

# KOMO® APPROVAL-WITH-PRODUCT CERTIFICATE SKG.1039.0389.05.ENG

Issued: 03-11-2017  
Valid until: 14-07-2021



## Certificaathouder

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## Van Deudekom Plastics BV Building hardware

### Declaration of SKG-IKOB

This approval-with-product certificate is issued on the basis of assessment guideline BRL 3104: 15-04-2016 in accordance with the SKG-IKOB Regulations for Attestation, Certification and Inspection.

The quality system and the product characteristics corresponding to the door and window hardware products will be inspected periodically and the performance of the hardware products in roof and facade elements has been assessed in relation to the Dutch Buildings Decree and the requirements for the assessment will be re-evaluated periodically. On the basis of this, SKG-IKOB declares that:

- there are reasonable grounds for believing that, on delivery, the hardware products manufactured for or by the approval-with-product certificate holder satisfy the product requirements specified in the assessment guideline (BRL), provided the hardware products are marked with the KOMO-label in a manner described in this approval-with-product certificate and the hardware product is marked indelibly with the SKG burglar resistance mark. The essential characteristics as specified in any relevant European standard do not form part of this approval-with-product certificate.
- the roof or facade elements constructed using these hardware products perform as described in this approval-with-product certificate and the roof or facade elements satisfy the requirements of the Dutch Buildings Decree included in this approval-with-product certificate of quality, provided:
  - the technical specifications and conditions for use given in this approval-with-product certificate are complied with
  - the hardware products are manufactured in accordance with the instructions and/or processing methods given in this approval-with-product certificate.

SKG-IKOB declares that the composition of and/or fitting of the hardware products in roof or facade elements is not monitored in connection with this statement.

For SKG-IKOB

A handwritten signature in blue ink, appearing to be 'H.A.J. van Dartel', written over a horizontal line.

ir. H.A.J. van Dartel  
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This quality statement is included in the overview on the website of Stichting KOMO: [www.komo.nl](http://www.komo.nl). The users of this statement are advised to verify at [www.skgikob.nl](http://www.skgikob.nl) if this document is still valid and actual. This statement consists of 7 pages and 1 annex.



## Buildings decree

Judged is:  
-quality system  
-product  
-product in use  
Continuous inspection

## 1. TECHNICAL SPECIFICATIONS

### 1.1 Subject

Factory-produced building hardware products with attachments, meant for application in doors/windows in buildings.

This approval-with-product certificate regarding the production and supply of building hardware for roof- and facade-elements is applicable to the following types of products:

**Table 1**

Product type	Part of this certificate
01 Single lock	no
02 Multipoint lock	no
03 Single bolt	no
04 Multipoint bolt	no
05 Cylinder	no
06 Security furniture	no
07 Hinge	no
08 Seam protector	no
09 Barrier device	yes
10 Pad lock	no
11 Window handle	no
12 Locking plate	no

For the current list and detailed specifications of the products covered by this approval-with-product certificate, see on [www.sterrenwijzer.nl](http://www.sterrenwijzer.nl)

#### 1.1.1 Locks, single and multipoint type

Locks are designed to close doors from the outside and consist of metal and (for less essential parts) polymer components and are made in single- and Multi-point type. The metal deadbolt of locks can be block- hook- or pin-shaped. Locks can be equipped with a latch made of metal or plastic and are constructed in such a way that they can be operated from within as well as from the outside. Locks can be mounted on the surface of the door (Rim) as well as inside the doorleaf (Mortice).

Locks can have an integral codebearer as well as have a recess for mounting a separate codebearer (usually called a cylinder). Locks can be supplied including a keeper for the latch and deadbolt, or they can refer (in the manual) to a specific keeper. Locks on escape-doors are constructed in such a way that the deadbolt can be withdrawn in a single movement.

Locks are built from materials that are inherently corrosion-proof or have been treated in an adequate way to reach this end.

#### 1.1.2 Bolts, single and multipoint type

Bolts are intended to secure doors and windows from within and consist of metal and (for less essential parts) polymer components and are made in single and multi-point type. The metal bolt can be block- hook- or pin-shaped. Bolts are built in such a way that they can only be operated from within and can be mounted either on the surface of the door or window or inside the door or window leaf.

