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TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use MES1763710C00TRF Rev.01 Report No.: 27.08.2021 Date of issue: Project handler: Fabio Murgia Testing laboratory: TÜV Italia Address: Via Brandizzo 123 – 10088 Volpiano (TO) Testing location: as above PROVEX INDUSTRIE S.r.l. Client: Client number: 16804 Address: Zona Industriale 10 - 39031 - BRUNICO Contact person: Oswald Fischnaller Standard: This TUV SUD test report form is based on the following requirements: PPP 52018C:2019 TRF number and revision: TRF PPP 52018C:2018 rev.0:2018 TUV SUD Product Service, Mr.Maurizio Leone (product specialist) TRF originated by: This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. Copyright blank test report: TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in General disclaimer: question and is not generally applicable evaluation of the quality of other products in regular production. ☐ TUV Mark Scheme: GS Mark NRTL Mark ☐ EU-Directive Non-standard test method: ☐ No Yes, see details under Summary of testing National deviations: Number of pages (Report): Number of pages (Attachments): John Hays Compiled by: Fabio Murgia (Printed Name and Signature) Approved by: Andrea Rotundo Indrea RoTundo (Printed Name and Signature)



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Test sample:	Serie 200.
Type of test object:	Sanitary Items
Trademark:	
Model and/or type reference:	0040SG**, 0041SG**, 0042SG**,0043SG**,0142SG**, 0242SG**, 0045SG**, 0046SG**,0047SG**,0048SG**, 0147SG, 0247SG**, 2345SG**, 2346SG**, 2347SG**, 2445SG**, 2446SG**, 2447SG**
Rating(s):	
Manufacturer:	PROVEX INDUSTRIE S.r.I.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
	□ Complete test according to TRF
	Partial test according to manufacturer's specifications
Order description:	☐ Preliminary test
	☐ Spot check
	Others:
Date of order:	16.07.2021
Date of receipt of test item:	24.08.2021
Date(s) of performance of test:	From 27.08.2021 to 02.09.2021
Test item particulars:	
Wall mount grip	
Purpose of the product (Description	on of intended use):
Sanitary Items	
Characteristic data (not shown on the	ne marking plate):



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0046SG**: Load Capacity: 100 kg
0041SG**: Load Capacity: 100 kg
0147SG**: Load Capacity: 100 kg
0142SG**: Load Capacity: 100 kg
2347SG**: Load Capacity: 100 kg
Attachments:
Our and a second as
General remarks:
"(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report.
Throughout this report a comma is used as the decimal separator. The test results presented in this report relate only to the object tested.
This report shall not be reproduced except in full without the written approval of the testing laboratory.
Summary of testing:
deviation(s) found
□ no deviations found □
Additional Colombia Comment on the Management of
Additional information on Non-standard test method(s)
Sub clause:
Page:
Rational:
If additional information is necessary places provide
If additional information is necessary, please provide
Copy of marking plate:
copy of marking place.
Picture of the product:



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Name and address of factory (ies) (only if certification is provided):

PROVEX INDUSTRIE S.r.I.

Zona Industriale 10

39031 BRUNICO

Possible test case verdicts:

test case does not apply to the test object: N/A (not applicable / not included in the order)

test object does meet the requirement: P (Pass) test object does not meet the requirement: F (Fail)

Possible suffixes to the verdicts:

suffix for detailed information for the client: C (Comment) suffix for important information for factory M (Manufacturing)

inspection:



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Clause	Requirement + Test	result – Remark	/erdict
1	Scope This test program includes safety requirements for s It does not apply to sanitary handles in the field of re people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware is included, these shall be reviewed and meet the requirements. The limited area of these hardware must also be obvious to the consumer.	Satisfied requirement	Р
3	Safety of moving parts		
3.1	(ISO 17966:2016 clause 23.9.2) Safety folding grips which are adjustable or can be moved from one position into another, must have devices for safe attachment in each intended operating position (e.g.: safety folding grips have to be secured against unintentional folding up /	The foldable safety handles, which can be adjusted or moved, have devices for secure attachment.	Р
3.2	folding down,). (EN 581-1:2017 clause 3.2) Shear and squeeze points exist if the distance between two accessible parts moving relative to each other can be more or equal than 7 mm and less or equal than 18 mm in any position during movement		N/A
3.3	(EN 581-1:2017 clause 5.2) Tubular components There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.		N/A
3.4	(EN 581-1:2017 clause 5.3.1) Shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	Satisfied requirement	P



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Clause	Requirement + Test	result – Remark	Verdict
4	Static forces Position the product in the least favorable position of i	ntended use if not described.	
4.1	Static strength by safety grip systems (ISO 17966:2016 clause 23.7.3.1) The wall-fastened handrail is loaded (F ₁) vertically wit load for at least 60s in the most adverse position and horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including addit where applicable)	then	
4.1.1	After performing the test following requirements have fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function		N/A



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Clause	Requirement + Test	result – Rem	nark	Verdict
4.2	(ISO 17966:2016 clause 23.9.3) Support arms / folding grips are loaded (F ₁) in a poir 5 mm from the front edge with an angle of 15° \pm 2° c and downwards for at least 60s with a load calculate following formula: $F = \frac{md \times 9.81 \times 1.5}{2 \times cos15^{\circ}}$ md is max. user mass The max. test force is limited to 950 N.	outwards ed with the	F: 762.4 N	P
4.2.1	After performing the test following requirements hav fulfilled: • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function	e to be	After test no visible cracks, no loose connections, all adjustable parts function as intend no deformations of gap, disturbing the function.	led,



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Clause	Requirement + Tes	st		result – Remark	Ve	erdict
5	Fatigue strength (ISO 17966:2016	by safety grip syster clause 23.7.3.2)	ns			
5.1	with 40% of the ter F = md x 9,81 md is max. user Frequency: 30 cyc	les/min.) shall be calculated a tDL	n the followin	ng formula:		N/A
	Activity type	Home care				
	Toilet activity	5				
	Shower/bath activity	2				
	tDL = 10 (designed	d life time, in years)				
5.1.1	fulfilled: no breaks andno loose conneall adjustable p	ne test following requirence to visible cracks ections earts function as intended or gap, disturbing the	ded	e to be		N/A



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Clause	Requirement + Tes	t	result – Remark	Ve	erdict
5.2	mm ± 10 mm from outward with 40 % formula: md is max. user in The max. test force Frequency: 30 cycl The test cycle (TC) formula.	ing grips are loaded (F ₁) the front edge under an a with a test force calculate $F = \frac{md \times 9,81}{2 \times \cos 15^{\circ}}$ hass a is limited to 635 N. es/min. shall be calculated according to the shall be calculated to the shall be calculated according to the shall be calculat	angle of 15° ± 2° ed with the following	F:203.2 N	P
	TC = uTD × 365 × with: uTD typical uses p				
	Activity type	Home care			
	Toilet activity	5			
	Shower/bath activity	2			
	tDL = 10 (designed	50 ±5			
5.2.1	no breaks and in no loose conneall adjustable por	e test following requirement no visible cracks ctions arts function as intended s or gap, disturbing the fu		After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P



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Clause	Requirement + Test	result -	Remark	Verdict
6	Grips for fastening on the bath tube:		Wall mounted grip	N/A
	 The handles have to withstand a force of 500 N with visible permanent deformation or other demages. The force is to be applied horizontally in the direction in the middle of the handle for (5 ± 1) min (see pin 1). The force is to be applied vertical down in the direction in the middle of the handle for (5 ± 1) min (see 1). 	etion A cture ection		
	Picture 1			
7	Materials			
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shal suitable for their intended purpose and resistant to corrosion.	l be		Р
7.2	Corrosion test			
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, who example, the test object does not display any surface changes indicating damage following a salt spray test performed in accordance with EN ISO 9227 (test procedure NSS, test duration 120 h).			P
7.2.2	Assessment level 8 pursuant to EN ISO 10289.			Р
7.3	Plastic (EK5/TAK3 16-01:2016 Punkt 4.3.2) Plastics are regarded as corrosion-resistant. However, resistance to ageing and UV shall be verif datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a dat shall be obtained for each manufacturer.			P



