



Italia

TEST REPORT RAPPORTO DI PROVA

TEST REPORT IN ACCORD TO CLIENT PROCEDURE

Test Report in accordo alla procedura cliente

Customer (Richiedente):

- Dept./Firm (Ente/Società): VILLES S.r.l.
- Mr./Mrs (Sig./Sig.ra.): Franco Villa
- Address (Indirizzo): Via Castoldi 6/8 - 20090 TREZZANO SUL NAVIGLIO

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

MES1357576B00TR

Test Report sent to:

Rapporto inviato a:

Franco Villa

Name and Signature of the test engineer:

Nome e Firma esecutore prova:

Ferro Simone

Name and Signature of the Technical reviewer:

Nome e Firma del Revisore tecnico:

Andrea Rotundo

Date of test samples receipt:

Data ricevimento campioni:

Test from the client

Date of test execution:

Data esecuzione prove:

From 18.09.2019 to 07.11.2019

Site of test execution (if different from the address in the footer):

Località esecuzione prove (se diversa dal piè pagina):

Villes S.r.l. – Via Castoldi 6/8 – 20090 Trezzano sul Naviglio

Witness to the test:

Presenti alle prove:

Franco Villa

The test results contained in this Test report relate to the tested samples only as received.

I risultati del presente rapporto di prova si riferiscono esclusivamente al campione sottoposto a prova così come ricevuto.

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.

I dati forniti dal cliente di cui il laboratorio declina la responsabilità verranno identificati con carattere sottolineato.

The data provided by the customer for which the laboratory declines the responsibility will be identified with an underlined character

Form: ITA_F_09.01E (Rev.22 – 16 July 2019)

Test report n.: MES1357576B00TR

Revision: 00

Document name: MES1357576B00TR_Art_6062_EN

Project handler:

Simone Ferro

Issue date: 07.11.2019

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Simone.ferro@tuv.it

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:** Art. 5669/S
Prodotto/materiale sottoposto a prova:
- 1.1.2 Description:** Sliding system with soft closing and soft opening.
Descrizione:
- 1.1.3 Level (Series product, prototype, etc.):** Series
Livello (Prodotto di serie, prototipo, ecc.):
- 1.1.4 Part number:** Art. 5669/S
Codice prodotto:
- 1.1.5 Serial number:** None
N° Matricola:
- 1.1.6 Sample identification code:** Test from the client.
Codice identificativo del campione:

1.2 AUXILIARY DEVICES

DISPOSITIVI AUSILIARI

None

1.3 TEST CONFIGURATION

CONFIGURAZIONE DI PROVA



Test configuration without load test.

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1.4 DIAGNOSTIC SYSTEM
SISTEMA DIAGNOSTICO

Visual Check

2 TEST LIST
ELENCO DELLE PROVE

Test Description	Reference document	Standardized	Differencies
2.1 FATIGUE TEST <i>Prova di Fatica</i>	Client procedure	/	/

3 TEST EQUIPMENT USED
APPARECCHIATURE UTILIZZATE

Description	Manufacturer	Model	Serial no./ID	Used in test n.:
Dinamometer	Sauter	FH 500	ZH17Y02251	2.1

4 ENVIRONMENTAL CONDITIONS
CONDIZIONI AMBIENTALI

- 4.1 ROOM TEMPERATURE** Not required
TEMPERATURA AMBIENTE
- 4.2 RELATIVE HUMIDITY** Not required
UMIDITA' RELATIVA
- 4.3 PRESSURE** Not required
PRESSIONE

5 MEASUREMENT UNCERTAINTY
INCERTEZZA DI MISURA

Measurement uncertainties was estimated as expanded uncertainty obtained multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Declared uncertainties are obtained with factor k=2 except if otherwise specified.

Measurement	Expanded uncertainty	Found in test n.:
Compression	± 1%	2.1
Strenght	± 1%	2.1

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6 SAMPLING PLAN

PIANO DI CAMPIONAMENTO

Sample selected by the customer.

7 TEST AND/OR MEASUREMENT RESULTS

RISULTATI DELLE PROVE E/O MISURE

7.1 TEST N.1 – FATIGUE TEST

PROVA N.1 – Prova di fatica

7.1.1 TEST PURPOSE

SCOPO DELLA PROVA

The purpose of this test is evaluate

7.1.2 SET-UP

PREPARAZIONE

Mechanical system for open and closed the door, with a 1-meter in-out run and 1 meter in return.

7.1.3 TEST DESCRIPTION

DESCRIZIONE DELLA PROVA

Fatigue test of 100000 opening and closing cycles at intervals of 50000 with 100 Kg.
Initial opening and closing test and after fatigue cycle to check the difference in strength to be applied for its functionality.

7.1.4 TEST RESULTS

RISULTATI DI PROVA

After testing sliding system with soft closing and soft opening maintains the initial functionality.

Initial forces are: 24.4 N

After 100.000 cycles, force of opening and closing is: 26.4 N

DIFFERENCE OF INITIAL OPENING AND CLOSING AT THE END OF THE TEST IS: 2 N

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8 REMARKS

NOTE

None

9 APPENDIX

APPENDICE

9.1 PHOTO DOCUMENTATION

DOCUMENTAZIONE FOTOGRAFICA



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9.2 ATTACHMENTS

ALLEGATI

None.

10 SUMMARY

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