

Test Report

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NINE UNITED LIMITED
F15, NO.100 EAST YAN'AN ROAD, SHANGHAI, CHINA

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: TJHL2311009185FT, DATE: DEC.27, 2023.

The following sample(s) was/were submitted and identified by the client as:

Sample Description : PALISSADE CORD DINING BENCH
 Manufacture : TANGSHAN ZEAO METAL PRODUCTS CO., LTD
 Country of Origin : CHINA

Sample Receiving Date : NOV.29, 2023
 Testing Period : NOV.29, 2023 TO DEC.27, 2023
 Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
 Test Requested : PLEASE REFER TO THE RESULT SUMMARY.
 Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)
 Test Summary :

Test Requested	Conclusion
EN 581-1:2017-OUTDOOR FURNITURE-SEATING AND TABLES FOR CAMPING, DOMESTIC AND CONTRACT USE-PART 1. GENERAL SAFETY REQUIREMENTS	Pass
EN 581-2:2015+AC:2016-OUTDOOR FURNITURE-SEATING AND TABLE FOR CAMPING, DOMESTIC AND CONTRACT USE-MECHANICAL SAFETY REQUIREMENTS AND TEST METHODS FOR SEATING EXCLUDING CLAUSE 8	Pass
EN 16139:2013+AC:2013 FURNITURE – STRENGTH, DURABILITY AND SAFETY REQUIREMENT FOR NON-DOMESTIC SEATING EXCLUDING CLAUSE 7	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Michael Wen
Authorized Signatory



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Test Conducted:

EN 581-2:2015+AC:2016

Type of Furniture : Outdoor seating for domestic use - outdoor seating intended for private use in places use without public access.

Nos. of Specimen : 1 pc.

Use of the product : For Contract use

Test Result : Pass. Details shown as following table

Clause	Test Items	Result	Note
6	Safety, strength and durability requirements for loungers		
6.1	General	N/A	# 1
6.2	Stability, strength and durability	N/A	# 1
7	Safety, strength and durability requirements for other seating		
7.1	General	Pass	# 2
7.2	Stability, strength and durability	Pass	# 3&# 4
8	Information for use		
8.1	General	N/C	# 5
8.2	Marking for loungers	N/C	# 5

Table 1 EN 581-1:2017

Clause	Test Items	Result	Note
5	Safety requirements	---	---
5.1	General	Pass	---
5.2	Tubular components	Pass	---
5.3	Shear and squeeze points	---	---
5.3.1	Shear and squeeze points when erecting, adjusting and folding away	N/A	# 1
5.3.2	Shear and squeeze points under the influence of powered mechanisms	N/A	# 1
5.3.3	Shear and squeeze points during use	Pass	---



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Table 2 Test results of strength and durability requirements for other seating (Based on EN 1728:2012)

Clause	Test Items	Test parameters	Result
EN 1728: 2012, 6.4	Seat static load and back static load test	Specified seat load:2000 N; Specified backrest load:560 N; 10 Cycles	Pass
EN 1728: 2012, 6.5	Seat front edge static load	Specified force: 1300 N; 10 Cycles	Pass
EN 1728: 2012, 6.17	Combined Seat and back durability test	Specified seat load:1000 N; Specified backrest load:330 N; 50000 Cycles	Pass
EN 1728: 2012, 6.19	Durability test on seating with a multi-position back rest	/	N/A
EN 1728: 2012, 6.11	Arm rest static load test	Vertical specified force:900 N; 10 Cycles	Pass
EN 1728: 2012, 6.20	Arm rest durability test	Specified force: 400 N; 30000 Cycles	Pass
EN 1728: 2012, 6.15	Leg forward static load test	Seat load:1000N; Horizontal specified forces:400N; 10 Cycles	Pass
EN 1728: 2012, 6.16	Leg sideward static load test	Seat load:1000N; Horizontal specified forces:300N; 10 Cycles	Pass
EN 1728: 2012, 6.24	Seat impact test	Drop height:240 mm; 10 Cycles	Pass
EN 1728: 2012, 6.8	Foot rest static test	/	N/A

Table 3 EN 1022: 2005 Domestic furniture – seating – determination of stability

Clause	Test Items	Result	Note
6	Test Procedure and requirements, All seating: Experimental Method.		
6.2	Forwards Overbalancing , All Seating	Pass	---
6.3	Forwards overturning for seating with footrest	N/A	# 1
6.6	Rearwards Overbalancing ,All Seating With Backs	Pass	---
6.4	Sideways Overbalancing , All Seating Without Arms	N/A	# 1
6.5	Sideways Overbalancing , All Seating With Arms	Pass	---

- Notes :
- # 1- N/A means not applicable to this product design.
 - # 2- Test according to EN 581-1:2017 Test results see table 1.
 - # 3- Test results see table 2.
 - # 4- Test results see table 3.
 - # 5- N/C means not conducted as per client request.



