

TEST REPORT

APPLICANT : ZHEJIANG JUNYI HOUSEHOLD CO.,LTD.

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PROV.,CHINA,323700

SAMPLE DESCRIPTION : CHAIRS

ITEM NO. : JC1504/F016

COUNTRY OF ORIGIN : China

SAMPLE RECEIVED DATE : 10-Sep-2019

FURTHER INFORMATION DATE : 15-Oct-2019

TURN AROUND TIME : 10-Sep-2019 to 16-Oct-2019

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Furniture — Strength, durability and safety— Requirements for domestic seating	EN 12520: 2015	Pass (Except Clause 6)
Outdoor furniture -- Seating and tables for camping, domestic and contract use -- Part 1. General safety requirements	EN 581-1:2017	Pass
Outdoor furniture -- Seating and tables for camping, domestic and contract use -- Part2: Mechanical safety requirements and test methods for seating	EN 581-2:2015+AC : 2016	Pass (Except Clause 8.1)

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.hz@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to china.complaint@eurofins.com and referring to this report number.

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of

Eurofins Product Testing Service (Shanghai) Co., Ltd Hangzhou Branch



Jack Ma

Lab Manager of HZ Hardline Laboratory

SAMPLE PHOTOS



EFHZ19090122-CG-01

TO BE CONTINUED

TEST RESULT

Test Conducted: For sample A

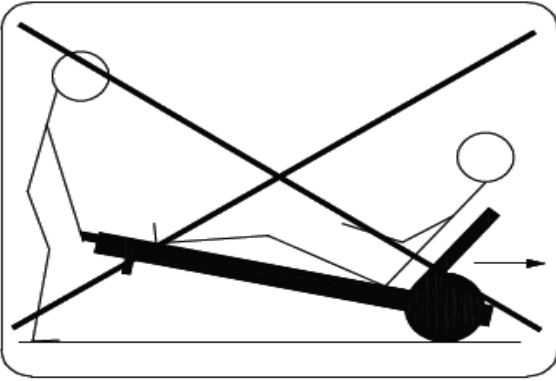
Outdoor furniture -- Seating and tables for camping, domestic and contract use -- Part2: Mechanical safety requirements and test methods for seating (EN 581-2:2015+AC: 2016)

- 1) Test level: Domestic
- 2) Height of the seating: 330mm
- 3) Number of tested sample: 1 Piece
- 4) Test result: details as following tables

Clause	Test Items / Requirement	Result
6	Safety, strength and durability requirements for loungers	
6.1	General Before and after the strength, durability and stability tests are carried out, the EN 581-1 requirements shall be fulfilled.	N/A
6.2	Stability, strength and durability	
6.2.1	Test sequence and parameters The lounger shall be tested following the order listed in Table 1.	N/A
6.2.2	Requirements The safety, strength and durability requirements are fulfilled after testing in accordance with Table 1 when: a) there are no fractures of any joint, member or component, b) there is no loosening of joints intended to be rigid, c) the lounger fulfils its function after removal of the test loads, d) the product shall not overturn when subjected to the stability tests.	N/A
7	Safety, strength and durability requirements for other seating	
7.1	General Before and after the strength, durability and stability tests are carried out, the requirements of EN 581-1 shall be fulfilled.	Pass (see Appendix 1)
7.2	Stability, strength and durability	
7.2.1	Test sequence and parameters The seating shall be tested for strength, durability and stability following the order listed in Table 2.	see Appendix 3
7.2.2	Requirements The safety, strength and durability requirements are fulfilled after testing in accordance with Table 2 when: a) there are no fractures of any joint, member or component, b) there is no loosening of joints intended to be rigid, c) the seating fulfils its function after removal of the test loads, d) the seating fulfils the safety requirements, e) the product shall not overturn when subjected to the stability tests.	Pass (see Appendix 3)
8	Information for use	

