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KESKMISE RISKIGA OLUKORDADES. KATSEMEETODID  
JA NÕUDED

Protective clothing - Enhanced visibility equipment for  
medium risk situations - Test methods and  
requirements

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 17353:2020+A1:2025 sisaldab Euroopa standardi EN 17353:2020+A1:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.06.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 17353:2020+A1:2025 consists of the English text of the European standard EN 17353:2020+A1:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 25.06.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

## Protective clothing - Enhanced visibility equipment for medium risk situations - Test methods and requirements

Habillement de protection - Équipement de visualisation améliorée pour des situations à risque modéré - Méthodes d'essai et exigences

Schutzkleidung - Ausstattung zur erhöhten Sichtbarkeit für mittlere Risikosituationen - Prüfverfahren und Anforderungen

This European Standard was approved by CEN on 5 July 2020 and includes Amendment 1 approved by CEN on 7 March 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

# Contents

Page

European foreword.....	4
<b>1 Scope.....</b>	<b>5</b>
<b>2 Normative references.....</b>	<b>5</b>
<b>3 Terms and definitions.....</b>	<b>6</b>
<b>4 Types and minimum area requirements.....</b>	<b>9</b>
4.1 Types.....	9
4.2 Minimum area requirements.....	10
<b>5 Design requirements.....</b>	<b>11</b>
5.1 Size designation.....	11
5.2 Type A.....	11
5.2.1 General.....	11
5.2.2 Visibility from all sides.....	11
5.3 Type B.....	12
5.3.1 General.....	12
5.3.2 Type B1 – Free hanging devices.....	12
5.3.3 Type B2 – Equipment for limbs.....	12
5.3.4 Type B3 – Equipment for the torso or the torso and limbs.....	12
5.4 Type AB.....	13
<b>6 Material requirements.....</b>	<b>13</b>
6.1 Requirements for non-fluorescent material, fluorescent material and combined performance material.....	13
6.1.1 Colour performance requirements of new material.....	13
6.1.2 Colour after Xenon test.....	15
6.1.3 Colour fastness of fluorescent material and all non-fluorescent material layers after test exposure.....	15
6.2 Dimensional change of fluorescent material and non-fluorescent material.....	16
6.3 Photometric and physical performance requirements for the separate performance and combined performance materials.....	16
6.3.1 Retroreflective performance requirements of new material.....	16
6.3.2 Type B1 – Free hanging devices.....	17
6.3.3 Type B2, B3 and AB – removable or permanently applied materials or devices.....	17
6.4 Retroreflective performance requirements after test exposure.....	18
6.4.1 General.....	18
6.4.2 Separate performance material.....	19
6.4.3 Combined performance material.....	19
6.4.4 Orientation sensitive materials.....	19
<b>7 Test methods.....</b>	<b>19</b>
7.1 Sampling and conditioning.....	19
7.2 Determination of colour.....	19
7.3 Method of determination of retroreflective photometric performance.....	20
7.3.1 General.....	20
7.3.2 Type B1 devices.....	20
7.3.3 Type B2 and B3 and Type AB devices or garments.....	20
7.4 Test exposure of retroreflective material.....	20
7.4.1 Abrasion.....	20

<b>7.4.2</b>	<b>Folding at cold temperatures</b> .....	<b>21</b>
<b>7.4.3</b>	<b>Exposure to temperature variation</b> .....	<b>21</b>
<b>7.4.4</b>	<b>Rainfall</b> .....	<b>21</b>
<b>7.4.5</b>	<b>Free fall test</b> .....	<b>21</b>
<b>7.4.6</b>	<b>Influence of water (water immersion)</b> .....	<b>21</b>
<b>7.5</b>	<b>Ageing</b> .....	<b>21</b>
<b>7.5.1</b>	<b>General</b> .....	<b>21</b>
<b>7.5.2</b>	<b>Washing</b> .....	<b>22</b>
<b>7.5.3</b>	<b>Dry cleaning</b> .....	<b>22</b>
<b>8</b>	<b>Marking</b> .....	<b>22</b>
<b>9</b>	<b>Information supplied by the manufacturer</b> .....	<b>23</b>
	<b>Annex A (informative) Examples of garments or devices according to types and classes</b> .....	<b>24</b>
	<b>Annex B (informative) Examples of different types of equipment</b> .....	<b>26</b>
	<b>Annex C (informative) Examples on how to determine visibility from all sides for Type A garments</b> .....	<b>27</b>
	<b>Annex D (informative) Possible designs for the placement of fluorescent material on garments</b> .....	<b>28</b>
	<b>Annex E (informative) Examples of Type B2 and Type B3 garment</b> .....	<b>29</b>
	<b>Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation 2016/425 aimed to be covered</b> .....	<b>31</b>
	<b>Bibliography</b> .....	<b>32</b>