Bolts can be lockable by key, be limitedly lockable or not at all. Lockable versions usually have an integral code-bearer. Bolts are supplied including a keeper. Locks with a flight mode are constructed such that a movement of the deadbolt can be withdrawn.

Bolts are built from materials that are inherently corrosion-proof or have been treated in an adequate way to reach this end.

#### 1.1.3 Cylinders

Cylinders are assembled from metal or (for less essential parts) polymer components and a matching code-bearer. Cylinders are constructed in such a way that they can only be opened with the matching key. Cylinders can be single (half-), double, (whole) or knob-type.

Cylinders are built from materials that are inherently corrosion-proof or have been treated in an adequate way to reach this end.

#### 1.1.4 Furniture (shields and roses)

By furniture we mean a provision to protect the cylinder from attack from the outside and it generally takes the shape of an outer- and inner plate, inter-connected by screws going through the doorleaf. Furniture consists of an assembly of metal and (for less vital pieces) polymer components. Furniture comes with holes to accommodate the cylinder. If there is no further protection for the cylinder the leeway between the cylinder and the hole shall never exceed 1 mm. Furniture may come equipped with additional features to protect the cylinder, notably to shield against core-pulling.

Furniture may be supplied with fixed leverhandle or push-pad or facilities to operate the latch. Furniture is built from materials that are inherently corrosion-proof or have been treated in an adequate way to reach this end.

#### 1.1.5 Hinges

Hinges are meant to hang doors or windows and consist of metal or (for less essential parts) polymer components. Hinges can be leaf-type or paumelles, with or without bearings. Hinges can be mounted on the leaf of the door or on the edge of the door, or a combination of both.

Hinges are built from materials that are inherently corrosion-proof or have been treated in an adequate way to reach this end.



## 1.1.6 Seam protectors and barriers

Seam protectors are meant as an additional security feature and are made of metal or (for less essential parts) polymer components. Barriers are meant as an additional feature on tilt-windows and the like. Both products are nearly always for retrofit-purposes. Seam protectors and barriers are both made from materials that are inherently corrosion-proof or have been treated in an adequate manner to reach this end.

## 1.1.7 Padlocks

Padlocks are meant as a supplemental means of locking doors and windows, and in general for securing all kinds of objects. Padlocks are made from various metals, and, for less vulnerable parts, polymers.

Remark: The use of padlocks on doors and windows in housing is unusual in the scope of the building code.

Padlocks may have an integral codebearer or a provision to mount a separate code-bearer, (usually called a cylinder). Padlocks may be supplied with a shackle for specific applications. Padlocks are built from materials that are inherently corrosion-proof or have been treated in an adequate way to reach this end.

## 1.1.8 Window handles

Window handles are intended as operating element for locking devices and also have a blocking function. Window handles are only fitted on the secured sides and are blocked by means of a key or a locking mechanism that cannot be manipulated.

## 1.1.9 Keepers

Keepers are fitted in the frame and are intended for the guidance and protection of bolts. Keepers are often specifically constructed for hook, block or pin bolts and consist of a combination of metals and (for less essential parts) polymer construction components.

## 1.2 Identification

Products which conform to this approval-with-product certificate has to be identified by being indelibly marked with the following data:

- the logo of the certificate holder
- the SKG burglary resistance mark with the relevant classification in stars associated with the relevant class burglary resistance (see below), optionally in combination with mark (s) from the additional SKG-IKOB requirements.



In addition, for wholesale purposes to construction companies, either on the package or on the instruction sheet accompanying the product, there should be the unique product number. Here the KOMO®-logo has been applied, see example beneath.



® Van Deudekom Plastics BV  
certificatenummer: SKG.1039.0389

# KOMO® APPROVAL-WITH-PRODUCT CERTIFICATE

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## 2. PERFORMANCES REGARDING THE DUTCH BUILDINGS DECREE

DUTCH BUILDINGS DECREE				
Nr	Subject	Numerical limit and determining method	Performance according to declaration of quality	Remarks on the intended use
2.15	Burglary resistance	The door or windows (inclusive the installed hardware) satisfies at least RC 2 of NEN 5096	At least RC 2 of NEN 5096	Façade elements shown to comply with resistance class 2 of NEN 5096 achieve this performance with the products that are certified under these BRL 3104. A recognized quality certification or a KOMO approval on the façade element is thus a conclusive evidence.

