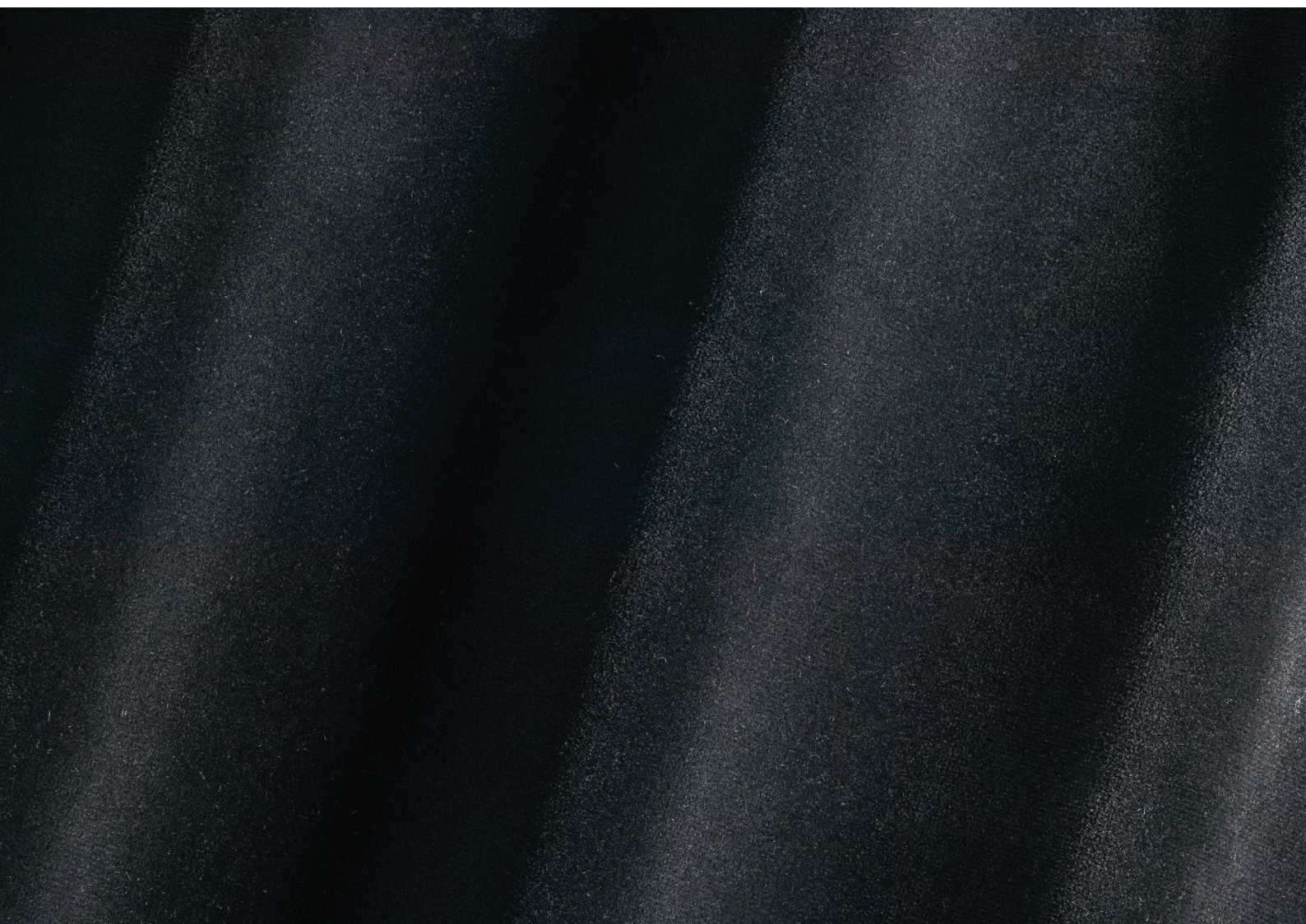


The West End Collection - Lyric

Perfect For: Masking • Decorative/Scenic • Film & TV • Stage



J&C Joel 

Inspiration in every performance

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TECHNICAL



NDFR

Non Durably Flame Retardant

chemically treated with a water solution and if wetted in any way should be retreated



DFR

Durably Flame Retardant

chemically treated to withstand a number of cleanings



IFR

Inherently Flame Retardant

woven from fibres with a high flame retardancy



FR

Flame Retardant

chemically treated to an individual specification



NOT FR

Not Flame Retardant no flame retardant treatment



Confirmation that the fabric meets one or more flame retardant standards

BS5867 BS5867 Pt2 B is the British Standard for flame retardant fabrics used for curtains and drapes

BS5852 BS5852 Pt1 is the British Standard for flammability of upholstered composites for seating

BS4790 BS4790: 1987 Determination of the effects of a small source of ignition on textile floor coverings hot metal nut method (method 1, loose laid)

EN13773: 2003 Meets European fire safety standards for vertically hung fabrics. Burning behavior, ignitability testing of curtain fabric for use in the contract market.

TL 1080-0002/8 German Military Specification for horizontally tested materials

EN14041 Details the requirement for CE Marking of textiles, laminate and resilient floor coverings

BS7905-1:2001 Lifting equipment for performance, broadcast and similar applications.

ATTRIBUTES



Approx roll length of material in linear metres (m) & feet (ft)



Approx width of material in centimetres (cm) & inches (")



Approx weight in grams per metre squared (g/m²)



Approx thickness in (mm)

M1, M2, M4 Conforms to French Fire Regulations

B1, B2 Conforms to German Fire Regulations DIN 4102

IMO Conforms to International Maritime Organisation regulations

Classe Uno Meets Italian Fire Regulations

BS EN13501-1 Fire Classification of construction, products and building elements. Classification using test data from reaction to fire tests

CFC EN ISO 9239-1 Reaction to fire test. Horizontal surface spread of flame on floor covering system. Determination of the burning behaviour using a retardant heat source

NFPA 701 NFPA 701: (USA) Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

EN9239-1 Reaction to fire tests – horizontal surface spread of flame on floor covering systems

DIN EN1021 Meets European fire safety standards for exposure to different ignition sources, namely a lit cigarette and butane flame. Assessment of the ignitability of upholstered furniture

Datasheet - Fabrics & Flooring

The West End Collection - Lyric

To ensure you get the best from the product supplied to you, we advise you follow the care instructions within this datasheet.

