

DECLARATION OF PERFORMANCE

No. 0001BauPVo 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):
Project Hinge - Series 050 /055 /060 /062 /070 /090 (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 Maas	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
Locher Straße 25
42719 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 10 00 30 Solingen
Löhner Str. 20 41074 Solingen
Tel. 0212 200 000 Fax 0212 200 010

Annex:

Article listing to DoP

No. 0001BauPVo 2013-07-14

Project Hinge Series 050 Hinge height 100 mm

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	6	1	1	0*)	0**)	13
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated 050-21/100

flush doors 050-7/100
050-22/100

Project Hinge Series 060 Hinge height 100 mm

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	6	1	1	0*)	0**)	13
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated 060-0/100DF
060-1/100
060-16/100
060-16/100 DF
060-21/100
060-21/100 DF
060-220/100
060-239/100
060-239/100 DF
060-24/100
060-244/100
060-366/100
060-4/100
060-45/100
060-5/100
060-5/100 DF
060-75/100
060-77/100
060-79/100
060-8/100
060-9/100
060-9/100 DF

flush doors 060-10/100
060-176/100
060-18/100
060-211/100
060-22/100
060-229/100
060-23/100
060-240/100
060-243/100
060-25/100
060-266/100
060-3/100
060-46/100
060-7/100
060-70/100
060-76/100
060-78/100
060-80/100

Project Hinge Series 090 Hinge height 100 mm

4 mm material thickness

CE classification

see section 9. Declared performance

4	7	7	1	1	0 ^{*)}	0 ^{**)}	14
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*)Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

flush doors NRP 090-526/100

Project Hinge Series 060 Hinge height 120 mm

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	6	1	1	0 ^{*)}	0 ^{**)}	13
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*)Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated	060-1/120	flush doors	060-10/120
	060-1/120 DF		060-22/120
	060-21/120		060-23/120
	060-21/120 DF		060-240/120
	060-239/120		060-243/120
	060-239/120 DF		060-25/120
	060-24/120		060-257/120
	060-244/120		060-273/120
	060-4/120		060-3/120
	060-5/120		060-7/120
	060-5/120 DF		070-10/120
	060-8/120		070-22/120
	060-9/120		070-23/120
	060-9/120 DF		070-240/120
	070-1/120		070-243/120
	070-1/120 DF		070-257/120
	070-21/120		070-3/120
	070-21/120 DF		070-7/120
	070-239/120		
	070-239/120 DF		
	070-24/120		
	070-244/120		
	070-4/120		
	070-5/120		
	070-5/120 DF		
	070-8/120		
	070-9/120		
	070-9/120 DF		

Project Hinge Series 050 Hinge height 160 mm

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	7	1	1	0*)	0**)	13
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated 050-21/160

flush doors 050-7/160

050-22/160

Project Hinge Series 055 Hinge height 160 mm

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	6	1	1	4*)	1	13
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

rebated 055-21/160

flush doors 055-25/160

055-21/160DF

Project Hinge Series 060 Hinge height 160 mm

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	7	1	1	0*)	0**)	14
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated 060-1/160

flush doors 060-14/160

060-1/160DF

060-17/160

060-13/160

060-22/160

060-13/160DF

060-224/160

060-15/160

060-23/160

060-15/160DF

060-240/160

060-19/160

060-243/160

060-20/160

060-249/160

060-21/160

060-25/160

060-21/160DF

060-267/160

060-239/160

060-268/160

060-239/160 DF

060-270/160

060-24/160

060-274/160

060-244/160

060-275/160

060-258/160

060-3/160

060-264/160

060-42/160

060-267/160

060-43/160

060-30/160

060-7/160

060-30/160 DF

060-70/160

060-4/160	070-14/160
060-40/160	070-17/160
060-41/160	070-22/160
060-41/160DF	070-23/160
060-5/160	070-240/160
060-5/160DF	070-243/160
060-8/160	070-268/160
070-1/160	070-3/160
070-1/160DF	070-42/160
070-13/160	070-43/160
070-13/160DF	070-7/160
070-15/160	
070-15/160DF	
070-19/160	
070-20/160	
070-21/160	
070-21/160DF	
070-239/160	
070-239/160 DF	
070-24/160	
070-244/160	
070-258/160	
070-264/160	
070-267/160	
070-30/160	
070-30/160 DF	
070-4/160	
070-40/160	
070-41/160	
070-41/160DF	
070-5/160	
070-5/160DF	
070-8/160	

3D-Replacement project hinge for blind rivet nuts M10

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	6	1	1	0*)	0**)	13
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated 060-71/160
 060-73/160

flush doors 060-72/160
 060-74/160

Hinge system VZXtra wood

3 mm material thickness

CE classification

see section 9. Declared performance

4	7	6	1	1	0*)	0**)	13
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated 060-245/160
060-246/160
060-247/160

flush doors 060-248/160

Project Hinge Series 090 Hinge height 160 mm

4 mm material thickness

CE classification

see section 9. Declared performance

4	7	7	1	1	0 ¹⁾	0 ²⁾	14
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

rebated 090-710/160
090-710/160 DF
090-745/160
090-749/160
090-745/160 DF
090-748/160

flush doors 090-272/160
090-7/160
090-712/160
090-717/160
090-721/160
090-747/160
090-750/160

Frame constructions system VX

CE classification

see section 9. Declared performance

4	7	7	1	1	0 ¹⁾	0 ²⁾	12
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

flush doors 090-840/160
090-845/160
090-850/160

Project Hinge Series 060 Hinge height 160 mm

for glass doors

CE classification

see section 9. Declared performance

4	7	6	1	1	0 ^{*)}	0 ^{**)}	13
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

for deep rebate: 060-165/160

Project Hinge Series 060 Hinge height 120 mm

for glass doors

CE classification

see section 9. Declared performance

4	7	5	1	1	0 ^{*)}	0	12
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

for deep rebate: 060-50/120 **for Standard rebate :** 060-51/120
 060-54/120 060-55/120
 060-57/120 060-57/120

independently rebate: 060-62/120

Project Hinge Series 060 Hinge height 100 mm

for glass doors

CE classification

see section 9. Declared performance

3	7	4	1	1	0 ^{*)}	0	11
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*) Class 1 - 4 each on the material and surface, see section 9 and Annex A

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

for deep rebate: 060-255/100 **for Standard rebate :** 060-50/100
 060-50/100 060-51/100
 060-54/100 060-55/100
 060-61/100 060-57/100
 060-64/100 060-59/100
 060-66/100 060-60/100

independently rebate: 060-62/100

For Doors with Glass elements

060-63/100

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 Grade 1 Grade 1 Grade 1 Grade 2 Grade 2 Grade 2 Grade 2 Grade 3 Grade 3 Grade 3 Grade 4 Grade 5 Grade 6 Grade 7	max. 10 Kg max. 20 Kg max. 20 Kg max. 20 Kg max. 40 Kg max. 40 Kg max. 40 Kg max. 40 Kg max. 60 Kg max. 60 Kg max. 60 Kg max. 80 Kg max. 100 Kg max. 120 Kg max. 160 Kg	Test door maas	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 Grade 7 Grade 8 Grade 9 Grade 10 Grade 11 Grade 12 Grade 13 Grade 14	Hinge grade
4.6 Safety	Grade 1				Safety
4.8 Security	Grade 0 Grade 1	Not suitable to burglar-proof doors. Following evaluation of the suitability for burglary, suited to each intrusion-resistant doors.			Security