

# ISIL MUHENDISLIK MAKINA VE INSAAT SAN. TIC. A.S. TEST REPORT

**SCOPE OF WORK**

UL 181 SECTION 11-2013; BURN TEST FOR FACTORY-MADE AIR DUCTS AND AIR CONNECTORS ON FLEXIVA SKY FIBER INSULATED/FLEXIVA ARTIST FIBER.

**REPORT NUMBER**

103813892MID-001

**TEST DATE**

02/01/19

**ISSUE DATE**

02/01/19

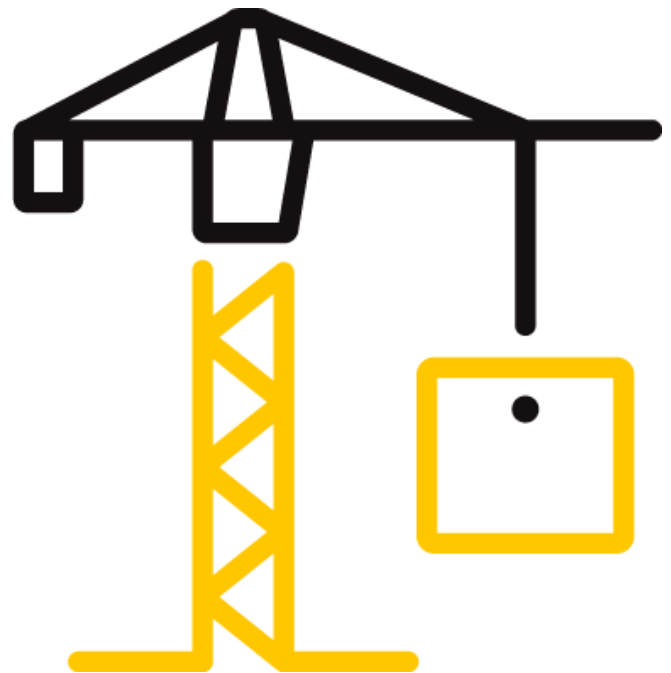
**PAGES**

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**DOCUMENT CONTROL NUMBER**

GFT-OP-10c (AUGUST 27, 2018)

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## TEST REPORT FOR ISIL MUHENDISLIK MAKINA VE INSAAT SAN. TIC. A.S.

Report No.: 103813892MID-001

Date: 02/01/19

### REPORT ISSUED TO

**ISIL MÜHENDISLIK MAKINA VE INSAAT SAN. TIC. A.S.**

Yayalar Mah. Akin Sok. NO: 18/1

Pendik, Istanbul

Turkey 34909

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by ISIL MÜHENDISLIK MAKINA ve INSAAT SAN. TIC. A.S., Yayalar Mah. Akin Sok. No: 18/1, Pendik Istanbul, Turkey 34909 to perform testing in accordance with UL 181 SECTION 11-2013; Burn Test for Factory-Made Air Ducts and Air Connectors, on their product marketed under the names Flexiva Sky Fiber Insulated and Flexiva Artist Fiber. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek test facility in Middleton, WI.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

### SECTION 2

#### SUMMARY OF TEST RESULTS

The duration of the flaming or glowing of any specimen after withdrawing the test flame did not exceed 60 seconds. Flaming or glowing did not travel to the end of the specimen's farthest point from the flame application. Particles did not drop from the 45-degree and horizontal exterior surface testing to ignite the surgical cotton. The product marketed under the names Flexiva Sky Fiber Insulated and Flexiva Artist Fiber did meet the specified performance requirements.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Joel Zumwalt	<b>REVIEWED BY:</b>	Mark Crawford
<b>TITLE:</b>	Lab Technician III	<b>TITLE:</b>	Engineering Team Leader
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	02/01/19	<b>DATE:</b>	02/01/19

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## TEST REPORT FOR ISIL MUHENDISLIK MAKINA VE INSAAT SAN. TIC. A.S.

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### SECTION 3

#### TEST METHOD

The specimens were evaluated in accordance with the following:

**UL 181 SECTION 11-2013; Burn Test for Factory-Made Air Ducts and Air Connectors**

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. Samples were received at the Evaluation Center on February 1, 2019, 2019 in good condition verified by Sample ID# MID1902010849-001

### SECTION 5

#### EQUIPMENT

EQUIPMENT			
DESCRIPTION - ASSET #:	Sport line Stopwatch- 1251	CALIBRATION DUE:	7/19/2019
DESCRIPTION - ASSET #:	Humboldt Burner- 1476	VBU:	2/1/2019
DESCRIPTION - ASSET #:	Omega Sample Room Reader- 1324	CALIBRATION DUE:	10/12/2019
DESCRIPTION - ASSET #:	Angle Locator- 700	CALIBRATION DUE:	1/8/2020
DESCRIPTION - ASSET #:	Key Instruments Flowmeter- 1208	CALIBRATION DUE:	7/29/2019
DESCRIPTION - ASSET #:	Sample Room Reader-1451	CALIBRATION DUE:	12/4/2019
DESCRIPTION - ASSET #:	Omega Test Room Reader- 1371	CALIBRATION DUE:	4/10/2019

### SECTION 6

#### TEST PROCEDURE

Testing was conducted in accordance with section 11 of the standard.

### SECTION 7

#### TEST SPECIMEN DESCRIPTION

The product tested was a collapsible insulated duct marketed under the product names of Flexiva Sky Fiber Insulated and Flexiva Artist Fiber. The test product was received as 6 approximately 3 ft. by 10" diameter ductwork silver in color with inner insulated material white in color covered by another inner material silver in color.

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**SECTION 8  
TEST RESULTS**

TEST RESULTS				
Horizontal Position	Interior		Exterior	
Application No.	1st	2nd	1st	2nd
Ignition Time (seconds)	0	0	0	0
Dripping (Y/N)	N	N	N	N
After flame (seconds)	0	0	0	0
Observations	There was distortion of the outer foil but no ignition or breach of outer foil, there was light smoke during test flame application, little to no charring of foil			
Vertical Position	Interior		Exterior	
Application No.	1st	2nd	1st	2nd
Ignition Time (seconds)	0	0	0	0
Dripping (Y/N)	N	N	N	N
After flame (seconds)	0	0	0	0
Observations	There was distortion of the outer foil but no ignition or breach of outer foil, there was light smoke during test flame application, little to no charring of foil			
45 Degree Position	Interior		Exterior	
Application No.	1st	2nd	1st	2nd
Ignition Time (seconds)	0	0	0	0
Dripping (Y/N)	N	N	N	N
After flame (seconds)	0	0	0	0
Observations	There was distortion of the outer foil but no ignition or breach of outer foil, there was light smoke during test flame application, little to no charring of foil			

**SECTION 9  
CONCLUSION**

The duration of the flaming or glowing of any specimen after withdrawing the test flame did not exceed 60 seconds. Flaming or glowing did not travel to the end of the specimen’s farthest point from the flame application. Particles did not drop from the 45-degree and horizontal exterior surface testing to ignite the surgical cotton.

The product marketed under the names Flexiva Sky Fiber Insulated and Flexiva Artist Fiber did meet the specified performance requirements.



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**TEST REPORT FOR ISIL MUHENDISLIK MAKINA VE INSAAT SAN. TIC. A.S.**

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**SECTION 10**  
**REVISION LOG**

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