TO BE CONTINUED

TEST RESULT

Clause	Test Items / Requirement	Result
8.1	General Instruction for use shall be provided in the language(s) of the country where the seating are sold. These instructions shall be headed "IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY" in letters no less than 5 mm high, unless if the following information are permanently marked on the product. It shall contain at least the following details: a) name and address of the manufacturer/supplier/retailer; b) conditions for use of the product (domestic, camping or contract). If applicable: c) assembly instructions; d) instructions for the care and maintenance of the seating; e) if the seating is fitted with seat height adjustments with energy accumulators, an additional note is required pointing out that only trained personnel may replace or repair seat height adjustment components with energy accumulators.	N/C
8.2	Marking for loungers Loungers equipped with wheels, but not intended to be lifted and moved with a person in it shall be permanently marked with the pictogram as shown in Figure 2. The smallest dimension of the pictogram shall not be less than 25 mm.  Figure 2 — Pictogram	N/A

Appendix 1: Outdoor furniture -- Seating and tables for camping, domestic and contract use -- Part 1.

General safety requirements (EN 581-1:2017):

Clause	Test Method/Requirement	Result
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	Pass
5.3.2	Shear and squeeze points under the influence of powered mechanisms	N/A
5.3.3	Shear and squeeze points during use	Pass

TO BE CONTINUED

TEST RESULT

Appendix 2 Test results of loungers (according to EN 581-2:2015+AC : 2016, EN 1022:2005 determination of stability and EN1728:2012 Furniture –seating-test methods for the determination of strength and durability)

Clause	Test Items/ Requirement	Result
Table 1 — Test sequence and test parameters for loungers		
1	EN 1728:2012, 8.2 Seat and back static load test	N/A
2	EN 1728:2012, 8.3 Additional seat and leg rest static load test	N/A
3	EN 1728:2012, 8.4.1 Seat and back durability test	N/A
4	EN 1728:2012, 8.4.2 Additional seat durability test	N/A
5	EN 1728:2012, 8.5 Durability test on back rest mechanism	N/A
6	EN 1728:2012, 8.6 Arm rest static load test	N/A
7	EN 1728:2012, 8.7 Arm rest durability test	N/A
8	EN 1728:2012, 8.8 Impact test	N/A
9	EN 1728:2012, 8.9 Lifting test for mobile loungers	N/A
10	A.1.2 Forward stability	N/A
11	EN 1022:2005, Rearward stability 6.6 for upright position and 7.5 for most reclined position	N/A
12	A.1.1 Sideways stability	N/A

Appendix 3 Test results of seating (according to EN1728:2012 Domestic furniture –seating-test methods for the determination of strength and durability and EN 1022:2005 determination of stability)

Clause	Test Items/ Requirement	Result
Table 2 — Test sequence and test parameters for other seating		
1	EN 1728:2012, 6.4 Seat static load and back static load test	Pass
2	EN 1728:2012, 6.5 Seat front edge static load	Pass
3	EN 1728:2012, 6.17 combined Seat and back durability test	Pass
4	EN 1728:2012, 6.19 Durability test on seating with a multi-position back rest	N/A
5	EN 1728:2012, 6.11 Arm rest static load test	Pass
6	EN 1728:2012, 6.20 Arm rest durability test	Pass
7	EN 1728:2012, 6.15 Leg forward static load test	Pass
8	EN 1728:2012, 6.16 Leg sideways static load test	Pass
9	EN 1728:2012, 6.24 Seat impact test	Pass
10	EN 1728:2012, 6.8 Foot rest static test	N/A
11	EN 1022:2005, Forward stability	Pass
12	EN 1022:2005, Rearward stability	Pass
13	EN 1022:2005, Sideways stability	Pass

Note:

N/A=Not applicable;

N/C=Not conducted as per client's request.

