

NEN 5089



Revision of the star-rating

You are indubitably familiar with the SKG-stars visible on burglar resistance hardware. The number of stars is an indication of how burglar resistant the material is. All hardware is tested according to NEN 5089.

As of September 2009 a new version applies with a change in the star-rating.

The star-rating has been changed in such a way that there is a logical relation between the number of stars and the degree of burglar resistance. This makes the application of hardware with stars more logical, both in new homes and during renovation.



The changes

SKG certifies hardware based on BRL 3104, which refers to NEN 5089 where it comes to methods and ratings. The changes in NEN 5089 means all products have been re-classed. The new ratings apply as of march 1st 2010. This means that hardware suitable for doors and windows with burglar resistance class 2 will now get SKG**®. Hardware for burglar resistance class 3 will now get SKG***®. In a lot of cases this means products will get an extra star. Products which – on their own – do not make a door or window sufficiently burglar resistant remain in the SKG*® class. This applies for example to lockable window-bolts, since it usually takes two of these to achieve the required result. These changes in the number of stars do not affect the quality of the hardware, products with the old rating can still be used within the existing security-guidelines. The ratings-symbol as applied to products doesn't change shape. The changes in the number of stars per product type are specified next page. Theoretically this means that with products rated SKG**® one can produce facade-elements that satisfy burglar resistance class 2. And with products rated SKG***® one can produce doors and windows that satisfy burglar resistance class 3. Burglar resistance however is not solely determined by hardware. The door/window and its frame have to be up to the task as well. This is tested according to NEN 5096, burglar resistance of roof/facade elements (equivalent to European ENV 1627-1630).

Existing buildings

To secure doors and windows in existing buildings one has to apply the security-directive. This means that with hardware rated SKG*® or SKG**® a burglar resistance of 3 minutes is feasible. With hardware rated SKG***® a burglar resistance of 5 minutes can be achieved. The website www.skg.nl features an up to date list of all certified hardware with both the old and the new rating, see also www.sterrenwijzer.nl

New buildings

In new buildings one has to be able to demonstrate the burglar resistance of doors and windows with an attest by SKG or SHR. In this test doors, windows as well as their fastenings are tested. Hardware is interchangeable with functionally identical products provided they have the same star-rating.

Building specifications, new buildings

First and foremost is the demand for burglar resistance of the complete facade element. As a secondary requirement the individual components may need to be certified too, i.e. durable and of a quality at least equal to the grade tested. This can be achieved if the building specifications include the following lines:

- The facade elements have to satisfy NEN 5096 class 2 (or 3)
- The hardware has to satisfy BRL 3104 (SKG-stars)



hardware	burglar resistant facade element	NEN 5096 test
SKG*® not independently	class 2	3 minutes, toolset A
SKG**® independently	class 2	3 minutes, toolset A
SKG***® independently	class 3	5 minutes, toolset B

only if the facade element satisfies

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Changes to the number of stars awarded to hardware as of 1st of March 2010

product	was	becomes	remarks
single lock	★	★	limited application, see manual and/or security directive
	★★	★★	
	★★★	★★	
		★★★	as yet none available
multipoint lock, hooked bolt	★	★★	if and only if tested on reference element
	★★	★★★	
multipoint lock, dead bolt	★	★★	if and only if tested on reference element
	★★	★★(*)	
single window bolts	★	★	1 star, tested as a set of two 2 or 3 stars, if tested independently as yet none available
		★★	
		★★★	
multipoint locking (exp. tilt and turn furniture)	★	★★	if and only if tested on a reference element
	★★	★★★	
security lock furniture	★	★★	class 1 star ceases to exist
	★★	★★★	
	★★★	★★★	
cylinders	★		class 1 star ceases to exist
	★★	★★	
	★★★	★★★	
hinges	★	★★	if judged as a set (where appropriate) on reference element
	★★	★★★	

- For Borg and pkvw information please refer to the website www.hetccv.nl of the Centre of Crime prevention and security in Utrecht .
- For information regarding NBR please refer to the website www.hetbeveiligingscentrum.nl of the Centre for Security and Safety in Wageningen.
- To see all certified hardware please refer to the “star-index” (sterrenwijzer) on www.skg.nl.
- The skg logos do not change



- Products with the old rating are of equal quality and remain valid
- The skg logos can be found at our website www.skg.nl under downloads, click on floppy symbol.