



# AEROSPACE RECOMMENDED PRACTICE

ARP4466™

REV. B

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Superseded by AS5276/1

## Dimensional Compatibility of Child Restraint Systems and Passenger Seat Systems in Civil Transport Airplanes

### RATIONALE

This SAE Aerospace Recommended Practice is based on outdated child seat designs and aircraft seat dimensions. AS5276/1 presents current standards applicable to child restraint systems with appropriate test procedures.

### CANCELLATION NOTICE

This technical report has been declared "CANCELLED" as of August 2024 and has been superseded by AS5276/1. By this action, this document will remain listed in the respective index, if applicable. Cancelled technical reports are available from SAE.

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## FOREWORD

Child restraint systems, designed primarily for use in automobiles, are also being used in civil airplanes. The performance of the child restraint systems is defined by Federal Motor Vehicle Safety Standards, the standards of the United Nations, or the individual standards of other countries. Their use in civil airplanes and the requirements for adult passenger seats in civil airplanes are governed by regulations of the Federal Aviation Administration. This Aerospace Recommended Practice provides guidance for dimensional compatibility between the child restraint systems and forward-facing transport airplane passenger seat systems, so that the child restraint system will fit in the passenger seat and can be snugly installed using the pelvic restraint provided with the passenger seat.

## 1. SCOPE:

This document provides guidance to promote dimensional compatibility between forward facing passenger seat systems in civil transport airplanes and child restraint systems developed primarily for use in automobiles.

## 2 REFERENCES:

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## 2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| AS8049    | Performance Standard for Seats in Civil Rotorcraft and Transport Airplanes |
| SAE J1819 | Securing Child Restraint Systems in Motor Vehicles                         |

## 2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 1564 (Method A) Indention Load Deflection (ILD) Test (using 25% deflection)

## 2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

Code of Federal Regulations, Title 14, Part 25

Airworthiness Standards: Transport Category Airplanes

Code of Federal Regulations, Title 14, Part 91

General Operating and Flight Rules

Code of Federal Regulations, Title 14, Part 121

Certification and Operations: Domestic, Flag and Supplemental Air Carriers and

Commercial Operations of Large Aircraft

Code of Federal Regulations, Title 14, Part 125

Certification and Operations: Airplanes having a Seating Capacity of 20 or more Passengers or a Maximum Payload Capacity of 6,000 Pounds or more

Code of Federal Regulations, Title 14, Part 135

Air Taxi Operators and Commercial Operators

Code of Federal Regulations, Title 49, Part 571.213

Federal Motor Vehicle Safety Standards, Child Restraint Systems

## 2.4 ECE Publications:

Available from United Nations Economic Commission for Europe, Geneva, SUI

Economic Commission for Europe (ECE), Regulation No. 44 - Uniform Provisions Concerning the Approval of Restraining Devices for Child Occupants of Power Driven Vehicles (Child Restraint Devices)

## 3. DEFINITIONS (AS USED IN THIS DOCUMENT):

### 3.1 CHILD RESTRAINT SYSTEM:

A child restraint system is a portable system designed to help protect children from injury or death in automobile and/or aircraft accidents. For the purpose of this document, child restraint systems used in aircraft must be supported only by the passenger seat and be snugly installed in the passenger seat using only the pelvic restraint (with belt extender if required) provided with the passenger seat. Child restraint systems which require special fittings on the passenger seat, which require support from structure or furnishings external to the passenger seat, or which require special belts for attachment to the passenger seat are excluded from this document.