
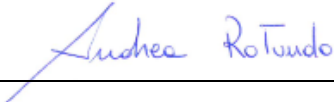


TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use	
Report No.:	MES1763710C00TRF Rev.01
Date of issue:	27.08.2021
Project handler:	Fabio Murgia
Testing laboratory:	TUV Italia
Address:	Via Brandizzo 123 – 10088 Volpiano (TO)
Testing location:	as above
Client:	PROVEX INDUSTRIE S.r.l.
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 (<i>product specialist</i>)
Copyright blank test report:	<p>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.</p> <p>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.</p>
General disclaimer:	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 question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method:	<input type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations:	
Number of pages (<i>Report</i>):	
Number of pages (<i>Attachments</i>):	
Compiled by:	Fabio Murgia <i>(Printed Name and Signature)</i> 
Approved by:	Andrea Rotundo <i>(Printed Name and Signature)</i> 

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.l.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF
	<input type="checkbox"/> Partial test according to manufacturer's specifications
	<input type="checkbox"/> Preliminary test
	<input type="checkbox"/> Spot check
	<input type="checkbox"/> 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 of intended use):	
Sanitary Items	
Characteristic data (not shown on the marking plate):	



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:

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:

Picture of the product:



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

PROVEX INDUSTRIE S.r.l.

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)

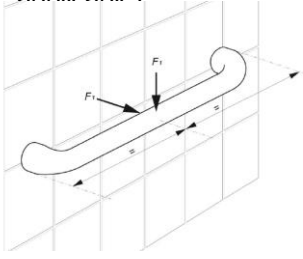
Possible suffixes to the verdicts:

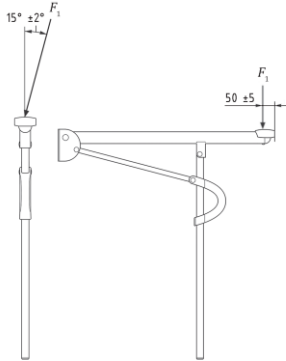
suffix for detailed information for the client: C (Comment)

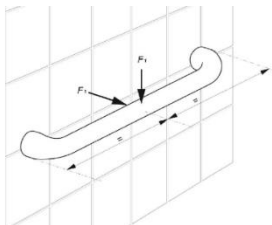
suffix for important information for factory M (Manufacturing)

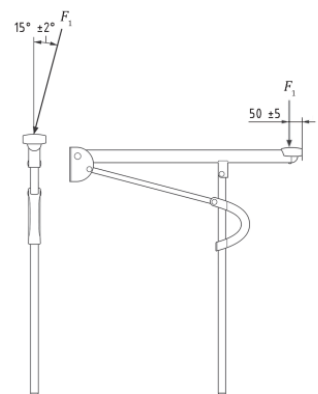
inspection:

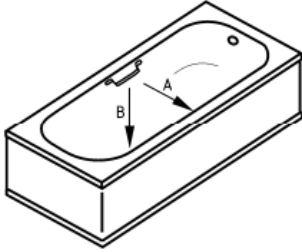
Clause	Requirement + Test	result – Remark	Verdict
1	Scope This test program includes safety requirements for sanitary handles for domestic use. It does not apply to sanitary handles in the field of rehabilitation and medically care for people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware 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	P
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

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 1,5 x max. load for at least 60s in the most adverse position and then horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional load where applicable) 		
4.1.1	After performing the test following requirements have to be fulfilled: <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 		N/A

Clause	Requirement + Test	result – Remark	Verdict
4.2	<p>(ISO 17966:2016 clause 23.9.3)</p> <p>Support arms / folding grips are loaded (F_1) in a point $50 \text{ mm} \pm 5 \text{ mm}$ from the front edge with an angle of $15^\circ \pm 2^\circ$ outwards and downwards for at least 60s with a load calculated with the following formula:</p> $F = \frac{md \times 9,81 \times 1,5}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 950 N.</p> 	F: 762.4 N	P
4.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P

Clause	Requirement + Test	result – Remark	Verdict						
5	Fatigue strength by safety grip systems (ISO 17966:2016 clause 23.7.3.2)								
5.1	<p>The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula:</p> $F = m_d \times 9,81$ <p>m_d is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula.</p> $TC = uTD \times 365 \times tDL$ <div></div> <p>with: uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>$tDL = 10$ (designed life time, in years)</p>	Activity type	Home care	Toilet activity	5	Shower/bath activity	2		N/A
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.1.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function		N/A						

Clause	Requirement + Test	result – Remark	Verdict						
5.2	<p>(ISO 117966:2016 clause 23.9.3.1)</p> <p>Support arms / folding grips are loaded (F_1) vertically at a point 50 mm ± 10 mm from the front edge under an angle of 15° ± 2° outward with 40 % with a test force calculated with the following formula:</p> $F = \frac{md \times 9,81}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 635 N.</p> <p>Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> <p>TC = uTD × 365 × tDL</p> <p>with:</p> <p>uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>tDL = 10 (designed life time, in years)</p> 	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	F:203.2 N	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">no breaks and no visible cracksno loose connectionsall adjustable parts function as intendedno deformations or gap, disturbing the function	After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P						

Clause	Requirement + Test	result – Remark	Verdict
6	<p><u>Grips for fastening on the bath tube:</u></p> <p>The handles have to withstand a force of 500 N without visible permanent deformation or other damages.</p> <ol style="list-style-type: none"> 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 picture 1).  <p>Picture 1</p>	Wall mounted grip	N/A
7	Materials		
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shall be suitable for their intended purpose and resistant to corrosion.		P
7.2	Corrosion test		
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, when, for 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.		P
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 verified. A datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a datasheet shall be obtained for each manufacturer.		P

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	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.	Satisfied requirement	P
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	P
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 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 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 of approximately 69 °C	Satisfied requirement	P

