



Air safety solutions

Cabin products







Cabin products

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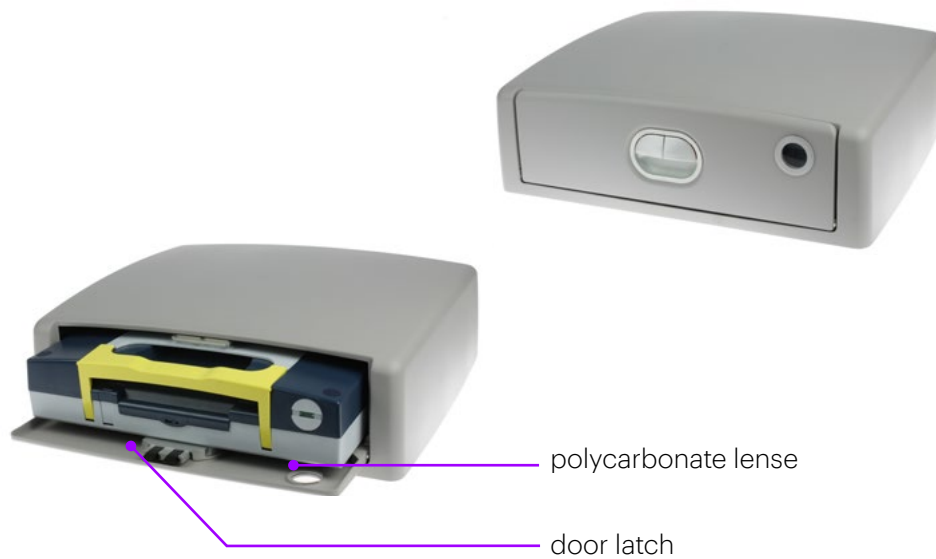
Adapter plates solution

- In compliance with FAR/CS 25.853.
- In compliance with RTCA/DO-160G, environmental conditions and test procedures for airborne equipment.



Stowage box Protective Breathing Equipment (PBE)

P3APP000003_





Technical features

- Lightweight composite stowage box
- Polycarbonate lense allows visual check of PBE status indicator
- Double latching door
- Fixable to any partition wall etc. with 4 screws
- Suitable for:
B/E Aerospace E28180-20-0011 and
Air Liquide 15-40F80

Main dimensions

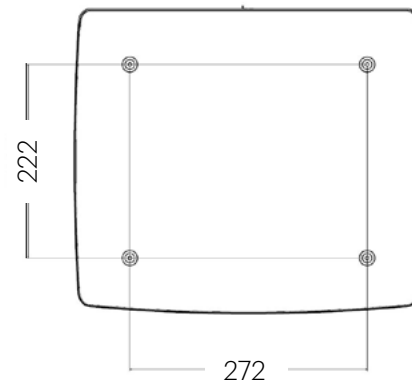
Length: 400 mm

Width: 350 mm

Height: 125 mm

Weight (without equipment): 1,71 kg

Fixation points



Adapters for the Overhead Stowage Compartment

P3APP000070_ • P3APP000071_ • P3APP000072_





Technical features

- Composite stowage rack for emergency equipment
- Available in various options and sizes
- Any equipment fixable with straps and brackets inside the rack
- Adaptable for any overhead stowage compartment
- Suitable for:
different equipment
(e.g. First Aid Kit, Emergency Medical Kit, Fire Extinguisher, Megaphone)

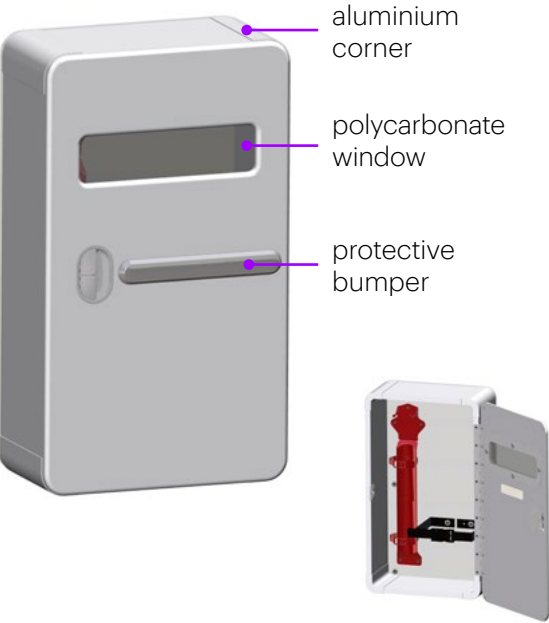
Fixation points

Rack and fixation points developed for AIRBUS A350XWB

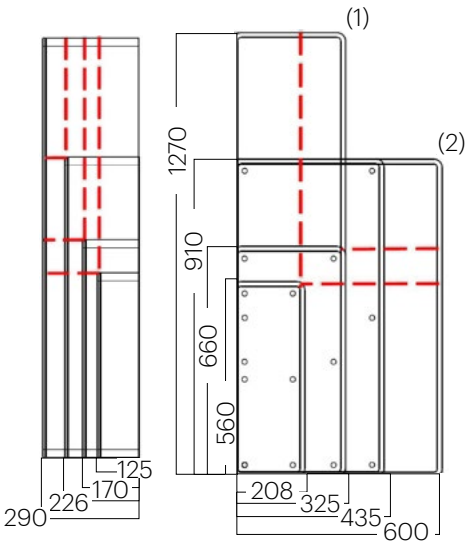


Wallmounted Stowages

P3APP000100_ - P3APP000155_



Stowage dimensions





Technical features

- Modular composite stowage box
- Aluminium corner profile protects the stowage box against damage from trolleys
- Optional protective bumper on door available to protect the stowage box against damage from trolleys
- Optional polycarbonate window to allow visual check of equipment indicators i.e. pressure gauge on oxygen bottle
- Double latching door
- Suitable for: fire extinguisher, O2 bottle ...

