



Frequently Asked Questions

Q1. What is the purpose of the Miller Humidity-Resistant Case?

A1. The humidity resistant case is a product line option that provides a fully-sealed and extremely durable protective storage environment for the Miller SafEscape ELITE RDD and other rescue accessories.

Q2. What are the benefits of the Miller Humidity-Resistant Case?

A2. Storing products in this case provides several benefits:

- Only the case and the humidity indicator on the outside of the case require annual inspection. Inspection time and inspection expenses are greatly reduced since case contents remain undisturbed and in service.
- Products properly stored in the case do not need to be returned to the manufacturer for annual recertification unless the on-site annual inspection determines it necessary -- saving time and inspection expenses.
- The outer security seal provides confidence and evidence that the case has not been opened, and that all rescue components are in the case and available should an emergency rescue situation occur.
- All components remain in operating condition due to the protection provided by the extremely durable, air and water tight case. Each component is stored in its own specially designed foam storage compartment that provides vibration protection against possible wear and damage.

Q3. How often does this case need to be inspected?

A3. The case must be inspected annually by a trained person.

Q4. What are the inspection procedures?

A4. The inspection procedures are very simple, easy and fast.

- Verify the case has been stored in proper orientation according to manufacturer instructions.
- Ensure that the plastic safety seal is in place and has not been opened.
- Check that the humidity indicator color shows acceptable levels according to manufacturer’s specifications.
- Check that the case itself shows no signs of damage.
- If all four of the above steps pass inspection, a new signed and dated inspection label (included with inspection instructions at time of purchase) must be affixed to the case.

Q5. How does the humidity indicator work?

A5. The humidity indicator has three panels indicating 30, 40 and 50% relative humidity levels in the case. The panels change color from blue to red when the relative humidity in the case rises to a respective percentage. If the panels turn completely red, this indicates that the moisture has penetrated the case to at least 50% and the case must be opened, inspected and recertified by an authorized repair center.

Q6. How often does the case and its contents need to be recertified by the manufacturer?

A6. As long as the case passes each annual inspection, it does not need to be returned to the manufacturer for 10 years from date of manufacture.

Q7. What specific Standards has the case been tested to?

A7. The case has successfully passed several extremely challenging international tests that verify its performance against vibration, temperature ranges, impact and ingress protection. These tests include:

STANAG 4280 – DEF STAN 81-41

The Miller humidity resistant case complies with STANG 4280 – DEF STAN 81-41 Standard

Testing in accordance to STANAG 4280-DEF STAN 81-41

Vibration Test K DEF STAN 81-41: At 25°C, 2 hours of vibration at amplitude of ± 0.23" (± 6 mm) peak (0.46" DA) from 5 to 9 Hz and ± 2 g peak from 9 to 350 Hz and a sweep rate of 0.75 ± 0.25 octave.

Low Temperature Test G DEF STAN 81-41: Decrease temperature to -20 ± 2°C for 16 ± 5 hours and afterwards return to 20 ± 10°C.

Dry Heat Test C DEF STAN 81-41: Increase temperature from 25 ± 10°C to 55 ± 2°C, humidity not exceeding 75%, and maintain conditions for 48 ± 1 hours. Return temperature to 20 ± 10°C.

Impact Vertical Test E DEF STAN 81-41: At 25 ± 10°C, the case is dropped from a height of 1000 ± 5 mm making sure that the impact is received in all angles of the case.

Ingress Protection (IP) codes - EN 60 529: 1992

Miller humidity resistant cases are IP67 certified. This certification number refers to the case’s protective qualities against solid particles (first digit) and liquids (second digit). The number 6 means the case is dust-tight (6 is the maximum rating) and 7 means it offers protection from immersion (8 is the maximum rating - indefinite immersion).

MIL C-4150-J

This is a US military approval standard for cases tested under the following conditions: stacking, dropping, immersion and humidity.

Environmental tests in accordance to MIL C-4150-J	
Weight: Cases loaded from 20 to 64 lbs. (9 to 29 kg) Establish minimum weight required to resist in accordance with Weight and Drop table. (*)	Impact: Case placed in a chamber with Temperature at +60°C, removed it from chamber and loaded it with weight and submitted to incline impacts on each surface. Perform same procedure on the chamber again with decrease Temperature to -20°.
Leak: Kept one hour underwater in a submersion tank with less Temperature than when it was sealed outside of the tank.	Drop: Same procedure as Impact but is dropped with weight from different heights and in different orientations. Drops ensure that impact is received on all angles of the case.
Reusability: Repeatedly opened and closed for five times after leak. Visually inspect the case for degradation.	Vibration: Cases are placed into a vibration machine with weight and tested in all positions so that it may be shipped up to a total of three hours.
Handling: Minimum of two minutes suspension above the floor with weight by one handle or lifting ring. Visual inspection of damage, failure or deformation.	

