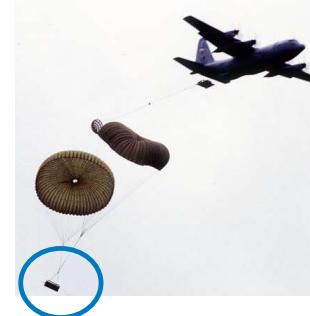


Benefits of Reusable Parts - **REAL & RUSB**



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Website for more information:

1) <https://www.qrdc.com/library/real-reusable-energy-absorbing-layer/>

2) <https://www.qrdc.com/>

November 6, 2025

Current Status

Summary - Why Using REAL & RUSB?

- **Financially**: Save cost of ownership
- **RUSB and REAL have been successfully airdropped by Air Force Bases more than 1117 times.**
- No of CDS drops exceeded **35** at two AFBs.
- We had **5** incomplete parachute opening - No damage to RUSB or payload on CDS platform was observed.
- **Sustainability**: REAL & RUSB are sustainable.
- **Readiness**: Improving Arm Forces readiness.
- **Weatherproof**: Resistance to moisture/rain/temperature.

Cost Saving for Aerial Delivery Savings: \$238 per CDS airdrop

Payback is less than 50 airdrops
(often less than 1 year)

Our estimated Savings
was validated by
Yokota AFB in Japan in May 2025.

Current Status (continued -6)

**Total Number
of Airdrops
by Current
End-users
at
Air Force Bases**

Current Status (continued -6)

Total Number of Airdrops (Oct 24 - Dec 25)

Base	Air Force Base	No of CDS	Airdrops for all CDSs	Average Drop per CDS
1	Little Rock, AR (June 2025)	8	62	8
2	Hurlburt Field, FL (Sept 2025)	10	151	15
3	AFB Ramstein-Mie, Germany (Nov 2025)	10	50	5
4	109th Airlift Squadron, MN (Dec 2025)	6	81	13
5	109th AW Base, Scotia, NY (black top DZ) (July 2025)	4	49	12
6	374 Logistics Readiness Squadron, Yokota, Japan (Dec 2025)	3	131	44
7	773 Joint Base Elmendorf-Richardson, AK (Dec 2025)	10	500	50
8	97 th Logistics Readiness Sq, Altus AFB, OK (Nov 2025)	8	34	4
9	193 rd Special Ops Squadron, Middletown, PA (Nov 2025)	12	43	4
10	27 th SOLRS / LGRDAS, Cannon AFB, NM (Oct 2025)	1	2	2
11	347 OSS/OSK ADSB, Moody AFB, GA (Dec 2025)	15	14	0.9
12	Training Center for Paratroopers, SOR, Belgium AFB (NATO)	Only REAL	No report yet	N/A
Total CDSs, Drops, and Drops/CDS		87	1117	13

Exceeded
35

Airdrops

Average for 87
CDSs in the field

RUSB and REAL CDSs have been airdropped over 1025 times.

Airdrops with Parachute Not properly opened REAL/RUSB CDS Airdrops

* **Airdrop at AFB Ramstein-Mie, Germany – October 2024**

Mass of 4 CDS airdrops was captured.

REAL/RUSB CDS were not damage.

No Damage to Barrels.

* **Airdrop at AFB Ramstein-Mie, Germany – June 2025**

2 CDS bundles get caught up with each other & totally snagged for the first half of the drop.

Resulted in parachute damage.

RUSB bundle was fine (no damage).

Airdrops with Parachute Not properly opened REAL/RUSB CDS Airdrops

* 773 Joint Base Elmendorf-Richardson, Alaska AFB (May 2025)

First Mass of 4 was dropped with all parachute properly opened.
Second Mass of 4 had 2 incomplete parachute openings.
RUSB bundle was fine (no damage), see following images.

* 97th Logistics Readiness Squadron, Altus AFB, OK, USA

First Mass of 4 was dropped with all parachute properly opened.
Second Mass of 4 had 2 incomplete parachute openings.
RUSB bundle was fine (no damage), see following images.

* 193 Special Operations Squadron, Palatine, PA, USA

First Mass of 4 was dropped with all parachute properly opened.
Second Mass of 3 had 1 incomplete parachute openings.
RUSB bundle was fine (no damage), see following images.

