MES Test Report Load Test PLASTICA ALTO SELE S.P.A.

Shelves Model: KRONOS/KRONOS+; HELIOS/HELIOS+; OCEANO/OCEANO+; KRIOS/KRIOS+; URANO/URANO+; TITANO/TITANO+.

In accordance with: Customer procedure

Prepared for: PLASTICA ALTO SELE S.P.A. Via G. Porzio, 4 Isola G1 Centro Direzionale I-80143 (NA)

MES1476971118A00TR

SIGNATURE			
NAME	JOB TITLE	RESPONSIBLE FOR EDITIN	G DATE
Fabio Murgia	Technical Reviewer	Authorised Signatory 2023/12	2/07
• •	val box have checked this document in line with the re- nts Test Report editing date. Test Report issue date co	•	
EXECUTIVE SUMM	IARY		
A sample of this pro	oduct was tested and found to be compliant	with Customer procedure for the tests detailed in	n section 1.3.

DISCLAIMER AND COPYRIGHT

The results of this Test Report refer only to the tested sample as received and tested in the sequence indicated, where prescribed. They are valid for the time and conditions of test, unless otherwise specified.

The integral reproduction of the present Test Report is allowed; the partial reproduction must be authorized in writing by the Laboratory. The result of functional test is based on what the Client declared, and it is not responsibility of the CAB.



Sede legale e amministrativa: Viale Fulvio Testi 280/6 20126 Milano - Italy

TÜV SÜD

Soggetta al controllo e al coordinamento di TÜV SÜD AG www.tuvsud.com/it-it

TUV Italia Srl Via Brandizzo 123 10088 Volpiano - Italy

TÜV®



Add value. Inspire trust.



Contents

1	Report Summary	2
1.1	Report Modification Record	2
1.2	Introduction	2
1.3	Brief Summary of Results	3
1.4	Customer Supplied Form	3
1.5	Product Information	
1.6	EUT Modification Record	
1.7	Test Location	
1.8	External Tests	4
1.9	Sampling Plan	4
2	Test Details	5
2.1	Static Load Test	5
3	Test Equipment Information	7
3.1	General Test Equipment Used	7
4	Incident Reports	8
5	Measurement Uncertainty	9



1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

In case of subsequent revisions, the current Test Report replaces the previous versions. The date below represents Test Report editing date. Test Report issue date corresponds with the digital signature affixing date.

Issue	Description of Change	Date of Editing
0	First Issue	2023/12/07

1.2 Introduction

Applicant	PLASTICA ALTO SELE S.P.A.
Manufacturer	PLASTICA ALTO SELE S.P.A.
Model Number(s)	KRONOS/KRONOS+; HELIOS/HELIOS+; OCEANO/OCEANO+; KRIOS/KRIOS+; URANO/URANO+; TITANO/TITANO+.
Manufacturer Declared Variant(s)	N/A
Serial Number(s)	N/A
Hardware Version(s)	N/A
Software Version(s)	N/A
Number of Samples Tested	6
Test Specification/Issue/Date	Customer specifications
Test Plan/Issue/Date	N/A
Date of Receipt of EUT	2023/09/26
Sample Identification Code	Storix ID: 760290
Start of Test	2023/10/03
Finish of Test	2023/10/31
Name of Engineer(s)	Luca Pitti – Matteo Bordet
Customer Witness(es) to test	None
Related Document(s)	None

E Revision: 29



1.3 **Brief Summary of Results**

A brief summary of the tests carried out in accordance with customer specification is shown below.

Section	Specification Clause	Test Description	Verdict	Comments/Base Standard
2.1	Customer procedure	Load Test	Pass	None

For performance criteria applied to give result below see paragraph 1.5.6

1.4 **Customer Supplied Form**

Test sequence performed according to the test plan shared with the customer. See email received on 2023/09/27 at 16:39 with object: "R: PLASTICA ALTO SELE" present in the project folder.

1.5 **Product Information**

1.5.1 **Technical Description**

The Equipments under test (EUT) were shelves.

The primary function of the EUTs is to storage.

MODEL	WIDTH [mm]	DEEP [mm]	HEIGHT (4 SHELVES) [mm]	HEIGHT (5 SHELVES) [mm]
KRONOS/KRONOS+	600	300	1430	1880
HELIOS/HELIOS+	800	400	1430	1880
OCEANO/OCEANO+	800	300	1430	1880
KRIOS/KRIOS+	900	600	1430	1880
URANO/URANO+	900	400	1430	1880
TITANO/TITANO+	1200	400	1430	1880
Material: PP: CaCO3				

Material: PP; CaCO3.

