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**SKG-IKOB - QUALITY REQUIREMENTS 574**

**FOR THE SKG-IKOB PRODUCT CERTIFICATE FOR  
SECURITY PRODUCTS THAT OFFER ASSISTANCE AND/OR  
FOR THE PREVENTION OF PERSONAL INJURY**

Established by the Board of Experts for Safe and Burglary-Resistant Products  
dd. 26 June 2013

## FOREWORD

This guideline has been prepared by the Board of Experts for Safe and Burglary resistant products (CvD-V&I) SKG-IKOB, in which the following parties in the field of Safety and Burglar resistant products (V&I) are represented:

- VHS (manufacturers of Building Hardware)
- ABHS (General organisation for Building Hardware)
- GBO (Industry Organisation for Glass)
- CCV (Centre for Crime Prevention and Security)
- SKH (Certification Institute for Wood Products)
- NP (Dutch National Police)
- VvV (Dutch Association of Insurers)
- NL-Ingenieurs (Dutch Association of Engineering Consultants and Civil Engineers)
- NSSG (Dutch Locksmith's Guild)

The Board also monitors the certification process and amends this guideline if necessary. Where this guideline refers to "Board of Experts", the Board mentioned above is meant.

This guideline will be followed by SKG-IKOB together with the Rules and Regulations used by SKG-IKOB. These Rules specify the working method to be followed when carrying out tests for the award of the product certificate, as well as the working method for external inspections. The V&I Board of Experts formed the support committee for drawing up this document.

SKG-IKOB is recognised by the Dutch Accreditation Council (RvA) in accordance with NEN-EN-ISO/IEC 17065 (C003) and NEN-EN-ISO/IEC 17021 (C063), for the certification systems:

- Attestation
- Product Certification
- Process Certification
- ISO 14001 certification
- ISO 9001 certification
- VCA certificate

SKG-IKOB is accredited for its laboratory activities in accordance with NEN-EN-ISO/IEC 17025 (L406) by the Council for Accreditation (RvA) for various activities in the fields of facade elements, thermal insulation, hinges and locks, adhesives and glass.

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Binding declaration

This guideline is declared legally binding by the SKG IBOB Certification BV. Executive Board with effect from 31 March 2016.



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## **1. INTRODUCTION**

### **1.1 SUBJECT**

The requirements included in these quality requirements are used by SKG-IKOB when dealing with an application for, or the maintenance of, a certificate for Security Products that offer assistance and/or for the prevention of personal injury.

The product certificate to be issued shall be known as the "SKG-IKOB product certificate".

In addition to the requirements set down in this AG, the certification bodies will enforce additional requirements in the context of the general procedural requirements for certification, as set down in the regulations of the institution concerned.

A SKG-IKOB product certificate can only be issued if the applicant has entered into a certification agreement with the certification body and insofar as the applicant (in addition to any responsibility for the design) is also responsible for the (regular) production of Security Products that offer assistance and/or for the prevention of personal injury, or is responsible for the delivery of the certified product.

### **1.2 AREA OF APPLICATION**

A product in accordance with the provisions of these quality requirements contributes to personal security in (construction) situations where the needs of the user are not provided for and/or are deficient.

### **1.3 DATE OF COMMENCEMENT AND PERIOD OF VALIDITY**

These SKG-IKOB-KE will take effect immediately on the date of publication.

Product certificates in accordance with these quality requirements are valid for a period of 5 years, in so far as it can be determined by periodic verification by the certification body that specifications have not changed (to such an extent) that it would be necessary to apply for a renewed product certificate and in so far as the certificate holder has complied with all its obligations arising from the certification agreement.

The quality requirements may be cited as:

**SKG-IKOB KE 574\_ Security products which offer assistance and/or which prevent personal injury.**

## **2. PROCEDURE FOR OBTAINING A SKG-IKOB PRODUCT CERTIFICATE**

### **2.1 CERTIFICATION INVESTIGATION (FOR NEW CERTIFICATE HOLDERS ONLY)**

By submitting a written application, the applicant indicates that he/she wishes to enter into a certification agreement with the certification institution and therefore wishes to qualify for a product certificate for one or more of his/her products.

As an indication that the products satisfy the requirements to be set for them, the certification agreement shall entitle and oblige him/her to affix the relevant identifying marks as stipulated in the certificate. He/she will provide the necessary information for drawing up the "technical specification".