TO BE CONTINUED

TEST RESULT

Test Conducted: For sample D

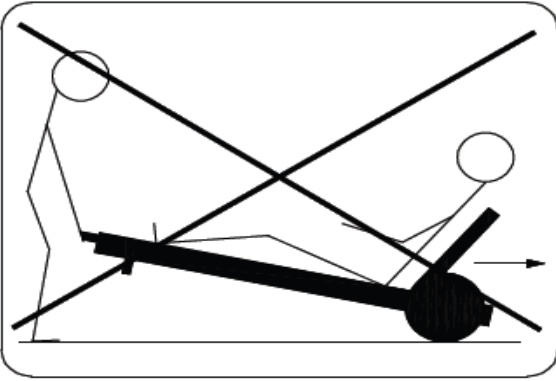
Outdoor furniture -- Seating and tables for camping, domestic and contract use -- Part2: Mechanical safety requirements and test methods for seating (EN 581-2:2015+AC: 2016)

- 4) Test level: Domestic
- 5) Height of the seating: 440mm
- 6) Number of tested sample: 1 Piece
- 4) Test result: details as following tables

Clause	Test Items / Requirement	Result
6	Safety, strength and durability requirements for loungers	
6.1	General Before and after the strength, durability and stability tests are carried out, the EN 581-1 requirements shall be fulfilled.	N/A
6.2	Stability, strength and durability	
6.2.1	Test sequence and parameters The lounge shall be tested following the order listed in Table 1.	N/A
6.2.2	Requirements The safety, strength and durability requirements are fulfilled after testing in accordance with Table 1 when: a) there are no fractures of any joint, member or component, b) there is no loosening of joints intended to be rigid, c) the lounge fulfils its function after removal of the test loads, d) the product shall not overturn when subjected to the stability tests.	N/A
7	Safety, strength and durability requirements for other seating	
7.1	General Before and after the strength, durability and stability tests are carried out, the requirements of EN 581-1 shall be fulfilled.	Pass (see Appendix 1)
7.2	Stability, strength and durability	
7.2.1	Test sequence and parameters The seating shall be tested for strength, durability and stability following the order listed in Table 2.	see Appendix 3
7.2.2	Requirements The safety, strength and durability requirements are fulfilled after testing in accordance with Table 2 when: a) there are no fractures of any joint, member or component, b) there is no loosening of joints intended to be rigid, c) the seating fulfils its function after removal of the test loads, d) the seating fulfils the safety requirements, e) the product shall not overturn when subjected to the stability tests.	Pass (see Appendix 3)
8	Information for use	

TO BE CONTINUED

TEST RESULT

Clause	Test Items / Requirement	Result
8.1	General Instruction for use shall be provided in the language(s) of the country where the seating are sold. These instructions shall be headed "IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY" in letters no less than 5 mm high, unless if the following information are permanently marked on the product. It shall contain at least the following details: a) name and address of the manufacturer/supplier/retailer; b) conditions for use of the product (domestic, camping or contract). If applicable: c) assembly instructions; d) instructions for the care and maintenance of the seating; e) if the seating is fitted with seat height adjustments with energy accumulators, an additional note is required pointing out that only trained personnel may replace or repair seat height adjustment components with energy accumulators.	N/C
8.2	Marking for loungers Loungers equipped with wheels, but not intended to be lifted and moved with a person in it shall be permanently marked with the pictogram as shown in Figure 2. The smallest dimension of the pictogram shall not be less than 25 mm.  Figure 2 — Pictogram	N/A

Appendix 1: Outdoor furniture -- Seating and tables for camping, domestic and contract use -- Part 1.

