

DECLARATION OF PERFORMANCE

No. 0004BauPVo 2013-07-14

1. Unique identification Code of the product type:
Single-axis hinges according to EN 1935-2002
2. Identification of the construction product, in accordance with article 11(4):
Two-Piece Door Hinge With Five Knuckle Design (Product listing see Annex)

CE-Classification

see section 9. Declared performance and product listing

4	7	6	1	1	0*)	0**)	0***)
Category of use	Durability Grade	Test Door Mass	Fire/Smoke Suitability	Safety	Corrosion Resistance	Security	Hinge Grade

*) Class 1-4 depending on the material and surface, see section 9 and Annex A

**) Class 1 with optional locking pin "NRP"

***) see section 9 and product listing

3. For use on Doors and Windows
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)
Breuer & Schmitz GmbH & Co.KG
Monhofer Straße 1
42697 Solingen
GERMANY
5. Name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)
See section 4
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V
System 1
7. The notified factory production control certification body SKH under EG-reference-No. 0502 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.
8. European Technical Assessment:
not applicable (see section 7)

9 . Declared performance:

Harmonised technical specification EN 1935:2002

Essential characteristics	Grade	Capability	
5.1 Initial friction torque measurements	Grade 1-7 Grade 8-11 Grade 12-14	maximum 2 Nm maximum 3Nm maximum 4Nm	
5.2 Static load 5.2.1 Load deformation	all Grades	Lateral deformation under load <2mm. Vertical deformation <4mm. Neither lateral nor vertical displacement exceeds to discharge the following values. Laterally <0.6mm; vertical <0.3mm Neither a material fraction still cracking is detected at normal or corrected visual examination	
5.2.2 Overload	all Grades	There are no breaks, cracks or deformation on hinge flaps, door hinges, connectors or pins, neither in normal nor in corrected visual examination detected The testing component has remained connected in during the test with the frame.	
5.3 Durability/ Shear strength	all Grades	There are no breaks, cracks or deformation on hinge flaps, door hinges, bushes or pins identifiable and the lateral deformation is not more than 3mm. After the check the additional vertical and lateral movements do not cross the measure of 1 mm. No breaks appear after 20 test cycles in hinge wings, hinges or pins.	
5.6 Hinges for use on fire-resistant and/or smoke-control doors	Grade 0	Not suitable	fire resistance
	Grade 1	Suitable for use on fire-resistant and / or smoke-control doors	
5.4 Durability	Grade 3	10000 test cycles	Cycles in continuous operation
	Grade 4	25000 test cycles	
	Grade 7	200000 test cycles	
5.8 Families of hinges with common design features	all Grades	These hinges have no deviation in the design nor in the materials used compared to the test pieces	
5.5 Corrosion resistance	Grade 0	no defined corrosion resistance	Corrosion resistance
	Grade 1	low corrosion resistance (24 hours)	
	Grade 2	moderate corrosion resistance (48 hours)	
	Grade 3	high corrosion resistance (96 hours)	
	Grade 4	very high corrosion resistance (240 hours)	
	Grade 5	exceptionally high corrosion resistance (480 hours)	
Dangerous substances	all Grades	The materials used in this product contain no hazardous materials. Furthermore they do not emit more of such materials to the environment than in any European standard or regulation.	

Additional features see Annex B

10. The performance of the product identified in section 1 and 2 is in conformity with the declared performance in section 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in section 4.

Signed for and on behalf of the manufacturer by:

Patrick Müller, managing Director

(Name of the signatory and function in the company)

Solingen, d. 11.05.2020

BREUER & SCHMITZ
GmbH & Co. KG

Postfach 110000 Solingen
Lieferanten- und Kunden-Service
Telefon: 0212 22 22 22

Annex:

Article listing to DoP

No. 0004BauPVo 2013-07-14

CE classification

see section 9. Declared performance

(V) (RD) BB 802 76 x 76
89 x 89
102 x 102
102 x 89
102 x 76
114 x 102
114 x 114
127 x 102
127 x 114
127 x 127

1	4	3	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	9
2	7	3	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	10
3	7	4	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	11
3	7	4	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	11
3	7	4	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	11
4	7	5	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	12
4	7	5	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	12
4	7	5	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13

*) Class 0 for Material Brass

**) Class 1 - 4 each on the material and surface, see section 9 and Annex A

***) Class 1 for version "V" burglar test SKG ** or with optional locking pin "NRP"

(V) (RD) BB 803 89 x 89
(V) (RD) BB 1817 89 x 80
(V) (RD) BB 1818 89 x 89
89 x 127
89 x 152

3	7	4	1	1	0 ^{*)}	0 ^{**)}	11
3	7	4	1	1	0 ^{*)}	0 ^{**)}	11
3	7	4	1	1	0 ^{*)}	0 ^{**)}	11
2	7	3	1	1	0 ^{*)}	0 ^{**)}	10
2	4	2	1	1	0 ^{*)}	0 ^{**)}	7

*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

**) Class 1 for version "V" burglar test SKG ** or with optional locking pin "NRP"

(V) (RD) BB 1819 114 x 89
114 x 127
114 x 152
(Art. 002-189) 102 x 89
(Art. 002-188)
(Art. 002-187)

4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
3	7	4	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	11
3	7	4	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	11
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	1	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13

