DIN EN 13484:2012-05 (E)

Helmets for users of luges

Contents

Page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Requirements 8
4.1 Materials 8
4.2 Construction 8
4.2.1 General 8
4.2.2 Retention system 8
4.2.3 Field of vision 9
4.3 Extent of coverage 10
4.4 Shock absorbing capacity 12
4.5 Resistance to penetration 12
4.6 Retention system performance 13
4.6.1 Strength 13
4.6.2 Effectiveness 13
4.7 Durability 13

5 Testing 13
5.1 Visual inspection 13
5.2 Headforms 13
5.3 Sampling, number of samples and sequence of tests 14
5.4 Inspection and determination of mass 14
5.5 Helmet positioning and determination of field of vision and area of coverage 15
5.6 Conditioning 15
5.6.1 Room conditioning 15
5.6.2 Low temperature conditioning 15
5.6.3 Artificial ageing 15
5.7 Determination of shock absorbing capacity 15
5.7.1 Impact zones 15
5.7.2 Apparatus 16
5.7.3 Procedure 19
5.8 Determination of resistance to penetration 20
5.8.1 Apparatus 20
5.8.2 Procedure 21
5.9 Determination of retention system strength 21
5.9.1 Apparatus 21
5.9.2 Procedure 24
5.10 Determination of retention system effectiveness 24
5.10.1 Apparatus 24
5.10.2 Procedure 26
5.11 Test report 26

6 Marking 26

7 Information to be supplied by the manufacturer 26

Annex A (informative) Alternative procedure for artificial ageing 28

Annex B (informative) Significant technical changes between this European Standard and Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC Personal Protective Equipment 31

Bibliography 32