In doing so, the applicant states in which situation the product offers security and therefore which statements in the product certificate to be drawn up are desired, in order to demonstrate by means of certification that his Security Products that offer assistance and/or for the prevention of personal injury continuously comply with the requirements to be set for them.

#### **2.1.1 Primary product approval as part of the Certification Investigation**

The certification institution will investigate whether the classification included in the product certificate corresponds to the relevant requirements according to section 3 of these SKG-KE. This is done as stipulated in chapter 6.1

In addition, tests for which this is relevant determine the value at which a product fails. This "failure value" is used in the context of control inspections to determine that the quality of the certified product has remained the same.

*Remark: If no assessment criteria exist for the product concerned, see 2.2.4*

#### **2.1.2 Assessing the applicant's quality system**

The certification institution will establish whether the applicant's quality system is in accordance with the stipulations of section 5 or whether the candidate certificate holder is prepared and able to set up and implement such a system within a reasonable time after entering into the certification agreement. All of this is at the discretion of the certification institution.

The product certificates can be issued (see 2.1.4) only after it has been demonstrated that the applicant's quality system satisfies the stipulations of section 5.

#### **2.1.3 Entering into a certification agreement**

When primary product approval (2.1.1) and assessment of the applicant's quality system (2.1.2) have been successfully completed, the applicant will be offered a certification agreement in accordance with the general conditions for Product Certification of the certification institution.

In this document, the applicant submits to the product certification regulations and with that to the inspection regime included therein and the sanction provisions also included therein, and the certificate holder accepts the obligation to provide his products in the prescribed manner (indelibly) with the SKG EHBO mark(s) and an identification mark.

*Remark: The identification marks may consist of a protected brand or logo which, in the opinion of the certification body, unambiguously refers to the certificate holder.*

#### **2.1.4 Issuing of the SKG-IKOB product certificate**

The product certificate is issued in accordance with the SKG-IKOB product certification regulations and when the certification agreement has been entered into. The product certificate will be issued for the products for which primary product approval has been successfully concluded.

#### **2.1.5 External quality care**

After entering into a certification agreement, the certification institution will carry out verification as described in section 6.

## **2.2 HANDLING OF APPLICATIONS FOR PRODUCT CERTIFICATES UNDER AN EXISTING CERTIFICATION AGREEMENT**

### **2.2.1 Application**

The certificate holder indicates that it wishes to be considered for a new product certificate for one of its products, indicating the product group and classification for which the safety product should be considered.

### **2.2.2 Primary product approval as part of the application for new product certificates**

The certification body examines whether the classification to be included in the product certificate agrees with the corresponding requirements in chapter 3 and the relevant product annexe of these quality requirements. This will take place on the basis of laboratory tests as stipulated in Section 6.

### **2.2.3 Issuing of the SKG-IKOB product certificate**

The product certificate shall be issued in accordance with the Regulations for Product Certification of the certification body.

### **2.2.4 Determining requirements for new product types**

If no assessment criteria are yet known for the product type in question, these will be drawn up in consultation with the applicant.

The application is submitted to the Board of Experts, who will assess whether:

- a. The intended security effect of the product type is sufficient to qualify for the designation "security product".
- b. Whether the assessment criteria for the product in question correspond sufficiently with what may reasonably be expected of such product types.

In the event of a positive assessment, the product type and the corresponding assessment criteria are included in the annexe to these quality requirements.

### 3. REQUIREMENTS FOR SECURITY PRODUCTS WHICH OFFER ASSISTANCE AND/OR WHICH PREVENT PERSONAL INJURY

#### 3.1 PRODUCT REQUIREMENTS

Security products that offer assistance and/or for the prevention of personal injury shall comply with the general product requirements described below and with the product-specific requirements for consumer or professional use, respectively, corresponding to the classes: “1-EHBO mark” or “2-EHBO marks”.

##### 3.1.1 Fasteners

Fasteners must be specified and/or supplied.

##### 3.1.2 Assembly instructions

The products must be provided with clear installation instructions, drawn up in the Dutch language. In addition to the contact details of the certificate holder and any product-specific requirements, the assembly instructions must describe or include the following aspects:

- a) conditions of application/use/restrictions:
  - for which situations and under which conditions the product is/maintains its suitability;
- b) assembly details;
  - specifications of the fasteners to be used depending on the substrate.
- c) maintenance instructions that are relevant for continuing to meet the performance requirements.

