

LHR ULD serviceability and limitations chart – v5.0 Aug 2023

ULD Serviceability and Limitation Requirement

For Guidelines as to the serviceability of any unit load devices or tie down to be used, refer to the ULD serviceability procedures VS-COM Chapter 6.

Before using a ULD, a check must be made to ensure its serviceability and that the unit type has been approved.

Please refer to the Serviceability and Limitation Chart.

US - Customs-Trade Partnership Against Terrorism (C-TPAT) requires that a seven-point security check is carried out in the following areas of all empty ULD's before being loaded;

1. Front wall
2. Left side
3. Right side
4. Floor
5. Internal ceiling
6. Inside, outside door
7. Undercarriage, beneath base

These checks must be included along with the serviceability checks prior to loading cargo in to a ULD.

Transportation of the ULD's must be undertaken with care and with the appropriate equipment.

For any questions or guidance in regard to the serviceability of ULD's or the C-TPAT checks, please contact VS ULD Control on uld.control@fly.virgin.com

ULD Structural

ULD types AKE, AKN, ALF, AAF, AMF & RAP	
Base Sheet	
Cracks, tears or holes	Not acceptable
Deformation, kinked or bowed, in excess of 0.2ins (5mm)	Not acceptable
Base Edge Rail	
Clogging with dirt or other contaminants	Not acceptable
Warped or deflected extrusion exceeding 28mm	Not acceptable
Seat Track broken missing parts	Not acceptable
Seat Track cracks exceeding 1ins (2.5cms)	Not acceptable
Seat track cracks under 2.5cms (1ins) less than 50cms (20ins) apart	Not acceptable
More than 3 broken, missing rivets per edge rail	Not acceptable
Less than 12ins (30cms) between broken, loose or missing rivets	Not acceptable
Base Corner Connector	
Any damaged, deformed, broken or missing	Not acceptable
Tie Down Points	
3 or more damaged adjacent pairs of seat track lips at each internal attachment point	Not acceptable
Loose or damaged attachment to container structure	Not acceptable
Clogging with dirt or other contaminants	Not acceptable
Panels, Side & Roof	
Holes or cracks, more than 2 per sheet exceeding 8ins (20cm) and less than: For Aluminium 4ins (10cm) apart For Polycarbonate 20ins (50cm) apart	Not acceptable
Tears or holes with in; For Aluminium 2ins (5cm) For Polycarbonate 4ins (10cm) Of assembly fasteners, bolts, screws or rivets.	Not acceptable
Panel not attached	Not acceptable
Panel bowed out of contour	Not acceptable
Frame	
Bent outside of allowable contour	Not acceptable
Broken or crushed extrusions	Not acceptable
Cracks exceeding 2.5cms (1ins) in any direction	Not acceptable
More than one crack, any size, per extrusion	Not acceptable
Cracks within welds	Not acceptable
Not attached to base	Not acceptable
More than one broken, loose or missing fastener, rivet, huckbolt or screw per extrusion	Not acceptable
Broken loose or missing fasteners, rivet, huckbolt or screw on door strap brackets, gusset or tie down brackets	Not acceptable
Curtains	
Cuts, holes or tears exceeding 2ins (5cms) Closer than 13mm (0.5ins) to edge of curtains Multiple punctures of less than 5cms (2ins) having a combined length exceeding 20cms (8ins)	Not acceptable
Velcro straps or other fasteners and components, missing, torn, cut or unable to function properly	Not acceptable
Pull Straps	

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Missing or damaged	Not acceptable
TSO Plate	
Missing or illegible	Not acceptable
ODLN	
Missing or illegible	Acceptable

ULD Pallet

ULD types PKC, PLA, PAG & PMC	
Base Sheet	
Cracks, tears or holes	Not acceptable
Deformation, kinked or bowed, in excess of 1ins (25mm)	Not acceptable
Edge Rail	
Dents or kinks in excess of 28mm	Not acceptable
Any broken or missing parts	Not acceptable
Any cracks, any direction	Not acceptable
More than five broken or missing rivets per edge rail	Not acceptable
Less than 50cms between broken, loose or missing rivets	Not acceptable
4 or more damaged adjacent pairs of seat track lips at each net attachment point	Not acceptable
Corner Connections	
Any damaged, deformed, broken or missing	Not acceptable
TSO Markings	
Missing or illegible	Not acceptable
ODLN	
Missing or illegible	Acceptable

Cargo Net

All Cargo Nets	
Lashing Lines	
Missing lashing line, should be one per corner	Not acceptable
Damage or shortened lashing line	Not acceptable
Stud Fitting	
Missing any face	Not acceptable
Damaged or distorted, any face	Not acceptable
Adjusting Hooks	
No more than one missing or damaged per face	If more, use adjusting hooks on other faces to take up the slack in the net
Net Mesh and Border Cords	
Contamination	Not acceptable
Severed or partly severed cords	Not acceptable
Severed or partly severed strands	Not acceptable
TSO Tag	
Both missing or illegible (One acceptable)	Not acceptable
No evidence of expiry date	Not acceptable
ODLN	
Missing or illegible	Acceptable

Ancillary Equipment

4.5m and 9m Cargo Straps	
TSO Tag	
Both TSO tags missing	Not acceptable
No evidence of strap expiry date	Not acceptable
ODLN	
ODLN missing or illegible	Acceptable
Buckle	
Damaged, any malfunction, severe distortion, cracking	Not acceptable
Ratchet buckles	Not acceptable
Over centre buckles	Acceptable
4.5m and 9m Strap	
Any knots	Not acceptable
Damage, severely abraded, broken stitching, one cut more than 3mm	Not acceptable
Tie Down Ring	
Damaged, any malfunction, severe distortion, cracking or missing	Not acceptable
Ring Bolts	
Damaged, malfunction, any broken component or distortion	Not acceptable