Main dimensions

Minimum

Length: 125 mm

Width: 208 mm

Height: 560 mm

Weight*: 2,52 kg

Maximum 1

Length: 290 mm

Width: 325 mm

Height: 1270 mm

Weight*: 5,83 kg

Maximum 2

Length: 290 mm

Width: 600 mm

Height: 910 mm

Weight*: 5,81 kg

*without equipment

Standard & Lightweight Design Adapters

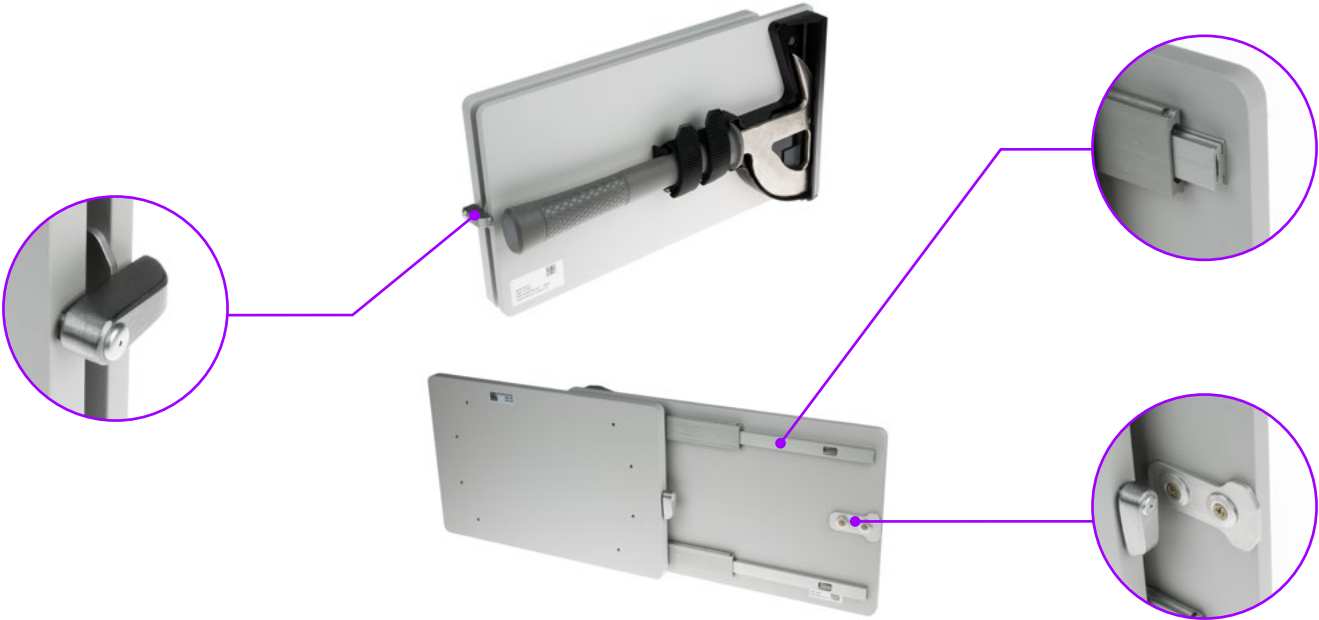
Technical features

- Lightweight composite adapter plate
- Up to 30% less weight compared to common composite adapter plates
- Different sizes and shapes for all purposes possible
- E.g. for doghouse, Cabin Attendant Seat and other compartments



Sliding Adapter

P3APP000030_





Technical features

- Sliding composite adapter plate assembly for easier removal of equipment from deep compartments
- Lockable with latch
- Stepless and noiseless sliding
- Suitable for various aeronautic equipment

Main dimensions

Retracted

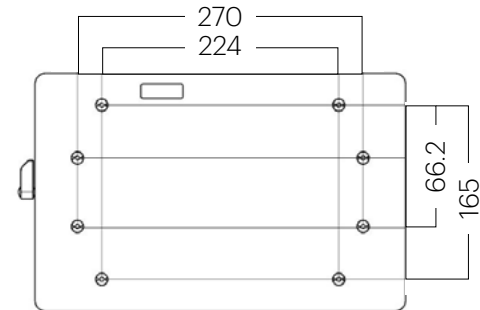
Length: 410 mm

Width: 225,3 mm

Height: 71,9 mm

Weight (without equipment): 1,39 kg

Fixation points



Brackets solution

- In compliance with FAR/CS 25.853
- In compliance with RTCA/DO-160G, environmental conditions and test procedures for airborne equipment



Bracket for Crash Axes

P3APP000005_





Technical features

- Lightweight injection moulded crash axe bracket
- Suitable for 4 crash axes, allowing a standard hole pattern whatever the OEM is
- Secure double latching
- Quick and easy release due to the use of hook and loop fastening straps
- Suitable for:
Thales 680-0040-000
Gemtor 42D8331 and 56D6221
E.I.S Aircraft EIS76014-10000

Main dimensions

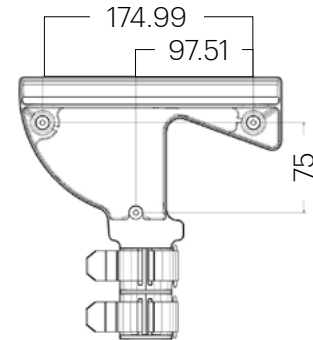
Length: 218,6 mm

Width: 218,1 mm

Height: 37 mm

Weight (without equipment): 0,154 kg

Fixation points



Brackets for Oxygen Cylinders

P3APP00008X_





Technical features

- Lightweight injection moulded oxygen bottle brackets
- Lowest installation height
- Upper bracket available with and without bottle neck support
- Variable clip positions possible
- Up to 35% lighter than competitor bracket
- Suitable for various aeronautic oxygen bottles