Report No.: MES1763710C00TRF

Clause	Requirement + Test	result – Remark	Verdict
10	User manual		
	<p>The user manual shall contains at least the following points:</p> <ul style="list-style-type: none"> - name and address of the manufacturer or supplier - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard to unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medically care (or analogous) - max.load capacity 	Satisfied requirement	P

End of test report

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use	
Report No.:	MES1763710B00TRF Rev.01
Date of issue:	27.08.2021
Project handler:	Fabio Murgia
Testing laboratory:	TUV Italia
Address:	Via Brandizzo 123 – 10088 Volpiano (TO)
Testing location:	as above
Client:	PROVEX INDUSTRIE S.r.l.
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 (<i>product specialist</i>)
Copyright blank test report:	<p>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.</p> <p>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.</p>
General disclaimer:	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 question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method:	<input type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations:	
Number of pages (<i>Report</i>):	
Number of pages (<i>Attachments</i>):	
Compiled by:	Fabio Murgia <i>(Printed Name and Signature)</i> 
Approved by:	Andrea Rotundo <i>(Printed Name and Signature)</i> 

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**, 0006SG**, 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**, 0070SG**, 0075SG**
Rating(s):	
Manufacturer:	PROVEX INDUSTRIE S.r.l.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF
	<input type="checkbox"/> Partial test according to manufacturer's specifications
	<input type="checkbox"/> Preliminary test
	<input type="checkbox"/> Spot check
	<input type="checkbox"/> 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 of intended use):	
Sanitary Items	
Characteristic data (not shown on the marking plate):	



0003SG**: Load Capacity: 150 kg
0005SG**: 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.
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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

Copy of marking plate:

Picture of the product:



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

PROVEX INDUSTRIE S.r.l.

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)

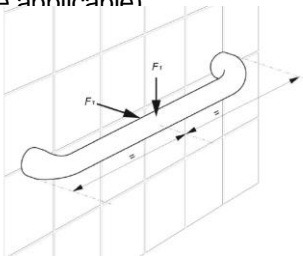
Possible suffixes to the verdicts:

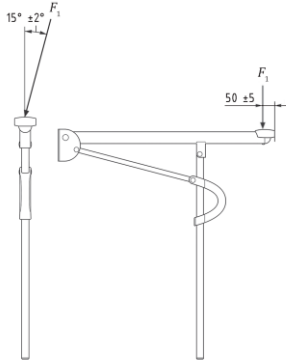
suffix for detailed information for the client: C (Comment)

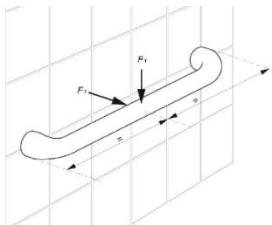
suffix for important information for factory M (Manufacturing)

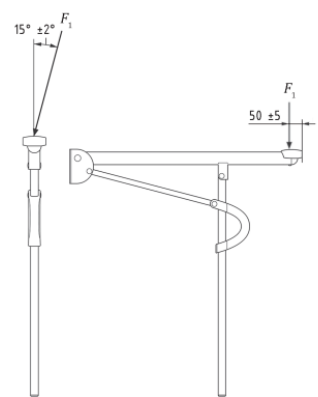
inspection:

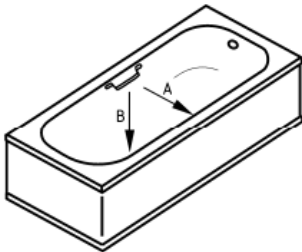
Clause	Requirement + Test	result – Remark	Verdict
1	Scope This test program includes safety requirements for sanitary handles for domestic use. It does not apply to sanitary handles in the field of rehabilitation and medically care for people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware 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	P
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

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 1,5 x max. load for at least 60s in the most adverse position and then horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional load where applicable) 		
4.1.1	After performing the test following requirements have to be fulfilled: <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	Vertical: 225 kg Horizontal: 112,5 kg	P

Clause	Requirement + Test	result – Remark	Verdict
4.2	<p>(ISO 17966:2016 clause 23.9.3)</p> <p>Support arms / folding grips are loaded (F_1) in a point $50 \text{ mm} \pm 5 \text{ mm}$ from the front edge with an angle of $15^\circ \pm 2^\circ$ outwards and downwards for at least 60s with a load calculated with the following formula:</p> $F = \frac{md \times 9,81 \times 1,5}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 950 N.</p> 	Fixed grips	N/A
4.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	Fixed grips	N/A

Clause	Requirement + Test	result – Remark	Verdict						
5	Fatigue strength by safety grip systems (ISO 17966:2016 clause 23.7.3.2)								
5.1	<p>The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: $F = m_d \times 9,81$ m_d is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. $TC = uTD \times 365 \times tDL$</p> <div></div> <p>with: uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>$tDL = 10$ (designed life time, in years)</p>	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	<p>Environmental conditions Room temperature = $22\text{ °C} \pm 2\text{ °C}$ Relative humidity = $45\text{ \%} \pm 5\text{ \%}$ Product designed for public use $uTD = 5$</p> <p>Max. user mass: 150 kg Test force: 588.6 Lifetime: 5 years Test cycles TC: 18250</p>	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.1.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">no breaks and no visible cracksno loose connectionsall adjustable parts function as intendedno deformations or gap, disturbing the function	Satisfied requirement	P						

Clause	Requirement + Test	result – Remark	Verdict						
5.2	<p>(ISO 117966:2016 clause 23.9.3.1)</p> <p>Support arms / folding grips are loaded (F_1) vertically at a point 50 mm ± 10 mm from the front edge under an angle of 15° ± 2° outward with 40 % with a test force calculated with the following formula:</p> $F = \frac{md \times 9,81}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 635 N.</p> <p>Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> <p>TC = uTD × 365 × tDL</p> <p>with:</p> <p>uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>tDL = 10 (designed life time, in years)</p> 	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	Fixed grips	N/A
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function	Fixed grips	N/A						