Fabric	Flame Retardancy	IFR
	Fire Certification	BS5867, NFPA 701, IMO, EN13773, CA1237
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	100% Polyester
	Construction of Fabric	Warp Knitted
Chemicals	Surface Treatments	Dyed
	Brand Name of Flame Retardant Chemicals	N/A
	Chemical name of Flame Retardant Chemicals	N/A
	Process of Flame Retardant Chemicals	N/A
Care	Information	Cold Water Wash, No Bleach, Tumble Dry (Synthetic Setting), Wash dark colours separately.
	Laundering Treatment	     Dry Clean Only Cold Water Only Do Not Bleach Do Not Iron Synthetic Setting Only
Notes		Martindale Rub Test, Abrasion Resistance: above 50,000 (certificate available).



Fire Rating:
IFR



Approx Roll Length:
55m / 180ft



Width:
150cm / 59"



Weight:
400 g/m²



Fire Certification:
BS5867, NFPA 701, IMO,
EN13773, CA1237



Colours
Available



Fabric Thickness:
1.36 mm

Determination of fabric thickness BS EN ISO 5084: 1997. Test report available upon request.

For further information please contact our sales team sales@jcjoel.com

Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: BS5867: 2008

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(28115) 21, Yangcheon-g3gil, Ochang-eup, cheongwon-gu, Cheongju-si Chungbuk, Korea
Tel : 043-711-8875 Fax : 043-711-8804

TEST REPORT



REPORT NO. : M270-20-14035
SAMPLE RECEIVED DATE : 2020-09-14
TEST STARTED DATE : 2020-09-14
REPORT ISSUED DATE : 2020-09-22
PAGE : 1 OF 2

DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE FABRIC.

=====

ITEM : LYRIC

=====

TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGE.

=====

PREPARED AND CHECKED BY
FOR FITI


HONG-KWAN KIM
QUALITY MANAGER

AUTHORIZED BY
FOR FITI


JE-GOO JUN
PRESIDENT

※ Report Verification No.: 47KA-7GRX-MDCV ※

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: BS5867: 2008

J&C Joel 
the inspiration behind the performance



(28115) 21, Yangcheong-3gil, Ochang-eup, cheongwon-gu, Cheongju-si Chungbuk, Korea
Tel : 043-711-8875 Fax : 043-711-8804

REPORT NO.: M270-20-14035
PAGE : 2 OF 2

01. FLAMMABILITY (BS 5867-2 : 2008, TYPE "B"/BS EN ISO 15025 : 2002, PROCEDURE "A")

#1							
SPECIMEN	LENGTH			WIDTH			AVG.
	1	2	3	1	2	3	
WHETHER THE LOWEST BOUNDARY OF ANY FLAME OR HOLE REACHES THE UPPER OR EITHER VERTICAL EDGE	NO	NO	NO	NO	NO	NO	-
OCCURRENCE OF FLAMING DEBRIS	NO	NO	NO	NO	NO	NO	-
AFTERFLAME TIME(s)	0	0	0	0	0	0	0
AFTERGLOW TIME(s)	0	0	0	0	0	0	0
CONCLUSION	THE SUBMITTED SAMPLE MEETS THE FLAMMABILITY REQUIREMENTS FOR TYPE "B", AS SPECIFIED IN BS 5867-2 : 2008, WHEN TESTED IN ITS ORIGINAL STATE.						

NOTE) · TESTED SURFACE : FACE SIDE
· TYPE OF IGNITION : SURFACE IGNITION
· FLAME APPLICATION TIME : 15(s)
· PRETREATMENT : THE PRETREATMENT WAS NOT CONDUCTED BY THE CLIENT'S REQUEST.
· REQUIREMENTS : NO PART OF ANY HOLE NOR ANY PART OF THE LOWEST BOUNDARY OF ANY FLAME SHALL REACH THE TOP EDGE OR EITHER VERTICAL EDGE OF THE SAMPLE. IF ANY PART OF ANY HOLE OR ANY PART OF THE LOWEST BOUNDARY OF ANY FLAME, REACHES THE TOP EDGE OR EITHER VERTICAL EDGE, OR IF THERE IS ANY SEPARATION OF ANY FLAMING DEBRIS DROPLETS IN THE TESTING OF ONE SPECIMEN, A FURTHER SIX SPECIMENS SHALL BE TESTED. ALL SIX NEW SPECIMENS COMPLY WITH THE ABOVE REQUIREMENTS, THE FABRIC SHALL BE DEEMED TO CONFORM TO THE REQUIREMENTS FOR TYPE "B" OF THIS BRITISH STANDARD.

** End of The Report **

SAMPLE :

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: NFPA 701

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(28115) 21, Yangcheong-3gil, Ochang-eup, cheongwon-gu, Cheongju-si Chungbuk, Korea
Tel : 043-711-8875 Fax : 043-711-8804

TEST REPORT



REPORT NO. : M270-20-14034
SAMPLE RECEIVED DATE : 2020-09-14
TEST STARTED DATE : 2020-09-14
REPORT ISSUED DATE : 2020-09-22
PAGE : 1 OF 2

DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE FABRIC.

=====

ITEM : LYRIC

=====

TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGE.

