



ORGANIZATION
FOR TECHNICAL
CONFORMITY

Certificate

EUROPEAN COMMUNITY --- CERTIFICATE OF CONFORMITY
CERTIFICATE No:TC14/0418/8641/9464/CN

Applicant Name: Sunny Season International Limited
Applicant Address: No.182-6, Haier Road, Qingdao 266100, China
Manufacturer Name: Sunny Season International Limited
Manufacturer Address: No.182-6, Haier Road, Qingdao 266100, China
Product Name: Shelters
Models: SS-150905, SS-50100, SS-6596
Brand: EAST COVER
Reports No.: TC/14/0418/8641/9464/CN



HARMONISATION

This product complies with the Safety regulations (EU) of No 305/2011-Construction Products Directive and amongst others the following harmonized standards
EN 13782:2005

REMARKS

This Certificate Is Only Valid For The Equipment And Configuration Described,
And In Conjunction With The Test Date Detailed Above.

CONCLUSION OF ASSESSMENT

Based on our review we can confirm that the technical for the above mentioned product meets the requirements of the relevant Directives, The manufacturer is responsible for certifying the product and ensuring that all manufactured products are in compliance with the specifications detailed in the construction file.

Certificate issued: April.18, 2014

Place: Paris, France

Signature: 

France Organization For Technical Conformity Center Ltd

22 Rue de Sevres, 75007, Paris, France

info@global-otc.eu



Copyright of this verification is owned by Organization for Technical Conformity Center and may not be reproduced other than in full and with the prior approval of the General Manager. This verification is subjected to the governance of the General Conditions of Services, printed overleaf.



TEST REPORT

Report Reference No: TC/14/0418/8641/9464/CN

EN 13782:2005

Temporary structures — Tents — Safety

Contents	1.Total test report 8 pages including: 2.Report text: 7 pages 3.Appendix A for product photos : 1 page	
Testing Laboratory name	Organization For Technical Conformity (Shanghai) Ltd	
Applicant's name	Sunny Season International Limited	
Address	No.182-6, Haier Road, Qingdao 266100, China	
Test specification	---	
Standard	R 305/2011 EN 13782:2005	
Non-standard test method	None	
Test item description	Shelters	
Trade Mark	EAST COVER	
Model and/or type reference	SS-150905; SS-50100; SS-6596	
Manufacturer	Sunny Season International Limited	
Rating(s)	Snow load: 1.34 KN/M2 Wind load: 6.18 KN/M2	
Test result	<input checked="" type="radio"/> Positive	<input type="radio"/> Negative
Tested by (name and signature)		
Approved by (name and signature)		
Date of issue	April 18, 2014	

Marking plate: only a sample:



Sunny Season International Limited
No.182-6, Haier Road, Qingdao 266100, China
EN 13782
Shelters
SS-150905
Made in china

Test Result

PASS

Summary of testing

This product has been successfully type-tested for conformity to all applicable requirement of EN 13782:2005



ORGANIZATION FOR TECHNICAL CONFORMITY

REPORT NO: TC/14/0418/8641/9464/CN

Possible test case verdicts

- test case does not apply to the test object: N/A
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)

Testing

- Date of receipt of test item: Feb 28, 2014
- Date (s) of performance of tests: Feb 28, 2014 to April 18, 2014

General remarks:

"(See remark #)" refers to a remark appended to the report.
"(See Appendix #)" refers to an appendix appended to the report.
Throughout this report a comma (point) is used as the decimal separator.
When determining the test result, measurement uncertainty has been considered.

General product information:

There were 1 series product in this report, including models SS-150905, SS-50100 and SS-6596.
All test data were based on SS-150905

Refer to Appendix A—Product Photos for detail

EN 13782			
Clause	Requirement - Test	Result - Remark	Verdict
4	General requirements for design, analysis and examination		P
4.1	Design documents The design documents shall include information for the verification of the stability, resistance and operating safety, especially a description of the construction and operation, the stability verification and design drawings as well as relevant documents concerning the burning behaviour.	Sufficient for using	P
4.2	Description of construction and operation The tent in particular its design and utilisation and its static system shall be explained in this description. The description shall include details of the particular features of the tents and of any alternative modes of installation which may exist, also details of the main dimensions, limitations, design particulars and materials.	Sufficient for using	P
4.3	Construction drawings Drawings shall exist for all sub assemblies and individual components, the fracture or failure of which might endanger, the stability or operating safety of the tent.	The construction drawings featured the dimensions and cross section values required for testing and approval, also details of materials	P
5	Principles of numerical analysis		P
5.1	Verification In general, if subsequently not determined differently, the verification shall follow the relevant Part of Eurocode	Loadings have been verified	P
5.2	Selection of textile materials All materials shall comply with EN standard	As EN standard as declared	P
6	Design actions		---
6.1	General All the applicable actions shall be taken into account according to EN 1991-1-1, EN 1991-1-2, EN 1991-1-3 and EN 1991-1-4.	As below	---
6.2	Permanent actions The permanent actions shall be determined according to EN 1991-1-1, EN 1991-1-2, EN 1991-1-3 and EN 1991-1-4.	Considered the G _k ; G _{ku} and G _{ki}	P
6.3	Conventional load The stability shall be checked with a conventional vertical load of 0,1 kN/m ² . This load shall not be combined with other load cases, except self-weight.	0.1KN/M ²	P
6.4	Variable actions	Snow load: 1.34 KN/M ² Wind load: 6.18 KN/M ²	P
6.5	Seismic forces Seismic forces may generally not be considered because of the flexibility and the light weight of the tent.	No performance determined	NPD
6.6	Load combinations Load combinations shall be applied in accordance with EN 1991-1-1.	As EN 1991-1-1	P

