



Aerise® Inflatable Tents

 **Certificates**



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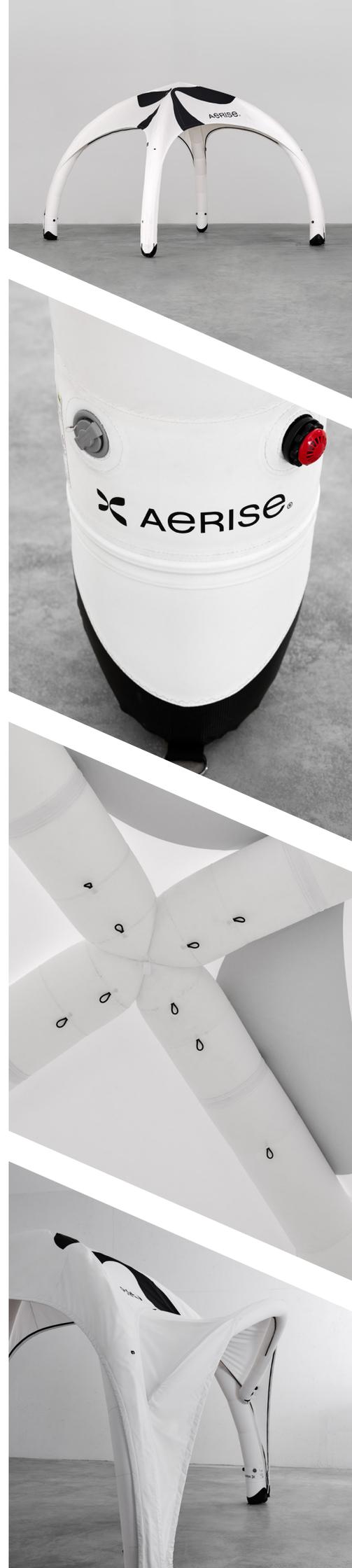


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# Fire Certifications



February 7, 2023

Mr. Brad Smith  
ZINGERLE GROUP USA, INC.  
6965 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 53606  
Invoice No. 84985

Dear Mr. Smith:

One (1) sample, identified as **Pirontex**, was received and tested in accordance with the National Fire Protection Association No. 701, "Standard Methods of Fire Tests for Flame Propagation of Textiles and Films, 2023 Edition, (Test 1)". The results are as follows:

<b>Test Results</b>		
<u>Specimen Number</u>	<u>Residual Flame (seconds)</u>	<u>Weight Loss (percent)</u>
1	0.0	2.44
2	0.0	0.37
3	0.0	1.19
4	0.0	0.06
5	0.0	0.63
6	0.0	12.01
7	0.0	0.37
8	0.0	0.99
9	0.0	0.12
<u>10</u>	<u>0.0</u>	<u>1.72</u>
<b>AVG</b>	<b>0.0</b>	<b>1.99</b>

The sample submitted **meets** the minimum requirements of the above standard. The average percent weight loss cannot exceed 40% and the weight loss of individual specimens cannot exceed mean value plus three standard deviations. The average residual flame cannot exceed 2.0 seconds.

Sincerely,

Brian S. Dement

BSD/mr



OUR LETTERS AND REPORTS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED. ANY COMMUNICATION TO OTHERS OR THE USE OF OUR COMPANY NAME MUST RECEIVE PRIOR APPROVAL. OUR TEST RESULTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. UNLESS OTHERWISE SPECIFIED, ALL COMPLIANCE STATEMENTS ARE SIMPLE ACCEPTANCE. SAMPLES NOT DESTROYED IN TESTING ARE RETAINED A MAXIMUM OF THIRTY DAYS. THE LETTERS, REPORTS OR NAME OF DIVERSIFIED TESTING LABORATORIES, INC. MAY NOT BE USED IN ADVERTISING TO THE GENERAL PUBLIC.



June 18, 2018

Mr. Justin D. Russell  
ZINGERLE GROUP USA, INC.  
6965 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 30751  
Invoice No. 62145

Dear Mr. Russell:

One (1) fabric sample, identified as **PVC FABRIC, LAMINATED 400 GR/M<sup>2</sup>**, was received and tested in accordance with the National Fire Protection Association No. 701, "Standard Methods of Fire Tests for Flame Propagation of Textiles and Films, 2015 Edition, (Test 2, Large Scale)". The results are as follows:

**TEST RESULTS – FOLDS**

<u>Specimen Number</u>	<u>After Flame (seconds)</u>	<u>Residual Flame (seconds)</u>	<u>Char Length (inches)</u>
1	0.0	0.0	19.0
2	0.0	0.0	17.5
3	0.0	0.0	18.0
4	0.0	0.0	19.0

