



PERSONAL CABIN DEVICES

RECORD OF REVISIONS

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FOREWORD

Several innovative devices intended to improve passenger comfort inflight are available to the traveling public.

While the use of many of these devices may not contravene specific safety regulations, they may pose additional safety hazards in the cabin during their use/operation.

In accordance with IATA “Cabin Operations Safety Best Practices Guide” 4th Edition and EASA “Flight with Children” leaflet this document aims at providing:

- a **Comfort Device Reference List** (Table A): to verify if the use of a specific device is approved;
- a **Decision Tool-Comfort Device** (Table B): to manage in-flight events where a passenger would like to use a device, not included in table A, to verify if it can be safely used. This as an optional procedure which may be carried out by the SCCM according to the circumstances. The table may also be used to confirm if the use of an approved device satisfies the provisions required.
- a **Child Restraint Device Guideline** (Table C): to verify if a child seat or other child restraint system may be used (i.e. it has been accepted/approved by a competent Authority or a Certification provider).
- a **Postural Support Equipment (PSE) Reference List** (Table D): to verify if the use of a specific device is approved.
- **Postural Support Equipment (PSE) Guideline** (Table E): to verify if a lumbar support device may be used on fleet and accepted for company policy.
- **Not Allowed Devices List** (Table F): to show devices not accepted for company policy.

Table A

PERSONAL COMFORT DEVICES REFERENCE LIST			
DEVICE TYPE	TYPICAL BRAND		COMPANY APPROVAL
Seat extender - inflatable To provide support for infant/child during flight, allowing them to sleep.	PLANE PAL		✓
	FLY TOT		✓
Cabin case seat extender To provide support for infant/child during flight, allowing them to sleep.	JET KIDS	JetKids Bed Box 	✓
Knee defender To prevent seat in front of pax reclining.	GADGET DUCK		✗
Leg hammock Attached to the seat in front to provide a foot/leg rest.	FLY LEGS_UP		✓
Baby hammock To provide additional comfort for lap-held infants.	FLYEBABY		✗
	SKY BABY		✓

PERSONAL COMFORT DEVICES REFERENCE LIST





DEVICE TYPE	TYPICAL BRAND		COMPANY APPROVAL
Flexible seat support To provide additional support within the seat	MONKEYGO		
	TRAVELSNUG		
Head support To provide support for the head while sleeping in a seated position.	FACE CRADLE	 	

Table B

DECISION TOOL – COMFORT DEVICES		
Question	Response & Decision ⁽¹⁾ ⁽²⁾	
	IF YES ↓	IF NO ↓
Is the device within the airline’s cabin baggage allowance (weight & dimension)?	✓	✗
Does the device allow the proper use of the seatbelt?	✓	✗
If the device is inflatable, does it have a quick release valve or other method to equalize pressure during a cabin depressurization incident?	✓	✗
Can the device be quickly removed and secured in case of need?	✓	✗
Can the device be used in a seat in such way that other passenger are not blocked or inconvenienced (typically in a window seat)?	✓	✗
Does the device interact with the user’s seatbelt in a manner which prevents or hinders its normal operation?	✗	✓
Does the device contain lithium-ion batteries with a Watt hour rating of 100 Wh or more?	✗	✓
Does the device adversely affect the use of another passenger’s seat, including access to the aisle, seat recline, use of tray table, IFE etc.?	✗	✓
Does the device, when attached to any part of the seat or cabin component, impose heavier than normal loads to the seat or cabin component?	✗	✓
Does use of the device obstruct cooling/ventilation systems or does it obstruct decompression vents in floor or side wall area to the point of preventing air flow?	✗	✓
Could the device become loose and cause injury to others during turbulence?	✗	✓
Does use of the device prevent any person from rapid access to emergency oxygen masks during a depressurization event?	✗	✓
Does use of the device reduce any person’s situational awareness which could prevent them from being able to take appropriate action in the event of an emergency situation?	✗	✓
Does use of the device prevent cabin crew access to electrical systems or components during an overheat, smoke or fire event?	✗	✓
Does the device interfere with the operations of the aircraft systems and structures?	✗	✓
<p>Note ⁽¹⁾: The use of the device may be allowed:</p> <ul style="list-style-type: none"> • provided the satisfactory condition (i.e. ✓) has been verified for all questions and; • following the favorable opinion of the Commander. 		
<p>Note ⁽²⁾: A Cabin Report must be submitted whenever the table has been used to allow the use of a device not included in table A specifying the brand name and type.</p>		

Table C

CHILD RESTRAINT DEVICE GUIDELINES

CHILD SEATS ACCEPTED/CERTIFIED IN EU

This child seat must have two approval markers:

- Label **ECE R44-04** (the last two digits must be 03 or 04 or a higher number) or the label **ECE R129**,
AND
- **Qualification sign*** attesting that the child seat is approved for use in aircraft.

OPTION 1
(UN) ECE R44-04 and Qualification sign
'For Use in Aircraft'

OPTION 2
(UN) ECE R129 and Qualification sign
'For Use in Aircraft'

CAUTION

This label identifies child seats designed and approved to be attached to a seat only by means of ISOFIX or its equivalent (e.g. LATCH). Company aircraft are not equipped with such connecting (anchorage) points.

