

DOREL HOME FURNISHINGS EUROPE LTD

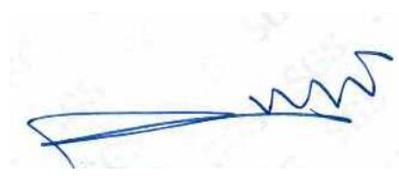
ALPHASON HOUSE, 244 SWAN LANE, HINDLEY GREEN, WIGAN WN2 4EY, UNITED KINGDOM

The following sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. Results apply to the sample as received.

Sample Description	COSCO SERENE ADJUSTABLE SUN LOUNGERS 2PK BROWN
Item / Ref No.	88539DBT2EUK
Buyer Name	DOREL HOME FURNISHINGS EUROPE LTD
Supplier Name	JIWEI LEISURE PRODUCTS CO LTD
Manufacturer Name	JIWEI LEISURE PRODUCTS CO LTD
Country of Origin	CHINA
Country of Destination	UK
Sample Receiving Date	NOV 06, 2020
Test Performing Date	NOV 06, 2020 TO NOV 18, 2020

Test Result Summary	
Test(s) Requested	Result(s)
BS EN 581-1:2017	PASS
BS EN 581-2:2015/AC:2016 (Domestic use, for loungers) Excluding Clause 8 information for use. As client's requirement, stability test was tested in accordance with BS EN 1022:2018	PASS
Remark:	
1. This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.	
2. For further details, please refer to the following page(s).	

Signed for and on behalf of
SGS-CSTC Co., Ltd. Anji Branch



scan to see the report



AJHL2011500798FT

David Fan
Approved Signatory



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Test Conducted: BS EN 581-2:2015/AC:2016 Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 2: Mechanical safety requirements and test methods for seating (for loungers)

Test Result:

Test Item	Test Method & Test Requirement	Test Result
Safety, strength and durability requirements for loungers (BS EN 581-2:2015/AC:2016, 6)		/
General (BS EN 581-2:2015/AC:2016, 6.1) Before and after the strength, durability and stability tests are carried out, the requirements of BS EN 581-1 shall be fulfilled.		
General (BS EN 581-1:2017, 5.1)	In order to avoid physical injury when the product is in its intended position of use, all edges and corners shall be rounded, chamfered or otherwise protected. This applies to: — Seating: Edges of the seat, back rest and arm rests and any part of the bottom surface of the seat at a distance less than 120 mm from any edge, where a finger can commonly access. All other parts shall be free from burrs, sharp edges and sharp points. Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. It shall not be possible for any load bearing part of the furniture to come loose unintentionally. All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.	PASS
Tubular components (BS EN 581-1:2017, 5.2)	There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.	PASS
Shear and squeeze points when erecting, adjusting and folding away (BS EN 581-1:2017, 5.3.1)	Unless 5.3.2 or 5.3.3 are applicable, shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	PASS
Shear and squeeze points under the influence of powered mechanisms (BS EN 581-1:2017, 5.3.2)	There shall be no accessible shear and squeeze points created by parts of the furniture operated by powered mechanisms, e.g. mechanical springs and gas lifts.	NA

