# ISO 4513:2010-05 (E)

## Road vehicles - Visibility - Method for establishment of eyellipses for driver's eye location

## Contents

Page


Foreword ..... iv

Introduction ..... v

1 Scope ..... 1

2 Normative references ..... 1

3 Terms and definitions ..... 1

4 Adjustable seat 95th and 99th percentile tangent cut-off eyellipses for a 50/50 male and female gender mix ..... 4
4.1 Reference anthropometry ..... 4
4.2 Axis lengths ..... 5
4.3 Axis angles ..... 5
4.3.1 Rear and plan view angles ..... 5
4.3.2 Side view angle, ..... 6
4.4 Centroid locations ..... 6
4.4.1 Locating equations ..... 6
4.4.2 Seats with vertical adjustment ..... 6
4.4.3 Left, right, mid-eye centroids ..... 7

5 Eyellipse locating procedure, Class A vehicles ..... 7

6 Neck pivot (P) and eye (E) points: locating procedure, Class A vehicles ..... 8
6.1 Background ..... 8
6.2 Neck pivot (P) points ..... 8
6.3 Eye (E) points ..... 9

Annex A (informative) Adjustable seat tangent cut-off eyellipses for any user population stature distribution and gender mix ..... 10

Annex B (informative) Fixed seat 95th and 99th percentile tangent cut-off eyellipses for an adult population at a 50/50 gender mix ..... 17

Annex C (informative) Fixed seat tangent cut-off eyellipses for any user population stature distribution and gender mix ..... 21

Annex D (informative) Tangent cut-off eyellipses and inclusive eyellipses ..... 26

Annex E (informative) Eyellipses for Class B vehicles ..... 29

Annex F (informative) Background to the revision of this International Standard ..... 32

Bibliography ..... 34