Clause	Requirement + Test	result – Remark	Verdict
6	<p><u>Grips for fastening on the bath tube:</u></p> <p>The handles have to withstand a force of 500 N without visible permanent deformation or other damages.</p> <ol style="list-style-type: none"> 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 picture 1).  <p>Picture 1</p>	Wall mounted grip	N/A
7	Materials		
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shall be suitable for their intended purpose and resistant to corrosion.		P
7.2	Corrosion test		
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, when, for 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.		P
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 verified. A datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a datasheet shall be obtained for each manufacturer.		P

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	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.	Satisfied requirement	P
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	P
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 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 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 of approximately 69 °C	Satisfied requirement	P

Report No.: MES1763710B00TRF

Clause	Requirement + Test	result – Remark	Verdict
10	User manual		
	<p>The user manual shall contains at least the following points:</p> <ul style="list-style-type: none"> - name and address of the manufacturer or supplier - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard to unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medically care (or analogous) - max.load capacity 	Satisfied requirement	P

End of test report

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use	
Report No.:	MES1763710A00TRF Rev.01
Date of issue:	27.08.2021
Project handler:	Fabio Murgia
Testing laboratory:	TUV Italia
Address:	Via Brandizzo 123 – 10088 Volpiano (TO)
Testing location:	as above
Client:	PROVEX INDUSTRIE S.r.l.
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 (<i>product specialist</i>)
Copyright blank test report:	<p>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.</p> <p>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.</p>
General disclaimer:	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 question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method:	<input type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations:	
Number of pages (<i>Report</i>):	
Number of pages (<i>Attachments</i>):	
Compiled by:	Fabio Murgia <i>(Printed Name and Signature)</i> 
Approved by:	Andrea Rotundo <i>(Printed Name and Signature)</i> 

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.l.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF <input type="checkbox"/> Partial test according to manufacturer's specifications <input type="checkbox"/> Preliminary test <input type="checkbox"/> Spot check <input type="checkbox"/> 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 of intended use):	Sanitary Items
Characteristic data (not shown on the marking plate):	
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:

Picture of the product:



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

PROVEX INDUSTRIE S.r.l.

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)

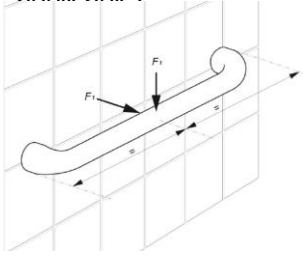
test object does not meet the requirement: F (Fail)

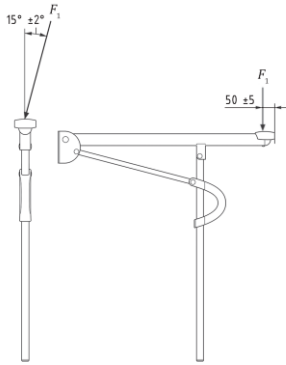
Possible suffixes to the verdicts:

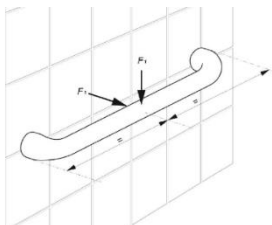
suffix for detailed information for the client: C (Comment)

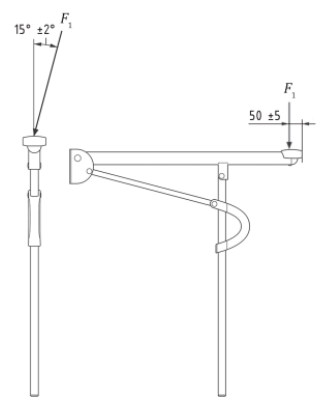
suffix for important information for factory inspection: M (Manufacturing)

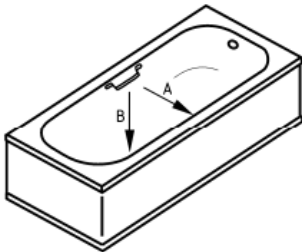
Clause	Requirement + Test	result – Remark	Verdict
1	Scope This test program includes safety requirements for sanitary handles for domestic use. It does not apply to sanitary handles in the field of rehabilitation and medically care for people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware 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	P
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

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 1,5 x max. load for at least 60s in the most adverse position and then horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional load where applicable) 		
4.1.1	After performing the test following requirements have to be fulfilled: <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	Vertical: 195 kg Horizontal: 97.5 kg	P

Clause	Requirement + Test	result – Remark	Verdict
4.2	<p>(ISO 17966:2016 clause 23.9.3)</p> <p>Support arms / folding grips are loaded (F_1) in a point $50 \text{ mm} \pm 5 \text{ mm}$ from the front edge with an angle of $15^\circ \pm 2^\circ$ outwards and downwards for at least 60s with a load calculated with the following formula:</p> $F = \frac{md \times 9,81 \times 1,5}{2 \times \cos 15^\circ}$ <p>md is max. user mass The max. test force is limited to 950 N.</p> 	Fixed grips	N/A
4.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	Fixed grips	N/A

Clause	Requirement + Test	result – Remark	Verdict						
5	Fatigue strength by safety grip systems (ISO 17966:2016 clause 23.7.3.2)								
5.1	<p>The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula:</p> $F = m_d \times 9,81$ <p>m_d is max. user mass Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> $TC = uTD \times 365 \times tDL$ <div></div> <p>with:</p> <p>uTD typical uses per day</p> <table border="1"><thead><tr><th>Activity type</th><th>Home care</th></tr></thead><tbody><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></tbody></table> <p>$tDL = 10$ (designed life time, in years)</p>	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	<p>Environmental conditions Room temperature = $22\text{ °C} \pm 2\text{ °C}$ Relative humidity = $45\text{ \%} \pm 5\text{ \%}$ Product designed for public use $uTD = 5$</p> <p>Max. user mass: 130 kg Test force: 510 Lifetime: 5 years Test cycles TC: 18250</p>	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.1.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">no breaks and no visible cracksno loose connectionsall adjustable parts function as intendedno deformations or gap, disturbing the function	Satisfied requirement	P						