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Requirement + Test	result – Remark	Verdict
Design		
Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corner edges.	·	t P
Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall displaedge radius of > 2 mm or they shall be bevelled.	·	t P
Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either roor bevelled.	·	t P
Marking		
	·	t P
(EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be of legible and durable. Compliance is checked by inspection and by rubit marking by hand for 15 s with a piece of cloth so with water and again for 15 s with a piece of cloth with petroleum spirit. After all the tests of this standard marking shall be clearly legible. It shall not be eat possible to remove marking plates nor shall they curling. NOTE 1 In considering the durability of the markit effect of normal use is taken into account. For exmarking by means of paint or enamel, other than enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the tealiphatic solvent hexane having a maximum arom	clearly ping the aked in soaked in	t P
	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corner edges. Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall displatedge radius of > 2 mm or they shall be bevelled. Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either roor bevelled. Marking - The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid parts and either roor bevelled. Max.loading capacity Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clegible and durable. Compliance is checked by inspection and by ruble marking by hand for 15 s with a piece of cloth so with water and again for 15 s with a piece of cloth with petroleum spirit. After all the tests of this standard marking shall be clearly legible. It shall not be early shall be clearly legible. It shall not be early outling. NOTE 1 In considering the durability of the marking shall be clearly legible. It shall not be early outling. NOTE 1 In considering the durability of the marking by means of paint or enamel, other than enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the tealiphatic solvent hexane having a maximum arom content of 0.1 % by volume, a kauri-butanol value.	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges. Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display an edge radius of > 2 mm or they shall be bevelled. Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either rounded or bevelled. Marking - The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plastic - Max.loading capacity Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clearly legible and durable. Compliance is checked by inspection and by rubbing the marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with petroleum spirit. After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they show curling. NOTE 1 In considering the durability of the marking, the effect of normal use is taken into account. For example, marking by means of paint or enamel, other than vitreous enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the test is aliphatic solvent hexane having a maximum aromatics content of 0.1 % by volume, a kauri-butanol value of 29, an initial boiling point of approximately 65 °C, a dry point



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Clause	Requirement + Test	result -	- Remark	V	erdict
10	User manual				
	The user manual shall contains at least the followin points: - name and address of the manufacturer or suppli - proper assembly and mounting hardware (requirements for at least one representative fixicase e.g. in concrete, brick, etc., and expertise in regular unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medicare (or analogous) - max.load capacity	er ng ard to	Satisfied requirement		P

End of test report



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TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use MES1763710B00TRF Rev.01 Report No.: 27.08.2021 Date of issue: Project handler: Fabio Murgia Testing laboratory: TÜV Italia Address: Via Brandizzo 123 – 10088 Volpiano (TO) Testing location: as above PROVEX INDUSTRIE S.r.l. Client: Client number: 16804 Address: Zona Industriale 10 - 39031 - BRUNICO Contact person: Oswald Fischnaller Standard: This TUV SUD test report form is based on the following requirements: PPP 52018C:2019 TRF number and revision: TRF PPP 52018C:2018 rev.0:2018 TUV SUD Product Service, Mr.Maurizio Leone (product specialist) TRF originated by: This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. Copyright blank test report: TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in General disclaimer: question and is not generally applicable evaluation of the quality of other products in regular production. ☐ TUV Mark Scheme: GS Mark NRTL Mark ☐ EU-Directive Non-standard test method: ☐ No Yes, see details under Summary of testing National deviations: Number of pages (Report): Number of pages (Attachments): John Hays Compiled by: Fabio Murgia (Printed Name and Signature) Approved by: Andrea Rotundo Indrea RoTundo (Printed Name and Signature)



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Test sample:	Series ANIMO/200.
Type of test object:	Sanitary Items (Wall mount grip)
Trademark:	
Model and/or type reference:	0270BG, 0271BG, 0272BG, 0273BG, 0274BG, 0275BG, 0276BG, 0277BG, 0278BG, 0280BG, 0281BG, 0282BG, 0283BG, 0284BG, 0285BG, 0286BG, 0001SG**, 0002SG**, 0003SG**, 0004SG**, 0005SG**, 0010SG**, 0011SG**, 0012SG**, 0015SG**, 0016SG**, 0017SG**, 0018SG**, 0020SG**, 0021SG**, 0025SG**, 0026SG**, 0030SG**, 0031SG**, 0050SG**, 0051SG**, 0055SG**, 0056SG**, 0057SG**, 0059SG**, 0060SG**, 0061SG**, 0062SG**, 0064SG**, 0065SG**, 0100SG**, 0105SG**, 0110SG**, 0075SG**, 0075SG**
Rating(s):	
Manufacturer:	PROVEX INDUSTRIE S.r.I.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
	☐ Complete test according to TRF
	Partial test according to manufacturer's specifications
Order description:	☐ Preliminary test
	☐ Spot check
	Others:
Date of order:	16.07.2021
Date of receipt of test item:	24.08.2021
Date(s) of performance of test:	From 27.08.2021 to 02.09.2021
Test item particulars:	
Wall mount grip	
Purpose of the product (Descripti	on of intended use):
Sanitary Items	
Characteristic data (not shown on	the marking plate):



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0003SG**: Load Capacity: 150 kg
005SG**: Load Capacity: 150 kg
0012SG**: Load Capacity: 150 kg
0018SG**: Load Capacity: 150 kg
0026SG**: Load Capacity: 150 kg
Attachments:
General remarks:
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.
The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.
This report shall not be reproduced except in full without the written approval of the testing laboratory.
Summery of testings
Summary of testing:
Summary or testing.
deviation(s) found
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Name and address of factory (ies) (only if certification is provided):

PROVEX INDUSTRIE S.r.I.

Zona Industriale 10

39031 BRUNICO

Possible test case verdicts:

test case does not apply to the test object: N/A (not applicable / not included in the order)

test object does meet the requirement: P (Pass) test object does not meet the requirement: F (Fail)

Possible suffixes to the verdicts:

suffix for detailed information for the client: C (Comment) suffix for important information for factory M (Manufacturing)

inspection:



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Clause	Requirement + Test	result – Remark V	'erdict
1	Scope This test program includes safety requirements for s It does not apply to sanitary handles in the field of re people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware is included, these shall be reviewed and meet the requirements. The limited area of these hardware must also be obvious to the consumer.	Satisfied requirement	Р
3	Safety of moving parts		
3.1	(ISO 17966:2016 clause 23.9.2) Safety folding grips which are adjustable or can be moved from one position into another, must have devices for safe attachment in each intended operating position (e.g.: safety folding grips have to be secured against unintentional folding up / folding down,).	The foldable safety handles, which can be adjusted or moved, have devices for secure attachment.	Р
3.2	(EN 581-1:2017 clause 3.2) Shear and squeeze points exist if the distance between two accessible parts moving relative to each other can be more or equal than 7 mm and less or equal than 18 mm in any position during movement		N/A
3.3	(EN 581-1:2017 clause 5.2) Tubular components There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.		N/A
3.4	(EN 581-1:2017 clause 5.3.1) Shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	Satisfied requirement	P



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Clause	Requirement + Test	result – Remark	Verdict
4	Static forces Position the product in the least favorable position of in	tended use if not described.	
4.1	Static strength by safety grip systems (ISO 17966:2016 clause 23.7.3.1) The wall-fastened handrail is loaded (F ₁) vertically with load for at least 60s in the most adverse position and the horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including addition where applicable)	nen	
4.1.1	After performing the test following requirements have to fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	Horizontal: 112,5	P kg



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Clause	Requirement + Test	result – Ren	nark	Ve	erdict
4.2	(ISO 17966:2016 clause 23.9.3) Support arms / folding grips are loaded (F ₁) in a poir 5 mm from the front edge with an angle of 15° \pm 2° c and downwards for at least 60s with a load calculate following formula: $F = \frac{md \times 9.81 \times 1.5}{2 \times cos15^{\circ}}$ md is max. user mass The max. test force is limited to 950 N.	outwards ed with the	Fixed grips Fixed grips		N/A
4.2.1	After performing the test following requirements have fulfilled: • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function	e to be	Fixed grips		N/A



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Clause	Requirement + Tes	t		result – Rer	nark	Ve	erdict
5	Fatigue strength I	oy safety grip syster lause 23.7.3.2)	ms				
5.1	with 40% of the test $F = md \times 9,81$ $md is max. user of the test Frequency: 30 \ cycle$	es/min. shall be calculated a	h the followir	ng formula:	Environmental conditions Room temperature 22 °C ± 2 °C Relative humidity 45 % ± 5 % Product designed public use uTD = 5 Max. user mass: kg Test force: Lifetime: years Test cycles TC: 1	= 150 588.6	P
	Activity type	Home care					
	Toilet activity	5					
	Shower/bath activity	2					
	tDL = 10 (designed	I life time, in years)					
5.1.1	fulfilled: no breaks andno loose conneall adjustable p	e test following require no visible cracks ctions arts function as intended or gap, disturbing the	ded	e to be	Satisfied requirer	ment	P



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Clause	Requirement + Tes	t	result – Rem	ark	Verdict
5.2	mm ± 10 mm from outward with 40 % formula: md is max. user r The max. test force Frequency: 30 cyc The test cycle (TC) formula. TC = uTD × 365 × with:	ding grips are loaded (I the front edge under a with a test force calculated $F = \frac{md \times 9.8}{2 \times \cos 1}$ mass a is limited to 635 N. les/min. The shall be calculated as to the shall be calculated as	lated with the following	Fixed grips	N/A
	uTD typical uses p	er day Home care			
	Toilet activity	5			
5 2 1	Shower/bath activity	2			
	15* : 2° F ₁	e test following require	ements have to be fulfille	d: Fixed grins	N/A
5.2.1	no breaks andno loose conneall adjustable p	no visible cracks		d: Fixed grips	N/A



