



Italia

# TEST REPORT RAPPORTO DI PROVA

## TEST OF HANDLES TEST SU MANIGLIONI

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### Customer (Richiedente):

- Dept./Firm (Ente/Società): PROVEX INDUSTRIE S.r.l.
- Mr./Mrs (Sig./Sig.ra.): Mr. Oswald Fischnaller
- Address (Indirizzo): Zona Industriale 10 - 39031 BRUNICO

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Test Request Form no.:  
Modulo Richiesta Prova n.:

MES1329999A00TR

Test Report sent to:  
Rapporto inviato a:

Oswald Fischnaller

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Name and Signature of the test engineer:  
Nome e Firma esecutore prova:

Simone Ferro

Name and Signature of the Technical reviewer:  
Nome e Firma del Revisore tecnico:

Andrea Rotundo

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Date of test samples receipt:  
Data ricevimento campioni:

21/06/2019

Date of test execution:  
Data esecuzione prove:

From 31.07.2019 to 06.08.2019

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Site of test execution (if different from the address in the footer):  
Località esecuzione prove (se diversa dal piè pagina):

Witness to the test:  
Presenti alle prove:

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The test results contained in this Test report relate to the tested samples only.  
*I risultati del presente rapporto di prova si riferiscono esclusivamente al campione sottoposto a prova.*

The integral reproduction of the present Test report is allowed; the partial reproduction must be authorized in writing by the Lab.  
*E' ammessa la riproduzione integrale del presente Rapporto di prova da parte del Richiedente; la riproduzione parziale dev'essere autorizzata per iscritto dal Laboratorio.*

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Test report n.: MES1329999A00TR  
Revision: 00  
Document name: MES1329999A00TR\_Draft\_Ita.doc

Project handler:  
Simone Ferro  
Issue date: 04.08.2019

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TÜV Italia SRL  
Divisione PS-Laboratori  
Via Montalenghe 8  
I-10010 Scarmagno TO Italy



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## 1 TEST SETUP SETUP DI PROVA

### 1.1 SAMPLE IDENTIFICATION IDENTIFICAZIONE CAMPIONE

**1.1.1 Product/material subjected to test:**  
*Prodotto/materiale sottoposto a prova:*

HANDLES

**1.1.2 Description:**  
*Descrizione:*

Handles made up of aluminum

**1.1.3 Level (Series product, prototype, etc.):**  
*Livello (Prodotto di serie, prototipo, ecc.):*

Series

**1.1.4 Part number:**  
*Codice prodotto:*

250 Series:  
2001HG;  
2002HG;  
2003HG;  
2011HG;  
2012HG;  
2013HG;  
2201HG;  
2202HG;  
2203HG;  
2211HG;  
2212HG;  
2213HG + Wandhaltegriff 250 2020HG\*\*PM;

Others Model:  
Wandhaltegriff 300 2021HG\*\*PM;  
Wandhaltegriff 400 2022HG\*\*PM;  
Wandhaltegriff 500 2023HG\*\*PM;  
Wandhaltegriff 600 2024HG\*\*PM;  
Wandhaltegriff 700 2025HG\*\*PM;  
Wandhaltegriff 800 2026HG\*\*PM;  
Wandhandlauf 1050 2030HG\*\*PM;  
Wandhandlauf 1150 2031HG\*\*PM;  
Wandhandlauf 1250 2032HG\*\*PM;  
Wandhaltegriff 145° 2040HG\*\*PM;  
Wandhaltegriff 145° 2041HG\*\*PM;  
Wandhaltegriff 90° 2050HG\*\*PM;  
Wandhaltegriff 90° 2051HG\*\*PM;  
Wandhaltegriff 90° 2052HG\*\*PM;  
Wandhaltegriff mit Senkrechtstütze 2060HG\*\*PM;  
Duschhandlauf einfach 2070HG\*\*PM;  
Wandhaltegriff 145° 2080HG\*\*PM;  
Brausestange 2090HG\*\*PM;  
Brausestange 2091HG\*\*PM;  
Brausestange 2092HG\*\*PM;

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Haltegriff 90°+Brausehalter 2100HG\*\*PM;  
Haltegriff 90°+Brausehalter 2101HG\*\*PM;  
Haltegriff 90°+Brausehalter 2102HG\*\*PM;  
Wandhaltegriff mit Senkrechtstütze 2110HG\*\*PM;  
Wandhaltegriff mit Senkrechtstütze 2111HG\*\*PM;  
Wandhaltegriff mit Senkrechtstütze 2120HG\*\*PM;  
Wandhaltegriff mit Senkrechtstütze 2121HG\*\*PM;  
Wandhaltegriff mit Senkrechtstütze 2130HG\*\*PM.