General safety requirements (EN 581-1:2017):

Clause	Test Method/Requirement	Result
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	Pass
5.3.2	Shear and squeeze points under the influence of powered mechanisms	N/A
5.3.3	Shear and squeeze points during use	Pass

TO BE CONTINUED

TEST RESULT

Appendix 2 Test results of loungers (according to EN 581-2:2015+AC : 2016, EN 1022:2005 determination of stability and EN1728:2012 Furniture –seating-test methods for the determination of strength and durability)

Clause	Test Items/ Requirement	Result
Table 1 — Test sequence and test parameters for loungers		
1	EN 1728:2012, 8.2 Seat and back static load test	N/A
2	EN 1728:2012, 8.3 Additional seat and leg rest static load test	N/A
3	EN 1728:2012, 8.4.1 Seat and back durability test	N/A
4	EN 1728:2012, 8.4.2 Additional seat durability test	N/A
5	EN 1728:2012, 8.5 Durability test on back rest mechanism	N/A
6	EN 1728:2012, 8.6 Arm rest static load test	N/A
7	EN 1728:2012, 8.7 Arm rest durability test	N/A
8	EN 1728:2012, 8.8 Impact test	N/A
9	EN 1728:2012, 8.9 Lifting test for mobile loungers	N/A
10	A.1.2 Forward stability	N/A
11	EN 1022:2005, Rearward stability 6.6 for upright position and 7.5 for most reclined position	N/A
12	A.1.1 Sideways stability	N/A

Appendix 3 Test results of seating (according to EN1728:2012 Domestic furniture –seating-test methods for the determination of strength and durability and EN 1022:2005 determination of stability)

Clause	Test Items/ Requirement	Result
Table 2 — Test sequence and test parameters for other seating		
1	EN 1728:2012, 6.4 Seat static load and back static load test	Pass
2	EN 1728:2012, 6.5 Seat front edge static load	Pass
3	EN 1728:2012, 6.17 combined Seat and back durability test	Pass
4	EN 1728:2012, 6.19 Durability test on seating with a multi-position back rest	N/A
5	EN 1728:2012, 6.11 Arm rest static load test	N/A
6	EN 1728:2012, 6.20 Arm rest durability test	N/A
7	EN 1728:2012, 6.15 Leg forward static load test	Pass
8	EN 1728:2012, 6.16 Leg sideways static load test	Pass
9	EN 1728:2012, 6.24 Seat impact test	Pass
10	EN 1728:2012, 6.8 Foot rest static test	N/A
11	EN 1022:2005, Forward stability	Pass
12	EN 1022:2005, Rearward stability	Pass
13	EN 1022:2005, Sideways stability	Pass

Note:

N/A=Not applicable;

N/C=Not conducted as per client's request.

TO BE CONTINUED

TEST RESULT

Test Conducted: For sample B

Furniture — Strength, durability and safety— Requirements for domestic seating (EN 12520: 2015)

1). Height of seat: 440 mm

2). Number of tested sample: 1piece

3) Test result: details as following tables

Clause	Test Items /Requirement	Rating
5	Constructional requirements	
5.1	General requirements	Pass
5.2	Shear and squeeze points	Pass
5.2.1	Shear and squeeze points when setting up and folding	Pass
5.2.2	Shear and squeeze points under influence of powered mechanisms	N/A
5.2.3	Shear and squeeze points during use	Pass
5.3	Stability The seating shall fulfil the relevant requirements of EN 1022.	Pass (See Appendix 1)
5.4	Strength and durability	
5.4.1	General Seating shall be tested for strength and durability according to and in the order given in Table 1 and in accordance with the test conditions contained in EN 1728:2012	See Table 1
5.4.2	Strength and durability requirements The strength and durability requirements are fulfilled when during and after testing in accordance with Table 1: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) seating fulfils its functions after removal of the test loads; d) seating fulfils the stability requirements	Pass (See Table 1)
Table 1 — Test sequence and test parameters		
Test No. 1	EN 1728:2012, 6.4, Seat static load and back static load test	Pass
Test No. 2	EN 1728:2012, 6.5, Seat front edge static load test	Pass
Test No. 3	EN 1728:2012, 6.8, Foot rest static load test	N/A
Test No. 4	EN 1728:2012, 6.10, Arm rest sideways static load test	N/A
Test No. 5	EN 1728:2012, 6.11, Arm rest downwards static load test	N/A
Test No. 6	EN 1728:2012, 6.17, Combined seat and back durability test	Pass
Test No. 7	EN 1728:2012, 6.18, Seat front edge durability test	Pass
Test No. 8	EN 1728:2012, 6.20, Arm rest durability test	N/A
Test No. 9	EN 1728:2012, 6.15, Leg forward static load test	Pass
Test No. 10	EN 1728:2012, 6.16, Leg sideways static load test	Pass
Test No. 11	EN 1728:2012, 6.24, Seat impact test	Pass
Test No. 12	EN 1728:2012, 6.28, Backward fall test	Pass