Clause	Requirement + Test	result – Remark	Verdict						
5.2	<p>(ISO 117966:2016 clause 23.9.3.1)</p> <p>Support arms / folding grips are loaded (F_1) vertically at a point 50 mm ± 10 mm from the front edge under an angle of 15° ± 2° outward with 40 % with a test force calculated with the following formula:</p> $F = \frac{md \times 9,81}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 635 N.</p> <p>Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> <p>TC = uTD × 365 × tDL</p> <p>with:</p> <p>uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>tDL = 10 (designed life time, in years)</p> 	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	Fixed grips	N/A
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function	Fixed grips	N/A						


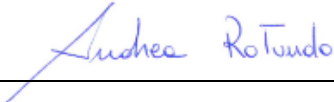
Clause	Requirement + Test	result – Remark	Verdict
6	<p><u>Grips for fastening on the bath tube:</u></p> <p>The handles have to withstand a force of 500 N without visible permanent deformation or other damages.</p> <ol style="list-style-type: none"> 1) The force is to be applied horizontally in the direction 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 picture 1).  <p>Picture 1</p>	Wall mounted grip	N/A
7	Materials		
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shall be suitable for their intended purpose and resistant to corrosion.		P
7.2	Corrosion test		
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, when, for 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.		P
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 verified. A datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a datasheet shall be obtained for each manufacturer.		P

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	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.	Satisfied requirement	P
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	P
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 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 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 of approximately 69 °C	Satisfied requirement	P

Report No.: MES1763710A00TRF

Clause	Requirement + Test	result – Remark	Verdict
10	User manual		
	<p>The user manual shall contains at least the following points:</p> <ul style="list-style-type: none"> - name and address of the manufacturer or supplier - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard to unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medically care (or analogous) - max.load capacity 	Satisfied requirement	P

End of test report

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use	
Report No.:	MES1763710D00TRF Rev.01
Date of issue:	27.08.2021
Project handler:	Fabio Murgia
Testing laboratory:	TUV Italia
Address:	Via Brandizzo 123 – 10088 Volpiano (TO)
Testing location:	as above
Client:	PROVEX INDUSTRIE S.r.l.
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 (<i>product specialist</i>)
Copyright blank test report:	<p>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.</p> <p>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.</p>
General disclaimer:	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 question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method:	<input type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations:	
Number of pages (<i>Report</i>):	
Number of pages (<i>Attachments</i>):	
Compiled by:	Fabio Murgia <i>(Printed Name and Signature)</i> 
Approved by:	Andrea Rotundo <i>(Printed Name and Signature)</i> 



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, 2213HG, 2020HG**, 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.l.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF
	<input type="checkbox"/> Partial test according to manufacturer's specifications
	<input type="checkbox"/> Preliminary test
	<input type="checkbox"/> Spot check
	<input type="checkbox"/> 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 of intended use):	
Sanitary Items	
Characteristic data (not shown on the marking plate):	



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:

Picture of the product:



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

PROVEX INDUSTRIE S.r.l.

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)

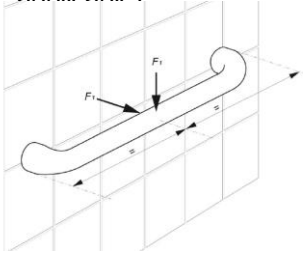
Possible suffixes to the verdicts:

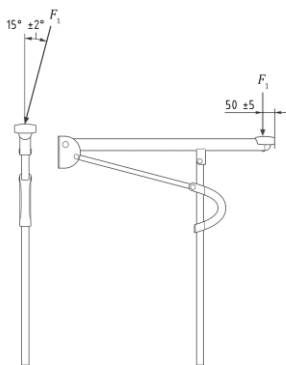
suffix for detailed information for the client: C (Comment)

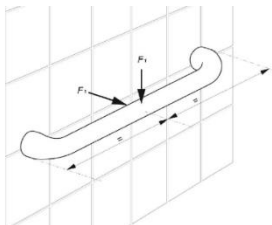
suffix for important information for factory inspection: M (Manufacturing)

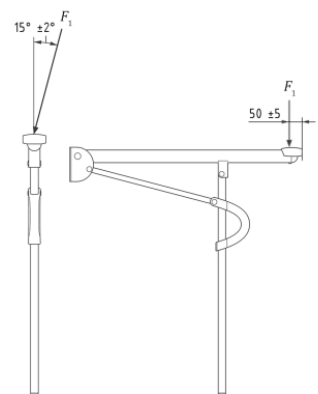
inspection:

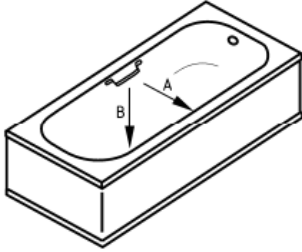
Clause	Requirement + Test	result – Remark	Verdict
1	Scope This test program includes safety requirements for sanitary handles for domestic use. It does not apply to sanitary handles in the field of rehabilitation and medically care for people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware 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	P
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

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 1,5 x max. load for at least 60s in the most adverse position and then horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional load where applicable) 		
4.1.1	After performing the test following requirements have to be fulfilled: <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	All product pass this test	P