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Clause	Requirement + Test	result -	Remark	Verdict
6	 Grips for fastening on the bath tube: The handles have to withstand a force of 500 N with visible permanent deformation or other demages. 1) The force is to be applied horizontally in the direction in the middle of the handle for (5 ± 1) min (see pin 1). 2) The force is to be applied vertical down in the direction B in the middle of the handle for (5 ± 1) min (see 1). 	ction A cture ection	Wall mounted grip	N/A
_	Picture 1			
7	Materials (FM FM A)		T	
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used sha suitable for their intended purpose and resistant to corrosion.	ll be		P
7.2	Corrosion test			
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, wh example, the test object does not display any surface changes indicating damage following a salt spray tes performed in accordance with EN ISO 9227 (test procedure NSS, test duration 120 h).)		Р
7.2.2	Assessment level 8 pursuant to EN ISO 10289.			Р
7.3	Plastic (EK5/TAK3 16-01:2016 Punkt 4.3.2) Plastics are regarded as corrosion-resistant. However, resistance to ageing and UV shall be verify datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a day shall be obtained for each manufacturer.			Р



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Requirement + Test	result – Remark	Verdict
Design		
Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges.	Satisfied requirement	Р
Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display ar edge radius of > 2 mm or they shall be bevelled.	Satisfied requirement	Р
Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either round or bevelled.	Satisfied requirement led	P
Marking		
	Satisfied requirement	Р
(EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clear legible and durable. Compliance is checked by inspection and by rubbing marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soawith petroleum spirit. After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they show curling. NOTE 1 In considering the durability of the marking, the effect of normal use is taken into account. For examp marking by means of paint or enamel, other than vitre enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the test is aliphatic solvent hexane having a maximum aromatic.	the l aked e w he le, eous	P
	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges. Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display an edge radius of > 2 mm or they shall be bevelled. Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either round or bevelled. Marking - The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plast - Max.loading capacity Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clearl legible and durable. Compliance is checked by inspection and by rubbing marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges. Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display an edge radius of > 2 mm or they shall be bevelled. Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either rounded or bevelled. Marking - The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plastic - Max.loading capacity Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clearly legible and durable. Compliance is checked by inspection and by rubbing the marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and spirit. After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they show curling. NOTE 1 In considering the durability of the marking, the effect of normal use is taken into account. For example, marking by means of paint or enamel, other than vitreous enamel, on containers that are likely to be cleaned



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Report No.: MES1763710B00TRF

Clause	Requirement + Test	result -	- Remark	V	erdict
10	User manual				
	The user manual shall contains at least the following points: - name and address of the manufacturer or suppli - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medicing care (or analogous) - max.load capacity	er ng ard to	Satisfied requirement		P

End of test report



Page 1 of 12 Report No.: MES1763710A00TRF Rev. 01

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use MES1763710A00TRF Rev.01 Report No.: 27.08.2021 Date of issue: Project handler: Fabio Murgia Testing laboratory: TÜV Italia Address: Via Brandizzo 123 – 10088 Volpiano (TO) Testing location: as above PROVEX INDUSTRIE S.r.l. Client: Client number: 16804 Address: Zona Industriale 10 - 39031 - BRUNICO Contact person: Oswald Fischnaller Standard: This TUV SUD test report form is based on the following requirements: PPP 52018C:2019 TRF number and revision: TRF PPP 52018C:2018 rev.0:2018 TUV SUD Product Service, Mr.Maurizio Leone (product specialist) TRF originated by: This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. Copyright blank test report: TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in General disclaimer: question and is not generally applicable evaluation of the quality of other products in regular production. ☐ TUV Mark Scheme: GS Mark NRTL Mark ☐ EU-Directive Non-standard test method: ☐ No Yes, see details under Summary of testing National deviations: Number of pages (Report): Number of pages (Attachments): John Hays Compiled by: Fabio Murgia (Printed Name and Signature) Approved by: Andrea Rotundo Indrea RoTundo (Printed Name and Signature)



Page 2 of 12 Report No.: MES1763710A00TRF Rev. 01

Test sample:	3004SG 01				
Type of test object:	Sanitary Items (Wall mount grip)				
Trademark:					
Model and/or type reference:	3001SG**, 3002SG**, 3003SG**, 3004SG**, 3005SG**, 3006SG**, 3007SG**, 3010SG**, 3011SG**, 3012SG**, 3015SG**, 3016SG**, 3017SG**, 3018SG**, 3020SG**, 3021SG**, 3025SG**, 3026SG**, 3028SG**, 3030SG**, 3031SG**, 3032SG**, 3040SG**, 3041SG**, 3042SG**, 3045SG**, 3046SG**, 3047SG**, 3050SG**, 3051SG**, 3055SG**, 3056SG**, 3057SG**, 3058SG**, 3059SG**, 3060SG**, 3061SG**, 3062SG**, 3064SG**, 3070SG**, 3071SG**, 3072SG**, 3110SG**,3245SG**, 3246SG**,3247SG**, 3240SG**, 3241SG**, 3242SG**.				
Rating(s):					
Manufacturer:	PROVEX INDUSTRIE S.r.I.				
Manufacturer number:	16804				
Address:	Zona Industriale 10 – 39031 - BRUNICO				
Sub-contractors/ tests (clause):					
Name:					
	☐ Complete test according to TRF				
	Partial test according to manufacturer's specifications				
Order description:	☐ Preliminary test				
	☐ Spot check				
	Others:				
Date of order:	16.07.2021				
Date of receipt of test item:	24.08.2021				
Date(s) of performance of test:	27.08.2021				
Test item particulars:					
Wall mount grip					
Purpose of the product (Description	on of intended use):				
Sanitary Items					
Characteristic data (not shown on the marking plate):					
Attachments:					



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General remarks:
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.
The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.
This report shall not be reproduced except in full without the written approval of the testing laboratory.
Summary of testing:
deviation(s) found
⊠ no deviations found
Additional information on Non-standard test method(s)
Sub clause:
Page:
Rational:
Rational:
If additional information is necessary, please provide
Copy of marking plate:
Picture of the product:
ricture or the product.



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Name and address of factory (ies) (only if certification is provided):

PROVEX INDUSTRIE S.r.I.

Zona Industriale 10

39031 BRUNICO

Possible test case verdicts:

test case does not apply to the test object: N/A (not applicable / not included in the order)

test object does meet the requirement: P (Pass) test object does not meet the requirement: F (Fail)

Possible suffixes to the verdicts:

suffix for detailed information for the client: C (Comment) suffix for important information for factory M (Manufacturing)

inspection:



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Clause	Requirement + Test	result – Remark V	erdict		
1	Scope This test program includes safety requirements for solit does not apply to sanitary handles in the field of repeople.				
2	Fasteners				
	EK5/AK7 decision 06:2014 If mounting hardware is included, these shall be reviewed and meet the requirements. The limited area of these hardware must also be obvious to the consumer.	Satisfied requirement	Р		
3	Safety of moving parts				
3.1	(ISO 17966:2016 clause 23.9.2) Safety folding grips which are adjustable or can be moved from one position into another, must have devices for safe attachment in each intended operating position (e.g.: safety folding grips have to be secured against unintentional folding up / folding down,).	The foldable safety handles, which can be adjusted or moved, have devices for secure attachment.	P		
3.2	(EN 581-1:2017 clause 3.2) Shear and squeeze points exist if the distance between two accessible parts moving relative to each other can be more or equal than 7 mm and less or equal than 18 mm in any position during movement		N/A		
3.3	(EN 581-1:2017 clause 5.2) Tubular components There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.		N/A		
3.4	(EN 581-1:2017 clause 5.3.1) Shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	Satisfied requirement	P		



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Clause	Requirement + Test	result – Remark	Verdict		
4	Static forces Position the product in the least favorable position of intended use if not described.				
4.1	Static strength by safety grip systems (ISO 17966:2016 clause 23.7.3.1) The wall-fastened handrail is loaded (F ₁) vertically with load for at least 60s in the most adverse position and the horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including addition where applicable)	nen			
4.1.1	After performing the test following requirements have to fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	Horizontal: 97.5 k	eg P		



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Clause	Requirement + Test	result – Remark	Verdict
4.2	(ISO 17966:2016 clause 23.9.3) Support arms / folding grips are loaded (F ₁) in a poir 5 mm from the front edge with an angle of 15° \pm 2° c and downwards for at least 60s with a load calculate following formula: $F = \frac{md \times 9.81 \times 1.5}{2 \times cos15}$ md is max. user mass The max. test force is limited to 950 N.	outwards and with the	
4.2.1	After performing the test following requirements have fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	e to be Fixed grips	N/A