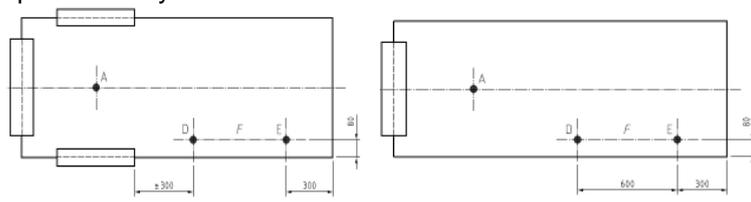


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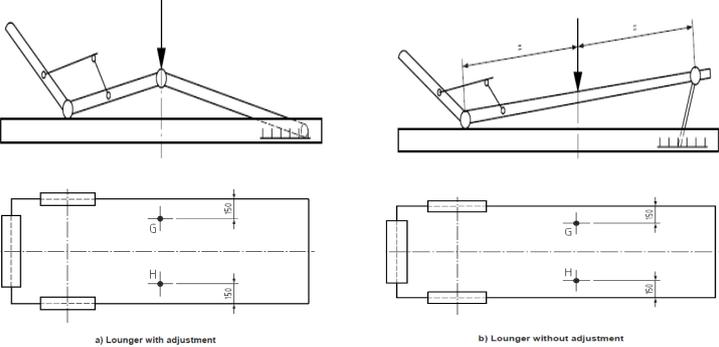
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Test Item	Test Method & Test Requirement	Test Result
<p>Shear and squeeze points during use (BS EN 581-1:2017, 5.3.3)</p>	<p>There shall be no accessible shear and squeeze points created by loads applied during normal use. Shear and squeeze points are not acceptable if there is a risk of injury created by the weight of the user during normal movements and actions, e.g. attempting to move the seating by lifting the seat or by adjusting the backrest. For loungers, the loads applied during normal use are the loads used for the following mechanical tests in Table 1 of BS EN 581-2:2015: — Test 2: Additional seat and leg rest static load; — Test 3: Seat and back durability; — Test 4: Additional seat durability; — Test 5: Durability on back rest mechanism.</p>	<p>PASS</p>
<p>Stability, strength and durability (BS EN 581-2:2015/AC:2016, 6.2) 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.</p>		
<p>Seat and back static load test (BS EN 1728:2012, 8.2)</p>	<p>For seating without a back rest, or seat and back are of one piece of flexible material (e.g. textile), only seat force(s) shall be applied. Apply specified seat force of 1600 N at the seat loading position. Apply specified back force of 410 N at back loading position or at 100 mm below the top of the back. When the back inclination θ is $\leq 55^\circ$ & $< 70^\circ$ to horizontal: Seat force F_1 (N) = Specified seat force x Sin θ Back force F_2 (N) = $(\theta/60^\circ - 0.1666)$ x Specified seat force x Cos θ When the back inclination θ is $< 55^\circ$ to horizontal: Seat force F_1 (N) = Specified seat force x 0.75 Back force F_2 (N) = Specified seat force x 0.75 x Cos θ Repeat the operation for 10 cycles, 10s each cycle. Apply additional operation 1 cycle for 30 min. If the item tends to overturn, reduce F_2 (min. 360N) to prevent rearwards overturning.</p>	<p>PASS</p>
<p>Additional seat and leg rest static load test (BS EN 1728:2012, 8.3)</p>	<p>Load a seat load of 750 N at the seat loading point. Apply the force of 900 N at the most adverse position between point D and E. Apply a sufficient load to the opposite side of to the most adverse load position to prevent overturning if the item tends to overturn. Repeat the operation for 10 cycles, 10s each cycle. Apply additional operation 1 cycle for 30 min.</p>  <p>a) lounger with arm rest b) lounger without arm rest</p>	<p>PASS</p>



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Test Item	Test Method & Test Requirement	Test Result
Seat and back durability test (BS EN 1728:2012, 8.4.1)	For seating without a back rest, or seat and back are of one piece of flexible material (e.g. textile), only seat force shall be applied. Apply specified seat force of 1000N at the seat loading position. Apply specified back force of 333N at back loading position or at 100 mm below the top of the back. When the back inclination θ is $\leq 55^\circ$ & $< 70^\circ$ to horizontal: Seat force F_3 (N) = $1000 \times \sin \theta$ Back force F_4 (N) = $(\theta/60^\circ - 0.1666) \times 1000 \times \cos \theta$ When the back inclination θ is $< 55^\circ$ to horizontal: Seat force F_3 (N) = 1000×0.75 Back force F_4 (N) = $1000 \times 0.75 \times \cos \theta$ Repeat the operation for 25000 cycles. If the item tends to overturn, reduce F_4 (min. 300N) to prevent rearwards overturning.	PASS
Additional seat durability test (BS EN 1728:2012, 8.4.2)	Apply the vertical seat durability load of 1000N alternately at points G and H. Repeat the operation for 10000 cycles. 	PASS
Durability test on back rest mechanism (BS EN 1728:2012, 8.5)	Only apply to seating with three or more manually adjustable reclined positions of the back rest. Load seat loading point with 1000 N. With the back rest in the most adverse position or in the mid position, apply rearwards alternating forces of 250N perpendicularly to the back rest at the points 100 mm above the back loading point and 50 mm from the right and left outer edges of the back rest. Repeat the operation for 10000 cycles.	PASS
Arm rest static load test (BS EN 1728:2012, 8.6)	Apply vertical force of 700N to both arm rests simultaneously at the points along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure. Repeat the operation for 10 cycles, 10s each cycle.	PASS
Arm rest durability test (BS EN 1728:2012, 8.7)	Apply the force of 400 N simultaneously to both arm rests at the point most likely to cause failure, but not less than 100 mm from the front or rear edge of the arm rest length and through the centre of the width of the arm rest, but not more than 100 mm from the inner edge of the arm rest. Repeat the operation for 10000cycles.	PASS