=====

PREPARED AND CHECKED BY
FOR FITI


HONG-KWAN KIM
QUALITY MANAGER

AUTHORIZED BY
FOR FITI


JE-GOO JUN
PRESIDENT

※ Report Verification No.: W9I2-QBM5-BG6V ※

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: NFPA 701

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Tel : 043-711-8875 Fax : 043-711-8804

REPORT NO.: M270-20-14034
PAGE : 2 OF 2

01. FLAMMABILITY (NFPA 701 : 2019, METHOD 1)

#1					
SAMPLE NO.	WEIGHT(g)		WEIGHT LOSS(%)	AFTER FLAME TIME(s)	DRIP BURN(s)
	ORIGINAL	AFTER TEST			
1	25.1	19.5	22.3	0	0
2	25.3	22.6	10.7	0	0
3	25.2	20.3	19.4	0	0
4	25.2	19.2	23.8	0	0
5	25.1	20.1	19.9	0	0
6	25.2	20.0	20.6	0	0
7	25.2	20.0	20.6	0	0
8	25.3	20.2	20.2	0	0
9	25.1	22.4	10.8	0	0
10	25.2	19.8	21.4	0	0
AVG.	25.2	20.4	19.0	0	0
CONCLUSION	BASED UPON THE RESULTS, THE SUBMITTED SAMPLE MEETS PERFORMANCE REQUIREMENTS AS STATED IN NFPA 701 TEST METHOD 1(2019).				

NOTE) • REQUIREMENT

DRIP BURN(s)	WEIGHT LOSS(%)	NO INDIVIDUAL SPECIMEN'S WEIGHT LOSS EXCEED THE MEAN VALUE PLUS 3 STANDARD. STANDARD DEVIATION = 4.53 THE MEAN VALUE PLUS 3 STANDARD = 32.6
AVG. : LESS THAN 2	AVG. : LESS THAN 40	

• TESTS WERE CONDUCTED ONLY IN THE ORIGINAL STATE BY THE CLIENT'S REQUEST.

** End of The Report **

SAMPLE :

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: EN13773

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Test Report

Report No.: AJFS2210008004RS

Date: OCT.18, 2022

Page 1 of 5

Sample Description: POLYESTER VELOUR – LYRIC

Style/Item No.: /

Buyer: J&C JOEL LIMITED

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

Test Requested:

EN 13773:2003 Textiles and textile products - Burning behaviour - Curtains and drapes - Classification scheme.

Test Results: – See attached sheet –

Conclusion: The test sample "as received" meets the requirements of Class 1 specified in EN 13773:2003.

Test Period:

Sample Receiving Date : OCT.10, 2022

Test Performing Date : OCT.10, 2022 TO OCT.17, 2022

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Allen Zou
Approved Signatory

scan to see the report



AJFS2210008004RS



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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: EN13773

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Test Report

Report No.: AJFS2210008004RS Date: OCT.18, 2022 Page 2 of 5

I. Test conducted

This test was conducted in accordance with EN 1101:1995+A1:2005 Textiles and textile products - Burning behaviour - Curtains and drapes - Detailed procedure to determine the ignitability of vertically oriented specimen (small flame) and EN 13772:2011 textiles and textile products-burning behaviour – curtains and drapes – measurement of flame spread of vertically oriented specimens with large ignition source, classification according to EN 13773:2003.

II. Sample Details

Sample description / Color	Fabric / Black
Area density	375 g/m ²
Sample configuration	Single layer
Size of specimen	200 mm × 80 mm; 560 mm × 170 mm

Cleaning Procedure & Conditioning:

Cleaning Procedure: None

Conditioning: Prior to testing, the specimens were conditioned at least 24 h in an atmosphere having a temperature of 20±2°C and a relative humidity of 65±5%.

At time of testing: Temperature between 10°C ~ 30°C and Relative humidity between 15% ~ 80%

III. Test results

a) EN 1101:1995+A1:2005 (Test method: EN ISO 6940:1995, Edge ignition)

Specimen No.	Lengthwise							
	1	2	3	4	5	6	7	8
Ignition time (s)	1	2	3	4	5	10	15	20
After flame time (s)	0	0	0	0	0	0	0	0
Reaches the top or vertical edges (Yes/No)	No	No	No	No	No	No	No	No
Specimen No.	Widthwise							
	1	2	3	4	5	6	7	8
Ignition time (s)	1	2	3	4	5	10	15	20
After flame time (s)	0	0	0	0	0	0	0	0
Reaches the top or vertical edges (Yes/No)	No	No	No	No	No	No	No	No

Comment : [] Ignition, [☒] Non-ignition



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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: EN13773

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Test Report

Report No.: AJFS2210008004RS

Date: OCT.18, 2022

Page 3 of 5

b) EN 13772:2011 (flame applied time, 10 s; Bottom edge ignition)

Lengthwise: Preliminary test to indicate the worst result (if applicable)

Items	Face (one side of specimen)	Back (other side of specimen)
First thread is severed (Yes (specified time, s) /No)	No	No
Third thread is severed (Yes (specified time, s) /No)	No	No
Damaged length (mm)	72	70
Flaming debris (Yes/No)	No	No
Non-Flaming debris (Yes/No)	No	No

Base on the Preliminary test with indicating the worst result and test the other two specimens in the same way which gave the worst results.

The following test for other two specimens ([☒] Face; [☐] Back)

Items	2	3
First thread is severed (Yes (specified time, s) /No)	No	No
Third thread is severed (Yes (specified time, s) /No)	No	No
Damaged length (mm)	75	74
Flaming debris (Yes/No)	No	No
Non-Flaming debris (Yes/No)	No	No

Comment: The 1st marker threads not severed and no flaming debris.

Widthwise: Preliminary test to indicate the worst result (if applicable)

Items	Face (one side of specimen)	Back (other side of specimen)
First thread is severed (Yes (specified time, s) /No)	No	No
Third thread is severed (Yes (specified time, s) /No)	No	No
Damaged length (mm)	77	75
Flaming debris (Yes/No)	No	No
Non-Flaming debris (Yes/No)	No	No



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Anji Branch Fire Technology Service

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: EN13773

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Test Report

Report No.: AJFS2210008004RS

Date: OCT.18, 2022

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Base on the Preliminary test with indicating the worst result and test the other two specimens in the same way which gave the worst results.