Current Status

Air Force Bases
have been using
REAL & RUSB

Current Status

Order Received and Delivered:

- 1) **Little Rock, Arkansas, USA**
 - (a) more than **63 Airdrop** as of end of April 2025
 - (b) are very happy with REAL & RUSB
 - (c) LR has 8 full RUSB & REAL packages
 - (d) plan to changeover the entire line in 2025-26
 - (e) quote was requested for **30 CDS** bundles

- 2) **Hurlburt Field, Florida, USA**
 - (a) **66 airdrops** as of end of April 2025
 - (b) are very happy with performance
 - (c) plan to changeover the entire line
 - (d) plan to remove their sustainability program for cardboard honeycomb and plywood
 - (e) quote was requested for **10 CDS** bundles

Order Received and Delivered:

3) AFB Ramstein-Mie, Germany

Received the REAL & RUSB package on Sept 23

Training was conducted on Sept 30 – Oct 4

15 CDS using RUSB & REAL have been successful airdropped

RUSB & REAL survived a free fall (parachute did not open)

A quote for spare REAL parts was requested

4) 109th Airlift Squadron, Minneapolis, MN, USA

36 airdrops (6 each of the CDS) as of end of Feb 2025

Received the REAL & RUSB package on Sept 30

Onboarding / Training was conducted on Oct 10

6 CDS bundles were airdropped on Oct 22 & Oct 30, 2024

Quotes were requested for another set of 6 CDS bundles

Order Received and Delivered:

5) 109th AW Base, Scotia, NY, USA

Order was placed by signed contract on Sept 24

Order will be delivered by Oct 11

Training was conducted in mid October 2024

49 CDSs with RUSB have been successful airdropped

Each RUSB has been dropped 16 times (as of July 2025)

6) 374 Logistics Readiness Squadron, Yokota AFB, Tokyo, Japan

Order was placed by signed contract on Sept 30

Order was delivered in Jan 2025

Training was conducted on March 23-27, 2025

CDSs were successfully airdropped 39 times as of August 2025.

Order Received and Delivered:

7) **773 Joint Base Elmendorf-Richardson, AK, USA**

10 CDS packages were delivered on May 6, 2025

Onboarding / Training was conducted on May 19-21, 2025

Eight (8) CDSs (with RUSB and REAL) were airdropped from C17 in mass of 4 on May 20.

One CDS was dropped on May 21.

All 9 CDS airdrops were very successful.

New tiedown procedure worked well.

After recovery, all they needed was tightening and placing a new parachute on each CDS before they were loaded for next airdrop.

Current Status (continued - 4)

8) **97th Logistics Readiness Squadron, Altus AFB, OK, USA**
8 CDS packages were ordered on June 10, 2025.
CDS packages were delivered on July 7, 2025.
Onboarding / Training was conducted on July 14-17.
All 8 CDS assemblies were airdropped in mass of 4
One incomplete parachute opening – no damage

Current Status (continued - 4)

9)

193 Special Operations Squadron, Palatine, PA, USA

12 CDS packages were ordered on June 18, 2025.

CDS packages were delivered on July 15, 2025.

Onboarding / Training is planned on Aug 11-13.

Airdrop on Friday, August 15.

7 CDS assemblies were successfully airdropped in mass of 4 & 3.

One of the parachute did not completely open.

Current Status (continued - 4)

10) 109th Airlift Squadron, Minneapolis, MN, USA
Purchased 2 additional CDS packages in Sept 2025.

11) 27th SOLRS / LGRDAS, Cannon AFB, NM
Purchased the following in Sept 2025
2 RUSB Skid Boards
1 Base Board & 1 Top Board
Onboarding / Training was conducted on Oct 13

12) 347 OSS/OSK ADSB, Moody AFB, GA
Purchased 15 CDS packages in Sept 2025.
Onboarding / Training is planned on Nov 12-14

Current Status (continued - 5)

Quotes have been sent:

- 1) 920th LRS, Aerial Delivery, Patrick SFB, FL, USA
- 2) 68th Rescue Squadron-AFB, AZ, USA
- 3) 106th ATF LRS/LGR, Westhampton Beach, NY, USA
- 4) 165th Airlift Wing, Savannah ANGB, GA, USA
- 5) 166th LRS/ATF DEX, New Castle, DE, USA
- 6) Joint Base Charleston, SC, USA
- 7) 41st Aerial Port Sq, Keesler AFB, MS, USA
- 8) 76 APS/Aerial Delivery, 910th AFRB, Youngstown, OH, USA
- 9) 647th Logistics Readiness Sq, Joint Base Pearl Har, HI, USA
- 10) Edwards Air Force NATO
- 11) Kadena AFB, Okinawa, Japan
- 12) Training Center for Paratroopers, SOR, Belgium AFB (NATO)

Current Status (continued - 5)

Interested Parties at Army:

- 1) Chief Joshua D Gaither - WO1 USARMY 11 ABN DIV 2 BCT, Army Base in Alaska**
- 2) Joshua Hollar, USASOC Parachute Rigger, Fort Bragg, NC**
- 3) Jonathan C Dawson, SOCOM, Special Ops, Army**
- 4) 2LT Judson Harmon, Army Base in Ramstain, Germany**
Joshua Martinez, Army Base in Ramstain, Germany
Elijah Melendez-Eyster, Army Base in Ramstain, Germany
CW5 Anthony J Haiduk, Army Base (21 TSC) in Ramstain, Germany

Summary of Customers and Interested Bases

- ❖ **More than Air Force End Users / Customers in USA & Overseas**
- ❖ **11 Air Force End Users have requested quotes**
- ❖ **4 Army bases have expressed strong interest**
- ❖ It is projected REAL and RUSB will be used in
20 AF bases and 2 Army bases by first quarter in 2026
- ❖ It is projected REAL and RUSB will be used in
4 NATO bases by mid-2026

Feedback

**Feedback from
Air Force Bases**

Feedback

✓ **Little Rock, Arkansas, USA**

“Looks like we are at 14 drops with REAL/RUSB, it looks great still.”
“21 drops total, some minor scratches on the skid board, but everything is holding up very well.”
“23 and ready to go out again, no damage... all still looks good.”

September 27, 2024

✓ **Hurlburt Field, Florida, USA**

“We are at 12 drops and no further issues. We love it and I’m working the \$ to hopefully get the rest of ours converted.”

September 12, 2024

Feedback

✓ **AFB Ramstein-Mie, Germany**

During mass airdrop (4 CDS), the Parachute of the last CDS did not open, and still worked. This was a real-world test.

April 29, 2025

✓ **109th Airlift Squadron, Minneapolis, MN, USA**

“Fantastic product, satisfied after 3/4 of a year of use. No deterioration in products besides normal wear/tear. Only notes: Loading by ATF post drop has to be done more carefully than with disposable items. The forklift tines are more likely to do damage than anything else. And that reusable honeycomb should be tied together to prevent slippage.”

April 29, 2025

Feedback

✓ 109th Airlift Squadron, Minneapolis, MN, USA

Question: How has your airdrops been? How is performance? How many drops?

Answer: “They have been great! I’ll have to get the numbers when I get back to work next week but no problems so far!”

[June 19, 2025](#)

Question: Do you have an update as of June 24?

Answer: “We have dropped every bindle about 10 times (range 8, 9, 9, 10, 11) with no incident. One chute opened very late, bundle hit hard, no damage.”

[June 24, 2025](#)

Feedback

✓ **Kadena AFB, Japan**

“We took the REAL out for exercise Balikatan and it has been a big help not worrying about bringing a bunch of honeycomb and taking up space. Also, not having to worry about breaking down the CDS to keep replacing it and saving a lot of time.”

April 30, 2025

Feedback

✓ 374 Logistics Readiness Squadron, Yokota AFB, Japan

“Build 3 CDS with RUSB/REAL cost saving \$116k a year, no need to replace cardboard honeycomb or wooden skid board over 100 drops.”

March 24, 2025

“The new procedures of securing the REAL to the RUSB has work better and easier to reinspect once we reattach a parachute. Before the REAL would move a lot more and when the CDS landed on their side, the REAL would start to fall out without the weight of the cans on it’s.”

April 29, 2025

“Performing vert well, no issues.”

June 9, 2025

Feedback

✓ 374 Logistics Readiness Squadron, Yokota AFB, Japan

May 15, 2025



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 loadmaster. "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.

Feedback

✓ 374 Logistics Readiness Squadron, Yokota AFB, Japan

May
15
2025

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✓ Weekly CDS Airdrops: 10, 49 weeks/year

- **Average Savings per Airdrop: \$237**
- **Our projected Savings per Airdrop: \$238**

time per bundle the previous process.

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Feedback

Ten (10) CDS airdrops at Alaska AFB (JBER):

Slide easier on shop and aircraft rollers

Save lots of money & labor

They came out of plane very well and easy

The process of rebuilding is faster

May 20, 2025

So far all is good on the performance end.

June 11, 2025

Feedback

✓ **97th Logistics Readiness Squadron, Altus AFB, OK**

“We have used the product once so far with excellent results.”

“The product was very easy to reconstitute and simple to train other personnel on.”

“I believe other bases would also benefit from this product.”

“A top board would be a valuable addition to our setup.”

[July 29, 2025](#)

Feedback

✓ 97th Logistics Readiness Squadron, Altus AFB, OK

“....each one has dropped 32 times since you were here. So far, no problems. We are fast approaching the 35 drops per bundle. Hoping the extreme cold weather coming this winter will not affect the bottom boards.”

Sept 2, 2025