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Clause	Requirement + Tes	t		result – Re	emark Vo		erdict
5	Fatigue strength (ISO 17966:2016 c	by safety grip system clause 23.7.3.2)	ms				
5.1	The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: F = md × 9,81 md is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. TC = uTD × 365 × tDL		Environmental conditions Room temperature = 22 °C ± 2 °C Relative humidity = 45 % ± 5 % Product designed for public use uTD = 5 Max. user mass: 130 kg Test force: 510 Lifetime: 5 years Test cycles TC: 18250		P		
	Shower/bath activity tDL = 10 (designed)	2 I life time, in years)					
5.1.1	After performing th	e test following requir	ements have	e to be	Satisfied requirement		Р
	no loose conneall adjustable p	no visible cracks ctions arts function as intend s or gap, disturbing th					



Page 9 of 12

Clause	Requirement + Tes	t	re	esult – Remark		Verdict
5.2	mm ± 10 mm from outward with 40 % formula: md is max. user r The max. test force Frequency: 30 cyc The test cycle (TC formula. TC = uTD × 365 × with:	ding grips are loaded (Figure 1) the front edge under a with a test force calcular and $F = \frac{md \times 9.8}{2 \times \cos 1}$ mass are is limited to 635 N. les/min. The shall be calculated as to the state of the shall be calculated as to the shall be shall be calculated as to the shall be calculated as the shall be calculated a	an angle of 15 lated with the $\frac{31}{5^\circ}$	° ± 2° following	Fixed grips	N/A
	uTD typical uses p	er day Home care				
	Toilet activity	5				
	Shower/bath activity	2				
	15* ±2° F1	e test following require	ements have t	o be fulfilled:	Fixed aring	NI/Δ
5.2.1	no breaks andno loose conneall adjustable p	no visible cracks	ed	o be fulfilled:	Fixed grips	N/A



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Clause	Requirement + Test	result – Remark		Verdict	
6	Grips for fastening on the bath tube:		Wall mounted grip	N/A	
	 The handles have to withstand a force of 500 N without visible permanent deformation or other demages. 1) The force is to be applied horizontally in the direction A in the middle of the handle for (5 ± 1) min (see picture 1). 2) The force is to be applied vertical down in the direction 				
	B in the middle of the handle for (5 ± 1) min (see 1).	picture			
7	Picture 1 Materials				
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shal suitable for their intended purpose and resistant to corrosion.	l be		Р	
7.2	Corrosion test				
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, who example, the test object does not display any surface changes indicating damage following a salt spray test performed in accordance with EN ISO 9227 (test procedure NSS, test duration 120 h).			Р	
7.2.2	Assessment level 8 pursuant to EN ISO 10289.			Р	
7.3	Plastic (EK5/TAK3 16-01:2016 Punkt 4.3.2) Plastics are regarded as corrosion-resistant. However, resistance to ageing and UV shall be verif datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a dat shall be obtained for each manufacturer.			P	



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Clause	Requirement + Test	result -	Remark	Verdict
8	Design			
8.1	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges.		Satisfied requirement	P
8.2	Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display an edge radius of > 2 mm or they shall be bevelled.		Satisfied requirement	Р
8.3	Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either rounded or bevelled.		Satisfied requirement	Р
9	Marking			
9.1	- The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plastic - Max.loading capacity		Satisfied requirement	Р
9.2	Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be cleategible and durable. Compliance is checked by inspection and by rubbin marking by hand for 15 s with a piece of cloth soake with water and again for 15 s with a piece of cloth swith petroleum spirit. After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they shourling. NOTE 1 In considering the durability of the marking effect of normal use is taken into account. For examinarity marking by means of paint or enamel, other than vitienamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the test aliphatic solvent hexane having a maximum aromat content of 0.1 % by volume, a kauri-butanol value of an initial boiling point of approximately 65 °C, a dry of approximately 69 °C	g the ed oaked the / ow , the nple, creous is ics f 29,	Satisfied requirement	P



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Clause	Requirement + Test	result -	result – Remark		erdict
10	User manual				
	The user manual shall contains at least the followin points: - name and address of the manufacturer or suppli - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medicinare (or analogous) - max.load capacity	er ng ard to	Satisfied requirement		P

End of test report



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TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use MES1763710D00TRF Rev.01 Report No.: 27.08.2021 Date of issue: Project handler: Fabio Murgia Testing laboratory: TÜV Italia Address: Via Brandizzo 123 – 10088 Volpiano (TO) Testing location: as above PROVEX INDUSTRIE S.r.l. Client: Client number: 16804 Address: Zona Industriale 10 - 39031 - BRUNICO Contact person: Oswald Fischnaller Standard: This TUV SUD test report form is based on the following requirements: PPP 52018C:2019 TRF number and revision: TRF PPP 52018C:2018 rev.0:2018 TUV SUD Product Service, Mr.Maurizio Leone (product specialist) TRF originated by: This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. Copyright blank test report: TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in General disclaimer: question and is not generally applicable evaluation of the quality of other products in regular production. ☐ TUV Mark Scheme: GS Mark NRTL Mark ☐ EU-Directive Non-standard test method: ☐ No Yes, see details under Summary of testing National deviations: Number of pages (Report): Number of pages (Attachments): John Hays Compiled by: Fabio Murgia (Printed Name and Signature) Approved by: Andrea Rotundo Indrea RoTundo (Printed Name and Signature)



Page 2 of 12 Report No.: MES1763710D00TRF Rev. 01

Test sample:	Serie 250.
Type of test object:	Sanitary Items
Trademark:	
Model and/or type reference:	2001HG**, 2002HG**, 2003HG**, 2011HG**, 2012HG**, 2013HG**, 2201HG, 2202HG, 2203HG, 2211HG, 2212HG, 2213HG2020 HG**, 2021HG**, 2022HG**, 2023HG**, 2024HG**, 2025HG**, 2026HG**, 2030HG**, 2031HG**, 2032HG**, 2040HG**, 2041HG**, 2050HG**, 2051HG**, 2052HG**, 2060HG**, 2070HG**, 2072HG**, 2080HG**, 2081HG**, 2090HG**, 2091HG**, 2092HG**, 2100HG**, 2101HG**, 2102HG**, 2110HG**, 2111HG**, 2120HG**, 2121HG**, 2122HG**; 2130HG**
Rating(s):	
Manufacturer:	PROVEX INDUSTRIE S.r.I.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
	□ Complete test according to TRF
	Partial test according to manufacturer's specifications
Order description:	☐ Preliminary test
	☐ Spot check
	Others:
Date of order:	16.07.2021
Date of receipt of test item:	24.08.2021
Date(s) of performance of test:	From 27.08.2021 to 02.09.2021
Test item particulars:	
Wall mount grip	
Purpose of the product (Description	on of intended use):
Sanitary Items	
Characteristic data (not shown on the	ne marking plate):



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2002HG**: Load Capacity: 100 kg
2003HG**: Load Capacity: 100 kg
2012HG**: Load Capacity: 100 kg
2013HG**: Load Capacity: 100 kg
2026HG**: Load Capacity: 120 kg
2032HG**: Load Capacity: 120 Kg
2052HG**: Load Capacity: 120 Kg
2072HG**: Load Capacity: 120 Kg
20130HG**: Load Capacity: 120 Kg
Attachments:
General remarks:
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.
The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.
Summary of testing:
deviation(s) found
□ no deviations found □
Additional information on Non-standard test method(s)
Sub clause:
Page:
Rational:
If additional information is necessary, please provide
Copy of marking plate:



Page 4 of 12 Report No.: MES1763710D00TRF Rev. 01

Picture of the product:





Name and address of factory (ies) (only if certification is provided):

PROVEX INDUSTRIE S.r.I.