The following test for other two specimens ([√] Face; [] Back)

Items	2	3
First thread is severed (Yes (specified time, s) /No)	No	No
Third thread is severed (Yes (specified time, s) /No)	No	No
Damaged length (mm)	79	75
Flaming debris (Yes/No)	No	No
Non-Flaming debris (Yes/No)	No	No

Comment: The 1st marker thread is not severed and no flaming debris.

Additional Information for reference

1) Class definitions

Class	Ignitability	Flame spread
1	Non ignition according to EN 1101	1 st marker threads not severed, no flaming debris, according to EN 13772
2	Non ignition according to EN 1101	3 rd marker threads not severed, no flaming debris, according to EN 13772
3	Non ignition according to EN 1101	3 rd marker threads severed, and/or flaming debris, according to EN 13772
4	Ignition according to EN 1101	3 rd marker threads not severed, no flaming debris, according to EN 1102
5	Ignition according to EN 1101	3 rd marker threads severed, and/or flaming debris, according to EN 1102

2) Criteria for class allocation

Class allocation according to class number is given hereafter:

- 1) If at least two specimens (out of six) give a result (severing the marker thread and/or flaming debris) belonging to a higher number class the material shall be given in this higher class.
- 2) If only one specimen (out of six) gives a result (severing the marker thread or flaming debris) belonging to a higher number class, 3 new extra specimens shall be tested in the same direction as the one giving the worst result.
- 3) If none of these new specimens gives a result belonging to the higher number class the material shall be classified in the lower number class
- 4) If at least one of the extra specimens tested gives a result belonging to the higher number class the material shall be given this class.



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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: EN13773

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Test Report

Report No.: AJFS2210008004RS Date: OCT.18, 2022 Page 5 of 5

Statements:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

Photo Appendix:



SGS authenticate the photo on original report only

End of Report



SGS-CSTC Shanghai Inspection Co., Ltd.
Anji Branch Fire Technology Service

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: IMO

J&C Joel 杰尔
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SGS

Test Report

Report No.: AJFS2210008005RS

Date: OCT.18, 2022

Page 1 of 5

Sample Description: POLYESTER VELOUR – LYRIC

Style/Item No.: /

Buyer: J&C JOEL LIMITED

Test Requested:

IMO International code for application of fire test procedures, 2010 (2010 FTP CODE), Annex 1 Fire test procedure, Part 7 Test for Vertically Supported Textiles and Films.

Test Results: – See attached sheet –

Test Period:

Sample Receiving Date : OCT.10, 2022

Sample Test Date : OCT.17, 2022

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

Allen Zou

Allen Zou
Approved Signatory

scan to see the report



AJFS2210008005RS



SGS-CSTC Standards Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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Member of the SGS Group (SGS SA)

Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: IMO

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Test Report

Report No.: AJFS2210008005RS Date: OCT.18, 2022 Page 2 of 5

Sample Information

The following data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion.

Type of material : Synthetic Filaments
Material of the product : 100% Polyester
Composition of weave : Warp Knitted
Mass per unit area : 400gsm
Color and tone : Black
Fire retardant treatment : None

SPECIMEN



SGS-CSTC (Zhejiang) Technology Co., Ltd.
Anji Branch Fire Technology Service

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Member of the SGS Group (SGS SA)

Fire Test Certificate – Specimen

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Type: IMO

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Test Report

Report No.: AJFS2210008005RS Date: OCT.18, 2022 Page 3 of 5

Introduction:

The test was conducted in accordance with 2010 FTP code Annex 1 Part 7 at the request of the client. If the sample meets performance criteria of clause 3 of 2010 FTP Code, Annex 1, Part 7, it is considered suitable for use as curtains, draperies, or free-hanging fabric product for use in rooms containing furniture and furnishings of restricted fire risk in chapter II-2 of the SOLAS Convention.

Test Specimen

Material	Fabric
Color	Black
Mass per unit area (g/m ²)	375 g/m ²
Size of specimen	220 mm × 170 mm
Test surface	Front surface

Conditioning:

Cleaning procedure: None.

The specimens were conditioned at 20±5°C and a relative humidity of 65±5% for not less than 24 h before test.

Test Result

Before cleaning

Specimen No.	Direction of the warp (Edge ignition, 15 s)					Direction of the weft (Edge ignition, 15 s)				
	1	2	3	4	5	1	2	3	4	5
After-flame time (s)	0	0	0	0	0	0	0	0	0	0
Afterglow time (s)	0	0	0	0	0	0	0	0	0	0
Occurrence of drops (Yes or No)	No	No	No	No	No	No	No	No	No	No
Drops ignite cotton wool (Yes or No)	No	No	No	No	No	No	No	No	No	No
Burn through to the edge (Yes or No)	No	No	No	No	No	No	No	No	No	No
Occurrence of surface flash and its propagation length (Yes or No /mm)	No	No	No	No	No	No	No	No	No	No
Length of char (mm)	75	72	74	79	75	74	79	71	78	76
Average of char(mm)	75					76				

Conclusion: The sample "as received" meets the performance criteria of clause 3 of 2010 FTP Code, Annex 1, Part 7.



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Anji Branch Fire Technology Service

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: IMO

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Test Report

Report No.: AJFS2210008005RS Date: OCT.18, 2022 Page 4 of 5

Deviation:

Any deviations from the test method: No

Performance criteria for curtains and drapes:

3.1 Products which show any of the following characteristics obtained by the fire test in appendix 1, shall be considered unsuitable for use as curtains, draperies, or free-hanging fabric product for use in rooms containing furniture and furnishings of restricted fire risk as defined in the relevant regulations of chapter II-2 of the Convention:

3.1.1 an after-flame time greater than 5 s for any of the 10 or more specimens tested with a surface application of the pilot flame (see also paragraph 3.2 below);

3.1.2 burn through, as determined by appendix 2, to any edge of any of the 10 or more specimens tested with a surface application of the pilot flame (see also paragraph 3.2 below);

3.1.3 ignition of cotton wool below the specimen in any of the 10 or more specimens tested (see also paragraph 3.2 below);

3.1.4 an average char length, as determined by appendix 2, in excess of 150 mm observed in any of the batches of five specimens tested by either surface or edge ignition; and

3.1.5 the occurrence of a surface flash propagating more than 100 mm from the point of ignition with or without charring of the base fabric (see also paragraph 3.2 below).