TEST RESULT

Clause	Test Items /Requirement	Rating
Test No. 13	EN 1728:2012, 6.25, Back impact test	N/A
6	Information for use	N/C

Appendix1. Furniture-Seating-Determination of stability (EN 1022:2018)

Clause	Test Method / Requirements	Rating
7.1	General The stability tests defined in Clause 6 are not applicable to seating which has both the height of the seat loading point(6.4)< 200mm and a mass <5 kg , Position the seating on the floor(5.3) with its components as specified in Table 1	
7.2	Requirements When tested according to 7.3 and 7.4, the seating shall not overturn. Where loads are not specified in other standards the requirements contained in Table B.1 shall be used	Pass
7.3	Test procedures, all seating	Pass
7.3.1	Forwards overturning	Pass
7.3.2	Forwards overturning for seating with foot rest	N/A
7.3.3	Corner stability test	Pass
7.3.4	Sideways overturning, all seating without arm rests	Pass
7.3.5	Sideways overturning, all other seating	N/A
7.3.6	Rearwards overturning all seating with backrests	Pass
7.4	Additional test procedures for seating with reclining back rests	N/A
7.4.1	General In addition to the tests in 7.3, seating with reclining back rests shall be subjected to the tests for tilting or reclining, as specified below provided their geometry falls within the reclining angle ranges defined for the appropriate tests Seating with back rest permanently reclined which fall within the reclining angle ranges for reclining chairs, shall be test as reclining chairs, The test shall be tested as reclining chairs	N/A
7.4.2	Tilting seating	N/A
7.4.3	Reclining seating with leg rest	N/A
7.4.4	Reclining seating without leg rest	N/A
7.4.5	Rearwards stability test for rocking chairs	N/A
8	Loungers	N/A
8.1	General The stability tests defined in Clause 8 are not applicable to loungers which has both the height of the seat loading point(6.4)< 200mm and a mass <5 kg , the height shall be determined by measuring from the floor to the upper surface of the seating area at the geometrical center of the lounge loaded with 600N applied vertically downward using the loading pad Position the lounge on the floor(5.3) with its components as specified in Table 3	N/A
8.2	Requirements When tested according to 8.3, the seating shall not overturn. Where loads are not specified in other standards the requirements contained in Table B.2 shall be used	N/A

TEST RESULT

Clause	Test Method / Requirements	Rating
8.3	Test procedures	
8.3.1	Forwards overturning	N/A
8.3.2	Sideways overturning	N/A

Note:

N/A=Not applicable;

N/C=Not conducted as per client's request

Test Conducted: For sample C
Furniture — Strength, durability and safety— Requirements for domestic seating (EN 12520: 2015)