Bracket weights

Lower: 0,032 kg

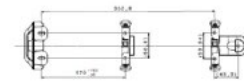
Center: 0,048 kg

Upper with NS*: 0,058 kg

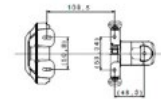
Upper without NS*: 0,055 kg

*NS = Neck Support

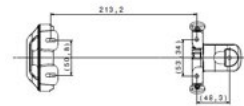
Fixation points



Holepattern for
11,0 cft oxygen bottle



Holepattern for
4,25 cft oxygen bottle



Holepattern for
7,15 cft oxygen bottle

Clip positions





		clip center (c)	clip right (r)	clip left (l)
bracket oxygen	upper	 P3APP000080A NS	 P3APP000081A NS	 P3APP000082A NS
	center	 P3APP000083A	 P3APP000084A	 P3APP000085A
bracket oxygen	lower	 P3APP000086A	 P3APP000087A	 P3APP000088A
		 P3APP000089A		

Bracket for Megaphones

P3APP0000093_





Technical features

- Aluminium bracket with hook and loop fastener
- Designed to accommodate various aeronautic megaphones

Main dimensions

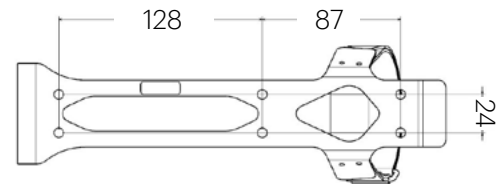
Length: 269,5 mm

Width: 86,3 mm

Height: 91,4 mm

Weight (without equipment): 0,086 kg

Fixation points



Bracket for Protective Breathing Equipment (PBE)

P3APP00000015_

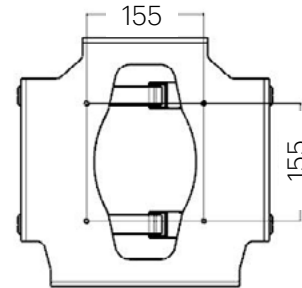




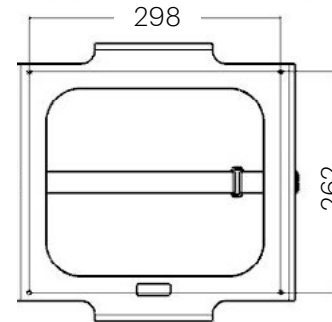
Technical features

- Aluminium bracket with strap
- Foam lined bracket ensures noiseless operation and snug fitting of equipment
- Suitable for:
 - AVOX 802300-14
 - BE Aerospace E28180-20-0001
 - BE Aerospace E28180-20-0006
 - BE Aerospace E28180-20-0011
 - Air Liquide 15-40F11
 - Air Liquide 15-40F80
 - Puritan Bennett 119003-11

Fixation points



(Holepattern for all Airbus aircraft)



(Holepattern for Airbus A350)

Bracket PBE - Variants

P3APP000015C

Suitable for:

Air Liquide 15-40F11 & 15-40F80
B/E Aerospace E28180-20-0011
All Airbus Aircraft



Main dimensions:

Length: 337 mm
Width: 328,2 mm
Height: 88,3 mm
Weight (without equipment):
0,496 kg

P3APP000015D

Suitable for:

B/E Aerospace E28180-20-0001
B/E Aerospace E28180-20-0006
All Airbus Aircraft



Main dimensions:

Length: 272 mm
Width: 231,6 mm
Height: 138,3 mm
Weight (without equipment):
0,357 kg

P3APP000015E

Suitable for:

AVOX 802300-14
All Airbus Aircraft



Main dimensions:

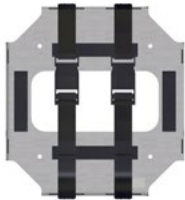
Length: 218,4 mm
Width: 246,5 mm
Height: 129,3 mm
Weight*: 0,287 kg



P3APP000015P

Suitable for:

Puritan Bennet 119003
All Airbus Aircraft



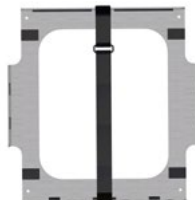
Main dimensions:

Length: 249,9 mm
Width: 274,5 mm
Height: 128,3 mm
Weight*: 0,374 kg

P3APP000015J

Suitable for:

Air Liquide 15-40F11&15-40F80, B/E
Aerospace E28180-20-0011
All Airbus Aircraft



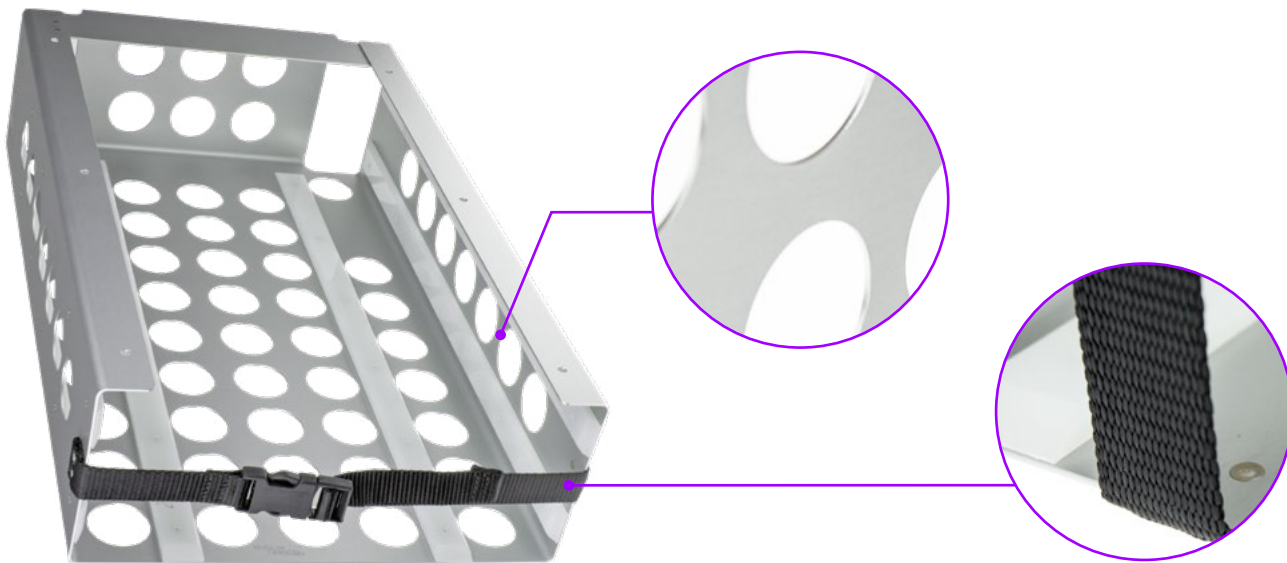
Main dimensions:

Length: 340,3 mm
Width: 329 mm
Height: 83,6 mm
Weight*: 0,497 kg

* without equipment

Bracket for Emergency Medical Kits

P3APP000175_





Technical features

- Aluminium casing to protect various equipment in overhead stowage compartment
- Attached sliding bars ensure easy removal of equipment
- Straps for various aeronautic equipment
- Suitable for various aeronautic equipment

Main dimensions

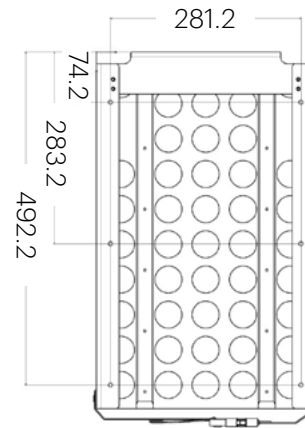
Length: 554,3 mm

Width: 328,8 mm

Height: 132,9 mm

Weight (without equipment): 1,82 kg

Fixation points



Fabric solutions

- In compliance with FAR/CS 25.853
- In compliance with RTCA/DO-160G, environmental conditions and test procedures for airborne equipment



Pouch

P3PRT000006_ (3L) • P3PRT000018_ (6L) • P3PRT000024_ (12L)





Technical features

- High durable, non flammable material
- Organizes & protects loose (demo-) equipment
- Available in different sizes and printing



Straps

Strap with buckle female

P3PRT000042_

Strap with buckle male

P3PRT000041_



Straps available in different lengths
with different screw kits.



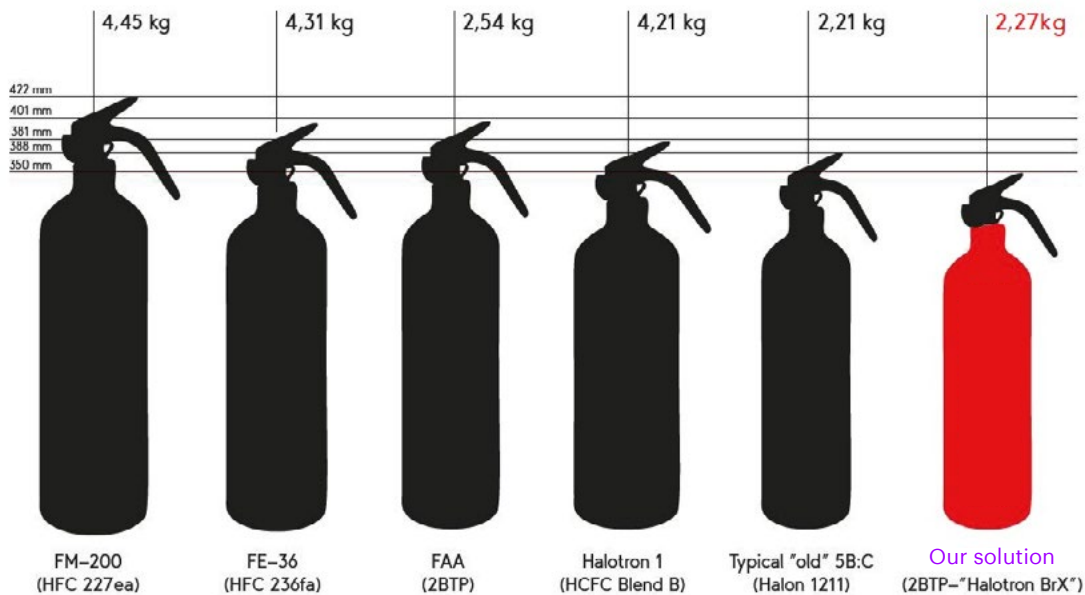
Halon-free fire extinguisher

A minuscule, world first, custom fit, halon-free extinguisher for aircraft use.



Our solution

The smallest & lightest halon-free 5B:C aircraft use fire extinguisher



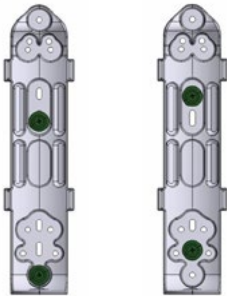


Easy retrofit

Easy retrofit due to different hole patterns and small size

Easy replacement of most actual available extinguishers due to different fixation possibilities and small space envelope.

