

**Package Type**

Designed as a Type B(U) Package to the IAEA SSR-6 2018 Regulations for the Safe Transport of Radioactive Material.

**Certification**

Certified as a Type B(U) package by the UK Competent Authority.

**Description**

The SAFSHIELD® 2917A consists of an Outer Casket (Design No 2917) which carries a lead shielded inner Flask (Design No 2916). The 2917 Outer Casket is a double-shell welded cylindrical casket manufactured from low carbon steel with a bolted closure at the base. The space between the shells is filled with phenolic resin foam thermal insulation – Thermally Insulating Shock Absorbing Foam (TISAF). Aluminium honeycomb is used within the Casket to provide impact protection to the inner 2916 Flask.

The inner 2916 Flask is a robust welded stainless steel construction incorporating lead shielding. Access to the cavity is gained by removing a bolted flange and the lead shielded plug.

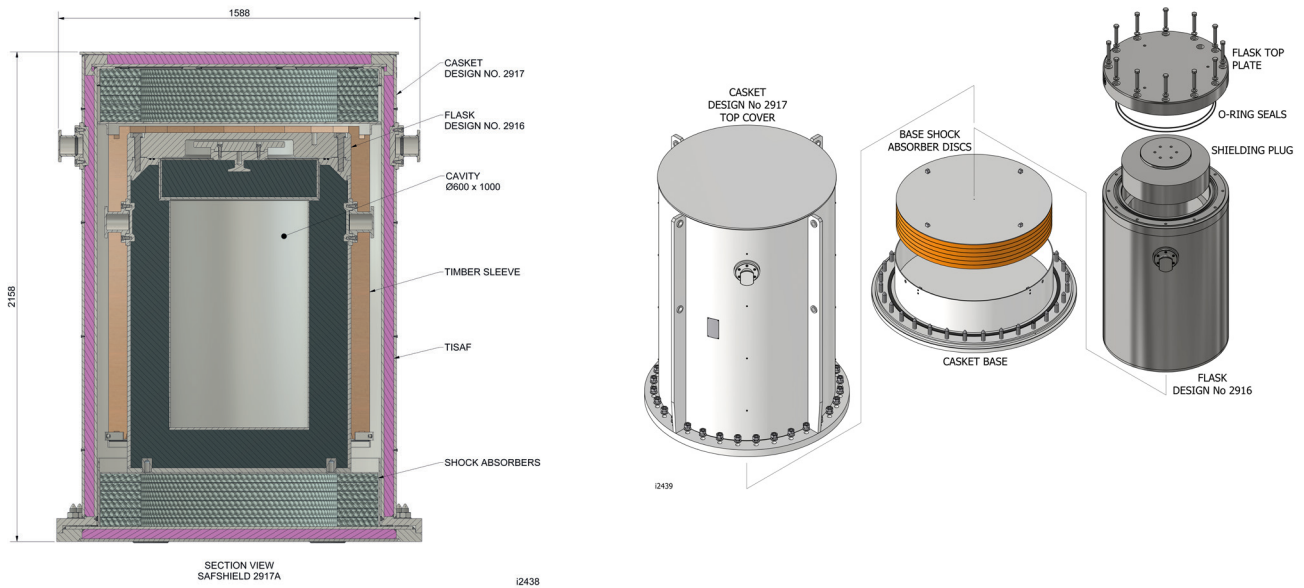
**Containment / Shielding**

Shielding and containment is provided by the inner 2916 Flask. The inner Flask has a lead wall thickness of ~180 mm and a lid with double O-ring seals. The interspace between the O-ring seals facilitates leakage testing to ensure that the seals achieve the prescribed levels of leak tightness.

As the lid is separate from the inner Flask shielded plug, the final closure and subsequent leakage testing can be carried out in a low radiation exposure area.



## Section through Package Design No 2917A



### Approved Contents

- The inner Flask is designed to provide shielding and containment of solid radioactive material, either in the form of processed material or an item for disposal. The radioactive contents must be carried in a suitable primary container to facilitate handling. Radioactive material which includes radioactive gas (e.g. fission or decay products) may also be carried subject to safety review by a Competent Authority.
- Previous approval allowed for a total activity of 155 TBq and a contents heat limit of 65 watts. These could be amended if required, subject to regulatory approval.

### Modes of Transport

By road, rail, sea and air.

### Physical Data

Component	Outer Casket Design No 2917	Inner Flask Design No 2916
<b>Dimensions</b>		
External Diameter (mm)	1400	983
External Height (mm)	2158	1487
Internal Diameter (mm)	1030	600
Internal Height (mm)	1530	1000
<b>Weights</b>		
Tare Weight (kg)	4000	8700
Maximum Permitted Contents Weight (kg)	1000	
Maximum Gross Weight of Package (including Contents) (kg)	14000	