X GLOO
SHAPING AIR

ENGLISH

CERTIFICATES X GLOO

EVENT TENT 2020

Fire Protection 02-12
DIN 4102 - B1 03-18
Nestra 03-08
Lotus 09-18
CPAI-84 19-26
Nestra 19-22
Lotus 23-26
Lotus FRANCE 27-30
Wind Stability 31-32
Impermeability 33
UV Resistance 34
Maximum Weight 35-36

FIRE PROTECTION

Fire Protection Classification of the X GLOO tent line

DIN 4102-B1 (abbr.: B1)
Regulates inspection and requirements of the reaction to fire for building materials and building components. A German standard which is also used in most European countries.

CPAI 84-95, Section 6
Specification of the American Association of Sailcloth Products for the evaluation of flame-retarding materials used in tents.

Although X GLOO tents are in use worldwide, we reserve the right not to have them certified according to the explicit standards of other nations.

The certification according to CPAI 84 meets the international requirements for flame-retardance for tent products and includes similar inspection criteria as DIN 4102-B1 or NFP 92501-7M2.

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SGS

Textile Laboratory

Test Report

No: TX11975 /2018 /SP Date: Mar. 07, 2018 Page 1 of 5

[redacted] Taipei 105 ,Taiwan

The following sample was submitted and identified by applicant as:

Sample Description	:	One sample of woven fabric with coating
Color	:	Blue 2728C
Fiber Content	:	100% Polyester
Fabric Weight	:	265g/y; 172g/sgm
End Use	:	Tent
Style No.	:	**Nestra**
Buyer	:	Skywalk GMBH & Co. KG
Order No.	:	PF-31084
Manufacturer/Vendor	:	[redacted]
Country of Origin	:	Taiwan
Country of Destination	:	Germany
Applicant	:	[redacted]
Sample Receiving Date	:	Jan. 29, 2018
Test Performance Period	:	Jan. 29, 2018 to Mar. 07, 2018
Client's Provided Care Label	:	Machine Wash Warm Do Not Bleach Do Not Dry Clean Tumble Dry Low Do Not Iron
Test Performed	:	Selected test(s) as requested by applicant.
Test Results	:	For further details, please refer to the following page(s).

Signed for and on behalf of
SGS Taiwan Ltd.

Vicky Lin

Lin Yi Wen, Vicky
Test Specialist

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Test Report No: TX11975 /2018 /SP Date: Mar. 07, 2018 Page 2 of 5

Test Results:

Test Requested:
To determine the flammability (building materials class B1) in accordance with DIN 4102-1 (May 1998) Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing

I. Test conducted
This test was conducted as per DIN 4102-15:1990 DIN 4102-16:1998 and DIN 4102-1:1998 Clause 6.2. Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials.

II. Sample details

Color	Blue 2728C
Density	About 150g/m^2
Size of sample	1000mmx190mm & 190mmx90mm

Conditioning
Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.

III. Test results

1) "Brandschacht" Test according to DIN 4102-15 &16

Exposed surface: The front face

Results of "Brandschacht" Test (part 1)				
Line No.		Unit	Test assemblies No.	
			Lengthwise	Widthwise
1	Specimen fixings according to DIN 4102 part 15, table	-	1	1
2	Max. flame height above lower sample edge;	cm	40	40
3	Time [1)]	min:s	00:26	00:22
	Melting/burning through		Yes	Yes
4	Time [1)]	min:s	00:03	00:04
	Back of specimen		Yes	Yes
5	Flaming/glowing, Time [1)]	min:s	00:05	00:05
6	Discolouring, Time [1)]	min:s	00:02	00:02
	Burning droplets		Yes	Yes
7	Begin [1)]	min:s	00:08	00:10
	Amount		/	/
8	Specimen material falling off in separate droplets		/	/
9	Specimen material falling off continuously		√	√

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Results of "Brandschacht" Test (part 2)				
Line No.		Unit	Test assemblies No.	
			Lengthwise	Widthwise
	Burning parts		Yes	Yes
10	Begin [1)]	min:s	00:18	00:20
11	Parts of sample falling off separately		√	√
12	Parts of sample falling off continuously		/	/
13	Duration of continued combustion on mesh base (max.)	min:s	No	No
	Burner flame impairment by dripping/falling material		No	No
14	Time [1)]	min:s	/	/
	Premature ending of test		/	/
15	End of burning at specimen [1)]	min:s	/	/
16	Time when test terminated (if applicable) [1)]	min:s	/	/
	Burning after end of test		No	No
17	Duration	min:s	/	/
18	Number of specimens		/	/
19	Front of specimen		/	/
20	Back of specimen		/	/
21	Height of flame	cm	/	/
	Glowing after end of test		No	No
22	Duration	min:s	/	/
23	Number of specimens		/	/
24	Front of specimen		/	/
25	Back of specimen		/	/
26	Top half of specimen		/	/
27	Bottom half of specimen		/	/

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Test Report No: TX11975 /2018 /SP Date: Mar. 07, 2018 Page 4 of 5

Results of "Brandschacht" Test (part 3)						
Line No.		Unit	Test assemblies No.			
			Lengthwise		Widthwise	
	Residual length		/		/	
28	Single results	cm	70	68	72	70
			71	67	69	68
29	Average of the single results	cm	69.0		69.8	
	Smoke temperature		/		/	
30	Max. of average	℃	135.4		138.7	
31	Time [1)]	min:s	07:01		06:38	

Note: [1)] time from start of testing

*Reduction in number of test (DIN 4102 Par 16, clause 5.2)

Class B1 materials:
If the residual length measured after the first test is 45cm or greater, further tests are not required.

2) Normal Flammability Test according to DIN 4102-1 Clause 6.2

Bottom edge ignition

Fire application time: 15s

Parameter	Lengthwise					Crosswise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark(Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds(Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark(s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	32	28	28	30	29	28	27	26	28	28
Max. flame height (cm)	9	10	10	9	9	10	10	12	11	10
Molten dripping(Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight					Slight				

Note:
NA---Not applicable

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Test Report No: TX11975 /2018 /SP Date: Mar. 07, 2018 Page 5 of 5

IV. DIN 4102-1:1998 Criteria for classification

1) All materials, except flooring, may be classed as **B1** materials if they meet the following requirements a) and b):

a) The test using the 'Brandschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if

– The mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause 9.1 of DIN 4102-16) of each specimen is at least 15 cm and no individual values are lower than 0 cm,

– The mean effluent temperature does not exceed 200 °C in any test,

– The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1: 1998 sub-clause 6.2.3 Ignitability Test if

For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

2) Materials may be classed as **B2** materials if they pass the ignitibility test specified in DIN 4102-1: 1998 subclause 6.2.5.