## European foreword

This document (EN 17353:2020+A1:2025) has been prepared by Technical Committee CEN/TC 162 “Protective clothing including hand and arm protection and lifejackets”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2025, and conflicting national standards shall be withdrawn at the latest by December 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes A1 EN 17353:2020 A1.

This document includes Amendment 1 approved by CEN on 7 March 2025.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

A1 This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website. A1

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## 1 Scope

This document specifies requirements for enhanced visibility equipment in the form of garments, or devices, which are capable of visually signalling the user's presence.

The enhanced visibility equipment is intended to provide conspicuity of the wearer in medium risk situations under any daylight conditions and/or under illumination by vehicles headlights or searchlights in the dark.

Performance requirements are included for colour and retroreflection as well as for the minimum areas and for the placement of the materials in protective equipment.

This document is not applicable to:

- high visibility equipment in high-risk situations, which is covered in EN ISO 20471 (for further information concerning risk situations, see Annex A);
- visibility equipment specifically intended for the head, hands and feet, e.g. helmets, gloves and shoes;
- equipment integrating active lighting, e.g. LEDs;
- visibility for low-risk situations.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 20105-A02:1994, *Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour (ISO 105-A02:1993)*

**A1** EN ISO 105-A03:2019, *Textiles - Tests for colour fastness - Part A03: Grey scale for assessing staining (ISO 105-A03:2019)* **A1**

EN 20105-N01:1995, *Textiles - Tests for colour fastness - Part N01: Colour fastness to bleaching: Hypochlorite (ISO 105-N01:1993)*

EN 60068-2-31:2008, *Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens (IEC 60068-2-31:2008)*

EN ISO 105-B02:2014, *Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:2014)*

EN ISO 105-C06:2010, *Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering (ISO 105-C06:2010)*

EN ISO 105-D01:2010, *Textiles - Tests for colour fastness - Part D01: Colour fastness to dry cleaning using perchloroethylene solvent (ISO 105-D01:2010)*

EN ISO 105-E04:2013, *Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration (ISO 105-E04:2013)*

EN ISO 105-X11:1996, *Textiles - Tests for colour fastness - Part X11: Colour fastness to hot pressing (ISO 105-X11:1994)*

EN ISO 105-X12:2016, *Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO 105-X12:2016)*

EN ISO 12947-2:2016, *Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (ISO 12947-2:2016)*

EN ISO 13688:2013,<sup>1)</sup> *Protective clothing - General requirements (ISO 13688:2013)*

EN ISO 20471:2013, *High visibility clothing - Test methods and requirements (ISO 20471:2013, Corrected version 2013-06-01)*

ISO 4675:2017, *Rubber- or plastics-coated fabrics - Low-temperature bend test*

CIE 015:2018, *Colorimetry*

CIE 54.2:2001, *Retroreflection - Definition and measurement*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

#### 3.1

##### **combined-performance material**

material intended to exhibit both fluorescent and retroreflective properties

Note 1 to entry: "Fluorescent material" is defined as "background material" in EN ISO 20471:2013.

[SOURCE: EN ISO 20471:2013, 3.6]

#### 3.2

##### **dark condition**

light conditions similar to light outside after sunset and before sunrise

#### 3.3

##### **daylight**

light conditions similar to light outside after sunrise and before sunset

#### 3.4

##### **enhanced-visibility equipment**

clothing/garment or device, intended to provide conspicuity during daylight and/or dark conditions and/or twilight

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<sup>1)</sup> As impacted by EN ISO 13688:2013/A1:2021 and EN ISO 13688:2013/A11:2021