### 2.1 Performance from the security point of view -

BURGLARY RESISTANCE; BB-Dep. 2.15

#### 2.1.1 Burglary resistance; BB-Dep. 2.130

The products supplied under this approval-with-product certificate of quality satisfy at least burglar resistance class 1-star in accordance with NEN 5089. Roof and facade elements in which door and window hardware products covered by this approval-with-product certificate are fitted in accordance with the manufacturer's processing instructions satisfy at least resistance class 2 (RC2) of NEN 5096 (EN 1627), provided the facade element or the profile system used to construct the element is supplied under a KOMO approval-with-product certificate or KOMO approval (focusing on the aspect burglar resistance), in which the window or door type to be supplied is included and also provided the conditions described in this are satisfied.

Remarks:

- 1) In facade elements that must satisfy a burglar resistance class (RC) of EN 1627, only SKG 3-star cylinders or furniture (SKG 2- or 3-star) with protection against cylinder extraction may be used. In bolts, a SKG 3-star handle must be used.
- 2) This requirement applies to all product types excluding padlocks.

Condition(s) for use:

Door and window hardware products that cannot be secured, such as locks and locking bolts, can only be used in burglar resistant roof or facade elements in which the infillings demonstrably satisfy the additional requirements for burglar resistance specified in NEN 5096.



### 3. PRODUCT PERFORMANCES AND APPLICATION IN EXISTING BUILDINGS

#### 3.1 Burglary resistance in existing buildings

Any retro-fit door or window fitted according to the manufacturers' instructions and satisfying this approval-with-product certificate qualifies according to the police safe housing directive (PKVW) for existing buildings, provided the facade element satisfies the other directives in PKVW.

#### 3.2 Locks and multipoint locks

Main- and supporting locks according to burglary resistance class 1-star, 2-star or 3-star give the performance indicated in the tables In the manual test, as mentioned in the table, the main- and supporting locks have been tested singly (2-star and 3-star) or as a set (1-star).

The manual test has been applied to the combination of the lock and the recommended/ supplied keeper.

Emergency- and panic-escapes with bolts do satisfy NEN-EN 179 or NEN-EN 1125. Because these devices are by definition not lockable this demand is waived and the burglary resistance-marking is duly modified.

##### Single locks

Performance	1-star	2-star	3-star
	*	**	***
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, not independent	3, independent	5, independent
EN 12209 (digit 1) Category of use	-		
EN 12209 (digit 2) Durability	-		
EN 12209 (digit 3) Door mass and closing force	-		
EN 12209 (digit 4) Suitability for use on fire/smoke doors	-		
EN 12209 (digit 5) Safety	0		
EN 12209 (digit 6) Corrosion resistance and temperature	C		
EN 12209 (digit 7) Security	3U		4U
EN 12209 (digit 8) Field of application	-		
EN 12209 (digit 9) Type of key operation and locking	A, B, D, E, G of H		
EN 12209 (digit 10) Type of spindle operation	-		
EN 12209 (digit 11) Key identification requirement	B		D

##### Single electromechanical locks

Prestatie	1-ster (*)	2-ster (**)	3-ster (***)
	NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, not independent	3, independent
EN 14846 (digit 1) Category of use	-		
EN 14846 (digit 2) Durability	C		
EN 14846 (digit 3) Door mass and closing force	-		
EN 14846 (digit 4) Suitability for use on fire/smoke doors	-		
EN 14846 (digit 5) Safety	0		
EN 14846 (digit 6) Corrosion resistance and temperature	E		
EN 14846 (digit 7) Security	3U		4U
EN 14846 (digit 8) Security - Electrical functions	-		
EN 14846 (digit 9) Security - Electrical manipulation	3, 2* *if wires shielded against mechanical manipulation		

##### Multipoint locks

Performance	2-star	3-star
	**	***
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, independent	5, independent
EN 12209 (digit 9) Type of key operation and locking	A, B, C, D, E, F, G en H	

#### 3.3 Single, multipoint bolts (operators) and keepers

Bolts according burglary resistance class 1-star, 2-star, and 3-star will give the results mentioned in the table. In the manual test, as mentioned in the table, the bolts have been tested as a pair 1-star or singly 2-star or 3-star. The manual test has been applied to the combination of the lock and the recommended/ supplied keeper.