For each specimen, flaming doesn't reach the gage mark (150mm marks) within 20s after flame application.

3) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as **B3** materials.

STATEMENTS:

This test report does not replace any mandatory certification of the product that may be required.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire and smoke hazard of the product in use.

Classification: The tested sample **meets** Class **B1** building materials requirements of DIN 4102-1 (May 1998).

Tested by relevant SGS laboratory.

*** End of Report ***

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Test Report **No. SDHGR110400750FM** **Date: May 13, 2011** **Page 4 of 4**

V. Conclusions

The sample tested **meets** the requirements of class **B1** of DIN 4102-1:1998-05.

Photo Appendix:

End of Report

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Test report No. 2019-1389

for applying of a required "Verwendbarkeitsnachweis"
issued 30.04.2019

Applicant: [redacted]

Date of order:	**09.04.2019**
Date of sampling:	***no official sampling of the specimen by a representative of Warringtonfire Frankfurt GmbH***
Date of arrival:	**10.04.2019**
Date of test:	**24.04.2019 + 25.04.2019**

Order

Testing of the flammability (building class B1) according to DIN 4102-1 (May 1998)

Description / designation of the test object

Product name: TENT 600 FRC

Description of the relevant test procedure

DIN 4102 part 1 (Mai 1998)

This test report does not replace the required „Verwendbarkeitsnachweis". It is only used for issuing the "Verwendbarkeitsnachweis".

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Deutsche Akkreditierungsstelle
D-PL-18354-01-00

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1. Description of the test material

1.1 Details of the customer:

Product name:	TENT 600 FRC

Probenbeschreibung:

a) Main Components:	100% PES + FR PU coated
b) Thickness:	0, 34 mm
c) Grossweight:	275 g
d) Color:	White (WIL081)
e) Batch:	Batch 96369
Face to be tested:	Face = white side
Intended end use of product:	Promotional tents and displays

1.2 By Warringtonfire Frankfurt GmbH determined values:

Fabric sample

colour:	white
thickness:	0,33 mm
Square weight:	280 g/m²

Testing after storing 14- days under climatic conditions (23°C / 50 % rel. humidity).

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2. Test results

2.1.1 Brandschachtprüfung according to DIN 4102-1

Sample A: Material tested in production direction.
Sample B: Material tested cross to the production direction.

Test results of the Brandschacht tests part 1						
line no.			Measurements test sample			
			A	B	C	D
1	no. test arrangement according to DIN 4102 part 15, table 1		1	1		
2	flame height max. over lower sample edge	cm	30	30		
	time [1]	min : s	00:10	00:10		
3	ascertainments on the front side Flaming/glowing time [1]	min : s	00:03	00:03		
4	melting / burning through time [1]	min : s	00:06	00:06		
5	ascertainments on the back side Flaming/glowing time [1]	min : s	no	no		
6	discolouring time [1]	min : s	no	no		
7	burning droplets begin [1]	min : s	no	no		
8	extent occasional dropping of material					
9	constant dropping of material					
10	separating from burning sample parts begin [1]	min : s	no	no		
11	occasional separating parts					
12	constant separating parts					
13	duration of burning on the sieve tray (max.)	min : s	no	no		
14	influence on the burner flame by dropping of / separating material time [1]	min : s	no	no		
15	earlier end of test end of the fire scenario on the sample [1]	min : s	no	no		
16	time of a possible resulted test stop [1]	min : s				

[1] time from start of test

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Test results of the Brandschacht tests part 2						
line no.			Measurements test sample			
			A	B		
	flaming after end of test		no	no		
17	duration		no	no		
18	number of sample	min : s	no	no		
19	front side of sample		no	no		
20	backside of sample		no	no		
21	flame length	cm	no	no		
	glowing after end of test		--/--	--/--		
22	duration	min . s	no	no		
23	number of sample		no	no		
	place of occurrence		no	no		
24	lower sample part		no	no		
25	upper sample part		no	no		
26	front side of sample		no	no		
27	backside of sample		no	no		
	smoke density					
28	≤ 400 % x min		9	7		
29	> 440 % x min		--/--	--/--		
30	diagram in annex no.		1	2		
	residual length					
31	single results	cm	69 / 66 68/ 65	70 / 70 71 / 71		
32	average of the single results	cm	67	70		
33	photo of the sample on page		5	5		
	smoke temperature					
34	max. of the average results	°C	109	109		
35	time [1]	min : s	09:42	08:32		
36	diagram in annex no.		1	2		

[1] time from start of test

Remarks: As the residual length was > 45 cm during the Brandschacht test, no further tests were necessary according to DIN 4102-16.

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2.1.2 Appearance of the specimen after the test:

Sample A

Sample B

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2.2.1 Normal flammability test according to DIN 4102-1

Test with edge ignition without deposit
Flame application on: lower sample edge
Edge ignition

Length direction

Sample-no. / Time from start of test	1	2	3	4	5
Ignition point [s]	1	1	1	1	1
Reaching the measuring mark within 20 seconds	no	no	no	no	no
Self-extinguishing of the flame [s]	6	8	5	7	6
Max. flame height [mm]	60	70	60	70	50
Time [s]	5	6	5	6	5
End of afterflaming [s]	-	-	-	-	-
End of afterglowing [s]	-	-	-	-	-
Flames extinguished after [s]	-	-	-	-	-
Smoke development (visual impression) low / moderate / strong	strong smoke development				
Separating from burning material	no	no	no	no	no
Time [s]	-	-	-	-	-

Remarks: none

Cross direction

Sample-no. / Time from start of test	1	2	3	4	5
Ignition point [s]	1	1	1	1	1
Reaching the measuring mark within 20 seconds	no	no	no	no	no
Self-extinguishing of the flame [s]	4	4	4	4	4
Max. flame height [mm]	30	30	30	30	30
Time [s]	3	3	3	3	3
End of afterflaming [s]	-	-	-	-	-
End of afterglowing [s]	-	-	-	-	-
Flames extinguished after [s]	-	-	-	-	-
Smoke development (visual impression) low / moderate / strong	strong smoke development				
Separating from burning material	no	no	no	no	no
Time [s]	-	-	-	-	-

