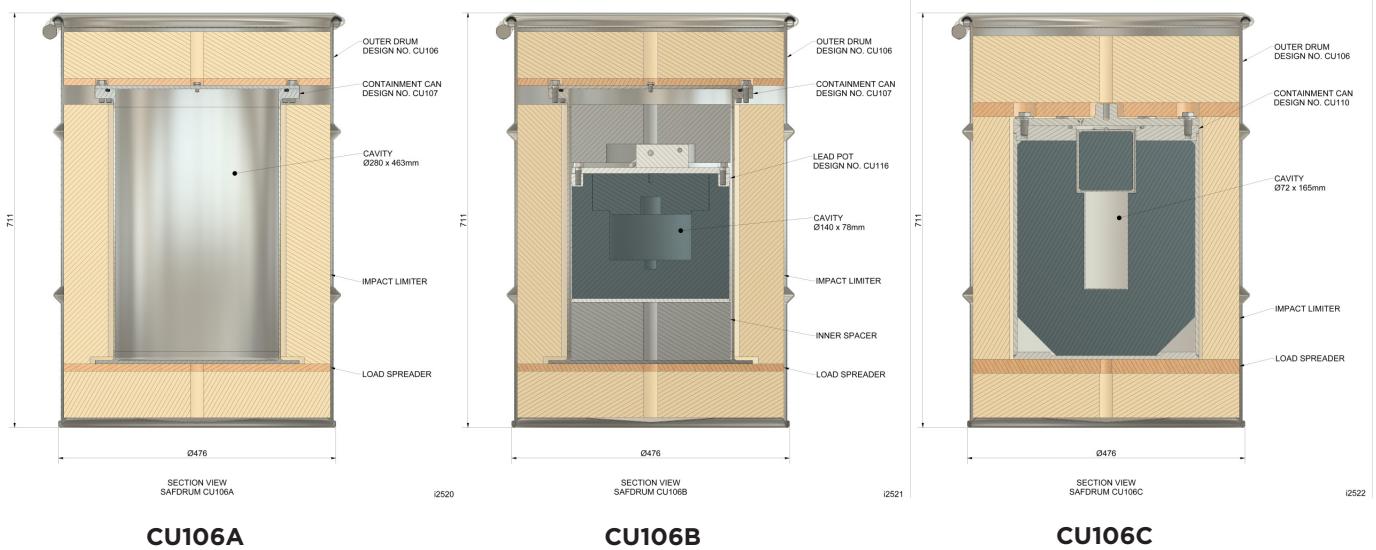
Containment / Shielding

The containment system consists of the inner CV, with the containment being provided by the welded stainless vessel walls and the bolted flange closure fitted with an O-ring seal. The lid is provided with a test point for periodic leakage testing. Secondary containment is provided by the product containers.

The shielded inner CVs (Design Nos CU116 & CU110) include lead shielding which range from 80 mm to 120 mm thickness.



Section through Package Design No CU106A/B/C



Approved Contents

- Radioactive material, in solid or liquid form. A variety of sealed primary containers can be used with liquid contents (e.g. vials), however absorbent material must be used with primary containers that are not sealed (e.g. syringes).
- Maximum liquid capacity is nominally 20 litres (within the CU106A, which has a CV volume of 28 litres).
- Radioactive contents are limited to A1 for material in special form and A2 for open form material, with the additional requirement that the external radiation levels of the package, as loaded and presented for transport, are within regulatory limits.
- The contents are also limited to A1 for material in special form and A2 for other material, with the additional requirement that the external radiation levels of the package, during routine and normal conditions of transport, as consigned for transport, are within regulatory limits.

Modes of Transport

By road, rail, sea and air.

Physical Data

Component	Outer Drum Design No CU106	Containment Vessel Design No CU116	Containment Vessel Design No CU107	Containment Vessel Design No CU110
Dimensions				
External Diameter (mm)	520	273	351	318
External Height (mm)	711	271	493	440
Internal Diameter (mm)	463	140	280	72
Internal Height (mm)	666	78	463	165
Weights				
Tare Weight (kg)	15	149.5	34	333.5
Maximum Permitted Contents Weight (including payload & packing) (kg)		2.5	30	4.5
Maximum Gross Weight of Package (including Contents) (kg)		167 (CU106B)	79 (CU106A)	353 (CU106C)