

Containers

Portsmouth Aviation is a major container supplier to the defence and aerospace industries. Our Military Packaging Capability Accreditation, (DR/14), ensures that our designs meet MoD requirements, enabling us to create new package solutions and produce the necessary Services Packing Instruction Sheets.



PA utilise these disciplines to design a range of Special to Type Containers (STC) for various weapon and component containers.

Our approach ensures that all design requirements and considerations have been adequately incorporated into the product.

Engineering analysis utilising results of Finite Element Analysis (FAE) modelling is used to demonstrate compliance to customer requirements as part of the formal qualification process which is verified by trials and testing to Def Stan 00-35 or other standards where necessary.

The key features of the STC container design concept include the following:

- Extruded Aluminum Construction
- Fabricated Pallet Base Design
- Internal Inert Foam Furniture
- Slings, Tie Down and Lifting Points
- Desiccant Port
- Humidity Indicator
- Document Tube
- Container Stacking Feature
- Fork Lift Pockets
- Interfaces to current In Service Ground Support Equipment (GSE)
- Optional Integrated Environmental Monitoring Capability

PA utilise the extruded aluminum design to satisfy the static and dynamic requirements for the Paveway II(UK) and IV components, with several thousand containers currently in RAF service.

These containers are qualified to Def Stan 00-35 for the following:

- Vibration
- Bounce
- Impact
- Lifting
- Static Load
- Water Spray
- Damp Heat
- Dry Heat
- Low Temperature
- Horizontal impact
- Air transportation
- Shipboard Handling & Stowage
- Stability
- Impact Horizontal
- Impact Vertical (VERTREP)

PA have developed these base containers into bespoke Stowage and Transportation containers to meet specific customer needs, these have included cradles located on resilient mounts and the fitment of environmental data loggers to monitor the materiel without the need to open the containers.

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