**1.1.5 Serial number:** Not available  
*N° Matricola:*

**1.1.6 Sample identification code:** 428283  
*Codice identificativo del campione:*

**1.2 AUXILIARY DEVICES**  
*DISPOSITIVI AUSILIARI*

Not applicable

**1.3 TEST CONFIGURATION**  
*CONFIGURAZIONE DI PROVA*

Not applicable

**1.4 DIAGNOSTIC SYSTEM**  
*SISTEMA DIAGNOSTICO*

Visual check.

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## 2 TEST LIST

ELENCO DELLE PROVE

Test Description	Reference document	Standardized	Differencies
<b>2.1 STATIC STRENGTH BY SAFETY GRIP SYSTEMS</b> <i>RESISTENZA STATICA AI SISTEMI DI PRESA DI SICUREZZA</i>	(ISO 17966:2016 clause 23.7.3.1)	Yes	None
<b>2.2 FATIGUE STRENGTH BY SAFETY GRIP SYSTEMS</b> <i>RESISTENZA ALLA FATICA PER SISTEMI DI PRESA DI SICUREZZA</i>	(ISO 17966:2016 clause 23.7.3.2)	Yes	None

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## 3 TEST EQUIPMENT USED

APPARECCHIATURE UTILIZZATE

Not operating.

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## 4 ENVIRONMENTAL CONDITIONS

CONDIZIONI AMBIENTALI

- |  |              |
|--|--------------|
| <b>4.1 ROOM TEMPERATURE</b><br><i>TEMPERATURA AMBIENTE</i> | 23° C ± 2° C |
| <b>4.2 RELATIVE HUMIDITY</b><br><i>UMIDITA' RELATIVA</i>   | 33 % ± 5 %   |

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## 5 MEASUREMENT UNCERTAINTY

*INCERTEZZA DI MISURA*

Not operating.

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## 6 SAMPLING PLAN

*PIANO DI CAMPIONAMENTO*

Sample selected by the customer.

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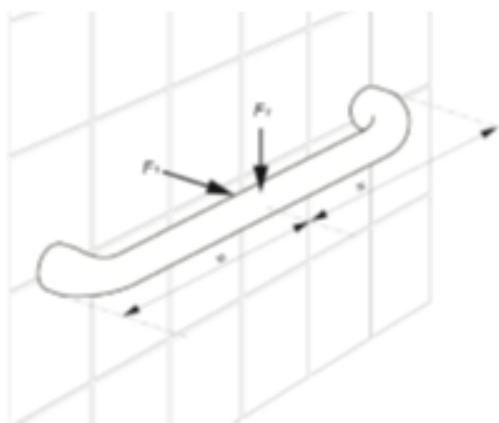
## 7 TEST AND/OR MEASUREMENT RESULTS

*RISULTATI DELLE PROVE E/O MISURE*

### 7.1 STATIC STRENGTH

*RESISTENZA STATICA*

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).



### 7.1.1 TEST RESULTS

*RISULTATI DI PROVA*

The sample does not present deformations or breakages.

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## 7.2 FATIGUE STRENGTH PROVA DI FATICA

The wall-fastened handrail is loaded vertically and horizontally with 40% of the test force calculated with the following formula:

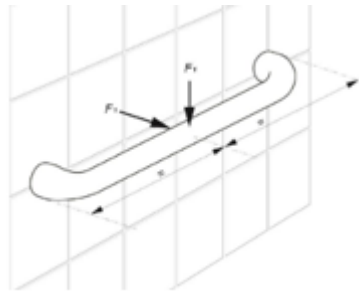
$$F = md \times 9,81$$

Md: max. user mass

Frequency: 30 cycles/min.

The test cycle (TC) shall be calculated according to the following formula.

$$TC = uTD \times 365 \times tDL$$



with: uTD typical uses per day

Activity type	Home care
Toilet activity	5
Shower/bath activity	2

tDL = 10 (designed life time, in years)

### 7.2.1 TEST RESULTS RISULTATI DI PROVA

The sample does not present deformations or breakages.

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## 8 REMARKS

NOTE

None.

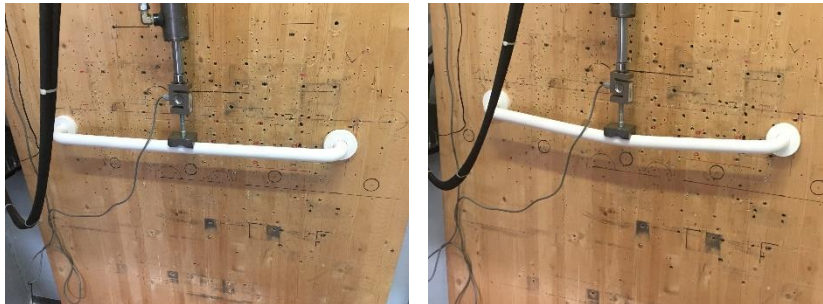
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## 9 APPENDIX

APPENDICE

### 9.1 PHOTO DOCUMENTATION

DOCUMENTAZIONE FOTOGRAFICA



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## 9.2 ATTACHMENTS ALLEGATI

None

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