The sample submitted **meets** the minimum requirements of the above standard. The length of char on the individual folded specimens shall not exceed 41.3 inches. Additionally, no specimen shall continue flaming for more than two (2) seconds after the test flame is removed and no residues shall fall to the floor of the test chamber and continue flaming for more than two (2) seconds at any time during the test.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

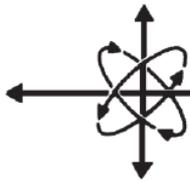
BSD/mr



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# V 400g PVC | CA Title 19 Sec. 1237



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www.diversifiedtestinglabs.com

June 18, 2018

Mr. Justin D. Russell  
ZINGERLE GROUP USA, INC.  
6965 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 30751  
Invoice No. 62145

Dear Mr. Russell:

One (1) fabric sample, identified as **PVC FABRIC, LAMINATED 400 GR/M<sup>2</sup>**, was received and tested in accordance with the California Administrative Code Title 19--Public Safety, Section 1237. Flame Resistance, Small Scale Test. The results are as follows:

### Test Results

<u>Specimen Number</u>	<u>After Flame (sec)</u>		<u>Char Length (in)</u>	
	<u>Length</u>	<u>Width</u>	<u>Length</u>	<u>Width</u>
1	0.0	0.0	3.5	3.3
2	0.0	0.0	4.2	3.6
3	0.0	0.0	4.0	4.1
4	0.0	0.0	3.1	4.9
5	0.0	0.0	3.6	4.8
Avg.	0.0	0.0		

The sample submitted, in its original state, **meets** the minimum requirements of the above standard. The char length may not exceed 6.0 inches for any individual specimen and the average afterflame time may not exceed 4.0 seconds in the length or width directions.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

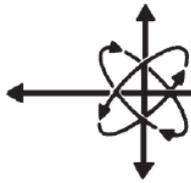
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Dear Mr. Russell:

One (1) fabric sample, identified as **PVC FABRIC, LAMINATED 400 GR/M<sup>2</sup>**, was received and tested in accordance with the California Administrative Code Title 19--Public Safety, Section 1237. Flame Resistance, Small Scale Test. **The sample was tested after 72 hours of leaching.** The results are as follows:

Specimen Number	Test Results		Char Length (in)	
	After Flame (sec)		Length	Width
	Length	Width		
1	0.0	0.0	4.1	4.1
2	0.0	0.0	3.7	3.4
3	0.0	0.0	4.0	4.3
4	0.0	0.0	3.6	3.5
5	0.0	0.0	3.8	4.2
Avg.	0.0	0.0		

The sample submitted, when tested after 72 hours of leaching, **meets** minimum requirements of the above standard. The char length may not exceed 6.0 inches for any individual specimen and the average afterflame time may not exceed 4.0 seconds in the length or width directions.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

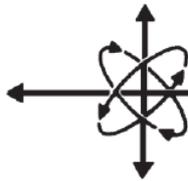
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Reference: Laboratory Test Report  
Lab Identification No. 30751  
Invoice No. 62145

Dear Mr. Russell:

One (1) fabric sample, identified as **PVC FABRIC, LAMINATED 400 GR/M<sup>2</sup>**, was received and tested in accordance with the California Administrative Code Title 19--Public Safety, Section 1237. Flame Resistance, Small Scale Test. **The sample was tested after 100 hours of accelerated weathering.** The results are as follows:

<u>Specimen Number</u>	<u>Test Results</u>		<u>Char Length (in)</u>	
	<u>After Flame (sec)</u>			
	<u>Length</u>	<u>Width</u>	<u>Length</u>	<u>Width</u>
1	0.0	0.0	4.0	5.8
2	0.0	0.0	3.6	4.2
3	0.0	0.0	3.5	4.8
4	0.0	0.0	4.2	4.3
5	0.0	0.0	4.8	5.0
Avg.	0.0	0.0		

The sample submitted, when tested after 100 hours accelerated weathering, **meets** the minimum requirements of the above standard. The char length may not exceed 6.0 inches for any individual specimen and the average afterflame time may not exceed 4.0 seconds in the length or width directions.

If there are any questions or when we can be of further assistance, please let us know.

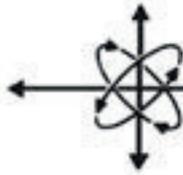
Sincerely,

Brian S. Dement

BSD/mr



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February 7, 2023

Mr. Brad Smith  
ZINGERLE GROUP USA, INC.  
6965 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 53606  
Invoice No. 84985

Dear Mr. Smith:

Attached are the test results on one (1) fabric sample, identified as **Pirontex**. The sample was received and tested in accordance with CPAI 84, "A Specification for Flame Resistant Materials Used In Camping Tentage," Section 6, Wall and Top Material.

Per the above test procedure, the sample was tested in its original state, after 72 hours of leaching and after 100 standard hours of accelerated weathering.