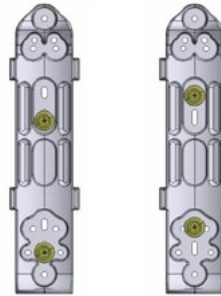
TOTAL 74-20



FFE BA21741SR-5



SICLI MAIP H1-10 AIR



KIDDE 898052



Screw

NAS1102-08-xx / NAS1102-3-xx

NAS1802-03-xx

Washer

DAN125-4 / DAN 125-5

NAS1149D0332K





Easy handling

- 01 Safety pin with seal, easy to identify if broken
- 02 Easy and intuitive one-handed operation (one control lever, no hose)
- 03 Easy to read UL-compliant pressure-gauge
- 04 RFID tag, easy to scan
- 05 Adjustable color coding for each country standard
- 06 Adjustable straps with rotatable latch
- 07 Fast and intuitive to open latch-hooks
- 08 Easy retrofit bracket for multiple installation possibilities
- 09 Seamless deep drawn lightweight cylinder to ensure maximum pressure resistance

Fire extinguisher

P3APP003010D





Customized brackets



Specification

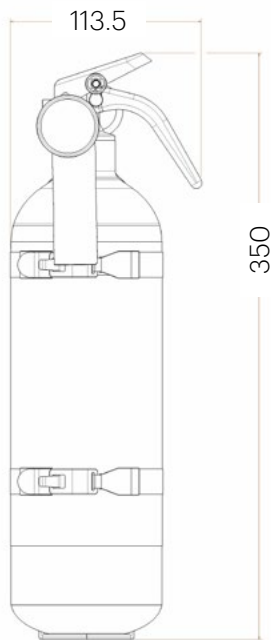
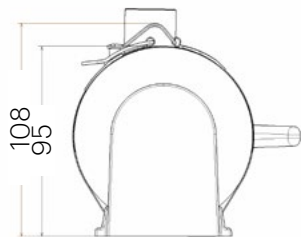
Weight

Including 2-BTP

2,27kg

Including 2-BTP + Bracket

2,50kg





Change in extinguishing agent

Schedule for halon-free handheld fire extinguisher introduction on new large aircraft: Cut-off date new aircraft acc. to ICAO/EASA: 18. May 2019 Cut-off date retrofit acc. to EASA: 31. Dec 2025

Accenture solution

UL qualified

Qualification is in accordance with:

- UL 2129
- DOT/FAA/AR-01/37 MPS
- 2014/68/EU Pressure Equipment Directive

Fire classes:

- 5B:C as per UL 711
- 2B at -40°C
- Safely usable on fires of Personal Electronical Devices (PEDs) with Li-Ion batteries, allowed to be carried by passengers on board of an aircraft.

Seat to seat solution

- In compliance with FAR/CS 25.853
- In compliance with RTCA/DO-160G, environmental conditions and test procedures for airborne equipment



Seat-to-Seat Cable Routing Provisions

Mini Raceway



Transversal Raceway





Technical features

- Enables flat floor concept for AIRBUS A350
- Light weight and high strength
- Easy installation and removal
- Cable routing directly under the seat
- Electrical and mechanical protection of cables against floor panels and seat fittings

Power Floor Disconnect Box Bridges



Emergency Light Floor Disconnect Box Bridges



Floor Covering Parts

Seat Rail Cover Classic



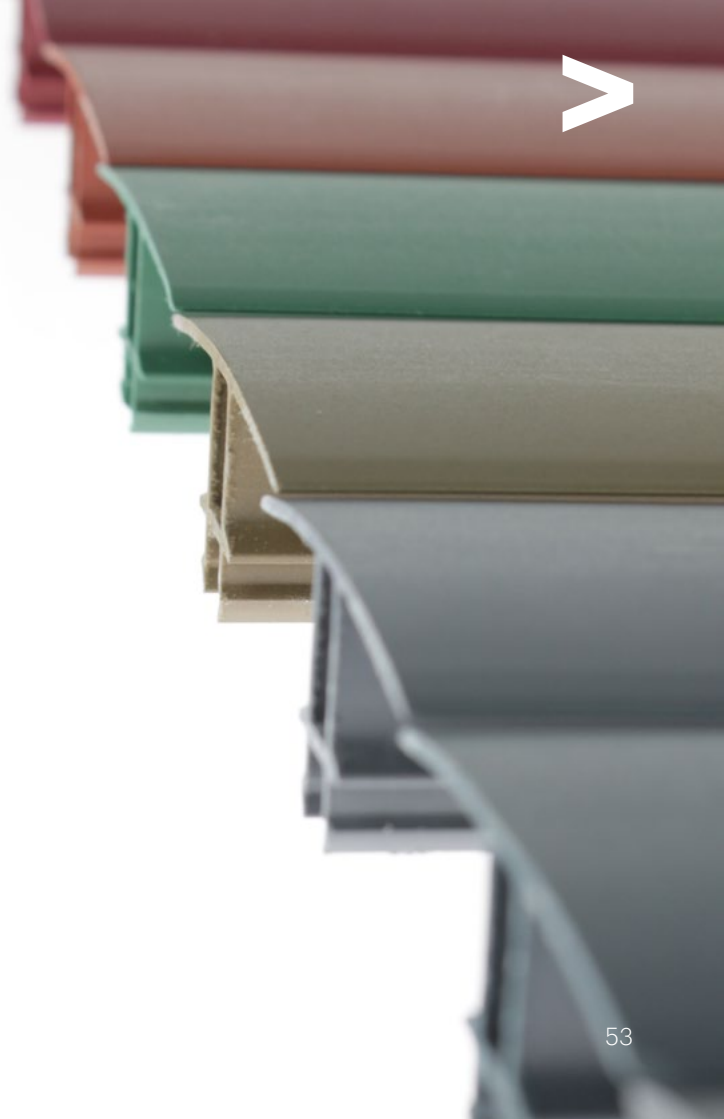
Seat Rail Cover Flat





Technical features

- Enables flat floor concept
- Light weight and high strength
- Easy installation and removal
- Clip mechanism for fixation on seat rail



Supplementary Survival Kit (SSK)

A Supplementary Survival Kit is required according to Operational Requirements in CAA ANO Schedule 5, CAT.IDE.A.285 and CAT.IDE.A.305 if the airplane is operated over water or deserts in addition to the internal survival kit of the life raft.