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Test Item	Test Method & Test Requirement	Test Result
Impact test (BS EN 1728:2012, 8.8)	<p>Allow the seat impactor to fall freely from a height of 180mm onto the application points. Apply the operation for 10 cycles.</p> <p>The application points shall be:</p> <ul style="list-style-type: none"> – the most adverse point on the seat-leg rest section, – 150 mm in from the edge of the lounger, and, – on the end support, 150 mm from any edge of the lounger on the same side of the lounger as the first impact position. <p>a) Lounger with adjustment b) Lounger without adjustment</p>	PASS
Lifting test for mobile loungers (BS EN 1728:2012, 8.9)	<p>This test is only applicable to mobile loungers that are designed to be moved whilst an occupant is seated. Apply the seat load of 1000 N at the seat loading point. Lift the foot end of the lounger up to a height so that only the wheels are in contact with the floor surface. Repeat the operation for 1000 cycles.</p>	NA
Forwards overturning (BS EN 1022:2018, 8.3.1)	<p>Apply a downwards force $F_{B.3}$ of 600 N vertically acting at the point on the median plane of the lounger, 60 mm behind the front edge of the load bearing structure. Apply a force $F_{B.4}$ of 20 N horizontally outwards along a horizontal line extended forward from the point where the base of the loading pad meets the upper surface of the seat.</p>	PASS
Sideways overturning (BS EN 1022:2018, 8.3.2)	<p>Simultaneously apply vertical forces $F_{B.1}$ of 600 N at the points that are on a line 60 mm from one side of the lounger. The first point shall be 300 mm from the front edge of the structure of the lounger, with additional forces applied in 600 mm increments, but at least 300 mm from the rear edge of the lounger.</p> <p>For loungers with arm rests the distance of the vertical force $F_{B.1}$ shall be at least 300 mm from the front edge of the arm rest construction. If the arm rest is more than 400 mm in length apply additional vertical force $F_{B.2}$ of 250 N in the centre of the arm rest.</p>	PASS
Rearwards stability – upright position (BS EN 1022:2018, 7.3.6)	<p>The test is not applicable to seating that has adjustable back rest inclination that cannot be locked in position.</p> <p>Apply a vertical force F_1 of 600N to the seat at seat loading point. Apply the force F_2 ($F_2 = 80$ N if $H \geq 720$ mm; $F_2 = 0.2857(1000-H)$ N if $H < 720$ mm. $H =$ Height of loaded seat above the floor, in mm) for (5 ± 2) s horizontally rearwards to the seating back at back loading point B, or at the top edge of back rest, whichever is the lower.</p> <p>When the seating has more than one sitting place, apply the procedure on two most adverse sitting places simultaneously.</p>	PASS

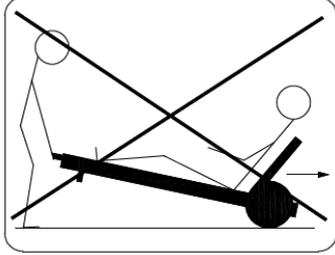


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Test Item	Test Method & Test Requirement	Test Result
Rearwards stability – reclined position (BS EN 1022:2018, 7.4.3)	The test method applies to all values of $\theta \geq 10^\circ$ and less than 55° and values of γ between 90° and 170° . All other reclining seating with leg rests shall be tested as tilting seating. With the seating in the fully reclined configuration, load the back of the seat with 8 loading discs and place 3 loading discs onto the leg rest at a distance Z from the intersection of the seat and back. Apply the loads for (120 ± 60) s.	PASS
Safety, strength and durability requirements for other seating (BS EN 581-2:2015/AC:2016, 7)		NA
Information for use (BS EN 581-2:2015/AC:2016, 8)		
General (BS EN 581-2:2015/AC:2016, 8.1)	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.	NT
Marking for loungers (BS EN 581-2:2015/AC:2016, 8.2)	<p>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.</p> 	NA

Remark:

- Type of Furniture:
Domestic use: Outdoor seating intended for private use in places use without public access
- NA=Not applicable; NT=Not tested



Sample Information

Overall dimension: 1620 mm - 1970 mm (D) × 755 mm (W) × 520 mm - 985 mm (H)
 Weight: 8.45 kg

Photo Appendix



Sample as received - View 1



Sample as received - View 2



Sample as received - View 3



Sample as received - View 4

SGS authenticate the photo on original report only

End of Report



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