Remarks: none

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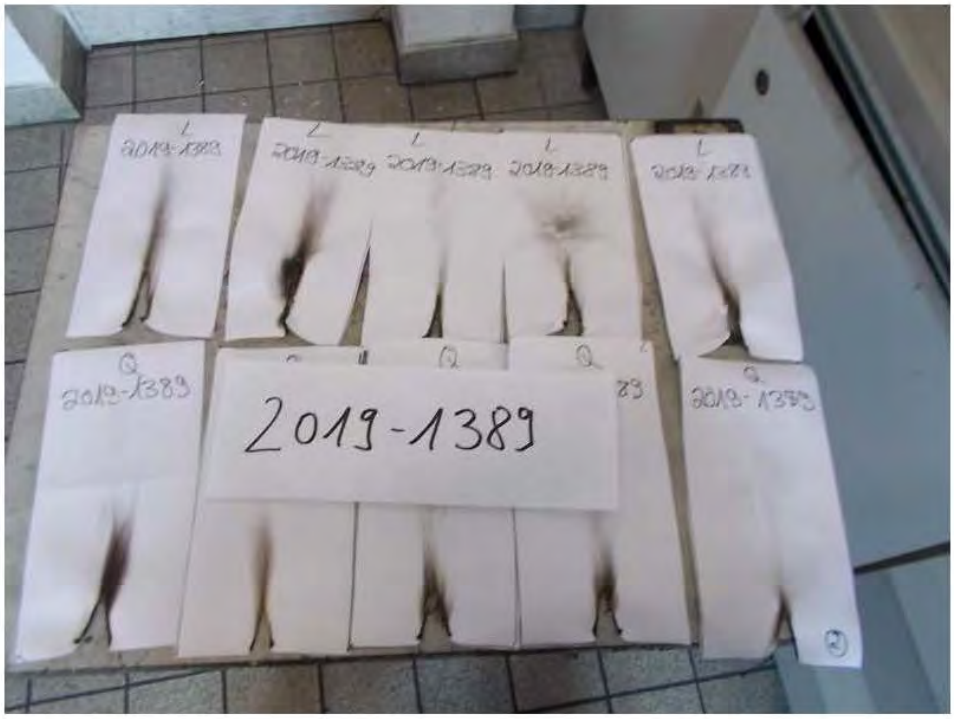
2.2.4 Appearance of the sample after the small burner test:



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Assessment

The material described in chapter one fulfils the requirements of the building class B2 according to DIN 4102-1 (Mai 1998).
The determined test results show that the material also fulfils the requirements

of the building class B1

according to DIN 4102-1 (Mai 1998).

Special note

The fire test result is only valid for the material described in chapter one in the tested colour, surface weight and thickness.
The test was carried out in free hanging configuration.
The distance to other plane material must be more or equal then 40 mm.

The material wasn't tested after an outside storage.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is not valid any longer. According to DIN 4102-1 the burning behaviour in combination with other materials has to be tested separately.

This test report does not replace the required „Verwendbarkeitsnachweis“. It is only used for issuing the “Verwendbarkeitsnachweis”.

Frankfurt, the 30th April 2019

H. Anders
Tester in Charge

P. Scheinkönig
Prüfstellenleiter Bau-PVO

DAkkS
Deutsche
Akkreditierungsstelle
D-PL-18354-01-00

This Test report is valid until 23.04.2024.
The results of the tests relate only to the behaviour of the test specimen which is designated on the top.
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This test report is a translation of the German version 2019-1389 (issued 30.04.2019). In case of doubt only the German version is valid
This test report contains 8 pages and 2 annexes.
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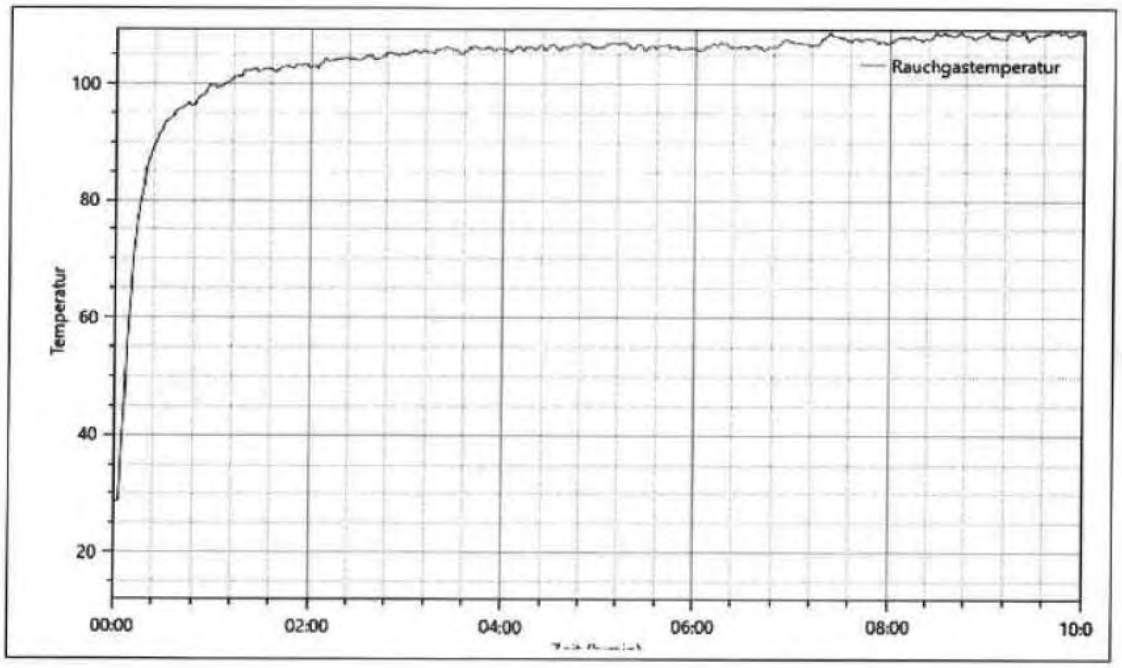
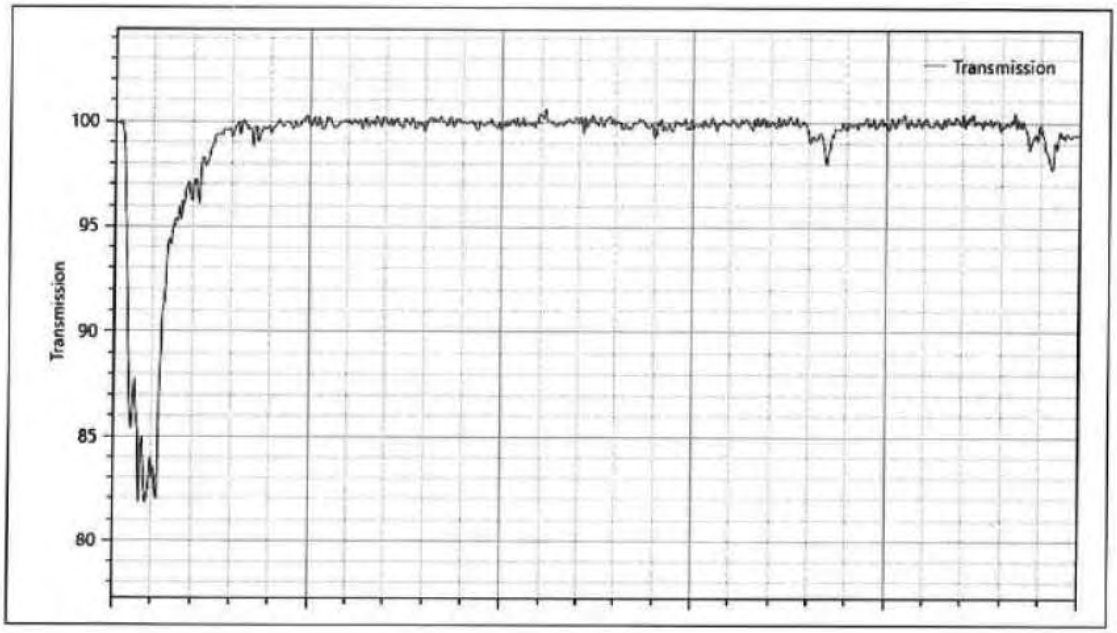
Annex 1 to the Test report No. 2019-1389 issued 30.04.2019

