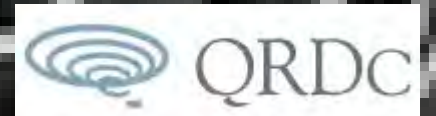


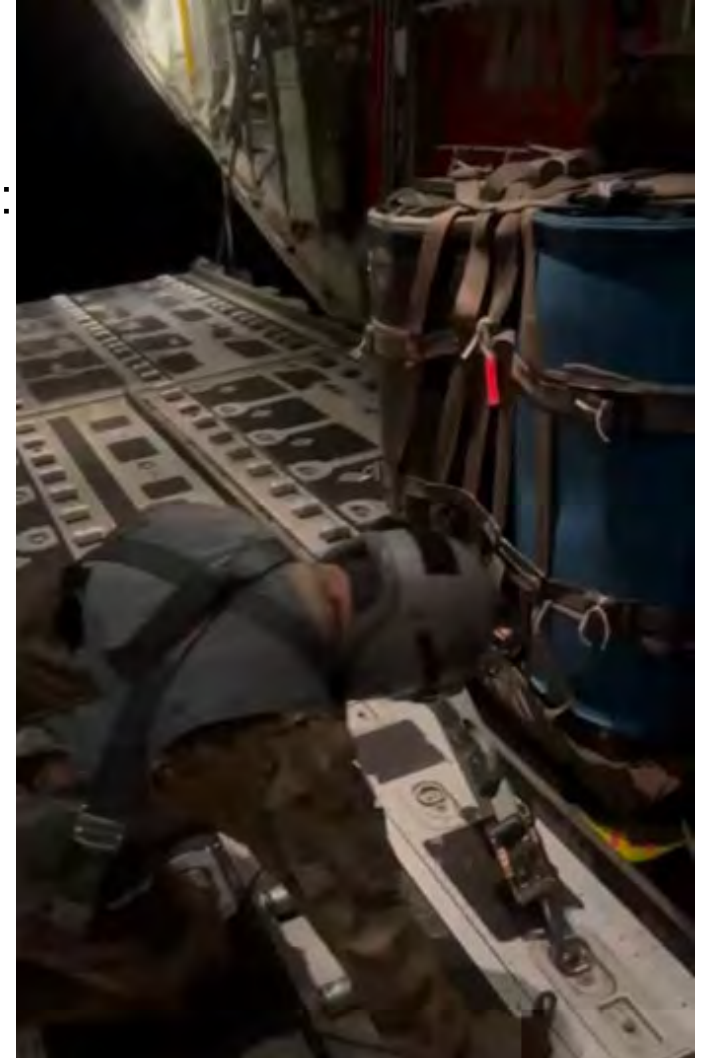
Reusable Energy Abatement Layer (REAL) & Reusable Universal Skid Board (RUSB)



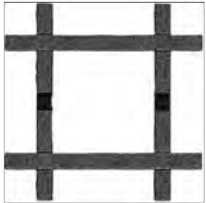

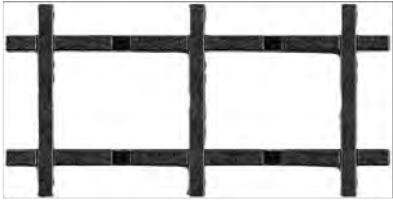
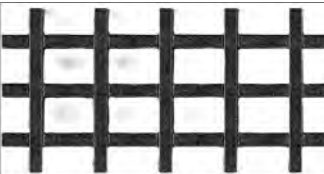


www.qrdc.com

Current Status

- Over 440 airdrops with zero degradation at 10 USAF bases including:
 - Little Rock, AR
 - Hurlburt Field, FL
 - Ramstein, Germany
 - Minneapolis, MN
 - Yokota, Japan
 - JBER, AK
 - Scotia, NY
 - Altus, OK
 - Harrisburg, PA








Products

Modules	Load Capacity	
	Standard	High
M06	REAL04M06 	REAL06M06 
M126	REAL23M126 	REAL35M126 
M12	REAL06M12 	REAL10M12 