Clause	Requirement + Test	result – Remark	Verdict
4.2	<p>(ISO 17966:2016 clause 23.9.3)</p> <p>Support arms / folding grips are loaded (F_1) in a point $50 \text{ mm} \pm 5 \text{ mm}$ from the front edge with an angle of $15^\circ \pm 2^\circ$ outwards and downwards for at least 60s with a load calculated with the following formula:</p> $F = \frac{md \times 9,81 \times 1,5}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 950 N.</p> 	All product pass this test	P
4.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P

Clause	Requirement + Test	result – Remark	Verdict						
5	Fatigue strength by safety grip systems (ISO 17966:2016 clause 23.7.3.2)								
5.1	<p>The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: $F = m_d \times 9,81$ m_d is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. $TC = uTD \times 365 \times tDL$</p>  <p>with: uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>$tDL = 10$ (designed life time, in years)</p>	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	F:471 N Cycles: 18.250	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.1.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function		P						


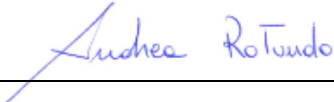
Clause	Requirement + Test	result – Remark	Verdict						
5.2	<p>(ISO 117966:2016 clause 23.9.3.1)</p> <p>Support arms / folding grips are loaded (F_1) vertically at a point 50 mm ± 10 mm from the front edge under an angle of 15° ± 2° outward with 40 % with a test force calculated with the following formula:</p> $F = \frac{md \times 9,81}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 635 N.</p> <p>Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> <p>TC = uTD × 365 × tDL</p> <p>with:</p> <p>uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>tDL = 10 (designed life time, in years)</p> 	Activity type	Home care	Toilet activity	5	Shower/bath activity	2		P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">no breaks and no visible cracksno loose connectionsall adjustable parts function as intendedno deformations or gap, disturbing the function	<p>After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.</p>	P						

Clause	Requirement + Test	result – Remark	Verdict
6	<p><u>Grips for fastening on the bath tube:</u></p> <p>The handles have to withstand a force of 500 N without visible permanent deformation or other damages.</p> <ol style="list-style-type: none"> 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 picture 1).  <p>Picture 1</p>	Wall mounted grip	N/A
7	Materials		
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shall be suitable for their intended purpose and resistant to corrosion.		P
7.2	Corrosion test		
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, when, for 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.		P
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 verified. A datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a datasheet shall be obtained for each manufacturer.		P

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	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.	Satisfied requirement	P
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	P
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 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 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 of approximately 69 °C	Satisfied requirement	P

Clause	Requirement + Test	result – Remark	Verdict
10	User manual		
	<p>The user manual shall contains at least the following points:</p> <ul style="list-style-type: none"> - name and address of the manufacturer or supplier - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard to unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medically care (or analogous) - max.load capacity 	Satisfied requirement	P

End of test report

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use	
Report No.:	MES1763710E00TRF Rev.01
Date of issue:	27.08.2021
Project handler:	Fabio Murgia
Testing laboratory:	TUV Italia
Address:	Via Brandizzo 123 – 10088 Volpiano (TO)
Testing location:	as above
Client:	PROVEX INDUSTRIE S.r.l.
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 (<i>product specialist</i>)
Copyright blank test report:	<p>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.</p> <p>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.</p>
General disclaimer:	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 question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method:	<input type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations:	
Number of pages (<i>Report</i>):	
Number of pages (<i>Attachments</i>):	
Compiled by:	Fabio Murgia <i>(Printed Name and Signature)</i> 
Approved by:	Andrea Rotundo <i>(Printed Name and Signature)</i> 

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.l.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF <input type="checkbox"/> Partial test according to manufacturer's specifications <input type="checkbox"/> Preliminary test <input type="checkbox"/> Spot check <input type="checkbox"/> 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 of intended use):	Sanitary Items
Characteristic data (not shown on the marking plate):	



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.*

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:

Picture of the product:



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

PROVEX INDUSTRIE S.r.l.

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)

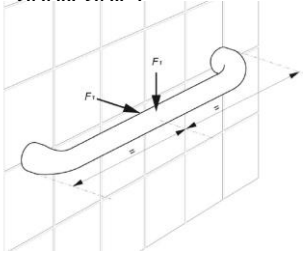
test object does not meet the requirement: F (Fail)

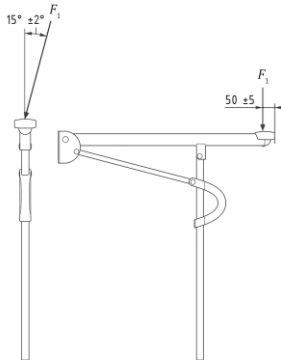
Possible suffixes to the verdicts:

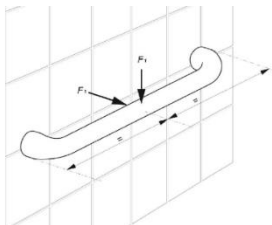
suffix for detailed information for the client: C (Comment)

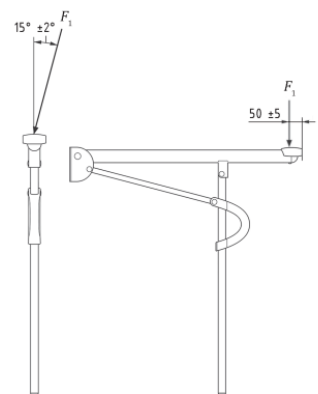
suffix for important information for factory inspection: M (Manufacturing)

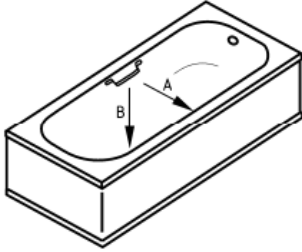
Clause	Requirement + Test	result – Remark	Verdict
1	Scope This test program includes safety requirements for sanitary handles for domestic use. It does not apply to sanitary handles in the field of rehabilitation and medically care for people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware 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	P
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