Sample A:





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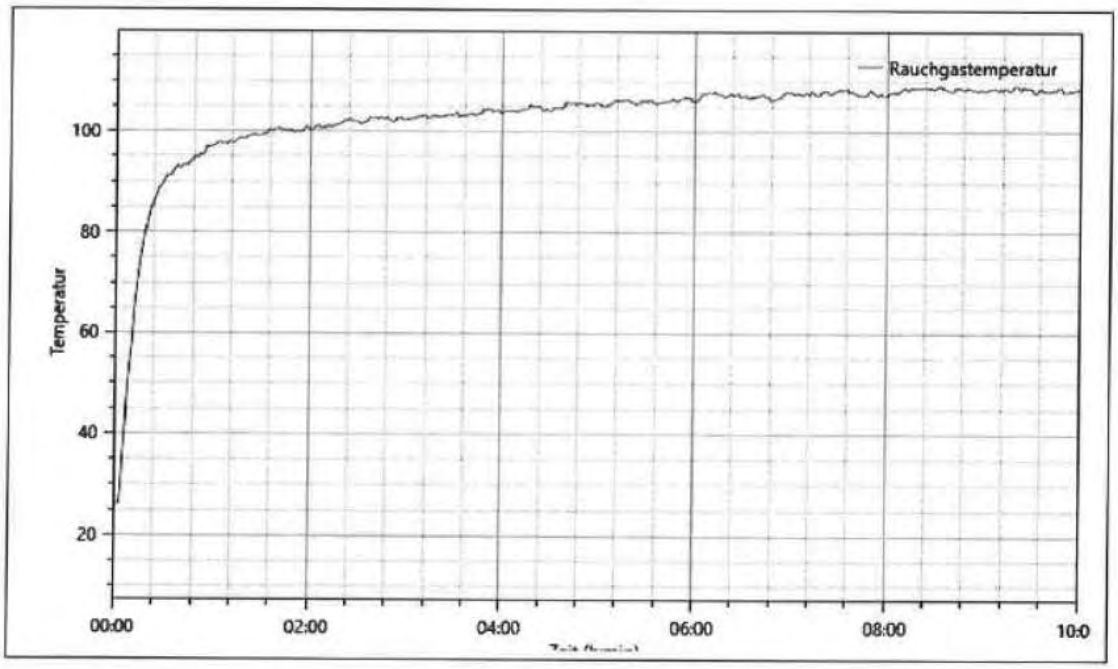
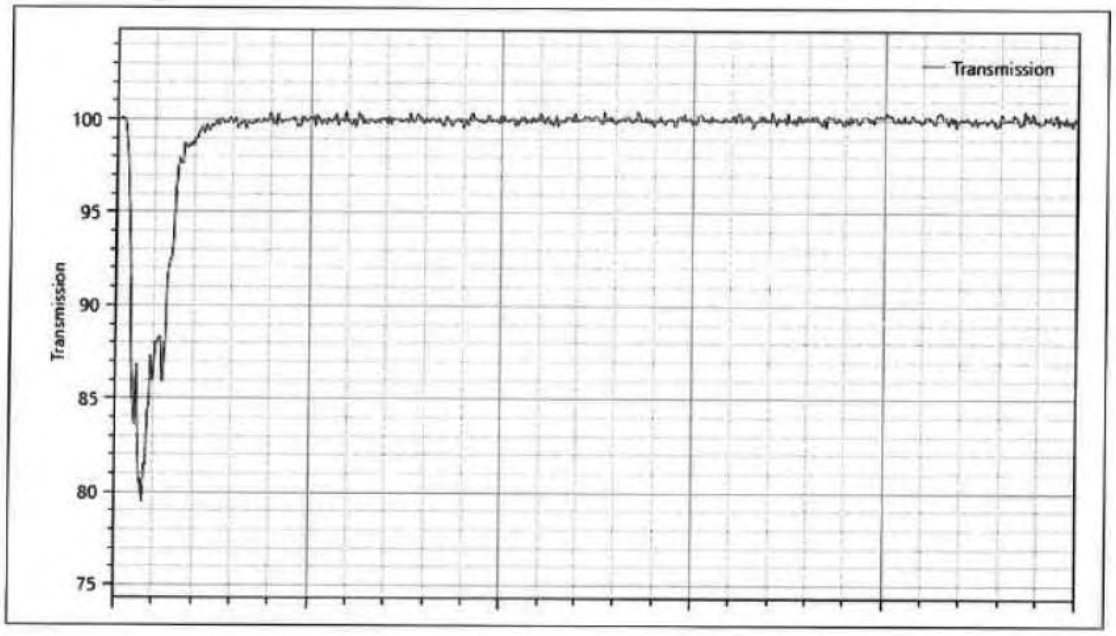
Annex 2 to the Test report No. 2019-1389 issued 30.04.2019
Sample B:





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Test Report No: TX81654 /2017 /SP Date: Aug. 28, 2017 Page 1 of 3

Taipei 105 ,Taiwan

The following sample was submitted and identified by applicant as:

Sample Description	:	One sample of woven fabric WR+CPAI-84FR 1500mm w/UV color fastness to light AATCC 16 80 hrs
Color	:	Red 200C
Fiber Content	:	100% Polyester
Fabric Weight	:	172g/m^2
Construction	:	T250D*T250D
Style No.	:	Nestra
Order No.	:	PF-30404-1
Applicant	:	
Sample Receiving Date	:	Aug. 23, 2017
Test Performance Period	:	Aug. 23, 2017 to Aug. 28, 2017
Test Performed	:	Selected test(s) as requested by applicant.
Test Results	:	For further details, please refer to the following page(s).