The sample submitted **meets** the minimum requirements of the above standard. When the untreated weight of the sample is over 6.0 oz./sq. yd. but not over 8.0 oz./sq. yd., the maximum average char length may not exceed 6.5 inches, with no individual specimen exceeding 10.0 inches. Additionally, the average afterflame may not exceed 2.0 seconds with no individual value exceeding 4.0 seconds and there may be no residual flame on any of the specimens tested.

Sincerely,

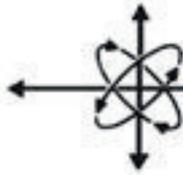
Brian S. Dement

BSD/mr



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Lab Identification No. 53606

Test Procedure: CPAI 84, "A Specification for Flame Resistant Materials Used in Camping Tentage," Section 6, Wall and Top Material

Sample Identification: Pirontex

**ORIGINAL STATE**

Test Results

Specimen Number	After Flame (sec)		Residual Flame (sec)		Char Length (in)	
	Length	Width	Length	Width	Length	Width
1	0.0	0.0	0.0	0.0	3.5	3.9
2	0.0	0.0	0.0	0.0	2.8	4.4
3	0.0	0.0	0.0	0.0	3.1	4.3
4	0.0	0.0	0.0	0.0	3.5	4.2
<b>Avg.</b>	<b>0.0</b>				<b>3.7</b>	

**AFTER LEACHING**

Test Results

Specimen Number	After Flame (sec)		Residual Flame (sec)		Char Length (in)	
	Length	Width	Length	Width	Length	Width
1	0.0	0.0	0.0	0.0	3.0	3.7
2	0.0	0.0	0.0	0.0	3.4	4.3
3	0.0	0.0	0.0	0.0	2.9	3.5
4	0.0	0.0	0.0	0.0	3.6	2.7
<b>Avg.</b>	<b>0.0</b>				<b>3.4</b>	

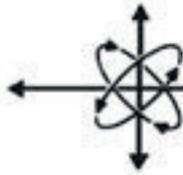
**AFTER ACCELERATED WEATHERING**

Test Results

Specimen Number	After Flame (sec)		Residual Flame (sec)		Char Length (in)	
	Length	Width	Length	Width	Length	Width
1	0.0	0.0	0.0	0.0	2.9	3.5
2	0.0	0.0	0.0	0.0	2.8	3.0
3	0.0	0.0	0.0	0.0	3.4	3.7
4	0.0	0.0	0.0	0.0	3.6	3.5
<b>Avg.</b>	<b>0.0</b>				<b>3.3</b>	

**CONCLUSION: PASS**

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June 18, 2018

Mr. Justin D. Russell  
ZINGERLE GROUP USA, INC.  
6955 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 30751  
Invoice No. 62145

Dear Mr. Russell:

Attached are the test results on one (1) fabric sample, identified as **PVC FABRIC, LAMINATED 400 GR/M<sup>2</sup>**. The sample was received and tested in accordance with CPAI 84, "A Specification for Flame Resistant Materials Used In Camping Tentage," Section 6, Wall and Top Material.

Per the above test procedure, the sample was tested in its original state, after 72 hours of leaching and after 100 standard hours of accelerated weathering.

The sample submitted **meets** the minimum requirements of the above standard. When the untreated weight of the sample is over 10.0 oz./sq. yd., the maximum average char length may not exceed 4.5 inches, with no individual specimen exceeding 10.0 inches. Additionally, the average afterflame may not exceed 2.0 seconds with no individual value exceeding 4.0 seconds and there may be no residual flame on any of the specimens tested.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

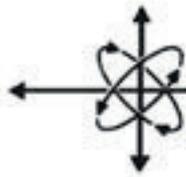
BSD/mr



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# V 400g PVC | CPAI-86 Sec.6



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Lab Identification No. 30751

Page 2

Test Procedure: CPAI 84, "A Specification for Flame Resistant Materials Used in Camping Tentage," Section 6, Wall and Top Material

Sample Identification: PVC FABRIC, LAMINATED 400 GR/M<sup>2</sup>

### ORIGINAL STATE

#### Test Results

Specimen Number	After Flame (sec)		Residual Flame (sec)		Char Length (in)	
	Length	Width	Length	Width	Length	Width
1	0.0	0.0	0.0	0.0	4.4	4.8
2	0.0	0.0	0.0	0.0	4.2	4.7
3	0.0	0.0	0.0	0.0	4.2	4.8
4	0.0	0.0	0.0	0.0	4.3	4.5
<b>Avg.</b>	<b>0.0</b>				<b>4.5</b>	

### AFTER LEACHING

#### Test Results

Specimen Number	After Flame (sec)		Residual Flame (sec)		Char Length (in)	
	Length	Width	Length	Width	Length	Width
1	0.0	0.0	0.0	0.0	3.1	4.3
2	0.0	0.0	0.0	0.0	4.5	4.0
3	0.0	0.0	0.0	0.0	4.4	4.3
4	0.0	0.0	0.0	0.0	4.1	4.4
<b>Avg.</b>	<b>0.0</b>				<b>4.1</b>	