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EN 16139:2013+AC:2013 Furniture – Strength, durability and safety requirement for non-domestic seating

Test condition : All the physical tests were carried out on 20°C±5°C condition.

Test level : Level L2

Nos. of Specimen : 1 pc.

Test Result : Pass. Details shown as following table

Clause	Test Items	Result	Note
4.1	General	Pass	---
4.2	Shear and squeeze points	---	---
4.2.1	Shear and squeeze points when setting up and folding	N/A	# 1
4.2.2	Shear and squeeze points under influence of powered mechanism	N/A	# 1
4.2.3	Shear and squeeze points during use	Pass	---
4.3	Stability	---	---
4.3.1	General	Pass	---
4.3.2	Swivelling chairs	N/A	# 1
4.3.3	Non swivelling chairs	Pass	# 2
4.4	Rolling resistance of the unloaded chair	N/A	# 1
4.5	Safety of the construction	Pass	# 3
5	Safety, strength and durability requirements	Pass	# 3
7	Information for use	N/C	# 4

Table 1 EN 1022:2005 Domestic furniture – seating – determination of stability

Clause	Test Items	Result	Note
6	Test Procedure and requirements, All seating: Experimental Method.		
6.2	Forwards Overbalancing , All Seating	Pass	---
6.3	Forwards overturning for seating with footrest	N/A	# 1
6.4	Sideways Overbalancing , All Seating Without Arms	N/A	# 1
6.5	Sideways Overbalancing , All Seating With Arms	Pass	---
6.6	Rearwards Overbalancing ,All Seating With Backs	Pass	---
7	Test Procedure and requirements for seating with variable. Geometry: Experimental method.		
7.3	Tilt chairs	N/A	# 1
7.4	Rocking chairs	N/A	# 1
7.5	Reclining chair with footrest	N/A	# 1
7.6	Footrest test	N/A	# 1
7.7	Reclining chairs without footrest	N/A	# 1



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Table 2 EN 1728:2012 Furniture - Seating - Test methods for the determination of strength and durability

Clause	Test Items	Test parameters	Result
6.4	Seat static load and back static load test	Seat force:2000 N; Backrest force:700 N; 10 times	Pass
6.5	Seat front edge static load	Force:1600 N; 10 times	Pass
6.6	Vertical static load on back	Force:900 N; Seat load:1800 N 10 times	Pass
6.8	Foot rest static load test	/	N/A
6.9	Leg rest static load test	/	N/A
6.10	Arm sideways static load test	Force:900 N; 10 times	Pass
6.11	Arm downwards static load test	Force:900 N; 5 times	Pass
6.13.1	Seating which may be moved when occupied	/	N/A
6.13.2	Stacking seating	/	N/A
6.17	Seat and back durability test	200000 cycles; Seat:1000 N; Back:300 N	Pass
6.18	Seat front edge durability test	100000 cycles; Force:800 N	Pass
6.20	Arm durability test	60000 cycles; Force:400 N	Pass
6.21	Foot rest durability test	/	N/A
6.15	Leg forward static load test	Force:620 N; Seat load:1800 N; 10 times	Pass
6.16	Leg sideways static load test	Force:760 N; Seat load:1800 N; 10 times	Pass
6.24	Seat impact test	Drop height:300 mm; 10 times	Pass
6.25	Back impact test	Height of fall: 330 mm/48° 10 times	Pass
6.26	Arm impact test	Height of fall: 330 mm/48° 10 times	Pass
6.27.1	Drop test (multiple seating)	Drop height:450 mm; 2x5 times	Pass
6.14	Auxiliary writing surface static load test	/	N/A
6.22	Auxiliary writing surface durability test	/	N/A

- Notes :
- # 1- N/A means not applicable for this product design.
 - # 2- Test according to EN 1022:2005, test results see table 1.
 - # 3- Test according to EN 1728: 2012, test results see table 2.
 - # 4- N/C means not conduct as per client request.



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3. The report revised the sample description.

SAMPLE INFORMATION AND PICTURES

Overall Dimensions: 1290 mm x 710 mm x 795 mm

Weight: 19.5 kg

Sample as Received



View 1



View 2



View 3



View 4

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End of Report



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