3.2 If, following analysis of the experimental data from tests of a fabric, it is found that either or both of the batches of five specimens cut in both warp and weft directions fail to meet one or more of the criteria specified in subparagraphs 3.1.1 to 3.1.3 and 3.1.5 above because of poor performance of only one of the five specimens tested, one complete retest of a similar batch is permitted. Failure of the second batch to meet any of the criteria shall provide the basis for rejection of the fabric for use.

Statement:

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 hazard of the product in use.

Test results apply to the sample as received.

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.



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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: IMO

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Test Report

Report No.: AJFS2210008005RS

Date: OCT.18, 2022

Page 5 of 5

Photo Appendix



SGS authenticate the photo on original report only

End of Report

SPECIMEN



SGS-CSTC Shanghai Technical Co., Ltd.
Anji Branch Fire Technology Service

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: CA 1237

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TEST REPORT



REPORT NO. : M270-17-12326
SAMPLE RECEIVED DATE : 2017-11-01
TEST STARTED DATE : 2017-11-01
REPORT ISSUED DATE : 2017-11-08
PAGE : 1 OF 2

DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE FABRIC.

=====

ITEM : LYRIC(WT-1003J)

=====

TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGE.

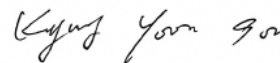
=====

PREPARED AND CHECKED BY
FOR FITI



SEONG-KEUN, JANG
QUALITY MANAGER

AUTHORIZED BY
FOR FITI



KYUNG-YOON SON
PRESIDENT

※ Report Verification No.: R4I9-5RJV-LUD6 ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

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Fire Test Certificate – Specimen

Fabric: The West End Collection - Lyric
Type: CA 1237

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(28115) 21, Yangcheong-3gil, Ochang-eup, Cheongwon-gu, Chungbuk, Korea
Tel : 043-711-8875 Fax : 043-711-8804

REPORT NO.: M270-17-12326
PAGE : 2 OF 2

01. FLAMMABILITY (CALIFORNIA FIRE MARSHAL TITLE 19 : SECTION 1237.1 SMALL SCALE TEST(8.9.1993))

	#1
AFTER FLAME TIME(s)	
- LENGTH	0 2.7 0 // 0.9
- WIDTH	0 2.7 1.4 // 1.4
AFTER GLOW TIME(s)	
- LENGTH	0 0 0 // 0
- WIDTH	0 0 0 // 0
CHAR LENGTH (mm)	
- LENGTH	85 93 90 // 89
- WIDTH	108 91 98 // 99

NOTE) · CONCLUSION : BASED UPON THE RESULTS, THE SUBMITTED SAMPLE **MEETS** PERFORMANCE REQUIREMENTS AS STATED IN CALIFORNIA FIRE MARSHAL TITLE 19 SECTION 1237.1 (8.9.1993) USE IN ITS ORIGINAL STATE.

- REQUIREMENT(TITLE 19 SECTION 1237)
- THE TEST SAMPLE SHALL NOT CONTINUE TO FLAME FOR MORE THAN 4 SECONDS AVERAGE AFTER THE BURNER IS REMOVED.
- THE MAXIMUM LENGTH OF CHAR FOR ANY SINGLE SPECIMEN SHALL NOT EXCEED 152 mm
- THIS STANDARD TEST METHOD WAS APPLIED BY THE CLIENT'S REQUEST.

** End of The Report **

SAMPLE :

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TEST REPORT



REPORT NO. : H214-21-00186
SAMPLE RECEIVED DATE : 2021-01-07
TEST STARTED DATE : 2021-01-07
REPORT ISSUED DATE : 2021-01-14
PAGE : 1 OF 2

DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE KNIT FABRIC.

=====

ITEM : LYRIC 400GSM

=====

TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.
THE TESTED SPECIMENS WERE RETURNED TO THE APPLICANT WITH THIS REPORT.

=====

PREPARED AND CHECKED BY
FOR FITI

HYUN-JIN, KOO
QUALITY MANAGER

AUTHORIZED BY
FOR FITI

JE-GOO JUN
PRESIDENT

※ Report Verification No.: TGVQ-FKP3-KN42 ※

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Martindale Rub Test & Light Fastness

Fabric: Lyric



(07791) 79, Magokjungang 8-ro 3-gil, Gangseo-gu, Seoul
Tel : 02-3299-8053~4 Fax : 02-3299-8153

REPORT NO.: H214-21-00186
PAGE : 2 OF 2

01. COLORFASTNESS TO ARTIFICIAL LIGHT : XENON ARC FADING LAMP TEST (EN ISO 105 B02, METHOD 3 MODIFIED, EXPOSURE CYCLE A1) : GRADE

	#1
BLUE WOOL REFERENCE 6	5

NOTE) THE APPARATUS USED : ATLAS WEATHER OMETER

02. ABRASION RESISTANCE (DIN EN ISO 12947-2 : 2016, MARTINDALE METHOD) : RUBS

	#1
	ABOVE 50 000

NOTE) SPECIMEN : PILE FABRIC
THE MASS AND NOMINAL PRESSURE : (595 ± 7) g, 9 kPa
END POINT : FULLY WORN OFF AREA

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

- SAMPLE PHOTO -



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Acoustic Test Report - Absorption

Result (NRC): 0.60
Fabric: The West End Collection - Lyric

J&C Joel
Inspiration in every performance

Test Report



Korea Marine Equipment
Research Institute

24-20, Noksansandan 335-ro, Gangseo-gu, Busan 46754, Rep. of Korea
Tel +82-51-400-5200, Fax +82-51-400-5210