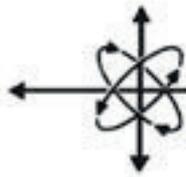
### AFTER ACCELERATED WEATHERING

#### Test Results

Specimen Number	After Flame (sec)		Residual Flame (sec)		Char Length (in)	
	Length	Width	Length	Width	Length	Width
1	0.0	0.0	0.0	0.0	4.3	4.2
2	0.0	0.0	0.0	0.0	3.8	3.4
3	0.0	0.0	0.0	0.0	4.0	2.8
4	0.0	0.0	0.0	0.0	4.3	3.9
<b>Avg.</b>	<b>0.0</b>				<b>4.0</b>	

**CONCLUSION: PASS**

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Reference: Laboratory Test Report  
Lab Identification No. 30751  
Invoice No. 62145

Dear Mr. Russell:

Attached are the test results on one (1) fabric sample, identified as **PVC FABRIC, LAMINATED 400 GR/M<sup>2</sup>**. The sample was received and tested in accordance with **CPAI 84, "A Specification For Flame Resistant Materials Used In Camping Tentage," Section 5, Flooring Material.**

Per the above test procedure, the sample was tested in its original state, after 72 hours of leaching and after 100 standard hours of accelerated weathering.

The sample submitted **meets** the minimum requirements of the above standard. No specimen shall be damaged to within 25 mm of the specimen holder.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

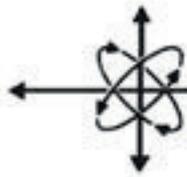
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# V 400g PVC | CPAI-86 Sec.6



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P.O. BOX 4004  
BURLINGTON, NORTH CAROLINA 27215  
PHONE (336) 227-7710 • FAX (336) 227-1175  
www.diversifiedtestinglabs.com

"We Test Per Your Request"

Lab Identification No. 30751

Page 2

Test Procedure: CPAI 84, "A Specification For Flame Resistant Materials Used in Camping Tentage," Section 5, Flooring Material

Sample Identification: PVC FABRIC, LAMINATED 400 GRM<sup>2</sup>

## ORIGINAL STATE

### Test Results

<u>Specimen Number</u>	<u>Uncharred Area (mm)</u>
1	84
2	89
3	89
4	86

## AFTER LEACHING

### Test Results

<u>Specimen Number</u>	<u>Uncharred Area (mm)</u>
1	91
2	90
3	95
4	90

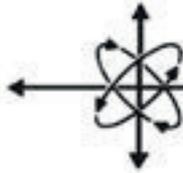
## AFTER ACCELERATED WEATHERING

### Test Results

<u>Specimen Number</u>	<u>Uncharred Area (mm)</u>
1	89
2	84
3	84
4	86

CONCLUSION: **PASS**

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February 7, 2023

Mr. Brad Smith  
ZINGERLE GROUP USA, INC.  
6965 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 53605  
Invoice No. 84985

Dear Mr. Smith:

One (1) sample, identified as Pirontex, was received and tested in accordance with CAN/ULC-S109-14, "Standard for Flame Tests of Flame-Resistant Fabrics and Films", Small-Flame Test. The results are as follows:

**Test Results**

Specimen Number	Residual Flame (sec)		Damaged Length (mm)	
	Warp	Fill	Warp	Fill
1	0.0	0.0	77	125
2	0.0	0.0	75	76
3	0.0	0.0	80	104
4	0.0	0.0	81	105
5	0.0	0.0	85	97
<b>Avg.</b>			<b>91</b>	

The fabric sample submitted meets the minimum requirements of the Small-Flame Test. The maximum average damaged length shall not exceed 165 millimeters and the maximum damaged length for any individual specimen shall not exceed 190 millimeters. No residues shall fall to the floor of the test chamber and continue flaming for more than two (2) seconds at any time during the test.

Sincerely,

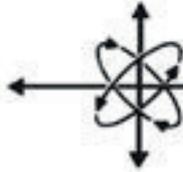
Brian S. Dement

BSD/mr



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February 7, 2023

Mr. Brad Smith  
 ZINGERLE GROUP USA, INC.  
 6965 Northpark Blvd  
 Suite N  
 Charlotte, NC 28216

Reference: Laboratory Test Report  
 Lab Identification No. 53606  
 Invoice No. 84985

Dear Mr. Smith:

One (1) sample, identified as Pirontex, was received and tested in accordance with CAN/ULC-S109-14, "Standard for Flame Tests of Flame-Resistant Fabrics and Films", Large-Flame Test. The results are as follows:

**Test Results**

Specimen Number	Residual Flame (sec)	Char Length (mm)
Length 1	0.0	95
Length 2	0.0	53
Width 1	0.0	67
Width 2	0.0	59

The fabric sample submitted meets the minimum requirements of the Large-Flame Test. The length of char on the individual folded specimens shall not exceed 635 millimeters. No residues shall fall to the floor of the test chamber and continue flaming for more than two (2) seconds at any time during the test.