Signed for and on behalf of SGS Taiwan Ltd.

Justin Chen

Chen Chih Wei, Justin
Asst. Supervisor

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TWC3122651

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Test Report No: TX81654 /2017 /SP Date: Aug. 28, 2017 Page 2 of 3

Test Results:

Flammability Test

Test Requested:
Flammability test of submitted sample in accordance with CPAI-84:1995 specifications Issued by Industrial Fabric Association International of USA

Test Result:
FLAMMABILITY TEST (CPAI-84) Sec. 6 – Wall & Top material
Sample weight (10 cm × 10 cm) : 1.7380 × 100 = 173.80 g/m^2
As Received **Pass**

Specimen	Damaged Length (mm)		After-flame time (second)	
	Lengthwise	Widthwise	Lengthwise	Widthwise
1	132	143	0.0	0.0
2	130	121	0.0	0.0
3	141	131	0.0	0.0
4	125	138	0.0	0.0
Average	133		0.0	

*Continuous flaming was not observed after the dipped/broken material fell on the floor of the test cabinet.

1. Damaged Length

Fabric weight (g/sq.m)	Maximum average for sample unit (mm)	Maximum for individual specimen (mm)
More than 135 but not more than 200	190	255

* Lightweight Fabric Mass Loss Criteria
Any wall or top material with a mass of less than 200 g/m^2 will be considered acceptable if the mass loss during the test is no greater than 5 percent of the original test specimen mass, regardless of the damaged length measurement.

2. After flame time
   - No specimen shall have an after-flame time of more than 4 seconds.
   - Average after-flame time of all specimens shall not exceed 2 seconds.
3. Portions or residues that break or drip from the test specimens shall not continue to flame after they reach the floor of the test cabinet.
4. These requirement includes:
   - specimens that were unleached and unweathered
   - specimens that were leached but unweathered
   - specimens that were weathered but unleached
5. Loads for Determining Damaged Length.
   * Untreated weight of material being tested more than 340 g/m^2 /
   Total tear force for determining the damaged length-350 g.

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Test Report No: TX81654 /2017 /SP Date: Aug. 28, 2017 Page 3 of 3

Conclusion

The submitted sample(s) **complies with** the requirements prescribed in CPAI-84:1995 Section 3, in as received.

Tested by relevant SGS laboratory.

*** End of Report ***

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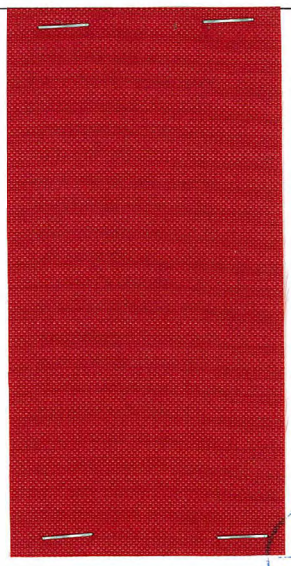
SAMPLE CARD

REPORT NO.: TX81654/17'



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TX 02

CENTEXBEL

[redacted]

Your notice of	Your reference	Date
26-09-2019	CT-261	18-11-2019

Analysis Report 19.05414.04

Modification of analysis report 19.05414.02, made on 05-11-2019

Required tests :

NF P92-507 (2004)

Identification number	Information given by the client	Date of receipt
T1920710	F701FR01 Heavy Tent 245 FR	26-09-2019

Gina Créelle
Order responsible

ISO 17025 BELAC 056-TEST

ilac-MRA

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VAT BE 0459.218.289 • IBAN BE44 2100 4729 6545 • BIC GEBABEBB

Reference: **T1920710 - F701FR01 Heavy Tent 245 FR**

Water soaking procedure

Date of ending the test	09-10-2019
Standard used	NF P92-512 § 6.5.6.1 (1986)
Deviation from the standard	-

Sample generated: T1920710_01d

Performed in the fire lab under the responsibility of Mike De Vrieze

Reference: **T1920710_01d - F701FR01 Heavy Tent 245 FR**

Classification of materials according to their reaction to fire - "Electric burner"

Date of ending the test	24-10-2019
Standard used	NF P92-503 (1995)
Product standard	NF P92-507 (2004)
Deviation from the standard	-
Dimension of the specimens	600 mm x 180 mm x 1 mm
Weight (g/m²)	330
Conditioning	23°C, relative humidity 50% Minimum 7 days or until constant mass is achieved

	Length		Width	
	Face A	Face B	Face A	Face B
Hole formation	yes	yes	yes	yes
Max. afterflame time (s)	0	9	26	0
Afterglow	no	no	no	no
Afterglow with propagation in area > 25 cm	no	no	no	no
Damaged length (cm)	19.0	20.0	18.5	20.0
Damaged width (cm) in area >45 cm	0	0	0	0
Flaming molten droplets	no	no	no	no
Non-flaming molten droplets	no	yes	no	no
Flaming debris	no	no	no	no
Non-flaming debris	no	no	no	no
Average damaged length (cm)	19.5			
Average damaged width (cm) in area > 45 cm	0			

Performed under accreditation in the fire lab under the responsibility of Mike De Vrieze

Reference: **T1920710_01d - F701FR01 Heavy Tent 245 FR**

Classification of materials according to their reaction to fire - "Test for melting materials"

Date of ending the test	05-11-2019
Standard used	NF P92-505 (1995)
Product standard	NF P92-507 (2004)
Deviation from the standard	-
Dimension of the specimens	70 mm x 70 mm x 1 mm
Number of layers	2
Weight (g/m²)	330

The test specimens have not been cleaned nor submitted to an accelerated ageing procedure

Conditioning	23°C, relative humidity 50% Minimum 7 days or until constant mass is achieved

Four specimens, two on both sides, have been tested .

		First ignition (s)	Non-flaming debris	Flaming debris	Ignition cotton wool	Mass (g)
#1	face A	35	yes	no	no	2.9
#2	face B	*	yes	no	no	3.0
#3	face A	*	yes	no	no	3.0
#4	face B	*	yes	no	no	3.0

* no ignition

Classification M2

Performed under accreditation in the fire lab under the responsibility of Mike De Vrieze

Texo Trade Services B.V.
Oostbaan 601
2841 ML MOORDRECHT
Nederland

Votre message du	Votre référence	Date
26-09-2019	CT-261	24-02-2020

Rapport d'analyse 19.05414.05

Modification du rapport d'analyse 19.05414.02, établi le 05-11-2019

Essais demandés :

NF P92-507 (2004)

Numéro d'identification	Informations données par le client	Date de réception
T1920710	F701FR01 Heavy Tent 245 FR	26-09-2019

Gina Créelle
Responsable de la commande de tests

Ce rapport ne peut être reproduit que dans son intégralité, sans permission écrite de Centexbel.
Les résultats d'analyse valent pour les échantillons reçus. Centexbel n'est pas responsable de la représentativité des échantillons.
Pour déclarer ou non la conformité à la spécification, il n'a pas été tenu compte de l'incertitude associée au résultat.