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 1,5 x max. load for at least 60s in the most adverse position and then horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional load where applicable) 	Fv: 195 kg Fo: 97.5 kg	
4.1.1	After performing the test following requirements have to be fulfilled: <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	All product pass this test	P

Clause	Requirement + Test	result – Remark	Verdict
4.2	<p>(ISO 17966:2016 clause 23.9.3)</p> <p>Support arms / folding grips are loaded (F_1) in a point $50 \text{ mm} \pm 5 \text{ mm}$ from the front edge with an angle of $15^\circ \pm 2^\circ$ outwards and downwards for at least 60s with a load calculated with the following formula:</p> $F = \frac{md \times 9,81 \times 1,5}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 950 N.</p> 	F: 950 N	P
4.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P

Clause	Requirement + Test	result – Remark	Verdict						
5	Fatigue strength by safety grip systems (ISO 17966:2016 clause 23.7.3.2)								
5.1	<p>The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: $F = m_d \times 9,81$ m_d is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. $TC = uTD \times 365 \times tDL$</p> <div></div> <p>with: uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>$tDL = 10$ (designed life time, in years)</p>	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	F:510 N Cycles: 18.250	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.1.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function		P						


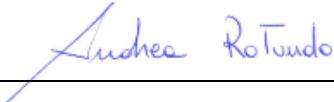
Clause	Requirement + Test	result – Remark	Verdict						
5.2	<p>(ISO 117966:2016 clause 23.9.3.1)</p> <p>Support arms / folding grips are loaded (F_1) vertically at a point 50 mm ± 10 mm from the front edge under an angle of 15° ± 2° outward with 40 % with a test force calculated with the following formula:</p> $F = \frac{md \times 9,81}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 635 N.</p> <p>Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> <p>TC = uTD × 365 × tDL</p> <p>with:</p> <p>uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>tDL = 10 (designed life time, in years)</p> 	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	F:264.3 N	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">no breaks and no visible cracksno loose connectionsall adjustable parts function as intendedno deformations or gap, disturbing the function	After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P						

Clause	Requirement + Test	result – Remark	Verdict
6	<p><u>Grips for fastening on the bath tube:</u></p> <p>The handles have to withstand a force of 500 N without visible permanent deformation or other damages.</p> <ol style="list-style-type: none"> 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 picture 1).  <p>Picture 1</p>	Wall mounted grip	N/A
7	Materials		
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shall be suitable for their intended purpose and resistant to corrosion.		P
7.2	Corrosion test		
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, when, for 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.		P
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 verified. A datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a datasheet shall be obtained for each manufacturer.		P

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	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.	Satisfied requirement	P
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	P
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 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 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 of approximately 69 °C	Satisfied requirement	P

Clause	Requirement + Test	result – Remark	Verdict
10	User manual		
	<p>The user manual shall contains at least the following points:</p> <ul style="list-style-type: none"> - name and address of the manufacturer or supplier - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard to unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medically care (or analogous) - max.load capacity 	Satisfied requirement	P

End of test report

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use	
Report No.:	MES1763710F00TRF Rev. 01
Date of issue:	27.08.2021
Project handler:	Fabio Murgia
Testing laboratory:	TUV Italia
Address:	Via Brandizzo 123 – 10088 Volpiano (TO)
Testing location:	as above
Client:	PROVEX INDUSTRIE S.r.l.
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 (<i>product specialist</i>)
Copyright blank test report:	<p>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.</p> <p>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.</p>
General disclaimer:	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 question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method:	<input type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations:	
Number of pages (<i>Report</i>):	
Number of pages (<i>Attachments</i>):	
Compiled by:	Fabio Murgia <i>(Printed Name and Signature)</i> 
Approved by:	Andrea Rotundo <i>(Printed Name and Signature)</i> 

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**, 5050SG**, 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:	
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF <input type="checkbox"/> Partial test according to manufacturer's specifications <input type="checkbox"/> Preliminary test <input type="checkbox"/> Spot check <input type="checkbox"/> 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 of intended use):	
Sanitary Items	
Characteristic data (not shown on the marking plate):	



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 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:

Picture of the product:



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

PROVEX INDUSTRIE S.r.l.

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)

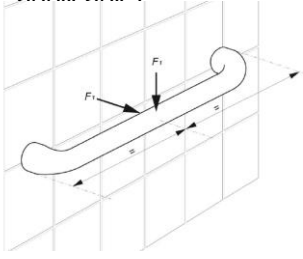
Possible suffixes to the verdicts:

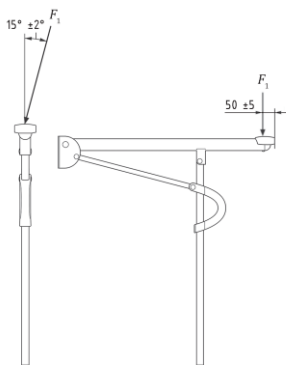
suffix for detailed information for the client: C (Comment)

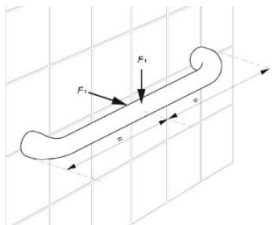
suffix for important information for factory M (Manufacturing)

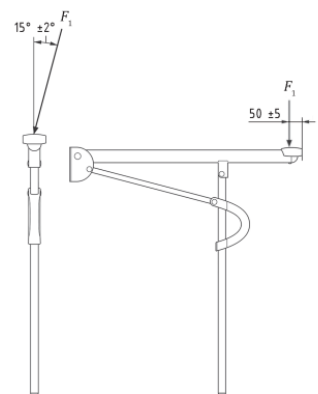
inspection:

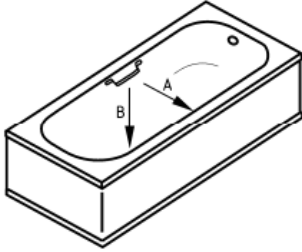
Clause	Requirement + Test	result – Remark	Verdict
1	Scope This test program includes safety requirements for sanitary handles for domestic use. It does not apply to sanitary handles in the field of rehabilitation and medically care for people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware 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	P
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

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 1,5 x max. load for at least 60s in the most adverse position and then horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional load where applicable) 		
4.1.1	After performing the test following requirements have to be fulfilled: <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	All product pass this test	P

Clause	Requirement + Test	result – Remark	Verdict
4.2	<p>(ISO 17966:2016 clause 23.9.3)</p> <p>Support arms / folding grips are loaded (F_1) in a point $50 \text{ mm} \pm 5 \text{ mm}$ from the front edge with an angle of $15^\circ \pm 2^\circ$ outwards and downwards for at least 60s with a load calculated with the following formula:</p> $F = \frac{md \times 9,81 \times 1,5}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 950 N.</p> 	F: 950	P
4.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P

Clause	Requirement + Test	result – Remark	Verdict						
5	Fatigue strength by safety grip systems (ISO 17966:2016 clause 23.7.3.2)								
5.1	<p>The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: $F = m_d \times 9,81$ m_d is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. $TC = uTD \times 365 \times tDL$</p>  <p>with: uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>$tDL = 10$ (designed life time, in years)</p>	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	F:510 N Cycles: 18.250	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.1.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function		P						

Clause	Requirement + Test	result – Remark	Verdict						
5.2	<p>(ISO 117966:2016 clause 23.9.3.1)</p> <p>Support arms / folding grips are loaded (F_1) vertically at a point 50 mm ± 10 mm from the front edge under an angle of 15° ± 2° outward with 40 % with a test force calculated with the following formula:</p> $F = \frac{md \times 9,81}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 635 N.</p> <p>Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> <p>TC = uTD × 365 × tDL</p> <p>with:</p> <p>uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>tDL = 10 (designed life time, in years)</p> 	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	F:264.3 N	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">no breaks and no visible cracksno loose connectionsall adjustable parts function as intendedno deformations or gap, disturbing the function	After test no visible cracks, no loose connections, all adjustable parts function as intended, no deformations or gap, disturbing the function.	P						

Clause	Requirement + Test	result – Remark	Verdict
6	<p><u>Grips for fastening on the bath tube:</u></p> <p>The handles have to withstand a force of 500 N without visible permanent deformation or other damages.</p> <ol style="list-style-type: none"> 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 picture 1).  <p>Picture 1</p>	Wall mounted grip	N/A
7	Materials		
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shall be suitable for their intended purpose and resistant to corrosion.		P
7.2	Corrosion test		
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, when, for 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.		P
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 verified. A datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a datasheet shall be obtained for each manufacturer.		P

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	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.	Satisfied requirement	P
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	P
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 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 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 of approximately 69 °C	Satisfied requirement	P

Clause	Requirement + Test	result – Remark	Verdict
10	User manual		
	<p>The user manual shall contains at least the following points:</p> <ul style="list-style-type: none"> - name and address of the manufacturer or supplier - proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard to unidentified substrates) - intended use - Maintenance - review of the attachment - not for use in the field of rehabilitation and medically care (or analogous) - max.load capacity 	Satisfied requirement	P

End of test report

TEST REPORT PPP 52018C:2019 Rev. 0 TUV SUD Test Report for sanitary handles for domestic use	
Report No.:	MES1927492A00TRF Rev. 00
Date of issue:	27.05.2022
Project handler:	Simone Ferro
Testing laboratory:	TUV Italia
Address:	Via Brandizzo 123 – 10088 Volpiano (TO)
Testing location:	as above
Client:	PROVEX INDUSTRIE S.r.l.
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 (<i>product specialist</i>)
Copyright blank test report:	<p>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.</p> <p>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.</p>
General disclaimer:	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 question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme:	<input type="checkbox"/> TUV Mark <input checked="" type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method:	<input type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations:	
Number of pages (<i>Report</i>):	
Number of pages (<i>Attachments</i>):	
Compiled by:	Simone Ferro <i>(Printed Name and Signature)</i>
Approved by:	Andrea Rotundo <i>(Printed Name and Signature)</i>

Test sample:	Serie S350
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.l.
Manufacturer number:	16804
Address:	Zona Industriale 10 – 39031 - BRUNICO
Sub-contractors/ tests (clause):	
Name:	
Order description:	<input checked="" type="checkbox"/> Complete test according to TRF
	<input type="checkbox"/> Partial test according to manufacturer's specifications
	<input type="checkbox"/> Preliminary test
	<input type="checkbox"/> Spot check
	<input type="checkbox"/> 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 of intended use):	
Sanitary Items	
Characteristic data (not shown on the marking plate):	
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	
150Kg load capacity	
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.

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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

Copy of marking plate:

Picture of the product:



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

PROVEX INDUSTRIE S.r.l.