Zona Industriale 10

39031 BRUNICO

Possible test case verdicts:

test case does not apply to the test object: N/A (not applicable / not included in the order)

test object does meet the requirement: P (Pass) test object does not meet the requirement: F (Fail)

Possible suffixes to the verdicts:

suffix for detailed information for the client: C (Comment) suffix for important information for factory M (Manufacturing)

inspection:



Page 5 of 12

Clause	Requirement + Test	result – Remark V	'erdict
1	Scope This test program includes safety requirements for s It does not apply to sanitary handles in the field of re people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware is included, these shall be reviewed and meet the requirements. The limited area of these hardware must also be obvious to the consumer.	Satisfied requirement	Р
3	Safety of moving parts		
3.1	(ISO 17966:2016 clause 23.9.2) Safety folding grips which are adjustable or can be moved from one position into another, must have devices for safe attachment in each intended operating position (e.g.: safety folding grips have to be secured against unintentional folding up / folding down,).	The foldable safety handles, which can be adjusted or moved, have devices for secure attachment.	Р
3.2	(EN 581-1:2017 clause 3.2) Shear and squeeze points exist if the distance between two accessible parts moving relative to each other can be more or equal than 7 mm and less or equal than 18 mm in any position during movement		N/A
3.3	(EN 581-1:2017 clause 5.2) Tubular components There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.		N/A
3.4	(EN 581-1:2017 clause 5.3.1) Shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	Satisfied requirement	P



Page 6 of 12

Clause	Requirement + Test	result – Remark	Verdict
4	Static forces Position the product in the least favorable position of in	ntended use if not described.	
4.1	Static strength by safety grip systems (ISO 17966:2016 clause 23.7.3.1) The wall-fastened handrail is loaded (F ₁) vertically with load for at least 60s in the most adverse position and thorizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including addition where applicable)	hen	
4.1.1	After performing the test following requirements have to fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	test	nis P



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Clause	Requirement + Test	result – Remark	Verdict
4.2	(ISO 17966:2016 clause 23.9.3) Support arms / folding grips are loaded (F ₁) in a poir 5 mm from the front edge with an angle of 15° \pm 2° c and downwards for at least 60s with a load calculate following formula: $F = \frac{md \times 9.81 \times 1.5}{2 \times cos15^{\circ}}$ md is max. user mass The max. test force is limited to 950 N.	outwards ed with the	
4.2.1	After performing the test following requirements hav fulfilled: • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function	e to be After test no visit cracks, no loose connections, all adjustable parts function as inten no deformations gap, disturbing the function.	ded,



Page 8 of 12

Clause	Requirement + Tes	t		result – Rer	mark	Verdict
5	Fatigue strength I	oy safety grip syster lause 23.7.3.2)	ns			
5.1	with 40% of the test $F = md \times 9,81$ $md is max. user its$ $Frequency: 30 cycle$	es/min. shall be calculated a	n the followin	ng formula:	F:471 N Cycles: 18.250	P
	Activity type	Home care				
	Toilet activity	5				
	Shower/bath activity	2				
	tDL = 10 (designed	life time, in years)				
5.1.1	fulfilled: no breaks andno loose conneall adjustable paragraph	e test following require to visible cracks ctions arts function as intended or gap, disturbing the	ded	e to be		P



Page 9 of 12

Clause	Requirement + Tes	t	result – Remark	Ve	erdict
5.2	mm ± 10 mm from outward with 40 % formula: md is max. user in The max. test force Frequency: 30 cycl The test cycle (TC) formula. TC = uTD × 365 ×	ting grips are loaded (F ₁) the front edge under an a with a test force calculate $F = \frac{md \times 9,81}{2 \times \cos 15^{\circ}}$ hass a is limited to 635 N. es/min. shall be calculated according to the shall be calculated to the shall be calculated according to the shall be calcula	angle of 15° ± 2° ed with the following		P
	with: uTD typical uses p	ner dav			
	Activity type	Home care			
	Toilet activity	5			
	Shower/bath activity	2			
	15° ±2° F,	50 ±5			
5.2.1	no breaks andno loose conneall adjustable p	e test following requirement no visible cracks ctions arts function as intended s or gap, disturbing the fu		After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	Р



Page 10 of 12

Clause	Requirement + Test	result –	Remark	Verdict
6	Grips for fastening on the bath tube:		Wall mounted grip	N/A
	 The handles have to withstand a force of 500 N with visible permanent deformation or other demages. The force is to be applied horizontally in the direction in the middle of the handle for (5 ± 1) min (see pi 1). The force is to be applied vertical down in the direction in the middle of the handle for (5 ± 1) min (see 1). 	etion A cture ection		
	District A			
7	Picture 1 Materials			
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shal suitable for their intended purpose and resistant to corrosion.	l be		Р
7.2	Corrosion test			
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, who example, the test object does not display any surface changes indicating damage following a salt spray test performed in accordance with EN ISO 9227 (test procedure NSS, test duration 120 h).			Р
7.2.2	Assessment level 8 pursuant to EN ISO 10289.			Р
7.3	Plastic (EK5/TAK3 16-01:2016 Punkt 4.3.2) Plastics are regarded as corrosion-resistant. However, resistance to ageing and UV shall be verif datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a dat shall be obtained for each manufacturer.			Р



Page 11 of 12

Clause	Requirement + Test	result – Remark	Verdict
8	Design		
8.1	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners edges.	Satisfied requirements or	P
8.2	Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display edge radius of > 2 mm or they shall be bevelled.	Satisfied requirement	P
8.3	Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either roor bevelled.	Satisfied requirement bunded	P P
9	Marking		
9.1	- The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid p - Max.loading capacity	Satisfied requirement	Р
9.2	Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clegible and durable. Compliance is checked by inspection and by rubb marking by hand for 15 s with a piece of cloth soa with water and again for 15 s with a piece of cloth with petroleum spirit. After all the tests of this standard marking shall be clearly legible. It shall not be easy possible to remove marking plates nor shall they curling.	oing the aked soaked I, the sily	P
	NOTE 1 In considering the durability of the marking effect of normal use is taken into account. For examarking by means of paint or enamel, other than enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the tealiphatic solvent hexane having a maximum around content of 0.1 % by volume, a kauri-butanol value an initial boiling point of approximately 65 °C, a disproximately 69 °C	emple, vitreous d est is eatics e of 29,	



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Report No.: MES1763710D00TRF

Clause	Requirement + Test	result – Re	emark	Ve	erdict
10	User manual				
	The user manual shall contains at least the followin points: - name and address of the manufacturer or suppli - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medicing care (or analogous) - max.load capacity	er ng ard to	atisfied requirement		P

End of test report



Page 1 of 12 Report No.: MES1763710E00TRF Rev.01

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use MES1763710E00TRF Rev.01 Report No.: 27.08.2021 Date of issue: Project handler: Fabio Murgia Testing laboratory: TÜV Italia Address: Via Brandizzo 123 – 10088 Volpiano (TO) Testing location: as above PROVEX INDUSTRIE S.r.l. Client: Client number: 16804 Address: Zona Industriale 10 - 39031 - BRUNICO Contact person: Oswald Fischnaller Standard: This TUV SUD test report form is based on the following requirements: PPP 52018C:2019 TRF number and revision: TRF PPP 52018C:2018 rev.0:2018 TUV SUD Product Service, Mr.Maurizio Leone (product specialist) TRF originated by: This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. Copyright blank test report: TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in General disclaimer: question and is not generally applicable evaluation of the quality of other products in regular production. ☐ TUV Mark Scheme: GS Mark NRTL Mark ☐ EU-Directive Non-standard test method: ☐ No Yes, see details under Summary of testing National deviations: Number of pages (Report): Number of pages (Attachments): John Hays Compiled by: Fabio Murgia (Printed Name and Signature) Approved by: Andrea Rotundo Indrea RoTundo (Printed Name and Signature)



Page 2 of 12 Report No.: MES1763710E00TRF Rev.01

Test sample:	Serie 400.
Type of test object:	Sanitary Items
Trademark:	
Model and/or type reference:	4001SG**, 4002SG**, 4003SG**, 4004SG**, 4245SG, 4246SG, 4247SG, 4240SG, 4241SG, 4242SG, 0262BG; 0055HW, 0050VH, 4005SG**, 4006SG**, 4007SG**, 4010SG**, 4011SG**, 4012SG**, 4015SG**, 4016SG**, 4017SG**, 4018SG**, 4020SG**, 4021SG**, 4025SG**, 4026SG**, 4028SG**, 4030SG**, 4032SG**; 4031SG**, 4040SG**, 4041SG**, 4042SG**, 4045SG**, 4046SG**, 4047SG**, 4050SG**, 4051SG**, 4055SG**, 4056SG**, 4057SG**, 4058SG**, 4059SG**, 4060SG**, 4061SG**, 4062SG**, 4064SG**, 4070SG**, 4071SG**, 4072SG**, 4110SG**, 4240SG**, 4241SG**, 4242SG**, 4245SG**, 4246SG**, 4247SG**
Rating(s):	
Manufacturer:	PROVEX INDUSTRIE S.r.I.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
	☐ Complete test according to TRF
	Partial test according to manufacturer's specifications
Order description:	☐ Preliminary test
	☐ Spot check
	Others:
Date of order:	16.07.2021
Date of receipt of test item:	24.08.2021
Date(s) of performance of test:	From 27.08.2021 to 02.09.2021
Test item particulars:	
Wall mount grip	
Purpose of the product (Description	n of intended use):
Sanitary Items	
Characteristic data (not shown on the	ne marking plate):



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4004SG **: Load Capacity: 130 Kg
4015SG **: Load Capacity: 130 kg
4041SG **: Load Capacity: 130 Kg
4042SG **: Load Capacity: 130 kg
4046SG **: Load Capacity: 130 Kg
4047SG **: Load Capacity: 130 Kg
4110SG **: Load Capacity: 130 Kg
Attachments:
General remarks:
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.
The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.
ттіѕ тероп ѕпан погре терговисев ехсергіттин милові ше мішен арргома огите testing тарогаюту.
Summary of testing:
deviation(s) found
□ no deviations found
Additional information on Non-standard test method(s)
Additional information on Non-standard test method(s) Sub clause:
Sub clause:
Sub clause: Page:
Sub clause: Page: Rational:
Sub clause: Page:
Sub clause: Page: Rational: If additional information is necessary, please provide
Sub clause: Page: Rational:



Page 4 of 12 Report No.: MES1763710E00TRF Rev.01

Picture of the product:



Name and address of factory (ies) (only if certification is provided):

PROVEX INDUSTRIE S.r.I.