Products intended for the consumer market (do-it-yourself) must each be supplied separately with an assembly instruction.

For products for the professional market, a single instruction for the specific customer is sufficient.

#### 3.2 Design requirement

- a) The SKG mark, as described in chapter 4, together with an unambiguous identification referring to the certificate holder, must be indelibly applied to the product.

*Remark: Indelible is understood to mean that the designation cannot be removed by any other means than mechanical ones or through the use of a solvent/chemical solution which will result in visible damage to the product.*

- b) The SKG mark must be located in such a way that control bodies can find it without having to disassemble the product.

*Remark: For products for which this is not technically possible or for which it is undesirable for other reasons, the certification body may grant exemption from the aforementioned requirement.*

#### 3.3 Performance requirements

Depending on the product and its intended contribution to security, the SKG-IKOB Board of Experts will formulate requirements and determination methods, which will be included in the annexe to these quality requirements.

### 4. CLASSIFICATION AND DESIGNATION

Security products that offer assistance and/or for the prevention of personal injury that comply with chapter 3 shall be indelibly marked with the brand or logo of the certificate holder, with the SKG security mark containing 1 or 2 EHBO marks, and, if applicable, shall be labelled with the number and date of the (European) standard concerned.



#### Product certificate:

The product certificate contains a technical description of the product and states the class according to these quality requirements and the EHBO mark(s) indication.

## 5. REQUIREMENTS FOR THE QUALITY SYSTEM OF SKG-IKOB-CERTIFICATE HOLDER

### 5.1 PRODUCT AND PRODUCTION CONTROL/ REQUIREMENTS TO BE SET FOR THE QUALITY SYSTEM

The SKG-IKOB product certificate holder must have a fully functional quality system that is demonstrably in accordance with what has been established in a production manual for this purpose.

#### Recommendation

The certificate holder's quality system should preferably conform to the requirements in accordance with ISO 9001 taking into account that the requirements for products stated in these SKG-IKOB-KE, are up to standard, in order to guarantee that the product supplied by the certificate holder constantly satisfies the requirements.

#### Requirements to be set for the production manual:

In order to avoid differences of opinion and interpretation, the production manual should fully, clearly and unambiguously contain all the relevant data for the proper production or supply of the security products which offer assistance and/or which prevent personal injury.

This must include the following (where relevant):

- a. the presence in the organisation structure of an officer charged with the management of the quality system.
- b. the presence of up-to-date documentation on the certified product and also (if relevant) on the semi-manufactured products incorporated in it, of which it must be possible to show that their suitability for processing into security products which offer assistance and/or which prevent personal injury is in accordance with the stipulations in these requirements.
- c. the presence and functionalism of a system of internal quality control set down in writing.  
This includes work instructions, etc., for the registration of data such as:
  - \* intake check of purchased raw materials, semi-manufactured products and end products;
  - production process control (also in the case of sub-outsourcing under contract);
  - \* end product control
- d. measuring and research facilities, including their calibration (see 5.3);
- e. settlement of faulty products;
- f. the effectiveness of corrective measures in the case of identified imperfections and faults;
- g. a complaints procedure including registration and settlement (see 5.4);
- h. a procedure for the identification of products (article numbers, identifying marks, logos, etc.).

### 5.2 MEASURING AND TESTING EQUIPMENT

In order to carry out the required registrations, the certificate holder must have the (calibrated) equipment necessary for adequate quality control, as well as measuring equipment with the degree of accuracy needed for the desired result.

### 5.3 COMPLAINTS REGISTRATION

The holder of a product certificate or a certificate must keep a complaints book in which he/she registers all complaints referring to products to which the product certificate applies.

For each complaint, the complaints book must indicate in what way the complaint was analysed in what way the complaint was settled.



## 6. VERIFICATION BY THE CERTIFICATION INSTITUTE

### 6.1 VERIFICATION FOR OBTAINING THE SKG-IKOB PRODUCT CERTIFICATE (PRIMARY APPROVAL OR TYPE APPROVAL)

Primary product approval consists of tests to establish that products satisfy the requirements of section 3. For carrying out the tests, products submitted for certification must be taken randomly from continuous production. If the certification institution deems it advisable, all laboratory tests will be carried out 3 times and the results set down in a report. The results of primary approval will be considered positive and will lead to the issuing of a product certificate when the padlock appears to satisfy the requirements of section 3 in all of the tests.