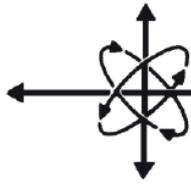
Sincerely,

Brian S. Dement

BSD/mr



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www.diversifiedtestinglabs.com

December 20, 2018

Mr. Justin D. Russell  
ZINGERLE GROUP USA, INC.  
6965 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 33569  
Invoice No. 64779

Dear Mr. Russell:

One (1) fabric sample, identified as **PVC 400GR**, was received and tested in accordance with CAN/ULC-S109-14, “Standard for Flame Tests of Flame-Resistant Fabrics and Films”, Small-Flame Test. The results are as follows:

Specimen Number	Test Results		Damaged Length (mm)	
	Residual Flame (sec)		Warp	Fill
1	0.0	0.0	109	160
2	0.0	0.0	135	145
3	0.0	0.0	124	140
4	0.0	0.0	137	160
5	0.0	0.0	132	165
Avg.			141	

The fabric sample submitted meets the minimum requirements of the Small-Flame Test. The maximum average damaged length shall not exceed 165 millimeters and the maximum damaged length for any individual specimen shall not exceed 190 millimeters. No residues shall fall to the floor of the test chamber and continue flaming for more than two (2) seconds at any time during the test.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

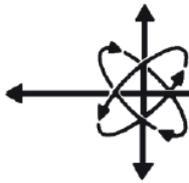
Brian S. Dement

BSD/mr



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December 20, 2018

Mr. Justin D. Russell  
ZINGERLE GROUP USA, INC.  
6965 Northpark Blvd  
Suite N  
Charlotte, NC 28216

Reference: Laboratory Test Report  
Lab Identification No. 33569  
Invoice No. 64779

Dear Mr. Russell:

One (1) fabric sample, identified as **PVC 400GR**, was received and tested in accordance with CAN/ULC-S109-14, “Standard for Flame Tests of Flame-Resistant Fabrics and Films”, Large-Flame Test. The results are as follows:

<u>Specimen Number</u>	<u>Residual Flame (Seconds)</u>	<u>Char Length (Millimeters)</u>
Length 1	>30.0	813
Length 2	0.0	648
Width 1	0.0	381
Width 2	>30.0	445

The fabric sample submitted **does not meet** the minimum requirements of the Large-Flame Test. The length of char on the individual folded specimens shall not exceed 635 millimeters. No residues shall fall to the floor of the test chamber and continue flaming for more than two (2) seconds at any time during the test.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

BSD/mr



OUR LETTERS AND REPORTS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED. ANY COMMUNICATION TO OTHERS OR THE USE OF OUR COMPANY NAME MUST RECEIVE PRIOR APPROVAL. OUR TEST RESULTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. SAMPLES NOT DESTROYED IN TESTING ARE RETAINED A MAXIMUM OF THIRTY DAYS. THE LETTERS, REPORTS OR NAME OF DIVERSIFIED TESTING LABORATORIES, INC. MAY NOT BE USED IN ADVERTISING TO THE GENERAL PUBLIC.



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Brandpuntlaan Zuid 16 | 2665 NZ Bleiswijk  
The Netherlands  
+31 88 3473 723  
nederland@efectis.com

## CLASSIFICATION

### CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Classification no.	2023-Efectis-R001109
Sponsor	Zingerle Group AG Förche 7 39040 NAZ / SCIAVES (BZ) ITALY
Product name	<b>Pirontex fabric</b> Various colours
Prepared by	Efectis Nederland BV
Author(s)	J.L. Onderwater B.Sc. A.H.L.M. Zwinkels B.Sc. B.R. Knottnerus B.Sc.
Project number	ENL-22-001316
Date of issue	October 2023
Number of pages	6

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Page 1 / 6





Efectis Nederland BV  
2023-Efectis-R001109  
October 2023  
Zingerle Group AG

## CLASSIFICATION

### 1. INTRODUCTION

---

This classification report defines the classification assigned to **Pirontex fabric** in accordance with the procedures given in EN 13501-1:2018.

### 2. DETAILS OF CLASSIFIED PRODUCT

---

#### 2.1 GENERAL

The product, **Pirontex fabric**, is defined as a ceiling or wall covering.

#### 2.2 MANUFACTURER

Zingerle Group AG  
Förche 7  
39040 NAZ / SCIAVES (BZ)  
ITALY

#### 2.3 PRODUCT DESCRIPTION

According to the sponsor the product is from inside out composed of:

- Pirontex is fabricated out of a combination of new polyester polymers. The yarn thickness is 600D (2x 300 D double spun);
- A nanocoating (Water Resistant and oil repellent) is applied on the outside use of the product. The inside used side is coated with a PU coating.