It provides additional sugar, water, paddles and aerial flare according to the operated areas.



General unique selling points

Our SSK products are designed to satisfy all different aircraft programs' needs in the best way. All SSKs are assembled in Germany.

In general our products are designed for:

- Easy retrofit of existing fleet: 1:1 exchange possible (STC can also be provided by Accenture); same or less weight and dimensions
- Longer maintenance intervals (up to 5 years)
- Total cost of ownership reduction of up to 80% per aircraft
- Intuitive design of bag and contents for easy use in difficult situations



Easy handling

01

The Label provides all information as readable information, QR-Code and RFID.

03

The bag provides two handles made of light weight and robust material. All attachments to the bag are reinforced for all thinkable emergency scenarios.

02

To ensure that all components are inside the SSK when needed, the bag is sealed by a tamper seal, which is destroyed when the bag is opened.

04

The SSK must be attached to the life raft with a snap hook and a lanyard. This lanyard is attached to the bag and it is folded and tucked into a pocket. To simplify finding of the snap hook in an emergency case, we made this pocket transparent, so the snap hook is easily visible from the outside.



By selecting a wide lanyard, we added an extra function: the lanyard can be used as comfortable shoulder strap if it is necessary to carry the bag a longer distance.



A330 SSK Variants

Contents, weight and main dimensions

P3APP000510A (Pump and Paddle Variant)

Length: 475 mm
Width: 190 mm
Height: 114 mm
Weight*: 5,7 kg

- Glucose Toffee Tablets (1,8 kg)
- Water Packs (1,3 Liters)
- Desalination Pump
- Telescopic Paddle
- Ground to Air Signal Card

Regulation: CAA UK compliant

P3APP000511A (Desalination bag Variant)

Length: 280 mm
Width: 270 mm
Height: 70 mm
Weight*: 4,2 kg

- Glucose Tablets (1,6 kg)
- Water Packs (1,5 Liters)
- Desalination Bag
- Red Parachute Flare
- Ground to Air Signal Card

Regulation: EU OPS 1.830
compliant for standard
flight route

P3APP000512A (Pure Water Variant)

Length: 280 mm
Width: 255 mm
Height: 100 mm
Weight*: 5,4 kg

- Glucose Tablets (1,7 kg)
- Water Packs (2,7 Liters)
- Red Parachute Flare
- Ground to Air Signal Card

Regulation: EU OPS 1.830 & 1.835
compliant for standard flight route
and flight route across desert areas



A350 SSK Variants

Contents, weight and main dimensions

P3APP000514A **(Dual Lane Variant)**

Length: 310 mm

Width: 165 mm

Height: 115 mm

Weight (without equipment): 4,3 kg

- Glucose Toffee Tablets (1,7 kg)
- Water Packs (1,5 Liters)
- Desalination Bag
- Red Parachute Flare
- Ground to Air Signal Card

Regulation: EU OPS 1.830 & 1.835 compliant
for standard flight route and flight route
across desert areas

P3APP000515A **(Single Lane Variant)**

Length: 280 mm

Width: 150 mm

Height: 100 mm

Weight (without equipment): 3,2 kg

- Glucose Tablets (0,8 kg)
- Water Packs (1,5 Liters)
- Desalination Bag
- Red Parachute Flare
- Ground to Air Signal Card

Regulation: EU OPS 1.830 & 1.835 compliant
for standard flight route and flight route
across desert areas





A380 SSK Variants

Contents, weight and main dimensions

P3APP000513A **(Light Variant)**

Length: 260 mm

Width: 180 mm

Height: 100 mm

Weight*: 3,4 kg

- Glucose Tablets (1,6 kg)
- Water Packs (1 Liter)
- Desalination Bag
- Ground to Air Signal Card

Regulation: EU OPS 1.830 compliant for
standard flight route

PED Safety Bag

Lithium-ion batteries are widely used in electronic devices carried by passengers on board your flights. However, in the event of a thermal runaway, these batteries can cause serious damage to the device and potentially lead to a fire and emergency landing.

That's where Accenture's solution comes in.



Some information upfront

PED Safety Bag to manage incidents caused by thermal runaway of lithium-ion batteries used in Portable Electronic Devices (PED) like notebooks, smartphones, etc. and to lead greater safety.

Lithium-ion battery thermal runaway occurs when a cell, or area within the cell, achieves elevated temperatures due to thermal / mechanical failure, internal / external short circuiting, and electrochemical abuse.

In case of a thermal runaway on board the PED Safety Bag can be used to avoid delays or emergency landing. It contains the heat and smoke and allows the flight to continue for 6 hours according to UL5800.

- Instructions by IATA, FAA, EASA for carriage of passenger's lithium-ion batteries onboard. Batteries of max. 160 Wh are allowed on board.
- Numbers of PEDs on board are increasing and so the risk of lithium-ion battery fires.
- UL Standard 5800 for PED Safety Devices has been published in December 2020 to be able to compare and to categorize products and to define minimal standard safety requirements for PED Safety Devices.