EN 13782			
Clause	Requirement - Test	Result - Remark	Verdict
7	Verification of stability and equilibrium		
7.1	General The limit states due to all different actions shall be determined separately for the individual actions of Clause 6. The limit states due to the combinations of actions shall be calculated. It shall be verified that the design value of internal forces or moments does not exceed the corresponding design resistance of the respective part and the ultimate or serviceability limit state is not exceeded.	Stability	P
7.2	Verification against overturning, sliding and lifting Safety against overturning, sliding and lifting shall be calculated.	No overturning sliding	P
7.3	Dead load for tent covers The dead load of dry canvas shall be assumed as being 5 N/m ² for the calculation of the structures in respect of wind pressure from below which is required for the assessment of the safety against overturning and for the sizing of the anchoring; for all other purposes, it shall be assumed as specified in EN standards or, in absence, in agreement by parts.	5 N/m ²	P
7.4	Structures with primary load bearing structure (i.e. roof, truss, tents)	See attached photos and instructions	P
7.5	Membrane If the shape of the structure allows a calculation in two opposite directions separately, the calculation may be handmade. In any other case an appropriate three dimensional computer calculation taking into account great displacement shall be used	Shape as attached photos	P
7.6	Verification of load bearing capacity of technical textiles and their connections	Designed as EURO CODE	P
7.7	Safety margin, safeguards Because a load bearing membrane can be subject to considerable deformations, care shall be taken to ensure that no structural or other parts, may hinder the deformation of the membrane if not taken into account in the calculation.	No parts hiding	P
7.8	Post tensioning Design measures which enable a post-tensioning of the structure to be effected should be incorporated (e.g. turnbuckles, support extensions etc.), for the purpose of compensating the creep of the membrane	With rope	P
8	Ground anchorages		

EN 13782			
Clause	Requirement - Test	Result - Remark	Verdict
8.1	<p>General Uncertain soil conditions make it extremely difficult to assess the load bearing capacities of anchorages accurately. If for the respective soil conditions no verification using the rules of foundation engineering is carried out the following approximation method may be used for pre-dimensioning. Any case test shall be realised on each site; for tents up to a span of 10 m testing is not necessary.</p>	2 pcs 11mm anchor per pole	P
8.2	<p>Load bearing capacity of weight anchors</p>	passive earth pressure was considered	P
8.3	<p>Load bearing capacity of rod anchors The load bearing capacity of simple rod anchors with a circular cross section and a minimum driving-in depth of 80 cm shall be determined</p>	Designed as table 5	P
8.4	<p>Testing of anchors A safety factor of $v= 1,6$ regarding ultimate limit load is to apply for the lowest test value in order to determine the load bearing capacity in subsequent calculation. The load bearing capacity determined in this manner shall not result in anchor movement which would result in stresses, deformations or instability inadmissible for the structure.</p>	$v= 1,6$	P
9	<p>Other structural components</p>		---
9.1	<p>Cables, ropes, chains, safety devices When ropes, chains, safety devices, rope drives, connectors and adapters are used, the following EN standards in particular shall be applied for:</p>	ropes	P
9.2	<p>Accessories All accessories shall have at minimum the same safety factor as the steel cables $\gamma_{M=2}$</p>	$\gamma_{M=2}$	P
9.3	<p>Ratchets For streps with ratchets, the safety factor of $\gamma_{M=2,0}$ shall be applied on the complete system tested regarding ultimate limit loads. Ratchets shall be secured against accidental opening.</p>	$\gamma_{M=2,0}$	P
9.4	<p>Detail connections A certificate of conformity for standardised detail connections shall be provided.</p>	$\gamma_{M=2,0}$.	P
10	<p>Special design and manufacture criteria Special design and manufacture criteria are presented in the informative Annex C</p>	No special design	N/A
11	<p>Manufacture and supply</p>		---
11.1	<p>General Suitably competent persons shall be engaged in the manufacture of tents. Constant attention shall be paid to the inspection of components and raw material, including consumables, both manufacturers in house and subcontracted.</p>	Engineer involved	P
11.2	<p>Certificates Certificates on material or components according to EN 10204 shall be done</p>	Material certificates were provided	P

EN 13782			
Clause	Requirement - Test	Result - Remark	Verdict
11.3	Observation of the design specification The manufacturer shall ensure that the design specification is fully incorporated into the completed tent and that the quality of the use materials and the manufacture procedure meet the design specification.	As declared	P
11.4	Description of installation and operation procedures	In the structure	P
12	Examination		---
12.1	General Tents have to be inspected.	Inspected	P
12.2	Qualification The following experts during the design with relevant experience in the field of tents shall be available if appropriate: — civil engineers (calculation, design); — electrical experts (safety of electrical systems); — weld engineers (weld and material approval); — material and test engineers (laboratory examination, non-destructive test methods).	civil engineers	P
12.3	Competence The following laboratory and testing facilities shall be made available: — material testing machines (tensile, notched impact, pulsator testing machines); — non-destructive testing facilities (ultrasonic, surface crack, X-ray inspection).	Test in lab	P
13	Procedures for approval, examination and tests	Type tested and ISO certified	P
14	Tent book		
14.1	General The tent book associated with the tent shall include the design documents which provide detailed information with respect to operating data, method of construction, instruction relating to operation and maintenance, repairs and modifications as well as to examinations. The tent book shall be available as a document on each erection site for evidence.	As application's instruction	P

*****End of page*****

Appendix A

Product Photos



SS-150905



SS-150905- wind load



SS-150905- first step of snow load

*****End of Report*****