

Australian/New Zealand Standard™

Methods of testing protective helmets

Method 5.1: Determination of strength of retention system—Static strength

AS/NZS 2512.5.1:2008

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-097, Testing of Helmets and Visors, to supersede AS/NZS 2512.5.1:1998, *Methods of testing protective helmets*, Method 5.1: *Determination of strength of retention system—Static strength*.

The objective of this revision is to refine the testing procedure.

METHOD

1 SCOPE

This Standard sets out a method for determining the static strength of the retention system of a protective helmet. The method applies to each individual component of a system in which the components can be independently fastened without securing the complete assembly.

2 REFERENCED DOCUMENTS

The following document is referred to in this Standard:

AS/NZS

2512 Methods of testing protective helmets

2512.1 Method 1: Definitions and headforms

2512.2 Method 2: General requirements for the conditioning and preparation of test specimens and laboratory conditions

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 2512.1 apply.

4 PRINCIPLE

With the helmet positioned on a fixed headform, a static tensile force is applied to the retention system. The elongation of the retention system is then measured.

NOTE: The value obtained for the elongation of the retention system is not intended to include any reading due to the compression of any impact-attenuating material (e.g. the crushable liner) or due to the elongation caused by the helmet rotating on the headform.