Report No. :
KOMERI-0601-19T0905
<http://www.komeri.re.kr>



1. Applicant

o Date of Receipt : 2019, 03, 12

2. Equipment under Test

- o Name of Product : Acoustic Fabric
- o Model : #22-1
- o Serial No. : -

3. Test Standards : ISO 354:2003, ASTM C 423-17 (Refer to the 1.2 TEST STANDARD)

4. Use of Report : Performance check, Submission for R&D project

5. Test Period : 2019, 03, 13

6. Environment : Temperature (Start 17 °C / End 17 °C),
Humidity (Start 81 % R.H. / End 81 % R.H.)

7. Test Result : NRC = 0.60

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

Affirmation	Tested by	Technical Manager
	Name : Soon-Seong MOON (Signature)	Name : Jun-Oh YEON (Signature)

This test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

Date of issue : 2019, 04, 09

Accredited by KOLAS, Republic of KOREA

The President of Korea Marine Equipment Research Institute (Signature)

KOMERI-P-24-01(18)

Page(1) / Pages(11)

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Acoustic Test Report - Absorption

Result (NRC): 0.60
Fabric: The West End Collection - Lyric

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Korea Marine Equipment
Research Institute

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Tel +82-51-400-5200, Fax +82-51-400-5210

Report No. :

KOMERI-0601-19T0905

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Acoustic Test Report - Absorption

Result (NRC): 0.60
Fabric: The West End Collection - Lyric

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GENERAL

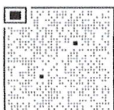
■ MANUFACTURER

■ TEST SITE

· 24-20, Noksansandan 335-ro, Gangseo-gu, Busan, Korea

■ TEST SUMMARY

No.	Test Item	Test Standard	Result
1	SOUND ABSORPTION TEST	ISO 354:2003, ASTM C 423-17 (Refer to the 1,2 TEST STANDARD)	NRC = 0.60



Acoustic Test Report - Absorption

Result (NRC): 0.60
Fabric: The West End Collection - Lyric

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1. SOUND ABSORPTION TEST

1.1 TEST ENVIRONMENT

- Temperature (Start 17 °C / End 17 °C)
- Humidity (Start 81 % R.H. / End 81 % R.H.)

1.2 TEST STANDARD

- ISO 354:2003 Acoustics - Measurement of sound absorption in a reverberation room
- ASTM C 423-17 Standard test method for sound absorption and sound absorption coefficients by the reverberation room method

1.3 TEST EQUIPMENT

Description	Manu- facturer	Model Number	Serial No.	Calibration Due
◆ Multi channel signal analyzer	RION	SA-01	00940076	2019. 10. 19
◆ Microphone	G.R.A.S	40AQ	118696	2020. 01. 21
◆ Microphone	G.R.A.S	40AQ	121486	2020. 01. 21
◆ Microphone	G.R.A.S	40AQ	118714	2020. 01. 21
◆ Microphone	G.R.A.S	40AQ	121469	2020. 01. 21
◆ Microphone	G.R.A.S	40AQ	182795	2020. 01. 21
◆ Microphone	G.R.A.S	40AQ	180451	2020. 01. 21
◆ Microphone calibrator	LARSON DAVIS	CAL200	12789	2020. 01. 21
◆ Speaker	CESVA	BP012	T236526	-
◆ Lower frequency speaker	VASCOM	SR 4145SUB	-	-

1.4 TEST INFORMATION

- Source : 1/3 Octave band white noise
- Frequency range of measurement : 100 Hz ~ 5 000 Hz (1/3 Octave band)
- Measurement points : 12 points (Microphone 6 points and source 2 points)
- Volume of test room : 220.0 m³
- Surface of test room : 214.3 m²
- Setup area of specimen : 11.5 m²

KOMERI-P-24-01(18)

Page(4) / Pages(11)

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Acoustic Test Report - Absorption

Result (NRC): 0.60
Fabric: The West End Collection - Lyric

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Report No. :

KOMERI-0601-19T0905

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1.5 TEST PROCEDURE

- The test is performed according to ISO 354:2003.
- The reverberation time in a empty room shall be measured with interrupted noise method.
- After installed the test specimen, measure the reverberation time in a reverberation room.
- The sound absorption coefficient of the test specimen is evaluated from the reverberation time measured and determined using the formula

$$\alpha_s = \left(55.3 V \left(\frac{1}{c_2 T_2} - \frac{1}{c_1 T_1} \right) - 4 V (m_2 - m_1) \right) \frac{1}{S}$$

(1: Empty room, 2: Room installed the test specimen)

where

- α_s is the sound absorption coefficient:
 V is the volume of the reverberation room, in cubic metres:
 c is the propagation speed of sound in air at the temperature t :
 T is the reverberation time, in seconds:
 m is the power attenuation coefficient, in reciprocal metres:
 S is the area covered by the test specimen, in square metres.
- The noise reduction coefficient(NRC) of the test specimen shall be rounded from the average of the sound absorption coefficients for 250, 500, 1 000 and 2 000 Hz to the nearest multiple of 0,05 according to ASTM C 423-17.

< Method of test specimen mounting >

- Type G mounting (Type G-100)
- The mounting fixture was constructed of steel, the test specimen was installed to the distance of 100 mm from the face of the test specimen to the room surface.