ISO 17025 BELAC 056-TEST

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VAT BE 0459.218.289 • IBAN BE44 2100 4729 6545 • BIC GEBABEBB

Référence: **T1920710 - F701FR01 Heavy Tent 245 FR**

Procédure de trempage

Date de la fin de l'essai	09-10-2019
Norme appliquée	NF P92-512 § 6.5.6.1 (1986)
Déviation de la norme	-

Echantillon résultant: T1920710_01d

Effectué dans le labo feu sous la responsabilité de Mike De Vrieze

Référence: **T1920710_01d - F701FR01 Heavy Tent 245 FR**

Classement des matériaux selon leur réaction au feu - "Brûleur électrique"

Date de la fin de l'essai	24-10-2019
Norme appliquée	NF P92-503 (1995)
Norme de produit	NF P92-507 (2004)
Déviation de la norme	-
Dimension des éprouvettes	600 mm x 180 mm x 1 mm
Masse (g/m²)	330
Conditionnement	23°C, humidité relative 50% Au moins 7 jours ou jusqu'à obtention de la masse constante

	Longueur		Largeur	
	Face A	Face B	Face A	Face B
Percement du matériau	oui	oui	oui	oui
Temps d'inflammation max. (s)	0	9	26	0
Points en ignition	non	non	non	non
Points en ignition + effet de propagation (zone >25 cm)	non	non	non	non
Zone détruite, longueur (cm)	19,0	20,0	18,5	20,0
Zone détruite, largeur (cm) dans la zone >45 cm	0	0	0	0
Chute de gouttes enflammées	non	non	non	non
Chute de gouttes non-enflammées	non	oui	non	non
Chute de particules enflammées	non	non	non	non
Chute de particules non-enflammées	non	non	non	non
Moyenne des longueurs détruites (cm)	19,5			
Zone détruite, moyenne largeur (cm) dans la zone >45 cm	0			

Effectué sous accréditation dans le labo feu sous la responsabilité de Mike De Vrieze

Référence: **T1920710_01d - F701FR01 Heavy Tent 245 FR**

Classement des matériaux selon leur réaction au feu - "Essai pour matériaux thermofusibles"

Date de la fin de l'essai	05-11-2019
Norme appliquée	NF P92-505 (1995)
Norme de produit	NF P92-507 (2004)
Déviation de la norme	-
Dimension des éprouvettes	70 mm x 70 mm x 1 mm
Nombre de couches	2
Masse (g/m²)	330

Les éprouvettes ne sont ni nettoyées ni soumises à un vieillissement accéléré

Conditionnement	23°C, humidité relative 50% Au moins 7 jours ou jusqu'à obtention de la masse constante

Quatre échantillons ont été soumis à l'essai - deux essais sur chaque face du produit.

		Première inflammation (s)	Gouttes non-enflammées	Gouttes enflammées	Inflammation de la ouate	Masse (g)
#1	face A	35	oui	non	non	2,9
#2	face B	*	oui	non	non	3,0
#3	face A	*	oui	non	non	3,0
#4	face B	*	oui	non	non	3,0

* pas d'inflammation

Classement M2

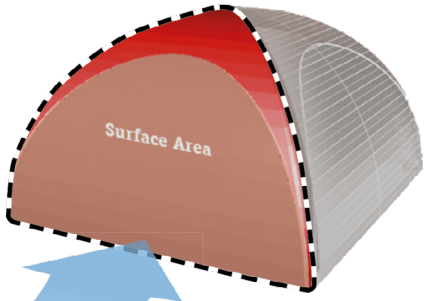
Effectué sous accréditation dans le labo feu sous la responsabilité de Mike De Vrieze

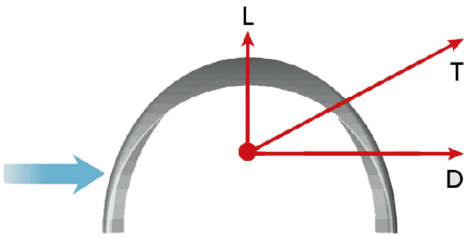
WIND RESISTANCE CERTIFICATE

FORCES

BASIS:
- Wind Speed: 1 m/s = 3.6 km/h
- Density of the flowing medium: 1.224 kg/m³
- Drag Coefficient: 1 (Safety factor of 1.5; estimated actual drag coefficient of 0.6
- Friction of Ballast Barrel and ground: 1 [material: rubber-to-asphalt]

Size	Surface Area with Side Wall
XC 3	5.4 m² (58ft²)
XG 4	6.5 m² (70ft²)
XG 5	10 m² (107.6ft²)
XG 6	14 m² (150.7ft²)
XG 8	25 m² (269.1ft²)

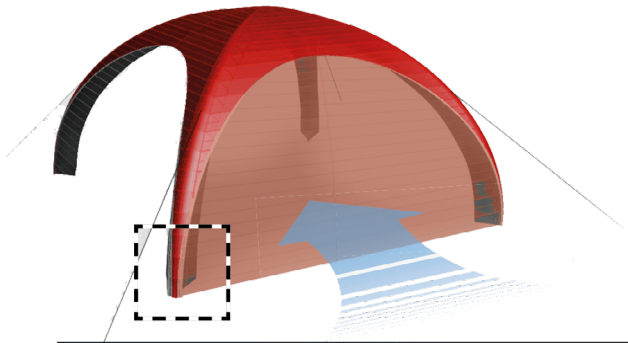




Size	Drag (D) [daN]			Lift (L) [daN]			Total Force (T) [daN]		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	22.8	40.5	91.3	11.4	20.3	45.7	25.5	45.3	
XG 4	27.4	49.1	110.4	13.7	24.55	55.24	30.6	54.9	123.4
XG 5	42.1	75.55	170.0	21.0	37.77	85	47.1	84.5	190.1
XG 6	59.0	105.78	238.0	29.5	52.88	119.0	66.0	118.3	266.0
XG 8	105.4	188.85	424.97	52.7	94.42	212.48	117.8	211.1	

BALLAST RECOMMENDATIONS

Below are shown the weights necessary to secure one tube on your X GLOO tent during high winds. At a minimum, this weight should be used on all tubes facing into the wind. However, in order to achieve the most security and stability we strongly recommend that you secure all four tubes on your X GLOO tent.