Zona Industriale 10

39031 BRUNICO

Possible test case verdicts:

test case does not apply to the test object: N/A (not applicable / not included in the order)

test object does meet the requirement: P (Pass) test object does not meet the requirement: F (Fail)

Possible suffixes to the verdicts:

suffix for detailed information for the client: C (Comment) suffix for important information for factory M (Manufacturing)

inspection:



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Clause	Requirement + Test	result – Remark V	'erdict
1	Scope This test program includes safety requirements for s It does not apply to sanitary handles in the field of re people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware is included, these shall be reviewed and meet the requirements. The limited area of these hardware must also be obvious to the consumer.	Satisfied requirement	Р
3	Safety of moving parts		
3.1	(ISO 17966:2016 clause 23.9.2) Safety folding grips which are adjustable or can be moved from one position into another, must have devices for safe attachment in each intended operating position (e.g.: safety folding grips have to be secured against unintentional folding up / folding down,).	The foldable safety handles, which can be adjusted or moved, have devices for secure attachment.	Р
3.2	(EN 581-1:2017 clause 3.2) Shear and squeeze points exist if the distance between two accessible parts moving relative to each other can be more or equal than 7 mm and less or equal than 18 mm in any position during movement		N/A
3.3	(EN 581-1:2017 clause 5.2) Tubular components There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.		N/A
3.4	(EN 581-1:2017 clause 5.3.1) Shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	Satisfied requirement	P



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Clause	Requirement + Test	esult – Remark	Verdict
4	Static forces Position the product in the least favorable position of in	tended use if not described.	
4.1	Static strength by safety grip systems (ISO 17966:2016 clause 23.7.3.1) The wall-fastened handrail is loaded (F ₁) vertically with load for at least 60s in the most adverse position and the horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including addition where applicable)	nen	
4.1.1	After performing the test following requirements have to fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	test	nis P



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Clause	Requirement + Test	result – Rem	nark	Verdict
4.2	(ISO 17966:2016 clause 23.9.3) Support arms / folding grips are loaded (F ₁) in a poin 5 mm from the front edge with an angle of 15° \pm 2° coand downwards for at least 60s with a load calculate following formula: $F = \frac{md \times 9.81 \times 1.5}{2 \times cos15^{\circ}}$ md is max. user mass The max. test force is limited to 950 N.	outwards ed with the	F: 950 N	P
4.2.1	After performing the test following requirements have fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	e to be	After test no visible cracks, no loose connections, all adjustable parts function as intend no deformations of gap, disturbing the function.	led,



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Clause	Requirement + Tes	t		result – Rer	nark	Ve	erdict
5	Fatigue strength (ISO 17966:2016 c	oy safety grip syster lause 23.7.3.2)	ms				
5.1	with 40% of the test $F = md \times 9,81$ $md is max. user$ $Frequency: 30 cycle$	es/min. shall be calculated a	h the followin	ng formula:	F:510 N Cycles: 18.250		P
	Toilet activity	5					
	Shower/bath activity	2					
	tDL = 10 (designed	l life time, in years)					
5.1.1	fulfilled:no breaks andno loose conneall adjustable p	e test following require no visible cracks ctions arts function as intended or gap, disturbing the	ded	e to be			P



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Clause	Requirement + Tes	t	result – Remark	Ve	erdict
5.2	mm ± 10 mm from outward with 40 % formula: md is max. user n The max. test force Frequency: 30 cycl	ing grips are loaded (F ₁) the front edge under an with a test force calculat $F = \frac{md \times 9,81}{2 \times \cos 15^{\circ}}$ hass	angle of 15° ± 2° ed with the following	F:264.3 N	P
	TC = uTD × 365 × with: uTD typical uses p				
	Activity type	Home care			
	Toilet activity Shower/bath activity	2			
	tDL = 10 (designed)	50 ±5			
5.2.1	no breaks and ino loose conneall adjustable page	e test following requirem no visible cracks ctions arts function as intended s or gap, disturbing the fo		After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P



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Clause	Requirement + Test	result -	result – Remark	
6	Grips for fastening on the bath tube:		Wall mounted grip	N/A
	 The handles have to withstand a force of 500 N with visible permanent deformation or other demages. The force is to be applied horizontally in the direction in the middle of the handle for (5 ± 1) min (see pin 1). The force is to be applied vertical down in the direction in the middle of the handle for (5 ± 1) min (see 1). 	ction A cture ection		
	Picture 1			
7	Materials			
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shal suitable for their intended purpose and resistant to corrosion.	l be		Р
7.2	Corrosion test			
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, who example, the test object does not display any surface changes indicating damage following a salt spray test performed in accordance with EN ISO 9227 (test procedure NSS, test duration 120 h).			P
7.2.2	Assessment level 8 pursuant to EN ISO 10289.			Р
7.3	Plastic (EK5/TAK3 16-01:2016 Punkt 4.3.2) Plastics are regarded as corrosion-resistant. However, resistance to ageing and UV shall be verif datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a dat shall be obtained for each manufacturer.			P



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Requirement + Test	result – Remark	Verdict
Design		
Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges.	Satisfied requirement	Р
Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display ar edge radius of > 2 mm or they shall be bevelled.	Satisfied requirement	Р
Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either round or bevelled.	Satisfied requirement led	P
Marking		
	Satisfied requirement	Р
(EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clear legible and durable. Compliance is checked by inspection and by rubbing marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soawith petroleum spirit. After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they show curling. NOTE 1 In considering the durability of the marking, the effect of normal use is taken into account. For examp marking by means of paint or enamel, other than vitre enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the test is aliphatic solvent hexane having a maximum aromatic.	the l aked e w he le, eous	P
	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges. Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display an edge radius of > 2 mm or they shall be bevelled. Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either round or bevelled. Marking - The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plast - Max.loading capacity Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clearl legible and durable. Compliance is checked by inspection and by rubbing marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges. Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display an edge radius of > 2 mm or they shall be bevelled. Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either rounded or bevelled. Marking - The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plastic - Max.loading capacity Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clearly legible and durable. Compliance is checked by inspection and by rubbing the marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with water and spirit. After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they show curling. NOTE 1 In considering the durability of the marking, the effect of normal use is taken into account. For example, marking by means of paint or enamel, other than vitreous enamel, on containers that are likely to be cleaned



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Clause	Requirement + Test	result –	Remark	V	erdict
10	User manual				
	The user manual shall contains at least the following points: - name and address of the manufacturer or supple proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regunidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medicare (or analogous) - max.load capacity	ier ing ard to	Satisfied requirement		P

End of test report



Page 1 of 12 Report No.: MES1763710F00TRF Rev. 01

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use MES1763710F00TRF Rev. 01 Report No.: 27.08.2021 Date of issue: Project handler: Fabio Murgia Testing laboratory: TÜV Italia Address: Via Brandizzo 123 – 10088 Volpiano (TO) Testing location: as above PROVEX INDUSTRIE S.r.l. Client: Client number: 16804 Address: Zona Industriale 10 - 39031 - BRUNICO Contact person: Oswald Fischnaller Standard: This TUV SUD test report form is based on the following requirements: PPP 52018C:2019 TRF number and revision: TRF PPP 52018C:2018 rev.0:2018 TUV SUD Product Service, Mr.Maurizio Leone (product specialist) TRF originated by: This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. Copyright blank test report: TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in General disclaimer: question and is not generally applicable evaluation of the quality of other products in regular production. ☐ TUV Mark Scheme: GS Mark NRTL Mark ☐ EU-Directive Non-standard test method: ☐ No Yes, see details under Summary of testing National deviations: Number of pages (Report): Number of pages (Attachments): John Hays Compiled by: Fabio Murgia (Printed Name and Signature) Approved by: Andrea Rotundo Indrea RoTundo (Printed Name and Signature)