1). Height of seat: 330 mm

2). Number of tested sample: 1piece

3) Test result: details as following tables

Clause	Test Items /Requirement	Rating
5	Constructional requirements	
5.1	General requirements	Pass
5.2	Shear and squeeze points	Pass
5.2.1	Shear and squeeze points when setting up and folding	Pass
5.2.2	Shear and squeeze points under influence of powered mechanisms	N/A
5.2.3	Shear and squeeze points during use	Pass
5.3	Stability The seating shall fulfil the relevant requirements of EN 1022.	Pass (See Appendix 1)
5.4	Strength and durability	
5.4.1	General Seating shall be tested for strength and durability according to and in the order given in Table 1 and in accordance with the test conditions contained in EN 1728:2012	See Table 1
5.4.2	Strength and durability requirements The strength and durability requirements are fulfilled when during and after testing in accordance with Table 1: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) seating fulfils its functions after removal of the test loads; d) seating fulfils the stability requirements	Pass (See Table 1)
Table 1 — Test sequence and test parameters		
Test No. 1	EN 1728:2012, 6.4, Seat static load and back static load test	Pass
Test No. 2	EN 1728:2012, 6.5, Seat front edge static load test	Pass
Test No. 3	EN 1728:2012, 6.8, Foot rest static load test	N/A
Test No. 4	EN 1728:2012, 6.10, Arm rest sideways static load test	N/A

TEST RESULT

Clause	Test Items /Requirement	Rating
Test No. 5	EN 1728:2012, 6.11, Arm rest downwards static load test	N/A
Test No. 6	EN 1728:2012, 6.17, Combined seat and back durability test	Pass
Test No. 7	EN 1728:2012, 6.18, Seat front edge durability test	Pass
Test No. 8	EN 1728:2012, 6.20, Arm rest durability test	N/A
Test No. 9	EN 1728:2012, 6.15, Leg forward static load test	Pass
Test No. 10	EN 1728:2012, 6.16, Leg sideways static load test	Pass
Test No. 11	EN 1728:2012, 6.24, Seat impact test	Pass
Test No. 12	EN 1728:2012, 6.28, Backward fall test	Pass
Test No. 13	EN 1728:2012, 6.25, Back impact test	N/A
6	Information for use	N/C

Appendix1. Furniture-Seating-Determination of stability (EN 1022:2018)

Clause	Test Method / Requirements	Rating
7.1	General The stability tests defined in Clause 6 are not applicable to seating which has both the height of the seat loading point(6.4)< 200mm and a mass <5 kg , Position the seating on the floor(5.3) with its components as specified in Table 1	
7.2	Requirements When tested according to 7.3 and 7.4, the seating shall not overturn. Where loads are not specified in other standards the requirements contained in Table B.1 shall be used	Pass
7.3	Test procedures, all seating	Pass
7.3.1	Forwards overturning	Pass
7.3.2	Forwards overturning for seating with foot rest	N/A
7.3.3	Corner stability test	N/A
7.3.4	Sideways overturning, all seating without arm rests	N/A
7.3.5	Sideways overturning, all other seating	Pass
7.3.6	Rearwards overturning all seating with backrests	Pass
7.4	Additional test procedures for seating with reclining back rests	Pass
7.4.1	General In addition to the tests in 7.3, seating with reclining back rests shall be subjected to the tests for tilting or reclining, as specified below provided their geometry falls within the reclining angle ranges defined for the appropriate tests Seating with back rest permanently reclined which fall within the reclining angle ranges for reclining chairs, shall be test as reclining chairs, The test shall be tested as reclining chairs	N/A
7.4.2	Tilting seating	N/A
7.4.3	Reclining seating with leg rest	N/A
7.4.4	Reclining seating without leg rest	N/A
7.4.5	Rearwards stability test for rocking chairs	N/A
8	Loungers	N/A

TEST RESULT

Clause	Test Method / Requirements	Rating
8.1	General The stability tests defined in Clause 8 are not applicable to loungers which has both the height of the seat loading point(6.4)< 200mm and a mass <5 kg , the height shall be determined by measuring from the floor to the upper surface of the seating area at the geometrical center of the lounger loaded with 600N applied vertically downward suing the loading pad Position the lounger on the floor(5.3) with its components as specified in Table 3	N/A
8.2	Requirements When tested according to 8.3, the seating shall not overturn. Where loads are not specified in other standards the requirements contained in Table B.2 shall be used	N/A
8.3	Test procedures	
8.3.1	Forwards overturning	N/A
8.3.2	Sideways overturning	N/A

Note:

N/A=Not applicable;

N/C=Not conducted as per client's request

***END OF THE REPORT