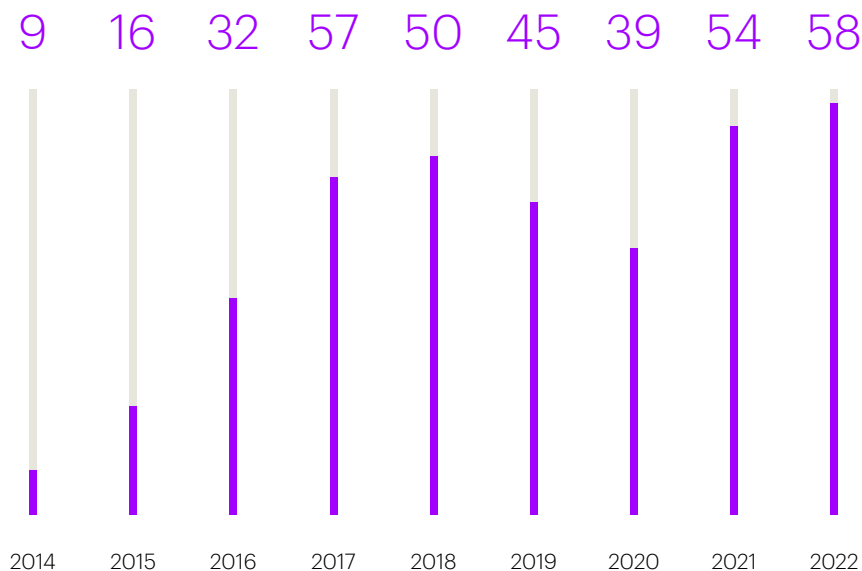
411 total verified incidents

between March 2006 and
November 2022 by the FAA.



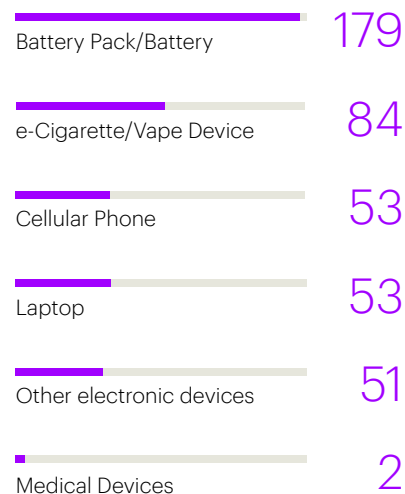
Verified incidents

Lithium battery incidents



Category

Since March 2006



Source: https://www.faa.gov/hazmat/resources/lithium_batteries/incidents

Overview of UL5800 classes

Standard for safety—Battery Fire & Smoke Containment Product

Many products are already on the market, but the quality and functionality are not comparable and not transparent for customers.

- NUL Standard to compare and to categorize battery fire containment products
- Standard has been published in Dez 2020
- Members of the Committee:
Airlines from the US and Canada,
Boeing, FAA, representatives

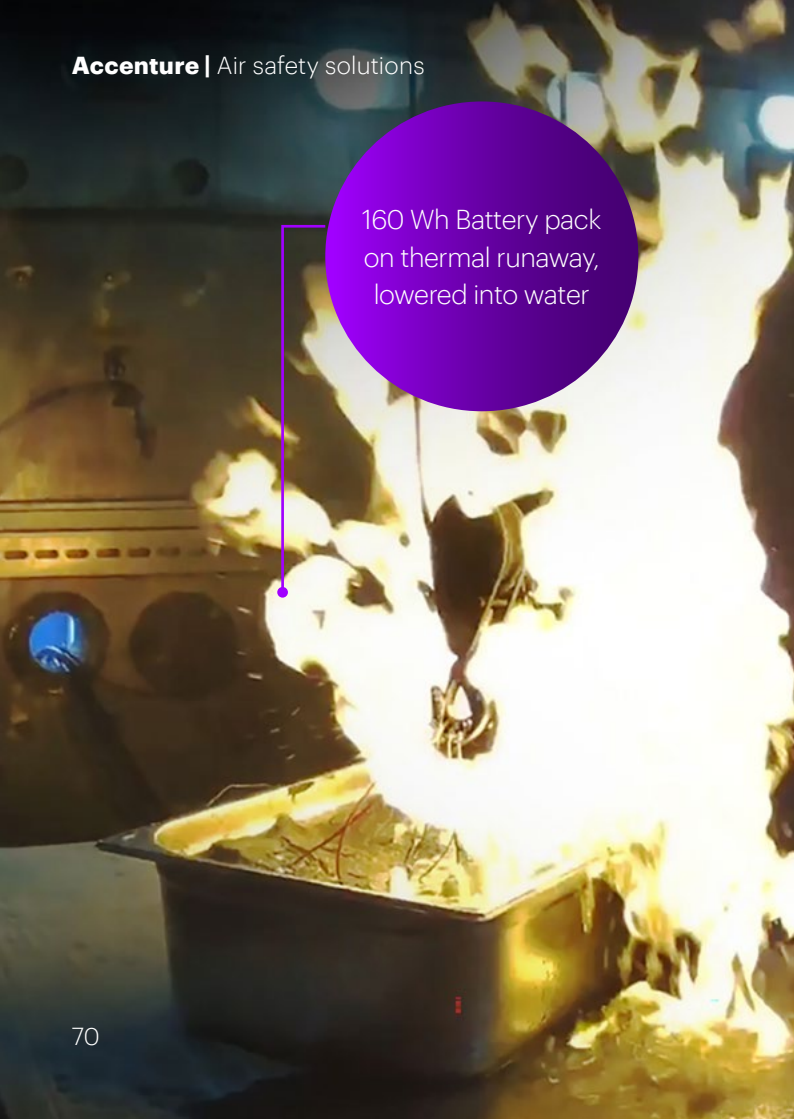
Added value for Customers
due to standardized classification
comparison of products