Page 2 of 12 Report No.: MES1763710F00TRF Rev. 01

Test sample:	Serie 500.				
Type of test object:	Sanitary Items				
Trademark:					
Model and/or type reference:	5020SG**, 5021SG**,5022SG**, 5023SG**, 5024SG**, 5025SG**, 5030SG**, 5031SG**,5032SG**, 5051SG**, 5051SG**, 5052SG**, 5053SG**, 5070SG**, 5071SG**, 5080SG**, 5081SG**, 5082SG**, 5090SG**, 5092SG**, 5100SG**,5101SG**, 5102SG**, 5120SG**, 5121SG**, 5122SG**, 5130SG**, 5131SG**, 5132SG**, 5150SG**, 5152SG**, 5154SG**				
Rating(s):					
Manufacturer:	PROVEX INDUSTRIE S.r.l.				
Manufacturer number:	16804				
Address:	Zona Industriale 10 – 39031 - BRUNICO				
Sub-contractors/ tests (clause):					
Name:					
	Complete test according to TRF				
	☐ Partial test according to manufacturer's specifications				
Order description:	☐ Preliminary test				
	☐ Spot check				
	Others:				
Date of order:	16.07.2021				
Date of receipt of test item:	24.08.2021				
Date(s) of performance of test:	From 27.08.2021 to 02.09.2021				
Test item particulars:					
Wall mount grip					
Purpose of the product (Descripti	on of intended use):				
Sanitary Items	Sanitary Items				
Characteristic data (not shown on	the marking plate):				



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5023SG**, Load: 130 kg,
5025SG**, Load: 130 kg,
5032SG**, Load: 130 kg,
5053SG** Load: 130 kg,
5071SG**, Load: 130 kg,
5132SG**, Load: 130 kg,
5001SG**, Load: 100 kg,
5007SG** Load: 100 kg,
Attachments:
General remarks:
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.
The test results presented in this report relate only to the object tested.
This report shall not be reproduced execut in full without the written empreyal of the testing leberatory
This report shall not be reproduced except in full without the written approval of the testing laboratory.
This report shall not be reproduced except in full without the written approval of the testing laboratory. Summary of testing:
Summary of testing: deviation(s) found
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Summary of testing: deviation(s) found no deviations found Additional information on Non-standard test method(s) Sub clause: Page: Rational: If additional information is necessary, please provide



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Picture of the product:





Name and address of factory (ies) (only if certification is provided):

PROVEX INDUSTRIE S.r.I.

Zona Industriale 10

39031 BRUNICO

Possible test case verdicts:

test case does not apply to the test object: N/A (not applicable / not included in the order)

test object does meet the requirement: P (Pass) test object does not meet the requirement: F (Fail)

Possible suffixes to the verdicts:

suffix for detailed information for the client: C (Comment) suffix for important information for factory M (Manufacturing)

inspection:



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Clause	Requirement + Test	result – Remark	/erdict
1	Scope This test program includes safety requirements for s It does not apply to sanitary handles in the field of re people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware is included, these shall be reviewed and meet the requirements. The limited area of these hardware must also be obvious to the consumer.	Satisfied requirement	Р
3	Safety of moving parts		
3.1	(ISO 17966:2016 clause 23.9.2) Safety folding grips which are adjustable or can be moved from one position into another, must have devices for safe attachment in each intended operating position (e.g.: safety folding grips have to be secured against unintentional folding up /	The foldable safety handles, which can be adjusted or moved, have devices for secure attachment.	Р
3.2	folding down,). (EN 581-1:2017 clause 3.2) Shear and squeeze points exist if the distance between two accessible parts moving relative to each other can be more or equal than 7 mm and less or equal than 18 mm in any position during movement		N/A
3.3	(EN 581-1:2017 clause 5.2) Tubular components There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.		N/A
3.4	(EN 581-1:2017 clause 5.3.1) Shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	Satisfied requirement	P



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Clause	Requirement + Test	result – Remark	Verdict		
4	Static forces Position the product in the least favorable position of intended use if not described.				
4.1	Static strength by safety grip systems (ISO 17966:2016 clause 23.7.3.1) The wall-fastened handrail is loaded (F ₁) vertically with load for at least 60s in the most adverse position and thorizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including addition where applicable)	hen			
4.1.1	After performing the test following requirements have to fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	test	nis P		



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Clause	Requirement + Test	result – Remark	Verdict
4.2	(ISO 17966:2016 clause 23.9.3) Support arms / folding grips are loaded (F ₁) in a poir 5 mm from the front edge with an angle of 15° \pm 2° c and downwards for at least 60s with a load calculate following formula: $F = \frac{md \times 9.81 \times 1.5}{2 \times cos15^{\circ}}$ md is max. user mass The max. test force is limited to 950 N.	outwards and with the	et no visible
4.2.1	After performing the test following requirements hav fulfilled: • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function	cracks, connect adjustat function no defor	st no visible no loose tions, all ble parts as intended, rmations or sturbing the



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Clause	Requirement + Tes	t		result – Rer	nark	Verdict	
5		by safety grip syster clause 23.7.3.2)	ms				
5.1	The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: F = md × 9,81 md is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. TC = uTD × 365 × tDL with: uTD typical uses per day			ng formula:	F:510 N Cycles: 18.250	P	
	Toilet activity	5					
	Shower/bath activity	2					
	tDL = 10 (designed	d life time, in years)					
5.1.1	fulfilled:no breaks andno loose conneall adjustable p	e test following require no visible cracks ections arts function as intended or gap, disturbing the	ded	e to be		Р	



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Clause	Requirement + Test		result – Remark	Ve	/erdict	
5.2	mm ± 10 mm from outward with 40 % formula: md is max. user max. test force Frequency: 30 cycle	ing grips are loaded (F ₁ the front edge under an with a test force calcula $F = \frac{md \times 9,81}{2 \times \cos 15}$ hass is limited to 635 N. es/min. shall be calculated acc	ted with the following	F:264.3 N	P	
	uTD typical uses p	 				
	Activity type Toilet activity	Home care				
	Shower/bath activity	2				
	After performing the	test following requirem	pants have to be fulfilled:		D	
5.2.1	no breaks and rno loose connerall adjustable pa	no visible cracks		After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P	



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Clause	Requirement + Test	result -	- Remark	Verdict	
6	Grips for fastening on the bath tube:		Wall mounted grip	N/A	
	 The handles have to withstand a force of 500 N with visible permanent deformation or other demages. 1) The force is to be applied horizontally in the direction the middle of the handle for (5 ± 1) min (see pin 1). 2) The force is to be applied vertical down in the direction of the handle for (5 ± 1) min (see 1). 	ction A cture ection			
	Picture 1				
7	Materials				
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shal suitable for their intended purpose and resistant to corrosion.	l be		Р	
7.2	Corrosion test				
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, who example, the test object does not display any surface changes indicating damage following a salt spray test performed in accordance with EN ISO 9227 (test procedure NSS, test duration 120 h).			P	
7.2.2	Assessment level 8 pursuant to EN ISO 10289.			Р	
7.3	Plastic (EK5/TAK3 16-01:2016 Punkt 4.3.2) Plastics are regarded as corrosion-resistant. However, resistance to ageing and UV shall be verif datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a dat shall be obtained for each manufacturer.			P	



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Clause	Requirement + Test	result – Remark	Verdict
8	Design		
8.1	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners edges.	Satisfied requirement	t P
8.2	Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display edge radius of > 2 mm or they shall be bevelled.	Satisfied requirement	t P
8.3	Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either rounded or bevelled.		t P
9	Marking		
9.1	- The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid pla - Max.loading capacity	Satisfied requirement	t P
9.2	Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be cle legible and durable. Compliance is checked by inspection and by rubbir marking by hand for 15 s with a piece of cloth soak with water and again for 15 s with a piece of cloth s with petroleum spirit. After all the tests of this standard, marking shall be clearly legible. It shall not be easil possible to remove marking plates nor shall they sh curling. NOTE 1 In considering the durability of the marking effect of normal use is taken into account. For exam marking by means of paint or enamel, other than vi enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the test aliphatic solvent hexane having a maximum aromat content of 0.1 % by volume, a kauri-butanol value of an initial boiling point of approximately 65 °C, a dry	ng the ed coaked the y now g, the nple, treous t is tics of 29,	t P



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Clause	Requirement + Test	result -	result – Remark		Verdict	
10	User manual					
	The user manual shall contains at least the following points: - name and address of the manufacturer or suppli - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medicing care (or analogous) - max.load capacity	er ng ard to	Satisfied requirement		P	

End of test report



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TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use MES1927492A00TRF Rev. 00 Report No.: 27.05.2022 Date of issue: Simone Ferro Project handler: TÜV Italia Testing laboratory: Address: Via Brandizzo 123 – 10088 Volpiano (TO) Testing location: as above PROVEX INDUSTRIE S.r.l. Client: Client number: 16804 Address: Zona Industriale 10 - 39031 - BRUNICO Contact person: Oswald Fischnaller Standard: This TUV SUD test report form is based on the following requirements: PPP 52018C:2019 TRF number and revision: TRF PPP 52018C:2018 rev.0:2018 TRF originated by: TUV SUD Product Service, Mr.Maurizio Leone (product specialist) This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service. Copyright blank test report: TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in General disclaimer: question and is not generally applicable evaluation of the quality of other products in regular production. ☐ TUV Mark Scheme: GS Mark NRTL Mark ☐ EU-Directive Non-standard test method: ☐ No Yes, see details under Summary of testing National deviations: Number of pages (Report): Number of pages (Attachments): Compiled by: Simone Ferro (Printed Name and Signature) Approved by: Andrea Rotundo (Printed Name and Signature)



