

DIN EN 966:2013-11 (E)

Helmets for airborne sports (includes Amendment A1:2012)

| Contents | | Page |
|---------------------|-------------------------------------------------------|-------------|
| Foreword | | 4 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 6 |
| 4 | Materials | 8 |
| 5 | Construction | 8 |
| 5.1 | General | 8 |
| 5.2 | Retention system | 9 |
| 5.2.1 | General | 9 |
| 5.2.2 | Chin straps | 9 |
| 5.2.3 | Fastening devices | 9 |
| 5.3 | Finish | 9 |
| 5.4 | Field of vision | 9 |
| 5.5 | Head mobility | 9 |
| 5.6 | Eye protection | 10 |
| 6 | Performance requirements | 10 |
| 6.1 | General | 10 |
| 6.2 | Impact absorbing capacity within the test area | 10 |
| 6.2.1 | Shock absorbing capacity | 10 |
| 6.2.2 | Resistance to penetration | 10 |
| 6.3 | Retention system performance | 10 |
| 6.3.1 | Retention system strength | 10 |
| 6.3.2 | Retention system effectiveness | 10 |
| 6.3.3 | Release of the retention system | 11 |
| 6.3.4 | Assemblies | 11 |
| 7 | Tests | 11 |
| 7.1 | Sequence and number of samples to be tested | 11 |
| 7.2 | Determination of impact absorbing capacity | 11 |
| 7.2.1 | Test area | 11 |
| 7.2.2 | Conditioning | 12 |
| 7.2.3 | Shock absorption test | 12 |
| 7.2.4 | Penetration resistance test | 13 |
| 7.3 | Retention system testing | 15 |
| 7.3.1 | Determination of retention system strength | 15 |
| 7.3.2 | Determination of retention system effectiveness | 16 |
| 7.4 | Determination of field of vision | 16 |
| 7.5 | Test report | 16 |
| 8 | Marking | 17 |
| 9 | Information for users | 17 |
| Annex A (normative) | Positioning of the helmet on the headform | 22 |

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Annex B (normative) Test area | 23 |
| Annex C (normative) Field of vision | 25 |
| Annex D (informative) Alternative procedure for artificial ageing | 28 |
| Annex E (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 | 30 |
| Bibliography | 31 |