##### Single bolts

Performance	1-star	2-star	3-star
	*	**	***
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, independent	5, independent	5, independent
NEN 5089, par. 5.2.7.1 Handle - lever withstands force	35 Nm		100 Nm
EN 1670 Product functional after saltspray test	grade 3		

##### Multipoint bolts (incl. tilt and turn)

Performance	2-star	3-star
	**	***
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, independent	5, independent
NEN 5089, par. 5.2.7.1 Handle - lever withstands force	35 Nm	100 Nm
NEN-EN 1670 Product functional after saltspray test	grade 3	

## 3.4 Cylinders

Cylinders according burglary resistance class 2-star and 3-star will give the results mentioned in the table. At the moment a key is removed from a cylinder the cam protrudes outside the cylinder.

### Mechanical cylinders

Performance	2-star	3-star
	**	***
NEN 5089 Permutation not reducible from extreme position of retainers	yes	yes
NEN 5089 Minimum number of effective retainers when completely compressed	≥ 3	≥ 3
Resistance against manipulation, points according table 7 of NEN 5089	≥ 20	≥ 30
EN 1303 (digit 1) Category of use	1	
EN 1303 (digit 2) Durability	6	
EN 1303 (digit 3) Doormass	0	
EN 1303 (digit 4) Suitability for use on fire/smoke doors	-	
EN 1303 (digit 5) Safety	0	
EN 1303 (digit 6) Corrosion resistance and temperature	A	
EN 1303 (digit 7) Key related security	4	6
EN 1303 (digit 8) Security	A <sup>a)</sup>	D
<sup>a)</sup> Resistance to attack by plug / cylinder extraction ≥ 7 kN (according to NEN 5089)		

### Electromechanical cylinders

Prestatie	2-ster (* *)	3-ster (* * *)
EN 15684 (digit 1) Category of use	-	
EN 15684 (digit 2) Durability	6	
EN 15684 (digit 3) Suitability for use on fire/smoke doors	-	
EN 15684 (digit 4) Corrosion resistance and temperature	3	
EN 15684 (digit 5) Mechanical key related security	E (A)	F (A)
EN 15684 (digit 6) Electronical key related security	C	D
EN 15684 (digit 7) System management	-	
EN 15684 (digit 8) Security	1 <sup>a)</sup>	2
<sup>a)</sup> Resistance to attack by plug / cylinder extraction ≥ 7 kN (according to NEN 5089)		

## 3.5 Furniture

Furniture according burglary resistance class 2-star and 3-star will give the results mentioned in the table. In the instruction sheet there is an indication for which thickness of doorblade the furniture is intended, the thickness of the furniture itself and the provision that a cylinder should never protrude more than 3 mm outside the shield or rose.

Performance	2-star	3-star
	**	***
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, independent	5, independent
NEN 5089 The dimensions of the hole for the cylinder is maximum 1 mm more than the nominal dimension of the cylinder.	Yes	
EN 1906 (digit 1) Category of use	-	
EN 1906 (digit 2) Durability	6	
EN 1906 (digit 3) Doormass	-	
EN 1906 (digit 4) Suitability for use on fire/smoke doors	-	
EN 1906 (digit 5) Safety	-	
EN 1906 (digit 6) Corrosion resistance	4 / 2	
EN 1906 (digit 7) Security	1 <sup>a)</sup>	
EN 1906 (digit 8) Type of operation	-	
<sup>a)</sup> If furniture is provided with a protection against cylinder extraction it satisfies the requirements of A.2.2.5, grade 3		

## 3.6 Hinges (set)

A hinge set according burglary resistance class 2-star and 3-star will give the results mentioned in the table. In the manual test, as mentioned in the table, the hinges have been tested as a set, and are therefore certified as a set.