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rest sample.	Selle 3330			
Type of test object:	Sanitary Items			
Trademark:				
Model and/or type reference:	3501SG**PM;3502SG**PM;3503SG**PM;3504SG**PM; 3506SG**PM;3510SG**PM;3511SG**PM;3515SG**PM; 3516SG**PM;3517SG**PM;3518SG**PM;3550SG**PM; 3552SG**PM;3555SG**PM;3556SG**PM;3557SG**PM; 3558SG**PM			
Rating(s):				
Manufacturer:	PROVEX INDUSTRIE S.r.I.			
Manufacturer number:	16804			
Address:	Zona Industriale 10 – 39031 - BRUNICO			
Sub-contractors/ tests (clause):				
Name:				
	□ Complete test according to TRF			
	Partial test according to manufacturer's specifications			
Order description:	☐ Preliminary test			
	☐ Spot check			
	Others:			
Date of order:	02.05.2022			
Date of receipt of test item:	04.05.2022			
Date(s) of performance of test:	From 09.05.2022 to 23.05.2022			
Test item particulars:				
Wall mount grip				
Purpose of the product (Description	n of intended use):			
Sanitary Items				
Characteristic data (not shown on the	ne marking plate):			
3501SG**PM;3502SG**PM;3503S	SG**PM;3504SG**PM;3506SG**PM;			
3510SG**PM;3511SG**PM;3515	SG**PM;3516SG**PM;3517SG**PM;			
3518SG**PM;3550SG**PM;35525	SG**PM;3555SG**PM;3556SG**PM;			
3557SG**PM;3558SG**PM				
150Kg load capacity				
Attachments:				



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General remarks:	
"(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.	

Summary of testing:
deviation(s) found
$oxed{\boxtimes}$ no deviations found
Additional information on Non-standard test method(s)
• •
Sub clause:
Page:
Rational:
If additional information is necessary, please provide
Copy of marking plate:



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Picture of the product:











Name and address of factory (ies) (only if certification is provided):

PROVEX INDUSTRIE S.r.I.

Zona Industriale 10

39031 BRUNICO

Possible test case verdicts:

test case does not apply to the test object: N/A (not applicable / not included in the order)

test object does meet the requirement: P (Pass) test object does not meet the requirement: F (Fail)

Possible suffixes to the verdicts:

suffix for detailed information for the client: C (Comment) suffix for important information for factory M (Manufacturing)

inspection:



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Clause	Requirement + Test	- Test result – Remark Ver	
1	Scope This test program includes safety requirements for solit does not apply to sanitary handles in the field of repeople.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware is included, these shall be reviewed and meet the requirements. The limited area of these hardware must also be obvious to the consumer.	Satisfied requirement	Р
3	Safety of moving parts		
3.1	(ISO 17966:2016 clause 23.9.2) Safety folding grips which are adjustable or can be moved from one position into another, must have devices for safe attachment in each intended operating position (e.g.: safety folding grips have to be secured against unintentional folding up / folding down,).	The foldable safety handles, which can be adjusted or moved, have devices for secure attachment.	Р
3.2	(EN 581-1:2017 clause 3.2) Shear and squeeze points exist if the distance between two accessible parts moving relative to each other can be more or equal than 7 mm and less or equal than 18 mm in any position during movement		N/A
3.3	(EN 581-1:2017 clause 5.2) Tubular components There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.		N/A
3.4	(EN 581-1:2017 clause 5.3.1) Shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	Satisfied requirement	P



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Clause	Requirement + Test	result – Remark	Verdict		
4	Static forces Position the product in the least favorable position of intended use if not described.				
4.1	Static strength by safety grip systems (ISO 17966:2016 clause 23.7.3.1) The wall-fastened handrail is loaded (F ₁) vertically with load for at least 60s in the most adverse position and thorizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional strengths)	hen			
4.1.1	After performing the test following requirements have fulfilled: no breaks and no visible cracks no loose connections all adjustable parts function as intended no deformations or gap, disturbing the function	test	this P		



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Clause	Requirement + Test	result – Remark	Verdict
4.2	(ISO 17966:2016 clause 23.9.3) Support arms / folding grips are loaded (F ₁) in a point 5 mm from the front edge with an angle of 15° \pm 2° and downwards for at least 60s with a load calculate following formula: $F = \frac{md \times 9.81 \times 1.5}{2 \times cos15^{\circ}}$ md is max. user mass The max. test force is limited to 950 N.	outwards ed with the	N/A
4.2.1	After performing the test following requirements have fulfilled: • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function	ve to be	N/A



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Clause	Requirement + Test	t		result – Rer	emark Ve		erdict
5	Fatigue strength to	oy safety grip syster lause 23.7.3.2)	ns				
5.1	The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: F = md × 9,81 md is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. TC = uTD × 365 × tDL with: uTD typical uses per day			Vertical Load: 588 Horizontal Load: 5 N		P	
	Activity type	Home care					
	Toilet activity	5					
	Shower/bath activity	2					
	tDL = 10 (designed	life time, in years)					
5.1.1	fulfilled: no breaks and rno loose connerall adjustable particular	e test following require to visible cracks ctions arts function as intended or gap, disturbing the	ded	e to be	All product pass thest	nis	Р



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Clause	Requirement + Tes	st	result – Remark	Verdict
5.2	mm ± 10 mm from outward with 40 % formula: md is max. user in the max. test force Frequency: 30 cycle (TC formula.) TC = uTD × 365 × with:	ding grips are loaded (the front edge under a with a test force calcu- $F = \frac{md \times 9,8}{2 \times \cos 1}$ mass the is limited to 635 N. The shall be calculated as to the shall be calculated as th	lated with the following	N/A
	attivity type	Home care		
	Toilet activity	5		
	Shower/bath activity	2		
521	15° ±2° F1	d life time, in years)	ements have to be fulfilled:	N/A
5.2.1	no breaks andno loose conneall adjustable p	no visible cracks	ed	N/A



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Clause	Requirement + Test	result -	result – Remark		Verdict	
6	Grips for fastening on the bath tube:				N/A	
	 The handles have to withstand a force of 500 N with visible permanent deformation or other demages. The force is to be applied horizontally in the direction in the middle of the handle for (5 ± 1) min (see pin 1). The force is to be applied vertical down in the direction in the middle of the handle for (5 ± 1) min (see 1). 	ction A cture ection				
	Picture 1					
7	Materials					
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shal suitable for their intended purpose and resistant to corrosion.	l be			P	
7.2	Corrosion test					
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, who example, the test object does not display any surface changes indicating damage following a salt spray test performed in accordance with EN ISO 9227 (test procedure NSS, test duration 120 h).				P	
7.2.2	Assessment level 8 pursuant to EN ISO 10289.				Р	
7.3	Plastic (EK5/TAK3 16-01:2016 Punkt 4.3.2) Plastics are regarded as corrosion-resistant. However, resistance to ageing and UV shall be verif datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a dat shall be obtained for each manufacturer.				Р	



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Clause	Requirement + Test	result –	sult – Remark		Verdict	
8	Design					
8.1	Corners and Edges (EK5/TAK3 16-01:2016 clause 4.4.1) The products shall be free from any sharp corners or edges.		Satisfied requirement		Р	
8.2	Edge radius (EK5/TAK3 16-01:2016 clause 4.4.2) Parts that are intended to be touched shall display a edge radius of > 2 mm or they shall be bevelled.	n	Satisfied requirement		Р	
8.3	Edges (EK5/TAK3 16-01:2016 clause 4.4.3) All other edges shall be free of burrs and either rounded or bevelled.		Satisfied requirement		Р	
9	Marking					
9.1	- The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plas - Max.loading capacity	tic			N/A	
9.2	Testing - Marking (EK5/AK6 12-02-2012 clause 6.1) The markings required by the standard shall be clearly legible and durable. Compliance is checked by inspection and by rubbing marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth so with petroleum spirit. After all the tests of this standard, the marking shall be clearly legible. It shall not be easily possible to remove marking plates nor shall they sho curling. NOTE 1 In considering the durability of the marking, effect of normal use is taken into account. For example marking by means of paint or enamel, other than vitre.	the daked ne w			N/A	
	enamel, on containers that are likely to be cleaned frequently, is not considered to be durable. NOTE 2 The petroleum spirit to be used for the test i aliphatic solvent hexane having a maximum aromatic content of 0.1 % by volume, a kauri-butanol value of an initial boiling point of approximately 65 °C, a dry p of approximately 69 °C	s cs 29,				



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Clause	Requirement + Test	result – Remark	V	erdict
10	User manual			
	The user manual shall contains at least the following points: - name and address of the manufacturer or supplic - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medicinare (or analogous) - max.load capacity	er ng ard to		N/A

End of test report