UL Fire Classes	Representative capacity (Wh)	Number of cells (18650 format, 3300 mAh)	Examples for PEDs
Class 1	≤ 60	5	Laptop, mobile phone, e-cigarettes
Class 2	≤ 100	9	Large power banks and extra long-life workstation batteries
Class 3	≤ 160	14	Up to professional camera battery
Class 4	≤ 300	25	Batteries of mobility chair

Performance Level 1: all visible smoke is confined within the containment product

Performance Level 2: no more than 5m² of total smoke is released from the containment product



160 Wh Battery pack
on thermal runaway,
lowered into water

Example of a Lithium-ion Fire

The current procedures
recommended by aviation
authorities of handling the
thermal runaway scenario

Risk of fire and smoke in
the cabin, flight-safety not
under control

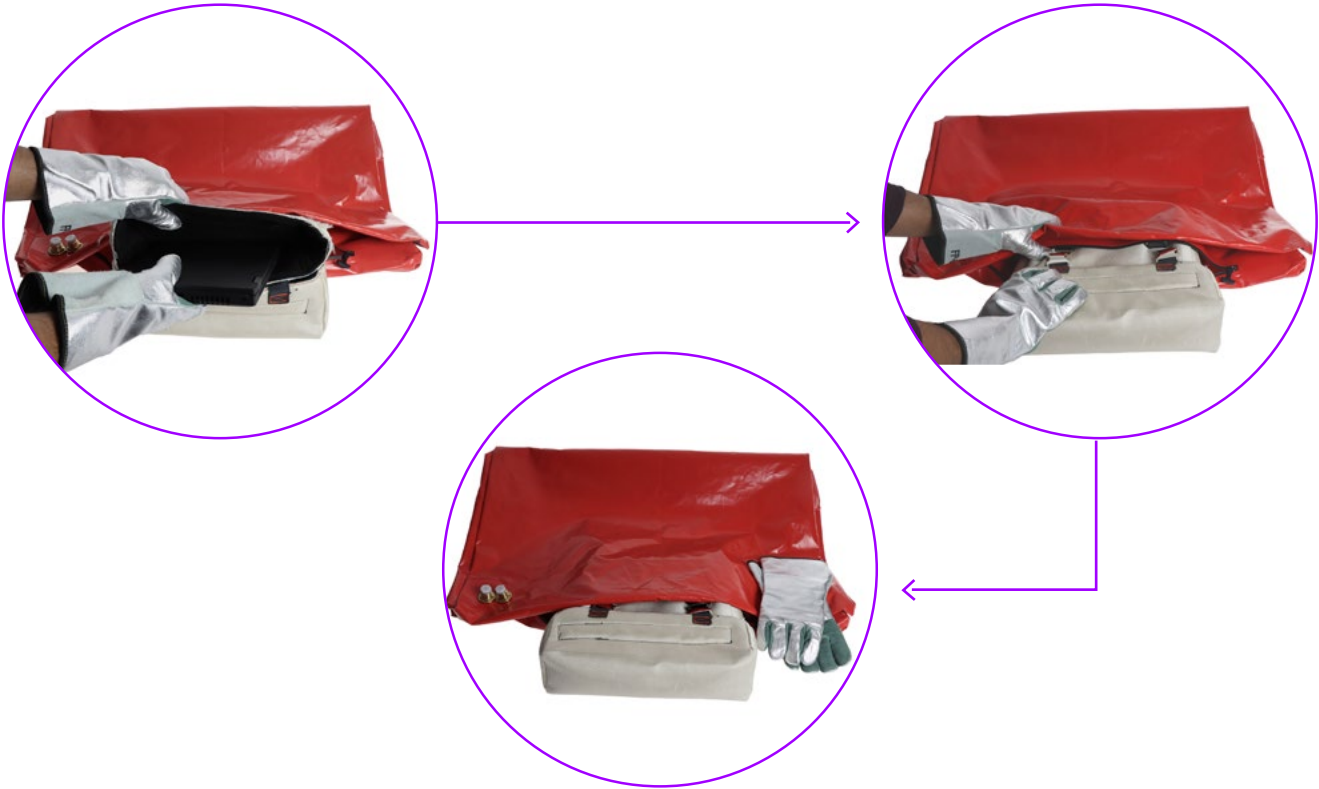
The current procedures recommended by
aviation authorities of handling the thermal
runaway scenario.

Our solution — The Accenture PED Safety Bag Product

Fire and smoke contained,
flight-safety ensured

It contains the heat and smoke and
allows the flight to continue for 6 hours
according to UL5800.







Technical features

- UL5800 class 3 (160 Wh) and performance
- Fireproof up to 1200°C
- Explosion proof
- Total smoke and invincible gas containment
- Large enough for a laptop
- Small enough to be able to store at standard stowage locations without additional fixation

Qualification and certification pending

- UL 5800
- DO 160
- Fireworthiness (CS/FAR25.853)

About Accenture

Accenture is a leading global professional services company that helps the world's leading businesses, governments and other organizations build their digital core, optimize their operations, accelerate revenue growth and enhance citizen services—creating tangible value at speed and scale. We are a talent and innovation led company with 738,000 people serving clients in more than 120 countries. Technology is at the core of change today, and we are one of the world's leaders in helping drive that change, with strong ecosystem relationships. We combine our strength in technology with unmatched industry experience, functional expertise and global delivery capability. We are uniquely able to deliver tangible outcomes because of our broad range of services, solutions and assets across Strategy & Consulting, Technology, Operations, Industry X and Accenture Song. These capabilities, together with our culture of shared success and commitment to creating 360° value, enable us to help our clients succeed and build trusted, lasting relationships. We measure our success by the 360° value we create for our clients, each other, our shareholders, partners and communities. **Visit us at [accenture.com](https://www.accenture.com).**

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