Acoustic Test Report - Absorption

Result (NRC): 0.60
Fabric: The West End Collection - Lyric

J&C Joel 
 Inspiration in every performance



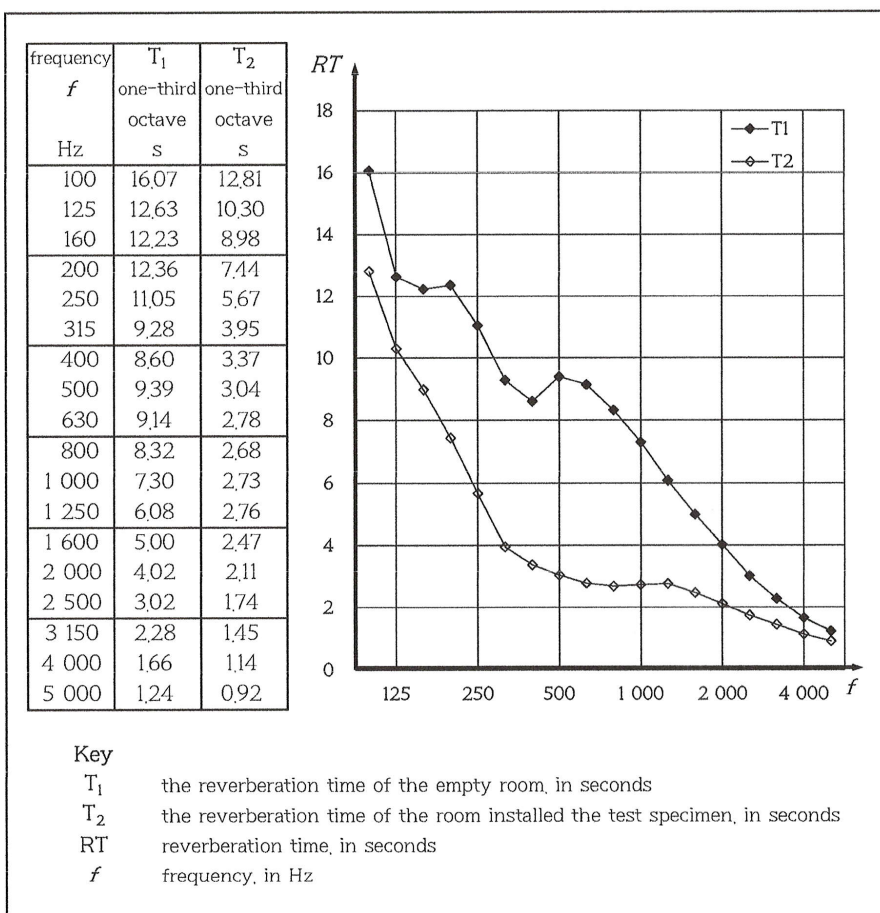
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24-20, Noksansandan 335-ro, Gangseo-gu, Busan 46754, Rep. of Korea
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1.6 MEASUREMENT OF THE REVERBERATION TIME



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Acoustic Test Report - Absorption

Result (NRC): 0.60
Fabric: The West End Collection - Lyric

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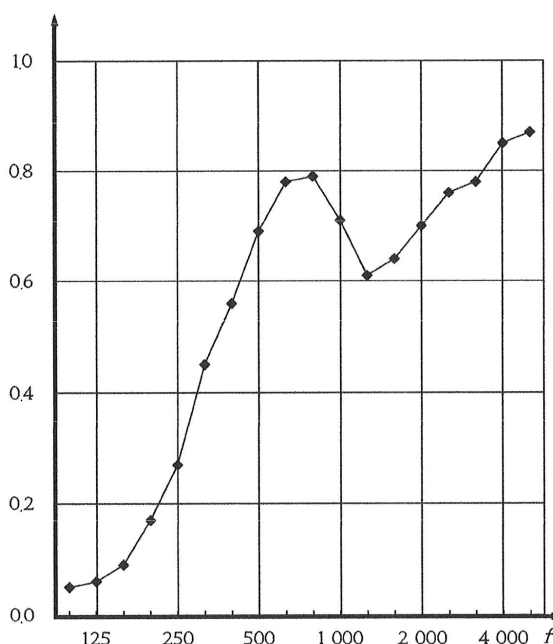
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1.7 TEST RESULT

frequency f Hz	α_s one-third octave -
100	0.05
125	0.06
160	0.09
200	0.17
250	0.27
315	0.45
400	0.56
500	0.69
630	0.78
800	0.79
1 000	0.71
1 250	0.61
1 600	0.64
2 000	0.70
2 500	0.76
3 150	0.78
4 000	0.85
5 000	0.87