EUT Port/Cable Identification 1.5.2

N/A

1.5.3 **Test Configuration**

Samples tested based on the real installation position, in accordance with the instructions provided by the manufacturer.

The shelves were loaded with a static load as indicated in the table in point 2.1.4, the load was evenly distributed and maintained for 24 hours.



1.5.4 Mode(s) of Operation

Mode	Description
N/A	N/A

1.5.5 Monitoring of Performance

According to customer decision, a check has been performed by the Lab Engineer before and after the test campaign.

1.5.6 Performance Criteria

According to customer decision, after the test, the E.U.T. has been subjected to a visual inspection and no detachment of the parts has been observed.

The inspection has been carried out by the Lab Engineer who has observed the unit from all sides at a distance of 0,5m without using any kind of equipment.

The criteria by which the results are expressed are given in the client specification listed in paragraph 1.3 of this technical report.

1.6 EUT Modification Record

N/A

1.7 Test Location

TUV Italia conducted the following tests at our Test Laboratory of Volpiano (TO).

Test Name	Name of Engineer(s)	Test Accreditation Body
Static Load Test	Luca Pitti; Matteo Bordet.	None

Office address:

TUV Italia, Via Brandizzo 123, 10088 Volpiano (TO), Italy.

1.8 External Tests

None

1.9 Sampling Plan

TUV Italia does not carry out sampling and is not responsible for any sampling carried out by the customer.

Doc No: ITA_F_09.01E

Revision: 29



2 Test Details

- 2.1 Static Load Test
- 2.1.1 Specification Reference

Customer procedure

2.1.2 Equipment Under Test and Modification State

KRONOS/KRONOS+; HELIOS/HELIOS+; OCEANO/OCEANO+; KRIOS/KRIOS+; URANO/URANO+; TITANO/TITANO+.

2.1.3 Date of Test

From 2023/10/03 to 2023/10/31

2.1.4 Test Method

The test consists of loading the products with the load declared by the customer (see table below). The load must be equally distributed on all shelves.

All products must be fixed to the wall and the load must be maintained for 24 hours.

MODEL	LOAD FOR EACH SHELF [kg]
KRONOS/KRONOS+	45
OCEANO/OCEANO+	75
HELIOS/HELIOS+	85
URANO/URANO+	95
TITANO/TITANO+	130
KRIOS/KRIOS+	150

2.1.5 Environmental Conditions

Ambient Temperature	25,7°C
Relative Humidity	46,2%RH

2.1.6 Specification Limits

The product under test must not undergo damage that compromises its use. The evaluations of this test report are based only on the one viewed at the time of the test.

2.1.7 Test Results

Performance assessment of the EUT made during this test has observed, no malfunctioning, breaks or aesthetical issues have been detected during the test by visual inspection regarding all products under test.

MES1476971118A00TR 00

Doc No: ITA_F_09.01E



2.1.8 Test Location and Test Equipment Used

This test was carried out in TUV Italia laboratory, Via Brandizzo 123, 10088 Volpiano (TO), Italy

Device no.	Designation	Model	Manufacturer
CRN_237	Digital stopwatch	Delta E200 Ref: 245.1947-00	Hanhart
BIL_185	Weight scale 150 kg platform 400x400 mm	WSB-120WDL - ISC120D0A	Sama Italia
TIG_41	Thermo-hygrometer	HMP115	Vaisala Oyj FINAS n. K008

2.1.9 Operator

This test was carried out by Luca Pitti and Matteo Bordet.



3 Test Equipment Information

3.1 General Test Equipment Used

Device no.	Designation	Model	Manufacturer
CRN_237	Digital stopwatch	Delta E200 Ref: 245.1947-00	Hanhart
BIL_185	Weight scale 150 kg platform 400x400 mm	WSB-120WDL - ISC120D0A	Sama Italia
TIG_41	Thermo-hygrometer	HMP115	Vaisala Oyj FINAS n. K008

E Revision: 29



4 Incident Reports

No incidents reports were raised.

MES1476971118A00TR 00 Doc No: ITA_F_09.01E

E_09.01E Revision: 29



5 Measurement Uncertainty

Declared uncertainties are obtained with factor k=2 except if otherwise specified. For a 95% confidence level, the measurement uncertainties for defined systems are:

Unit of Measure	Measurement Uncertainty
Ambient temperature [°C]	2,3 °C
Relative humidity [%]	7,0 %
Weight scale [kg]	0,46 kg
Time [s]	1,16 s

Measurement uncertainty decision rule:

The decision rule "Binary statement for simple acceptance" according to ILAC-G8 will be applied." The level of risk to false accept and false reject items is described on ILAC-G8.

END of TEST REPORT