- REAL – Reusable Energy Abatement Layer
 - Replaces traditional one-time use honeycomb
 - Available in 12x12, 12x6, & 6x6 with a height of 3” tall
 - Works for CDS, CRL, & LCLA
 - Standard or high load capacity
 - Floatable and standard configurations
 - Warrantied through 35 airdrops, but capable for over 100 airdrops


Products

- RUSB – Reusable Universal Skid Board
 - Replaces traditional one-time use skidboard
 - Available in 48x48 or 42x24, either ¾” or 1” thick
 - Works for CDS, CRL, & LCLA
 - Floatable and standard configurations
 - Warrantied through 35 airdrops, but capable for over 100 airdrops

Model #	Description of Module	Image	Non-Floatable	Floatable
RUSB01W-100	Off White 48 X 48 X 1"		Yes	Yes
RUSB02O-100	Orange 48 X 48 X 1"		Yes	Yes
RUSB03B-100	Black 48 X 48 X 1"		Yes	Yes
RUSB04W-100	Off White 24 X 42 X 1"		Yes	Yes
RUSB04O-100	Orange 24 X 42 X 1"		Yes	Yes
RUSB04B-100	Black 24 X 42 X 1"		Yes	Yes
RUSB05W-100	Off White 24 X 48 X 1"		Yes	Yes
RUSB05O-100	Orange 24 X 48 X 1"		Yes	Yes
RUSB05B-100	Black 24 X 48 X 1"		Yes	Yes

Products

- Optional (Recommended) Accessories
 - REAL Wrap – belt designed to wrap around REAL to keep pieces together during airdrop
 - RUSB Handles (set of 4) – removable handle to lift and transport RUSB with ease

Product	Description
REAL Wrap With Velcro Closure (Belt42) (Belt42F)	<p>COLOR: Black MATERIAL: Rubber SIZE: 16' L x 2.5" W x 0.3"H WEIGHT: 7.5 lbs. Fits all REAL & CDS sizes. Will have 1-2' overlap depending on overall size.</p> 
RUSB Handles Set of 4 (4Handles)	<p>COLOR: Orange MATERIAL: Metal & Rubber WEIGHT: 3 lbs.</p> 

Storage



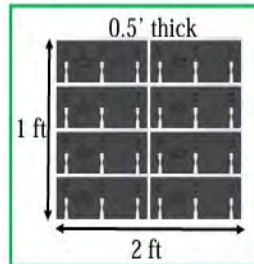
Improved Sustainability

Storage Ratio = 600

REAL™ Volume Storage



1 ft³



Unassembled REAL™ and layout for packaging/shipping/Storage

- REAL – storage volume reduced by 500%; waterproof item
 - Honeycomb average storage is 600 cubic feet
 - REAL average storage is <2 cubic feet
- RUSB – same as traditional skidboard; waterproof item

Savings

No of Airdrops	Plywood use at different AF Bases			RUSB (1 per 100 drops)
	Plywood Skid			
	Replaced after X drops			
	1 (Little Rock)	3	5	
120	120 (48 by 48)	40	24	1.2
240		80	48	2.4
480		160	96	4.8



CDS/CRL - average savings of \$240 per airdrop for 100 airdrops

Total savings of \$240,000 per 100 airdrops



LCLA - average savings of \$150 per airdrop for 100 airdrops

Total savings of \$150,000 per 100 airdrops



Facility - capacity increased by about 300%



Transportation - reduced increment positions and cost per cubic foot

Savings

USAF ARTICLE



NEWS UNITED STATES AIR FORCE

36 AS, 374 LRS innovates airdrop process

Published May 15, 2025
By Airman Kayla Karelas
374th Airlift Wing Public Affairs

YOKOTA AIR BASE, Japan — The 36th Airlift Squadron and 374th Logistics Readiness Squadron implemented a new, reusable system that increases efficiency and cuts overall cost for building container delivery system bundles at Yokota Air Base, Japan, April 10.