*Remark: If no products are available from continuous production (e.g. in the case of prototypes) the results of primary approval can lead only to the conditional issuing of a product certificate. Such products may only be marketed with the EHBO mark(s) after, possibly after a primary inspection, the similarity between the sample from the current production and the prototype sample has been established.*

### 6.2.4 VERIFICATION OF MAINTENANCE OF THE SKG-IKOB PRODUCT CERTIFICATE

The certification institution will carry out periodical and unannounced verification as to whether the products satisfy the technical specification and whether the holder's quality system satisfies the requirements.

Supplying products under the product certificate that do not satisfy the specifications of the product certificate in accordance with the stipulations of these requirements may, in the first instance (if no corrective measures are taken that are deemed adequate by the certification institution) lead to the withdrawal of the right to use the product certificate for the product concerned and, in the case of a persistent lack of quality, will lead to the termination of the certification agreement.

In the case of complaints, the certificate holder must demonstrate to the satisfaction of the complainant that the product supplied by him/her is at least equal in value to what he/she is offering and provides a performance corresponding to that stated in the product certificate, unless other agreements have been clearly made in the agreement. The certification institution is authorised to establish the justifiability of the complaint by means of verification (possibly in the factory) and to demand corrective measures.

### 6.3 VERIFICATION ASPECTS AND FREQUENCY OF VERIFICATION

The way in which the verification of the product is carried out, as well as the frequency of visits, will be established by the Board of Experts in accordance with the advice that the board provides to the certification institutions\*).

*\*) Starting from the date of commencement of these requirements, the verification frequency has been established as follows: Each certificate 1 x per annum<sup>1)</sup>). The security products that offer assistance and/or for the prevention of personal injury required for the inspection shall be obtained randomly from the market in a manner to be determined by the certification body.*

*<sup>1)</sup> B.01: check frequency with regard to ageing: 1 x every 2 years.*

### 6.4 VERIFICATION OF THE OPERATION OF INTERNAL QUALITY CONTROL

Once a year\*), the Internal Quality Control of each certificate holder will be verified and evaluated.

*\*) The certification body may decide to reduce the frequency of this inspection to once every two years for companies where internal quality control is sufficiently guaranteed.*

*\*) The certification institution may decide to omit this verification in the case of companies that are ISO-9001 certified if, in the judgement of the certification institution, it has been sufficiently shown that quality control of the product and of production products certified in accordance with these assessment guidelines are part of ISO quality system and when it has been established that the institution responsible for ISO certification can make an informed judgement on this.*

### 6.5 VERIFICATION OF THE USE OF IDENTIFICATION MARKS

The certification institution will verify whether the identification marks and the method of marking have been correctly applied, as well as whether the product can be traced back to a product certificate by means of this identification.

**7. LIST OF DOCUMENTS CITED**

The following standards are referred to in this document. For dated references, only the cited version applies. For undated references, the latest version of the standard (including its amendments and corrections) referred to shall apply.

EN-ISO 9001	Quality management systems - Requirements.
EN-ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories.
EN-ISO/IEC 17065	General criteria for certification bodies operating product certification.
EN-ISO/IEC 17021	General criteria for certification bodies operating quality system certification.
EN 16654:2015	Children's articles - Finger protection profiles for doors - Security requirements and test methods.

## **ANNEX SECURITY PRODUCTS – PRODUCT TYPES AND REQUIREMENTS**

### General

These annexes list product types and corresponding requirements, and test methods of products that can contribute to security.

The requirements mentioned are an addition to the general requirements as described in chapter 3.

Product types not included in this list but which may be considered as a security product can be added. This is in the opinion of the Board of Experts for Secure and Burglar resistant products of SKG-IKOB, who will also determine the requirements and test methods.

**B. 01 FINGER PROTECTION PROFILE**

Board of Expert decision: 30-03-2016 / 31-08-2016

**General product requirements**

The requirements of chapters 4.1, 4.2 and 4.9 of EN 16654 apply for both the + and ++ classes.

4.1 Assembly instructions aspects;

- \_Area of application: revolving doors in buildings or domestic areas (indoor climate).
- \_Type of door, including thickness, material and the maximum opening angle of the door for which the product is suitable.
- \_Fasteners for all relevant applications must be supplied.

4.2 The product must not be attractive to children by means of shapes and/or applied print.

Product parts that are accessible during normal use must be free of sharp edges ( $r \geq 0.1$  mm) to prevent cuts.