The product has a total thickness of 0.3 mm, a density of 850 kg/m<sup>3</sup> and a mass per unit area of approx. 255 g/m<sup>2</sup>.

### 3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

---

#### 3.1 APPLICABLE STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2020+A1:2022	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests
EGR 003:2016	Selection of colours for covering a range



Efectis Nederland BV  
2023-Efectis-R001109  
October 2023  
Zingerle Group AG

## CLASSIFICATION

### 4. CLASSIFICATION AND FIELD OF APPLICATION

#### 4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

#### 4.2 CLASSIFICATION

The product, **Pirontex fabric**, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

The additional classification in relation to flaming droplets / particles is:

**d0**

**Reaction to fire classification: B – s1, d0**

#### 4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	0.3 mm
Surface density	255 g/m <sup>2</sup>
Other properties	A nanocoating (Water Resistant and oil repellent) is applied on the outside use of the product. The inside used side is coated with a PU coating

This classification is valid for the following end use applications:

Substrate	Not applicable
Application	Free hanging
Colour	All colours
Exposure side	Both sides (inside and outside)
Methods and means of fixing	Mechanically
Joints	Not applicable
Other aspects of end use conditions	Closed surface, no openings or gaps between components

#### 4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.





Efectis Nederland BV  
2023-Efectis-R001109  
October 2023  
Zingerle Group AG

**CLASSIFICATION**

5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

J.L. Onderwater B.Sc.  
Junior Project leader Reaction to Fire

A.H.L.M. Zwinkels B.Sc.  
Project leader Reaction to Fire

B.R. Knottnerus B.Sc.  
Project leader Reaction to Fire

FACSIMILE



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Brandpuntlaan Zuid 16 | 2665 NZ Bleiswijk  
The Netherlands  
+31 88 3473 723  
nederland@efectis.com

## CLASSIFICATION

### CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Classification no.	2022-Efectis-R000841
Sponsor	Zingerle Group AG Förche 7 39040 NAZ / SCIAVES (BZ) ITALY
Product name	<b>PVC 400gr</b>
Prepared by	Efectis Nederland BV
Notified body no.	1234
Author(s)	M.S.R. Elsayed B.Sc. E.O. van der Laan M.Sc. A.J. Lock
Project number	ENL-22-000027
Date of issue	July 2022
Number of pages	6

### 3. CLASSIFICATION AND FIELD OF APPLICATION

#### 3.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

#### 3.2 CLASSIFICATION

The product, **PVC 400gr**, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s2**

The additional classification in relation to flaming droplets / particles is:

**d0**

**Reaction to fire classification: B – s2, d0**

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Efectis Nederland BV  
2022-Efectis-R000491  
May 2022  
Zingerle Group AG

## CLASSIFICATION

### 3.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	0.25 mm
Surface density	400 g/m <sup>2</sup>
Other properties	All colours

This classification is valid for the following end use applications:

Substrate	Not applicable
Application	Free standing
Methods and means of fixing	Mechanically
Joints	Not applicable
Other aspects of end use conditions	Closed surface, no openings, or gaps between components

### 3.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.

## 4. LIMITATIONS

This classification document does not represent type approval or certification of the product.

M.S.R. Elsayed B.Sc.  
Project leader Reaction to Fire

E.O. van der Laan M.Sc.  
Project leader Reaction to Fire

A.J. Lock  
Manager Testing Reaction to Fire

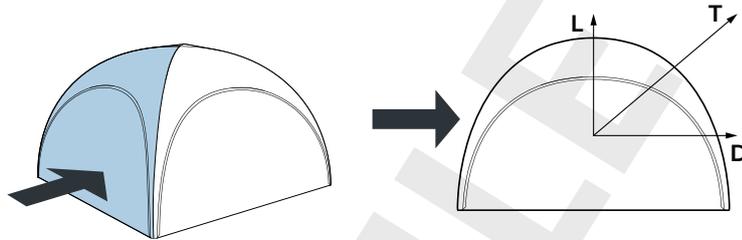
# Certifications and Test Reports

# WIND RESISTANCE CERTIFICATE

## FORCES

- Wind Speed: 1m/s = 3.6 km/h
- Density of the flowing medium: 1.224 kg/m<sup>3</sup>
- 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
3x3	5,4m <sup>2</sup> (58ft <sup>2</sup> )
4x4	8,5m <sup>2</sup> (91.5ft <sup>2</sup> )
5x5	13m <sup>2</sup> (13.99ft <sup>2</sup> )
6x6	19m <sup>2</sup> (204.5ft <sup>2</sup> )