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)

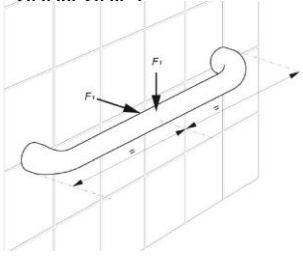
Possible suffixes to the verdicts:

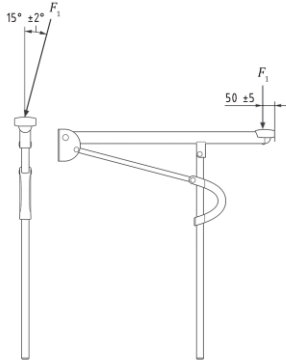
suffix for detailed information for the client: C (Comment)

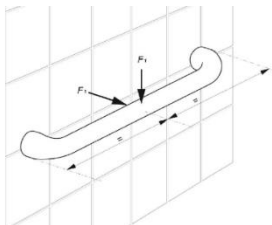
suffix for important information for factory M (Manufacturing)

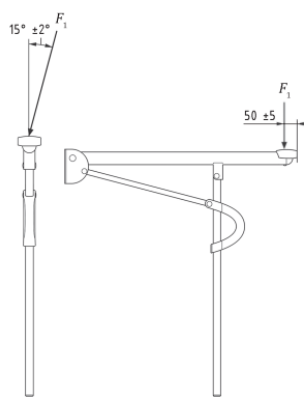
inspection:

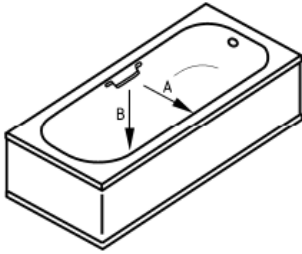
Clause	Requirement + Test	result – Remark	Verdict
1	Scope This test program includes safety requirements for sanitary handles for domestic use. It does not apply to sanitary handles in the field of rehabilitation and medically care for people.		
2	Fasteners		
	EK5/AK7 decision 06:2014 If mounting hardware 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	P
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

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 1,5 x max. load for at least 60s in the most adverse position and then horizontally using 50% of the vertically test force. Max. load (maximum user mass in kg. including additional load where applicable) 	Vertical Load: 2250 N Horizontal Load: 1125 N	
4.1.1	After performing the test following requirements have to be fulfilled: <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 	All product pass this test	P

Clause	Requirement + Test	result – Remark	Verdict
4.2	<p>(ISO 17966:2016 clause 23.9.3)</p> <p>Support arms / folding grips are loaded (F_1) in a point $50 \text{ mm} \pm 5 \text{ mm}$ from the front edge with an angle of $15^\circ \pm 2^\circ$ outwards and downwards for at least 60s with a load calculated with the following formula:</p> $F = \frac{md \times 9,81 \times 1,5}{2 \times \cos 15^\circ}$ <p>md is max. user mass The max. test force is limited to 950 N.</p> 		N/A
4.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none"> • no breaks and no visible cracks • no loose connections • all adjustable parts function as intended • no deformations or gap, disturbing the function 		N/A

Clause	Requirement + Test	result – Remark	Verdict						
5	Fatigue strength by safety grip systems (ISO 17966:2016 clause 23.7.3.2)								
5.1	<p>The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula: $F = m_d \times 9,81$ m_d is max. user mass Frequency: 30 cycles/min. The test cycle (TC) shall be calculated according to the following formula. $TC = uTD \times 365 \times tDL$</p>  <p>with: uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>$tDL = 10$ (designed life time, in years)</p>	Activity type	Home care	Toilet activity	5	Shower/bath activity	2	Vertical Load: 588.6 N Horizontal Load: 588.6 N	P
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.1.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function	All product pass this test	P						

Clause	Requirement + Test	result – Remark	Verdict						
5.2	<p>(ISO 117966:2016 clause 23.9.3.1)</p> <p>Support arms / folding grips are loaded (F_1) vertically at a point 50 mm ± 10 mm from the front edge under an angle of 15° ± 2° outward with 40 % with a test force calculated with the following formula:</p> $F = \frac{md \times 9,81}{2 \times \cos 15^\circ}$ <p>md is max. user mass</p> <p>The max. test force is limited to 635 N.</p> <p>Frequency: 30 cycles/min.</p> <p>The test cycle (TC) shall be calculated according to the following formula.</p> <p>TC = uTD × 365 × tDL</p> <p>with:</p> <p>uTD typical uses per day</p> <table><tr><th>Activity type</th><th>Home care</th></tr><tr><td>Toilet activity</td><td>5</td></tr><tr><td>Shower/bath activity</td><td>2</td></tr></table> <p>tDL = 10 (designed life time, in years)</p> 	Activity type	Home care	Toilet activity	5	Shower/bath activity	2		N/A
Activity type	Home care								
Toilet activity	5								
Shower/bath activity	2								
5.2.1	<p>After performing the test following requirements have to be fulfilled:</p> <ul style="list-style-type: none">• no breaks and no visible cracks• no loose connections• all adjustable parts function as intended• no deformations or gap, disturbing the function		N/A						

Clause	Requirement + Test	result – Remark	Verdict
6	<p><u>Grips for fastening on the bath tube:</u></p> <p>The handles have to withstand a force of 500 N without visible permanent deformation or other damages.</p> <ol style="list-style-type: none"> 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 picture 1).  <p>Picture 1</p>		N/A
7	Materials		
7.1	(EK5/TAK3 16-01:2016 clause 4.3) Statement of materials used. All materials used shall be suitable for their intended purpose and resistant to corrosion.		P
7.2	Corrosion test		
7.2.1	(EK5/TAK3 16-01:2016 clause 4.3.1) Sufficient corrosion protection is deemed to exist, when, for 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.		P
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 verified. A datasheet (in German or English) from the granule manufacturer shall be supplied. If granules are obtained from multiple sources, a datasheet shall be obtained for each manufacturer.		P

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	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.	Satisfied requirement	P
9	Marking		
9.1	- The manufacturer or manufacturer's mark - Construction year - Material designation for handles made of solid plastic - Max.loading capacity		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 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 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 of approximately 69 °C		N/A

Clause	Requirement + Test	result – Remark	Verdict
10	User manual		
	<p>The user manual shall contains at least the following points:</p> <ul style="list-style-type: none">- name and address of the manufacturer or supplier- proper assembly and mounting hardware (requirements for at least one representative fixing case e.g. in concrete, brick, etc., and expertise in regard to unidentified substrates)- intended use- Maintenance- review of the attachment- not for use in the field of rehabilitation and medically care (or analogous)- max.load capacity		N/A

End of test report