4.9 The product and/or packaging shall be labelled with the number and date of the standard (EN 16654: 2015).

**Performance requirements**

One finger protection profile with a length of 150 cm shall be tested successively;

Class	Ageing - requirement and methodology	Reference
+	No requirements	
++	The finger protection profile, with the exception of products where the relevant security parts are made of metal, will be thermally aged in a climate chamber for 1000 hours at $70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ or 2700 hours at $55^{\circ}\text{C} \pm 3^{\circ}\text{C}$ .	

Class	Durability - requirement and methodology	Reference
+	50,000 operations, max. opening angle see suitability for application (4.1) During the test, the finger protection profile shall not break, show any visible cracks or permanent deformation and/or detach from the test door and/or the frame. The finger protection profile must still be fully functional after the test. If non-relevant parts become detached from the finger protection profile during the test, they must not fit entirely into a small cylinder shape, see figure 1 below.	Test in accordance with EN 16654 par. 5.4.1.1
++	200,000 operations, max. opening angle see suitability for application (4.1) Test and assessment methodology identical to class: +	

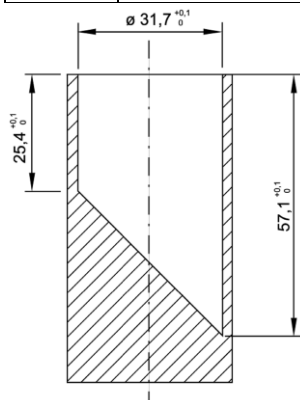


figure 1 (according to EN 16654, par. 5.2.3)

Class	Accessibility - requirement and methodology	Reference
+	Compressive force: 25 N. During the test, the finger probe must not be squeezed between the door leaf and the frame. After removing the finger probe, the door functions normally and the finger protection profile is not broken, has no visible cracks or permanent deformation and does not detach from the test door and/or frame.	Test in accordance with EN 16654 par. 5.4.2.1
++	Compressive force: 50 N. Test and assessment methodology identical to class: +	

<b>Class</b>	<b>Deformation - requirement and methodology</b>	<b>Reference</b>
+	Application of compressive force: 70 N, 2500x at a position of 45° and 90° at a height: 300(± 10)mm. After the test, both the door and the product still function normally, the fastening is intact and the product shows no permanent deformation, breaks and/or cracks.	Test in accordance with EN 16654 par. 5.4.2.2
++	Application of compressive force: 70 N, 2500x at a position of 45° and 90° at a height: 300(± 10)mm, then repeat the entire cycle at a height: 750(± 10)mm. Test and assessment methodology identical to class: +	

A 2<sup>nd</sup> finger protection profile is used successively for the small parts tests;

<b>Class</b>	<b>Torsion - requirement and methodology</b>	<b>Reference</b>
+ & ++	When a part can be gripped between the thumb and forefinger, a torque will be applied which will rotate clockwise within 5 (±0.1) sec. until: a) a rotation of 180° from the original position has been achieved; or b) a torque of 0.34 Nm is achieved. This is maintained for 10 (± 0.5) sec., after which the part is released and returns to a relaxed state. Repeat this procedure counterclockwise. If a threaded part becomes loose during torque application, the torque shall be maintained until the desired torque is exceeded, the part becomes loose or until it is clear that the part will not disintegrate and/or fail. The part must not become loose and it must not be possible to break off pieces over a height of at least 500 mm.	Test in accordance with EN 16654 par. 5.4.3.2

<b>Class</b>	<b>Resistance under tension - requirement and methodology</b>	<b>Reference</b>
+	When a part can be gripped between the thumb and forefinger, a pull-up force of 10(± 1) sec., will be applied progressively within a period of 5 sec.: _ 50(± 2)N if gripping dimension ≤ 6 mm; or _ 90(± 2)N if gripping dimension > 6 mm. After the test, the door functions normally, the finger protection profile is not broken, has no visible cracks or permanent deformation and does not detach from the test door and/or frame.	Test in accordance with EN 16654 par. 5.4.3.3
++	When a part can be gripped between the thumb and forefinger, a pull-up force of 10(± 1) sec., will be applied progressively within a period of 5 sec.: _ 75(± 2)N if gripping dimension ≤ 6 mm; or _ 150(± 2)N if gripping dimension > 6 mm. Repeat the test 50x with a rest period of 20(± 2) sec. after each cycle. Test and assessment methodology identical to class: +	