CHILD SEAT WITH THIS LABEL IS ALLOWED ONLY IF MANUFACTURER'S INSTRUCTIONS FOR THE APPROVED INSTALLATION TECHNIQUE(S) STATES THAT THE CHILD SEAT IS ALSO APPROVED TO BE ATTACHED TO AN AIRCRAFT SEAT USING ONLY THE AIRCRAFT SEAT BELT.




***QUALIFICATION SIGN**

Examples of qualification signs issued by TÜV in accordance with TÜV/958-01/2001:

- The example on the left was in use prior to 2013;
- The one on the right has been used since 2013 (the older version of the label may contain the word 'Tested' or 'Geprüft' the new version contains the term 'Certified' or 'Zertifiziert').



In either case, the applicable text to note is **"For Use in Aircraft"**.

CHILD SEATS ACCEPTED/CERTIFIED OUTSIDE EU

<p>USA</p>	 <p>Child seat approved for use in motor vehicles and in aircraft according to US FMVSS No 213 must bear one or two labels displaying these two sentences (the text is usually merged on one label):</p> <ul style="list-style-type: none"> • “This child restraint system conforms to all applicable federal motor vehicle safety standards” <p>And</p> <ul style="list-style-type: none"> • “This restraint is certified for use in motor vehicles and aircraft” (in red letters)
<p>CANADA</p>	 <p>Child seat approved in motor vehicles and in aircraft according to the Canadian technical standard CMVSS 213 (child) / 213.1 (infant) must bear the Canadian National Safety Mark * shown next.</p> <p><i>*Note</i> <i>Although some Canadian restraint systems for motor vehicles will have the National Safety Mark, they cannot be used in aircraft.</i> <i>These restraint systems will contain a label limiting its use to motor vehicles. They will also have a label containing the following text: “This Restraint is Certified for Use in Motor Vehicles. This Restraint is Not Certified for Use in Aircraft,” in red lettering.</i></p>
<p>AUSTRALIA NEW ZEALAND</p>	<p>Child seat approved for use in motor vehicles and in aircraft in accordance with the Australia/New Zealand’s technical standard AS/NZS 1754:2013 must bear the label with the green part “For Use in Aircraft”.</p>  <p>Only to be used on aircraft with the permission of the aircraft operator, pilot and crew.</p> <p>SUITABLE FOR FORWARD OR REAR FACING USE*</p> <p>The top tether strap is not required to be used onboard aircraft and should be stowed securely.</p>

The above options are non-exhaustive. A child restraint device can also be certified for use in aircraft by EASA according to the European technical standard ETSO-C100c or through EASA Type Certificate or Supplemental Type Certificate.

Table D

POSTURAL SUPPORT EQUIPMENT REFERENCE LIST		
TYPICAL BRAND	REMARKS	COMPANY APPROVAL
<p>AMSAFE CARES Airplane Safety Harness</p>		<p>The harness is designed for use by infants and children between 10-20 kgs.</p> <p style="color: green; font-size: 2em;">✓</p>
<p>FIREFLY GoTo</p>		<p>167-501-xx-y 1-3Year 167-501-xx-y 3-8Year</p> <p style="color: green; font-size: 2em;">✓</p>
<p>CRELLING Harness model 27</p>		<p>MOD27 27i up to 5 Year MOD27 27A 5-8 Year MOD27 27B 9Y to Adult</p> <p style="color: green; font-size: 2em;">✓</p>

POSTURAL SUPPORT EQUIPMENT REFERENCE LIST


TYPICAL BRAND		REMARKS	COMPANY APPROVAL
MERU TravelChair		The chair is designed for children weighing a maximum of 35kg, aged between 3-11 years.	✓




Table E

POSTURAL SUPPORT EQUIPMENT (PSE) Guideline

Some passengers with disabilities may need to use Postural Support Equipment (PSE) when they travel.

- The PSE must be provided by the passengers only.
- The PSE must be used as per the manufacturer's instructions (weight, age, installation), so passengers are required to have the installation instructions available for reference at check-in and on-board.
- The passenger's seat lap belt must be fastened securely while the restraint harness/device is also in use.
- The passenger using the PSE must be accompanied by an adult (over 18) which shall be responsible for installing, secure and uninstalling the PSE as per manufacturer's instructions. Consider that only Able-Bodied Persons (ABPs) are deemed as accompanying person.
- The PSE shall be placed in a seat next to the accompanying person.
- The use of PSE is permitted only in the last row Economy Class Seats.
- Cabin crew is not deemed responsible to install and uninstall the PSE on passenger cabin.
- The PSE shall not prevent or hinder the movement of adjacent passengers or block exits. It shall not block access to safety and emergency equipment.
- The width of the PSE should be no more than 41 cm to ensure it fits in the aircraft seat.
- The PSE must be installed in the seat, with the passengers facing the same direction as the aircraft seat.

Table F

NOT ALLOWED DEVICES		
BACKLESS BOOSTER SEAT		
HIGH BACK BOOSTER SEAT		
PERSONAL EXTENSION OR LOOP BELT		<p>Both devices are not allowed since they are designed to allow the use of a lap strap combined with a shoulder harness.</p> <p>Personal extension/loop belts are not allowed. (i.e. in case of need only those available on board shall be used)</p>