

*'Under Revision see DR 91037'*

*Amendment 1 - May 1990.*

*Superseded by AS 1754-1991*

AS 1754.2—1989

Australian Standard®

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**Child restraint systems for use in  
motor vehicles**

**Part 2—Type A1 child restraint  
(rearward-facing enclosing restraint)**

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*For referenced documents see p. 3*

This Australian Standard was prepared by Committee CS/75, Automotive Occupant Restraints. It was approved on behalf of the Council of Standards Australia on 17 October 1988 and published on 16 January 1989.

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The following interests are represented on Committee CS/75:

Attorney-General's Department  
Australian Automobile Association  
Australian Automotive Aftermarket Association  
Australian Consumers Association  
Australian Federation of Consumer Organizations Inc.  
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Confederation of Australian Industry  
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*This Standard was issued in draft form for comment as DR 86120.*

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First published as part of AS E46—1970.  
Revised and redesignated AS 1754—1975.  
Revised in part and redesignated AS 1754.2—1989.

## PREFACE

This Standard was prepared by the Standards Australia Committee on Automotive Occupant Restraints, to supersede (in part) AS 1754—1975, *Child restraints for passenger cars and derivatives* which will be withdrawn at a date to be decided and after sufficient time has elapsed for manufacturers and others to change to this Standard.

This Standard deals with specific requirements for Type A1 child restraints, and is complementary to AS 1754.1, *Child restraint systems for use in motor vehicles, Part 1: General requirements*. Other Standards in the series specify particular requirements for other types of child restraints.

The methods of testing child restraints are presented in a separate series of Standards (AS 3629), the first of which is the dynamic test method and which is being published simultaneously with this Standard.

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## STANDARDS AUSTRALIA

## Australian Standard

## CHILD RESTRAINT SYSTEMS FOR USE IN MOTOR VEHICLES

## PART 2: TYPE A1 CHILD RESTRAINTS (REARWARD-FACING ENCLOSING RESTRAINT)

## SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This Standard specifies particular requirements for a Type A1 restraint system for child occupants of motor vehicles. This system is intended for use by one child of not greater than 9 kg mass and not greater than 700 mm supine length in a rearward-facing position.

NOTE: The various types of child restraint systems are classified in AS 1754.1.

**1.2 APPLICATION.** Type A1 child restraints shall comply with AS 1754.1 and with the specific requirements of this Standard.

**1.3 REFERENCED DOCUMENTS.** The documents below are referred to in this Standard.

AS  
1754 Child restraint systems for use in motor vehicles  
1754.1 Part 1: General requirements

2596 Seat belt assemblies for motor vehicles  
3629 Methods of testing child restraints  
3629.1 Part 1: Dynamic testing  
E35.1 Part 1: Seat belt assemblies for motor vehicles  
E35.2 Part 2: Seat belt assemblies (including retractors) for motor vehicles

ADR  
4 Australian design rules for seat belts (and subsequent editions) 0629.23

SAE  
J117 Dynamic test procedure—Type 1 and type 2 seat belt assemblies 2 grade.

**1.4 DEFINITIONS.** For the purpose of this Standard, the definitions given in AS 1754.1 apply.

## SECTION 2. DESIGN AND CONSTRUCTION

**2.1 RESTRAINT SYSTEM.** The restraint system shall comply with the following:

- (a) Attachment to the vehicle shall be by means of an adult lap seat belt or lap/sash seat belt complying with AS 2596, AS E35.1, AS E35.2, or ADR 4 (and subsequent editions). Where an additional attachment is employed, it shall incorporate an attaching clip in accordance with AS 1754.1.
- (b) The restraint system shall accommodate up to and including a P<sup>3/4</sup> dummy, the dummy being clothed with test clothing.

NOTE: The test clothing should include a jumpsuit and nappy.

- (c) Deceleration forces acting upon the occupant in the anterior-posterior direction during a forward

direction impact shall be distributed as uniformly as practicable over the back of the occupant's head and torso.

- (d) The restraint system shall have adequate adjustment(s) for fitment to every vehicle model and seating position for which it purports to be suitable. Adjustment(s) shall be possible with the system in all intended installed seating positions.
- (e) ~~(e)~~ SEE AMENDMENT 1
- (f) Any restraining harness shall have not less than three points of attachment.

**2.2 OTHER SPECIFICATIONS.** If not otherwise specified in this Standard, the requirements of AS 1754.1 shall apply.