Key

α_s sound absorption coefficient
 f frequency, in Hz

The noise reduction coefficient in accordance with ASTM C 423 :
NRC = 0.60

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1.8 TEST PHOTO

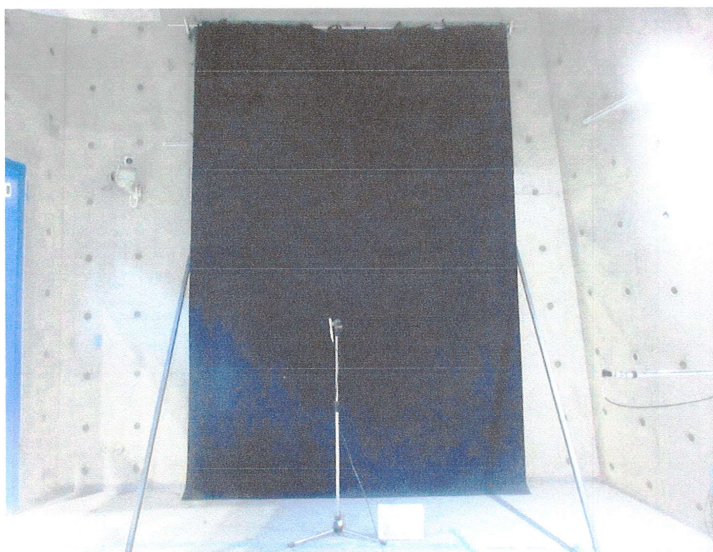


Photo 1-1 Specimen



Photo 1-2 Identification of specimen

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Photo 1-3 Empty room

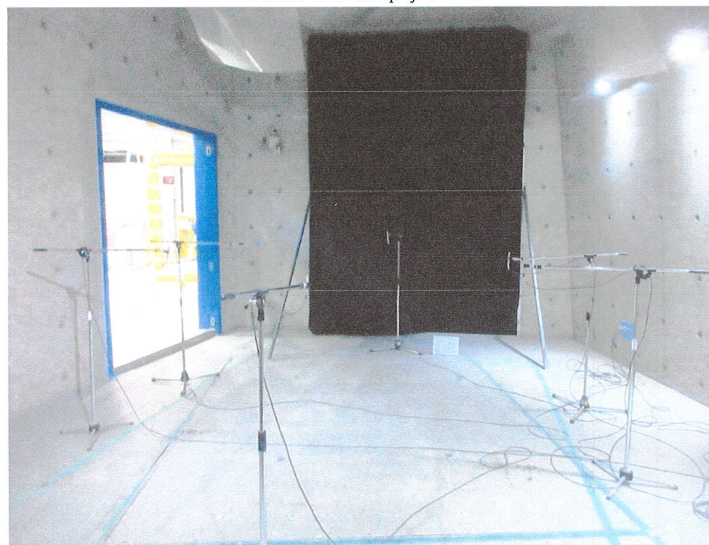


Photo 1-4 Room installed the test specimen

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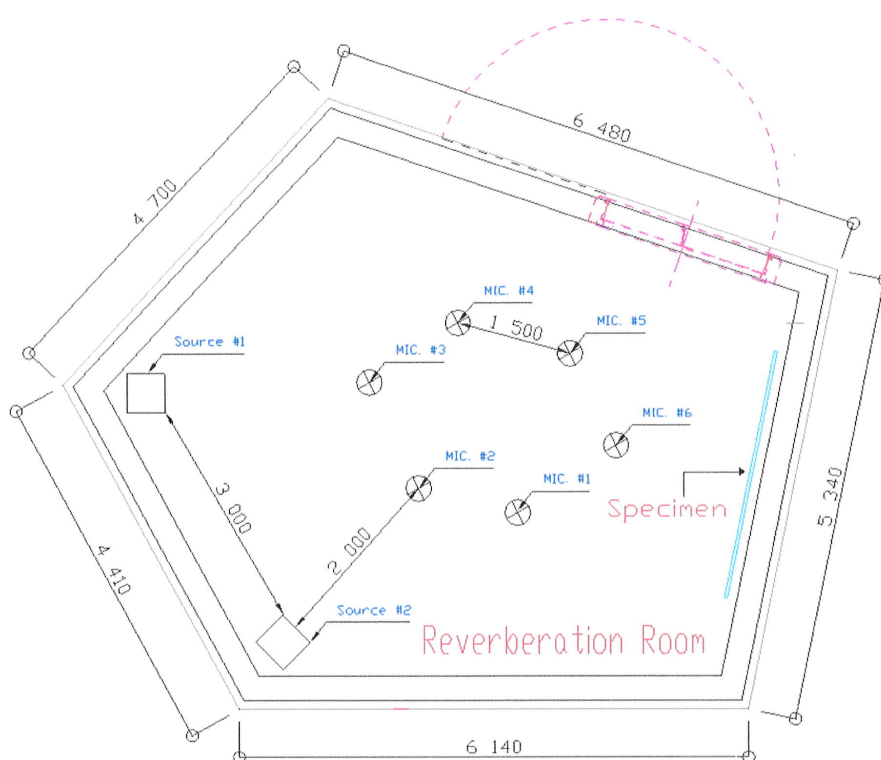
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1.9 DRAWING OF THE TEST ROOM AND MEASUREMENT POSITIONS

(Unit : mm)



※ Height of microphones is 1.2 metres above the ground.

- The end -

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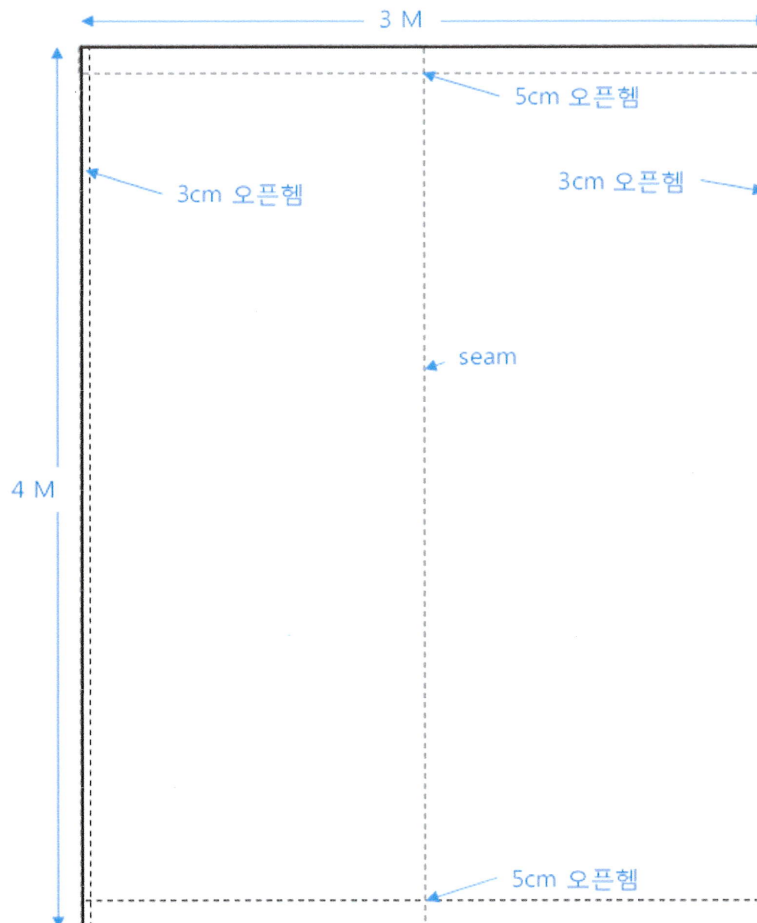
<http://www.komeri.re.kr>



ATTACHMENT

I. DRAWING OF THE TEST SPECIMEN

흡음 시험용 커튼 설계도 (잔향실법, G-mount, Flat)



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