Matrix Size	Weight Per Tube		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	13 kg (28 lbs)	23 kg (49 lbs)	
XG 4	16 kg (34 lbs)	28 kg (62 lbs)	63 kg (139 lbs)
XG 5	24 kg (53 lbs)	43 kg (95 lbs)	97 kg (214 lbs)
XG 6	34 kg (74 lbs)	60 kg (133 lbs)	136 kg (299 lbs)
XG 8	60 kg (133 lbs)	108 kg (237 lbs)	

Size	X GLOO Ballast System(s) per Tube		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	1x Tube Ballast	2x Tube Ballasts	
XG 4	1x Tube Ballast	2x Tube Ballasts	1x Ballast Barrel
XG 5	1x Tube Ballast	2x Tube Ballasts	1x Ballast Barrel
XG 6	2x Tube Ballasts	1x Ballast Barrel	2x Ballast Barrels
XG 8	1x Ballast Barrel	2x Ballast Barrels	

X GLOO SHAPING AIR

X GLOO - SHAPING AIR

X GLOO GmbH & Co. KG, Windeckstr. 4, 83250 Marquartstein, Germany

Ballast recommendations for X GLOO tents based on anticipated wind speed and direction.
User note: These recommendations are valid only in cases where the X GLOO tent is properly set up and anchored. Improper setup of the X GLOO tent can also result in damage to the tent and possible injury to people in the surrounding area.

Approval: i. A. Vaulun

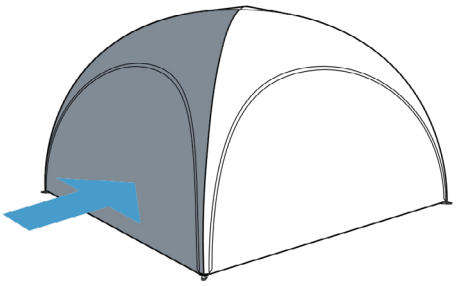
Date: 01.01.2019

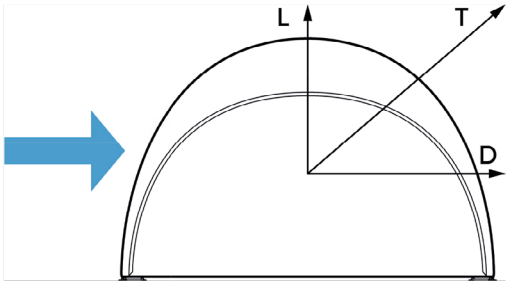
WIND RESISTANCE CERTIFICATE

FORCES

BASIS:
- Wind Speed: 1 m/s = 3.6 km/h
- Density of the flowing medium: 1.224 kg/m³
- Drag Coefficient: 1 (Safety factor of 1.2; estimated actual drag coefficient of 0.6
- Friction of Ballast Barrel and ground: 1 [material: rubber-to-asphalt]

Size	Surface Area with Side Wall
XC 3	5,4 m² (58 ft²)
XD 4	8,5m² (91.5ft²)
XD 5	13m² (139.9 ft²)
XD 6	19m² (204.5 ft²)
XD 7	26 m² (279.8 ft²)

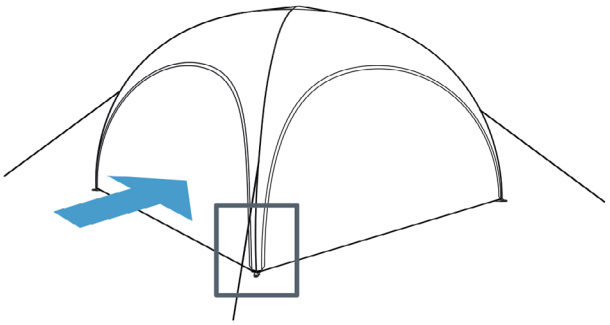




Size	Drag (D) [daN]			Lift (L) [daN]			Total Force (T) [daN]		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	22,8	40,5	91,3	11,4	20,3	45,7	25,5	45,3	
XD 4	24,2	51,7	115,0	11,3	39,6	60,8	35,5	68,0	175,8
XD 5	37,0	79,1	175,9	17,6	42,0	195,0	54,7	121,2	271,0
XD 6	54,1	115,6	257,1	25,4	60,6	136,8	79,6	176,2	305,7
XD 7	74,1	158,3	351,9	34,6	82,4	186,2	108,7	240,0	

BALLAST RECOMMENDATIONS

Below are shown the weights necessary to secure one tube on your X GLOO tent during high winds. At a minimum, this weight should be used on all tubes facing into the wind. However, in order to achieve the most security and stability we strongly recommend that you secure all four tubes on your X GLOO tent.



Size	Weight per Tube		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	13 kg (28 lbs)	23 kg (49 lbs)	
XD 4	18 kg (39 lbs)	34 kg (75 lbs)	89 kg (196 lbs)
XD 5	27 kg (59 lbs)	60 kg (132 lbs)	135 kg (297 lbs)
XD 6	40 kg (88 lbs)	88 kg (194 lbs)	153 kg (337 lbs)
XD 7	54 kg (119 lbs)	120kg (264 lbs)	

Size	X GLOO Ballast System(s) per Tube		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	1x Tube Ballast	2x Tube Ballasts	
XD 4	1x Tube Ballast	2x Tube Ballasts	1x Ballast Barrel
XD 5	1x Tube Ballast	2x Tube Ballasts	2x Ballast Barrels
XD 6	2x Tube Ballasts	1x Ballast Barrel	2x Ballast Barrels
XD 7	1x Ballast Barrel	2x Ballast Barrels	

X GLOO SHAPING AIR

X GLOO - SHAPING AIR

X GLOO GmbH & Co. KG, Windeckstr. 4, 83250 Marquartstein, Germany

Ballast recommendations for X GLOO tents based on anticipated wind speed and direction.
User note: These recommendations are valid only in cases where the XGLOO tent is properly set up and anchored. Improper setup of the X GLOO tent can also result in damage to the tent and possible injury to people in the surrounding area.

Approval: i. A. Daum

Date: 01.01.2019

IMPERMEABILITY

X GLOO certification of the impermeability of X GLOO tent materials.

X GLOO GmbH & Co. KG hereby certifies that the materials used for the production of X GLOO tents have a water column of at least 1500 mm.

Generally, materials with a water column of more than 800 mm can be considered impermeable.

Thomas Allertseder
CEO

X GLOO GmbH & Co. KG
Windeckstr. 4
83250 Marquartstein

+49 (0) 8641 6948-0
info@xgloo.com
www.xgloo.com

UV-PROTECTION FACTOR

X GLOO confirmation of the UV protection factor of X GLOO tent materials.

X GLOO GmbH & Co. KG hereby confirms that the materials used for the production of X GLOO tents have a light protection factor, or UPF (Ultraviolet Protection Factor), of > 50.