The 36 AS routinely conducts airdrop training with CDS bundles crafted by the 374 LRS to maintain readiness and the ability to swiftly deliver supplies across the Indo-Pacific region.

"CDS bundles are one of the most versatile tools in our air supply kit," said Master Sgt. Keith Dengel, 36 AS instructor leadmaster. "CDS drops can deliver a lot of material and equipment in a short period of time to keep the troops on the ground as effective as possible."

Previously, the 374 LRS crafted bundles using plywood and cardboard honeycomb as disposable platforms for airdrops. The new system replaces the disposable platforms with a reusable energy-absorbing layer and reusable, universal skid board - saving approximately \$116,000 per year.

"With the previous process, we have to recut the cardboard and rebuild from the ground up," said Tech. Sgt. Abel Moreno, 374 LRS combat mobility flight section chief. "The new system helps alleviate a lot of manpower and resource waste."

Additionally, bundles prepared with the new system were built in an average time of 20 minutes, saving Airmen over an hour of time per bundle the previous process.

Yokota is currently one of six aircrew training bases in the Air Force to use this system.

"We are ready for anything because we practice these skills on a daily basis," said Dengel. "Nothing happens without the time, effort and support of Team Yokota."

By reducing costs, conserving resources and streamlining manpower, the new platform allows the unit to allocate support to other mission-critical operations. As the Department of Defense logistics hub for the Indo-Pacific region, this collaboration between the 36 AS and 374 LRS highlights a commitment to excellence to the installation mission: sustaining and maneuvering forces at the speed of need.

Current Updates

REAL – 6"
available in
yellow or **black**
now

RUSB –
available in
black, white, or
orange

Implementation



May be mixed with traditional honeycomb and skidboards

CAUTION: RUSB will be offered as the aft-most bundles when mixed with traditional skidboards in the same pass

Has withstood complete parachute failure mishap with no discrepancies

Authorization

USAF Fort Lee Message 24-003

ADFS RELEASE INFORMATION FILE			
Applies to:	Army <input type="checkbox"/>	USAF <input checked="" type="checkbox"/>	Navy <input type="checkbox"/> USMC <input type="checkbox"/> Other: <input type="checkbox"/>
Interim:	Control Number: USAF 24-003		Release Date: 10-Jan-2024
Exception:	<input checked="" type="checkbox"/>		
Rescind Date:	OR	Post Until Further Notice:	Publication Affected: TO 13C7-1-11
Title: Authorization for Reusable Honeycomb (REAL)			
//UNCLASSIFIED//			
<ol style="list-style-type: none"> The Air National Guard – Air Force Reserve Command Test Center (AATC) tested the reusable honeycomb with their Research & Development Team at US Army Combat Capabilities Development Command Soldier Center, Natick, MA. The test was completed to allow a reusable pad in lieu of single use energy dissipating material on container delivery systems (CDS). This exception to policy governs AF UAT loads rigged for CDS, Container Ramp Loads (CRLs), and LCLA only. Loads covered in TO 13C7-1-11 are the only loads authorized for use for UAT loads. Contact QRDC for purchasing at: Mr. Daryoush Allaei 3223 Fairchild Ave. Wayzata, MN 55391 Email: Dallaei@qrdc.com Office phone: 952-556-5205 Direct line: 612-380-4433 All units utilizing REAL will follow the manufacture procedures for assembly and place IAW TO 13C7-1-11. Adverse results of using the REAL versus Energy Dissipating Material (EDM) are mandatory. This memorandum expires when TO 13C7-1-11 is revised/published. 			