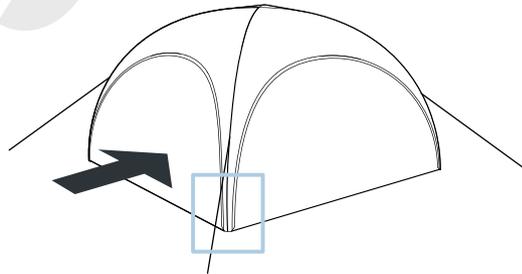


Size	Drag (D) [daN]			Lift (L) [daN]			Total Force (T) [daN]		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
3x3	22,8	40,5	91,3	11,4	20,3	45,7	25,5	45,3	/
4x4	24,2	51,7	115,0	11,3	39,6	60,8	35,5	68,0	175,8
5x5	37,0	79,1	175,9	17,6	42,0	195,0	54,7	121,2	271,0
6x6	54,1	115,6	257,1	25,4	60,6	136,8	79,6	176,2	305,7

## BALLAST RECOMMENDATIONS

Below are shown the weights necessary to secure one tube on your Aerise® 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 Aerise® 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)
3x3	13 kg (28lbs)	23 kg (49lbs)	/
4x4	18 kg (39lbs)	34 kg (75lbs)	89 kg (196lbs)
5x5	27 kg (59lbs)	60 kg (132lbs)	135 kg (297lbs)
6x6	40 kg (88lbs)	88 kg (194lbs)	153 kg (337lbs)



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)
3x3		1x Tube Ballast	2x Tube Ballasts
4x4		1x Tube Ballast	2x Tube Ballasts
5x5		1x Tube Ballast	2x Tube Ballasts
6x6		2x Tube Ballasts	1x Ballast Barrel
			1x Ballast Barrel
			2x Ballast Barrels
			2x Ballast Barrels

## AERISE®

ZINGERLE GROUP AG • Pustertaler Straße 2 • I-39040 Natz-Schabs (BZ)

Ballast recommendations for Aerise® tents based on anticipated wind speed and direction.

User note: These recommendations are valid only in cases where the Aerise® tent is properly set up and anchored. Improper setup of the Aerise® tent can also result in damage to the tent and possible injury to people in the surrounding area.

Approval: *J. A. Weidner*

Date: 18.11.2018



**Test Report**

No.: SDHGR123444kjjoàà

Date: Sep.12, 2017

Page 1 of 5

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

Sample Description : SUPER CLEAR PVC FILMS  
 Country of Destination : EUROPE  
 Test Requested : NF P 92-507:2004 Fire safety-building-interior fitting materials-Classification according to their reaction to fire  
 Sample Receiving Date : Sep.12,2017  
 Test Performing Date : Sep.12, 2017 to Sep.16,2017  
 Test Result(s) : For further details, please refer to the following page(s)  
 Conclusion : **Classification**  
**Super clear PVC film: M2**

Note: The classes with their corresponding fire performance are given in Annex I.

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

Jack Yao  
 Approved signatory

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Attention: For the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-25)86571143, or e-mail: CH.Doccheck@sgs.com

**SDHG**

SGS Cristal Technical Services S. L. U. 15 F Building, European Industrial Park, 1 Shuren Road, White Snake, Jiangbei New District, Chongqing, China 528333 t (86-757)22805888 f (86-757)22805858 www.cn.sgs.com  
 中国·广东·佛山市顺德区大良街道办事处长沙路1号欧洲工业园1号厂房 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com



CENTRO TESSILE COTONIERO E ABBIGLIAMENTO S.p.A.  
Piazza Sant' Anna 2  
21052 Busto Arsizio VA, Italy

OEKO-TEX®  
CONFIDENCE IN TEXTILES

# CERTIFICATE

## The Company

**JK Group Spa**  
SP 32 Novedrate 33  
22060 Novedrate CO, ITALY

is granted authorisation according to ECO PASSPORT by OEKO-TEX® to use the OEKO-TEX® mark



## for the following chemical products

**Product(s):** See attached enclosure  
**Category:** Pigments and inks

## Supporting documents

- Declaration of conformity in accordance with EN ISO 17050-1 included in ECO PASSPORT by OEKO-TEX® Terms of Use.
- Analytical test report number: 19RA09920
- RSL Screening Report
- Detailed information about the components and safety data sheets of the chemical products mentioned above.

The above captioned product(s) can be used for the production of human-ecological optimized textiles & leathers. The combined results of the reports mentioned above reveal that there is no harmful effect on the human and environmental health of the textiles & leathers treated/finished with the above mentioned products. This evaluation used the test methods and requirements of the ECO PASSPORT by OEKO-TEX® that were in force at the time of the evaluation date. ZDHC MRS L Conformance Level 1 is achieved for certified product(s) without restriction(s).