Thomas Allertseder
CEO

X GLOO GmbH & Co. KG
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83250 Marquartstein

+49 (0) 8641 6948-0
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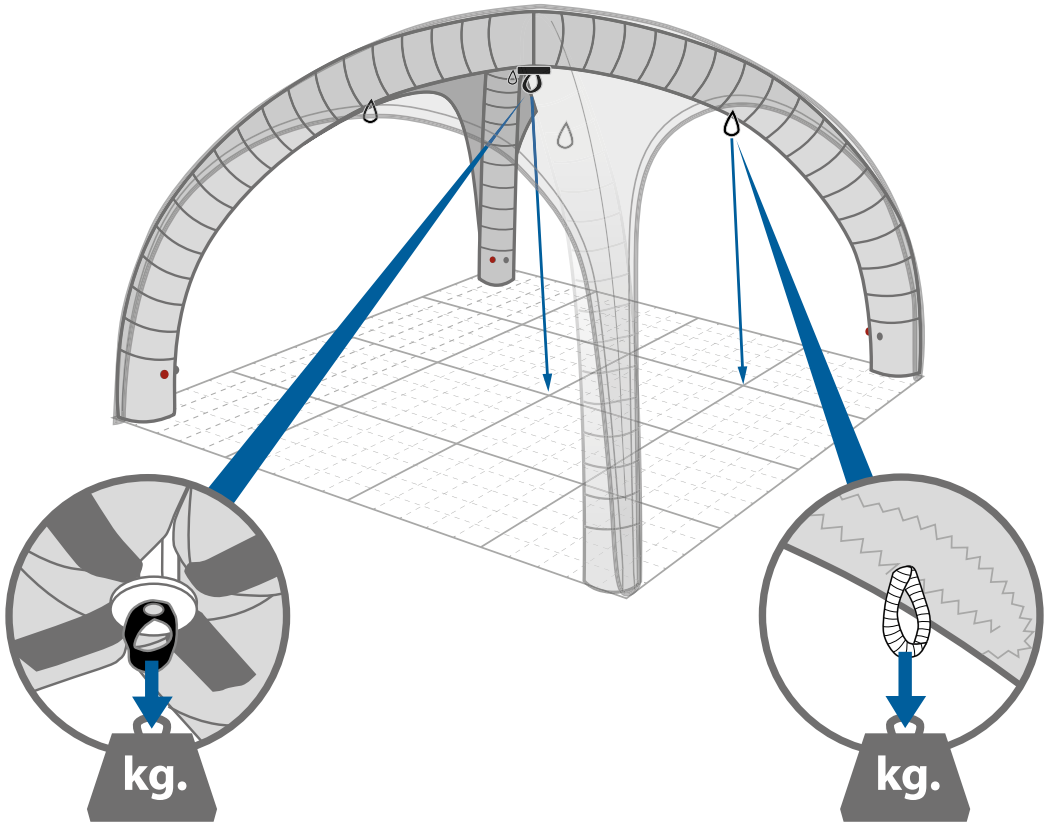
MAXIMUM WEIGHT CERTIFICATE

The loops on X GLOO tents have been designed to bear the hanging loads described below when the tents are properly set up and anchored.
The user shall be held liable for any damage to property or injury to persons. Skywalk GmbH & Co. KG assumes no liability.



TUBE INTERSECTION LOOP INSIDE LOOP

Size	Maximum Weight per Inside Loop	Maximum Weight Tube Intersection Loop	Maximum Total Combined Weight
XC 3	5 kg (11 lbs)	10 kg (22 lbs)	30 kg (66 lbs)
XG 4	5 kg (11 lbs)	15 kg (33 lbs)	35 kg (77 lbs)
XG 5	5 kg (11 lbs)	20 kg (44 lbs)	40 kg (88 lbs)
XG 6	5 kg (11 lbs)	20 kg (44 lbs)	40 kg (88 lbs)
XG 8	5 kg (11 lbs)	25 kg (55 lbs)	45 kg (99 lbs)

X GLOO SHAPING AIR

X GLOO - SHAPING AIR

X GLOO GmbH & Co. KG, Windeckstr. 4, 83250 Marquartstein, Germany

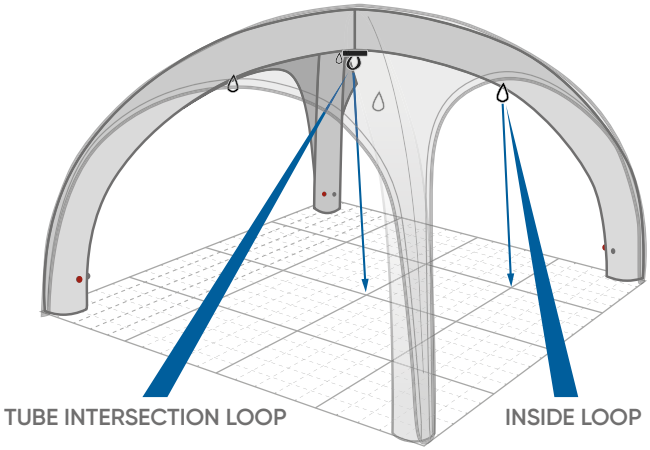
Please Note: These recommendations are valid only in cases where the X GLOO tent is properly set up and anchored. Improper setup of the X GLOO tent can also result in damage to the tent and/or injury to people in the surrounding area.

Approval: i. A. Daiber

Date: 01.01.2019

MAXIMUM WEIGHT

The loops on X GLOO tents have been designed to bear the hanging loads described below when the tents are properly set up and anchored. The user shall be held liable for any damage to property or injury to persons. X GLOO GmbH & Co. KG assumes no liability.



Size	Maximum Weight per Inside Loop	Maximum Weight Tube Intersection Loop	Maximum Total Combined Weight
XC 3	5 kg (11 lbs)	10 kg (22 lbs)	30 kg (66 lbs)
XD 4	5 kg (11 lbs)	15 kg (33 lbs)	35 kg (77 lbs)
XD 5	5 kg (11 lbs)	20 kg (44 lbs)	40 kg (88 lbs)
XD 6	5 kg (11 lbs)	20 kg (44 lbs)	40 kg (88 lbs)
XD 7	5 kg (11 lbs)	25 kg (55 lbs)	45 kg (99 lbs)

X GLOO SHAPING AIR

X GLOO - SHAPING AIR

X GLOO GmbH & Co. KG, Windeckstr. 4, 83250 Marquartstein, Germany

Please Note: These recommendations are valid only in cases where the X GLOO tent is properly set up and anchored. Improper setup of the X GLOO tent can also result in damage to the tent and/or injury to people in the surrounding area.

Approval: i. A. Daubner

Date: 01.03.2019