*) Class 0 for Material Brass

**) Class 1 - 4 each on the material and surface, see section 9 and Annex A

***) Class 1 for version "V" burglar test SKG ** or with optional locking pin "NRP"

(V) (RD) BB 01179 89 x 89
 102 x 102
 102 x 89
 102 x 76
 114 x 84
 114 x 102
 114 x 114
 V 002-161 102 x 93
 002-191 102 x 93
 002-187
 (Art. 002-99)

3	7	4	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	11
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	1	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13
4	7	6	1 ^{*)}	1	0 ^{**)}	0 ^{***)}	13

*) Class 0 for Material Brass

**) Class 1 - 4 each on the material and surface, see section 9 and Annex A

***) Class 1 for version "V" burglar test SKG ** or with optional locking pin "NRP"

(V) (RD) 1803 89 x 89
 (V) (RD) 1817 89 x 80
 (V) (RD) 1818 89 x 89
 (V) (RD) 1819 102 x 89

2	7	3	1	1	0 ^{*)}	0 ^{**)}	10
1	4	3	1	1	0 ^{*)}	0 ^{**)}	9
1	4	3	1	1	0 ^{*)}	0 ^{**)}	9
2	7	3	1	1	0 ^{*)}	0 ^{**))}	10

*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

**) Class 1 for version "V" burglar test SKG **

***) Class 0 for Material Brass

(V) (RD) 1804 76 x 79
 89 x 89
 (RD) 1804 102 x 102
 64 x 64

1	4	2	1	1	0 ^{*)}	0 ^{**))}	6
1	4	3	1	1	0 ^{*)}	0 ^{**))}	9
1	4	2	1 ^{***)}	1	0 ^{*)}	0	6
1	4	1	1 ^{***)}	1	0 ^{*)}	0	3

*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

**) Class 1 for version "V" burglar test SKG **

***) Class 0 for Material Brass

002-85
 002-96
 002-147
 002-97
 002-92
 002-145
 002-95 102 x 76
 102 x 102

4	7	6	1	1	0 ^{*)}	0 ^{**))}	13
4	7	6	1	1	0 ^{*)}	0 ^{**))}	13
4	7	6	1	1	0 ^{*)}	0 ^{**))}	13
2	7	3	1	1	0 ^{*)}	0 ^{**))}	10
2	7	3	1	1	0 ^{*)}	0 ^{**))}	10
2	7	3	1	1	0 ^{*)}	0 ^{**))}	10
3	7	4	1	1	0 ^{*)}	0 ^{**))}	11
3	7	4	1	1	0 ^{*)}	0 ^{**))}	11

*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

**) Class 1 for optional locking pin "NRP"

(V) JS 803 89 x 89

3	7	4	1	1	0 ^{*)}	0 ^{**))}	11
---	---	---	---	---	-----------------	--------------------	----

*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

**) Class 1 for optional locking pin "NRP"

Annex A

Corrosion resistance of surfaces in accordance
with DIN EN 1670

Surface	Designation	Class
Stainless Steel AISI 316	STX	5
Stainless Steel AISI 304	STD, ST	4
Powdercoated	WE, BL, GV-K	4
Accoya-coating	GVC-R	4
White Zinc Plated	GV, GV-R	3
Yellow Zinc Plated	GVG, GVG-MS	3
Zinc Plated Colour Alu F1	GV-F1	3
Polished Brass	S	2
Brassed Polished	WF	2
Gold Plated	GFG	2
Chrome polished	CMP	2
Chrome mat	CMD	1
Nickel Plated	ND	1

Classification

Class 1	24h	salt spray test
Class 2	48h	salt spray test
Class 3	96h	salt spray test
Class 4	240h	salt spray test
Class 5	480h	salt spray test

Unlisted surface finishes do not serve the corrosion protection,
they serve only optical aspects.

checked by: SHR Hout Research

report No. 3357-K1 vom 18. januar 2004

Annex B

Harmonised technical specification EN 1935:2002

Additional features	Grade	Capability				
Usage	Grade 1	<u>Light duty</u> : Hinges for use on doors or windows in housing or other living areas and in buildings where there is a low frequency of use. (nonpublic access).			Category of use	
	Grade 2	<u>Medium duty</u> : Hinges for use on doors in housing or other living areas and in other buildings where there is a medium frequency of use. (limited public access).				
	Grade 3	<u>Heavy duty</u> : Hinges for use on doors in buildings where there is a high frequency of use. (public access).				
	Grade 4	<u>Severe duty</u> : Hinges for use on doors where extreme levels of use and misuse are anticipated. (public access points to the likelihood of abuse).				
Test door maas & Hinge grade	Grade 0	max. 10 Kg	Test door maas		Grade 1	Hinge grade
	Grade 1	max. 20 Kg			Grade2	
	Grade 1	max. 20 Kg			Grade 3	
	Grade 1	max. 20 Kg			Grade 4	
	Grade 2	max. 40 Kg			Grade 5	
	Grade 2	max. 40 Kg			Grade 6	
	Grade 2	max. 40 Kg			Grade 7	
	Grade 3	max. 60 Kg			Grade 8	
	Grade 3	max. 60 Kg			Grade 9	
	Grade 3	max. 60 Kg			Grade 10	
	Grade 4	max. 80 Kg			Grade 11	
	Grade 5	max. 100 Kg			Grade 12	
	Grade 6	max. 120 Kg			Grade 13	
	Grade 7	max. 160 Kg			Grade 14	
4.6 Safety	Grade 1				Safety	
4.8 Security	Grade 0	Not suitable to burglar-proof doors.			Security	
	Grade 1	Following evaluation of the suitability for burglary, suited to each intrusion-resistant doors.				