Performance	2-star	3-star
	**	***
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, independent	5, independent
EN 1935 (digit 1) Category of use	1	
EN 1935 (digit 2) Durability	-	
EN 1935 (digit 3) Doormass	1	
EN 1935 (digit 4) Suitability for use on fire/smoke doors	-	
EN 1935 (digit 5) Safety	1	
EN 1935 (digit 6) Corrosion resistance	-	
EN 1935 (digit 7) Security	1	
EN 1935 (digit 8) Hinge grade	3	

### 3.7 Seam protectors and barriers

Seam protectors and barriers according burglary resistance class 1-star, 2-star, and 3-star will perform as indicated in the table.

#### Seam protectors

Performance	1-star
	*
NEN-EN 1670 Corrosion resistance	grade 3
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, not independent

#### Barriers

Performance	2-star	3-star
	**	***
NEN-EN 1670 Corrosions resistance	grade 3	
NEN 5089 Burglary resistance (manual test, resistant time in min.)	3, independent	5, independent

### 3.8 Padlocks

Padlocks complying with burglar resistance class 1-star, 2-star or 3-star will give the results mentioned in the table. In addition to the requirements from the European standard given in the table, requirements have been included that are imposed for (pad)locks intended for the protection of two-wheeled vehicles from theft. These requirements have been drawn up by the Dutch ART foundation.

Performance	1-star	2-star	3-star
	*	**	***
EN 12320 (digit 1) Category of use	-		
EN 12320 (digit 2) Durability	-		
EN 12320 (digit 3) Doormass	-		
EN 12320 (digit 4) Firesafety	-		
EN 12320 (digit 5) Safety	-		
EN 12320 (digit 6) Corrosions resistance + ART. functionality	3 / 2,5 Nm		
EN 12320 (digit 7) Security+ ART. manual test	3	4 <sup>a)</sup>	5 <sup>b)</sup> of 6 <sup>c)</sup>
ART. Functionality after climate test	-	-20°C	
ART. Keycode at the key	not allowed		
ART. Durability (manufacturer declaration)	5000 cycli		
<sup>a)</sup> ART. Cutting-force 55 kN / Manual test for 3 minutes with tool-set: A, B en C			
<sup>b)</sup> ART. Cutting-force 80 kN / Manual test for 3 minutes with tool-set: A 1/2 F			
<sup>c)</sup> ART. Manual test for 3 minutes with tool-set: A 1/2 F			

### 4. INSTRUCTION MANUAL

The building-hardware has to be supplied with a clear instruction-manual in Dutch. The manual describes or contains, where applicable, the following information:

- a complete set of (standard) mounting-details;
- the dimensions of any recesses into which the hardware has to fit;
- an itemized list of all fastenings required;
- drill-template with clear instructions;
- prerequisites the user should observe to achieve a fully burglarproof result, such as the combination with other products in case of composite assemblies;
- maintenance instructions, specifying the products required;
- any limitations regarding validity or applicability, for example non-lockable products;
- instructions for proper use (e.g. electronic locks, or Multi-turn locks, snibs, etc.);
- anything else that may be required for correct assembly and maintenance.

Examples:

- do not drill through the lock whilst installing protective plates;
- remove woodchips before installing the lock;
- apply primer or paint inside the lock-recess

Products meant for the DIYmarket should have a complete instruction manual each.

Products meant for the professional market can be supplied with just one manual for a specific buyer.

### 5. HINTS FOR THE CLIENT

Upon delivery of building hardware covered by this approval-with-product certificate please verify that:

- the products supplied match those specified in the order;
- the products carry the indelible brand name and SKG classification;
- the products satisfy the specifications and conditions for the application as mentioned in this approval-with-product certificate;
- the products have no visible damage due to transport

If any of these demands have not been met, please contact the approval-with-product certificate holder or if necessary SKG-IKOB.

Check whether this approval-with-product certificate is still valid on: [www.skgikob.nl](http://www.skgikob.nl).

If a European harmonized technical specification applies for a construction product, the statements in this approval-with-product certificate cannot be used to replace the CE marking on the construction product and/ or replace the relevant mandatory declaration of performance.

This document is a translation of the Dutch text. The original Dutch text is binding.