USAF Fort Lee Message 24-006

ADFS RELEASE INFORMATION FILE			
Applies to:	Army <input type="checkbox"/>	USAF <input checked="" type="checkbox"/>	Navy <input type="checkbox"/> USMC <input type="checkbox"/> Other: <input type="checkbox"/>
Interim:	Control Number: USAF 24-006		Release Date: 29-Mar-2024
Exception:	<input checked="" type="checkbox"/>		
Rescind Date:	OR	Post Until Further Notice:	Publication Affected: TO 13C7-1-11
Title: Reuseable Universal Skidboard (RUSB) Rigging Authorization			
//UNCLASSIFIED//			
<ol style="list-style-type: none"> This releases the interim/exception for TO 13C7-1-11. Current wooden skidboards have a tendency to break after one drop or cannot be brought to other countries based on the WRM issues. A reusable universal skidboard (RUSB) has been tested and authorized for airdrop of USAF UAT containers. The RUSB is approximately 1 inch thick, 48"x48", and has pre-drilled holes for skidboard ties. These may be reused until they break, crack, or have noticeable degradation affecting the survivability of the airdrop. RUSB is designed to be utilized with REAL, but can be used with traditional EDM (honeycomb) if needed. This interim/exception will expire when incorporated in TM 4-48.03/MCRP-4-10.3C/TO 13C7-1-11 when it is revised / published. Units wishing to purchase RUSB will contact the following: QRDC, Inc Dr. Daryoush Allaei Chief Executive Officer dallaei@qrdc.com Cell: 612-380-4433 			

AMC FCIF 25-01-01

FLIGHT CREW INFORMATION FILE			
APPLIES TO:	ACC <input type="checkbox"/>	AFRC <input type="checkbox"/>	AFSC <input type="checkbox"/>
FCIF #	ORIGINATING HQ FCIF/SI #	WING/DOO FCIF/SI #	UNIT FCIF/SI #
RELEASE DATE	UNIT POST DATE	RESCIND DATE	OR POST UNTIL
07 Jan 2025			TO 13C7-1-11
APPLICABLE TO:	LowRpt		
AIRCRAFT or MDS	C-130J <input type="checkbox"/>	C-130H <input type="checkbox"/>	C-17A <input type="checkbox"/>
SUBJECT: Reusable Universal Skid Board Use Approval			
UNCLASSIFIED: FCIF# 25-01-01			
<ol style="list-style-type: none"> This FCIF is approved for release by Mr. Scott Lubin, AMC A3V, and applies to all AMC, PACAF, USAF, AFRC, ANG and AMC-Gamed C-17A and C-130 units. Retain this FCIF until rescinded. The Reusable Universal Skid Board (RUSB) is a composite, reusable Container Delivery System (CDS) skid board with the potential to significantly reduce the cost of conventional plywood skid boards. Several USAF unilateral airdrop training units have purchased RUSB quantities however, a full restraint evaluation of the RUSB is pending and has not been completed. Until a full restraint evaluation is completed, vertical restraint will be applied utilizing aircraft CGU 1/B straps to all CDS bundles rigged with the RUSB. This includes bundles restrained by the Center Vertical Restraint (CVR) or Enhanced Container Vertical Restraint (ECVR) systems. Straps used as additional restraint will be placed and secured in a manner that does not interfere with the parachute and/or bundle rigging. Aircrews will report any problems encountered when using the RUSB to AMC A3TV. This is a coordinated HQ AMC message. MAJCOM POCs are: AMC A3VX - Maj Andy Forsyth DSN 779-1143 AMC A3V - Maj John Kuonins, DSN 312-779-1143; AMC A3TW - MSgt Stefan Eiermann, DSN 312-779-7857 NGB A3ME - Maj Joe Oliphant, DSN: 612-7164, HQ AFRC A3MV - Lt Col James Hodgson, DSN: 497-4483; HQ PACAF A3TV - Maj Middle Atkinson, DSN 315-449-1993; HQ USAF-AFAFRICA A3AV - Maj Mike Morrison, DSN 314-480-9363 			
// SIGNED //			
SCOTT J. LUBIN, Civ, USAF			
Chief, AMC Stan Eval & Readiness			
UNCLASSIFIED:			

Contacts



President

Daryoush Allaei
Dallaei@qrdc.com
Office: (952) 556-5205
Cell:(612) 380-4433



VP of Sales

Drew Holsenback
Dholsenback@qrdc.com
Cell: (703) 659-5517