Busto Arsizio, 19.07.2019

**Chiara Salmoiraghi**  
OEKO-TEX® Certification Scheme Manager  
CENTROCOT



Akkreditierte Prüfstelle – TITV e. V. • Zeulenrodaer Str. 42 • 07973 Greiz

ZINGERLE GROUP SpA  
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39040 Naz-Sciaves

Textilforschungsinstitut  
Thüringen-Vogtland e. V.  
Akkreditierte Prüfstelle

Zeulenrodaer Str. 42  
07973 Greiz – Germany

Italien

**Prüfbericht 197/25**

Seite 1 von 2 Seiten

Klob

27.06.2025

<b>Auftraggeber:</b>	Herr G. Silgoner
<b>Auftragstermin:</b>	13.06.2025
<b>Probeneingang:</b>	18.06.2025
<b>Proben:</b>	<b>1 textiles Material, beschichtet</b> (Lauf. Nr. / Kennzeichnung des Auftraggebers) 1. Pirontex
<b>Prüfauftrag:</b>	Bestimmung des UV-Schutzfaktors UPF
<b>Probenahme:</b>	durch Auftraggeber
<b>Probenvorbereitung/ Prüfverfahren:</b>	DIN EN 13758-1:2007 Schutzeigenschaften gegen ultraviolette Sonnenstrahlung; Teil 1 (DIN EN 13758-1):2007 Prüfverfahren für Bekleidungstextilien (akkreditiertes Prüfverfahren)  Bei der Berechnung des UPF wird das Sonnenspektrum von Albuquerque verwendet.
<b>Prüfzeitraum:</b>	23.06. – 26.06.2025
<b>Prüfergebnisse:</b>	Seite 2 und Anlagen

Durch die DAkkS  
Deutsche Akkreditierungsstelle GmbH  
akkreditiertes Prüflaboratorium

In der Anlage zur Akkreditierungsurkunde sind alle akkreditierten Prüfverfahren aufgeführt. Auf Wunsch wird die Urkunde zugestellt.



Amtsgericht Greiz VR 206  
Gönichtsstand Greiz  
  
Ust-Id-Nr.: DE151887921  
Steuer-Nr.: 161/142/21434

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**Entnahme der Messproben:**

Aus der Probe wurden 6 Messproben (je 5 x 4 cm<sup>2</sup>) zur Klimatisierung entnommen.

**Prüfergebnisse:**

Lauf. Nr.	Probenbezeichnung, Farbe, (Bemerkungen)	UVA in %	UVB in %	UPF der Probe	UPF der Probe anzugeben mit
1	Pirontex.	0,1	< 0,1	> 2000	> 50

Die Einzelwerte der Messungen sind in der Anlage enthalten.

Die Prüfergebnisse beziehen sich ausschließlich auf die Proben im Anlieferungszustand. Ohne schriftliche Genehmigung der Prüfstelle darf der Bericht nicht auszugsweise vervielfältigt werden.

  
Dr. Ulrike Klobes  
Leiter der Prüfstelle

# Data Sheets

Pirontex®

<b>Yarn count</b>	2 x 300D = 600D (double spun)	
<b>Weight</b>	255 g/m <sup>2</sup>	
<b>Density</b>	80 (warp) x 60 (weft) per inch <sup>2</sup>	
<b>Finishing</b>	PU colour 3x, ANTI-UV	
<b>Elongation</b> (EN 53360)	6 % permanent elongation	
<b>Highest traction</b> (ISO 13934-1:1999 - Mean value from five levels each)	warp	2.120 N
	weft	1.630 N
<b>Bending strength</b> (DIN EN ISO 32100)	without UV exposure: cracking after 100.000 folds	
	with UV exposure: cracking after 31.500 folds	
<b>Water column</b> (DIN EN 20811)	5.000 mm	
<b>Light fastness</b>		dyed thread
	(DIN EN ISO 105-B02)	bluescale: 7-8 (von max. 8)
	(DIN EN ISO 105-A02)	greyscale: 4,5 (of max. 5)
<b>Coating</b>	nano coating: water, oil and dirt repellent	
<b>Fire protection class</b> (DIN EN 13501-1: 2018)	B - s1, d0 (difficult to ignite)	

Production Process Pirontex®



50% less  
energy consumption



60% less  
CO<sub>2</sub> emissions



80% less  
water consumption

## V Data Sheet | Cristal 0,5 mm FR M2

Description	Norm	Values	U.M.M		Tolerances
Composition		100*	%	PVC	
Softness		44 PHR			
Thickness		0,5	mm		+/- 0,02
Weight		650	gr/m2		+/- 5%
French norm	NF P 92-507:2004	M2			
Width		140	cm		+/- 1
Tensile strength	ASTM D882	≥ 30	N/mm <sup>2</sup>	Warp	
		≥ 28	N/mm <sup>2</sup>	Weft	
Elongation at Break	ASTM D882	≥ 300	%	Warp	
		≥ 300	%	Weft	
Tear strength	ASTM D1004-91A	≥ 91	N/mm	Warp	
		≥ 87	N/mm	Weft	
		REACH - ROHS			

All values are given for information only.





# ZINGERLE GROUP



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