ATA (Air Transportation Association) - Specification 300

This certificate is specific to packaging in the Airline Industry. It tests the case as a reusable container for a minimum of 100 round trips. It tests and measures impact and drop resistance.

Impact Test for Category 1	Drop Test for Category 1
Impact of a metal bar of 1.3 in. (3.2 cm) diameter with a hemispherical end, weighing 13 lbs. (6 kg) and being dropped with its longitudinal axis vertical, onto the weakest point of any exterior surface. The drop of the bar was 1.6 ft. (0,5 m) high.	The case is dropped from 2.5 ft. (76 cm) onto each corner, face and edge with the results of no damage. Secondary tests were done with the inclusion of a secured weight [from 40 to 51 lbs. (18 to 23 kg)].

Q8. What standards does the new Miller SafEscape ELITE RDD with Humidity-Resistant Storage Case meet?

A8. The Miller SafEscape ELITE RDD has been tested to and certified according to OSHA, ANSI/ASSE Z359.4-2007, ISO 22159 and the new EN 341:2008 Class A standards as well as EN 1496:2007 Class B. CSA Z259.2.3-99 is in process.

Q9. Have vibration tests also been conducted with a fully equipped case under simulated conditions it would experience in a wind turbine?

A9. Yes. The Miller Humidity-Resistant Case with a Miller SafEscape Kit and accessories has been successfully tested in accordance with the EN60068-2-6 Standard. This test simulates vibration levels of a wind turbine and accelerates the time period to represent a 10-year time frame.

Q10. Are any tools required to open the case?

A10. There are no tools required to open the case.

Q11. How long would it take to open the case in an emergency?

A11. The case can be completely opened and all components available for rescue in approximately 10 seconds.

Q12. What is the size (LxWxD) and weight of the case?

A12. The dimensions of the case are 31.5 in x 20.5 in x 12.4 in (80.2 cm x 52 cm x 31.6 cm). The case weighs 21.7 lbs (10 kg) empty.

Q13. What is the temperature range of the case?

A13. The case can be stored safely in an environment with a temperature range of -40°F to 210°F (-40°C / 99°C).

Q14. What is the construction material of the case?

A14. Case body: Polypropylene
Latch: ABS
Lid O-ring: Polymer
Pins: Stainless Steel
Inner foam: Polyethylene

Q15. Is the case fireproof?

A15. The case can withstand up to 842°F (450°C) for a short period of time.

Q16. Can the case be located in the dark?

A16. Yes. There are two large light-reflecting strips on the top of the case that will immediately show its location when a flashlight or other light source is used.

Q17. How does someone know the components are actually in the case?

A17. Each individual case will be shipped with a copy of the inspection instructions, as well as an equipment inspection checklist indicating what components have been assembled inside the case. This checklist is completed and initialed by a quality inspector certifying that each component has been packaged in the case.

Q18. What is the stock designation for a Miller SafEscape ELITE RDD Kit with the Humidity-Resistant Case?

A18. All Kits which include the Case are NON-STOCK items and require a 10-day lead time.

Q19. Are Miller SafEscape ELITE RDD Kits available that already include the Humidity-Resistant Case?

A19. Yes. Kits are available that include the case. The SKU number is SEWPKTC/XXXFT. The XXX indicates the length of rope for the SafEscape unit. Standard kits are available from 50-ft. to 325-ft. in 25-ft. increments. The components of the Kit are the same as those in the standard Wind Power Kits (SEWPKT/XXXFT)

Q20. Can the Humidity-Resistant Case be purchased separately?

A20. No. The true value and benefit of the case are because of its 10-year guaranteed shelf life without requiring annual recertification by the manufacturer. This guarantee only applies when the contents are originally packaged in the case by the manufacturer or authorized repair center.

Q21. Additional questions/information?

A21. Contact Miller Technical Service – TOLL FREE at 800/873-5242 or 814/432-2118.

