



المعماري السعودية

— Al Mimari Al Saudia —

نوافذ و أبواب عازلة UPVC

FIELD TEST REPORT

Rendered to:

AL MIMARI INDUSTRIAL Co L.L.C.

Abu Dhabi, UAE

PROJECT: ADQCC Certification

AIR TEST RESULTS

Date: 08-02-2016

Ambient Exterior Air Temperature: 22°C

Barometric Pressure: 1020 mbar

Performance Criteria: Provided by ADQCC window scheme table.

Maximum Allowable Air Infiltration:

- 1.5l/s-m² at 75 Pa
- 0.5l/s-m² at 200 Pa



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General Note #1: All locations referenced are as viewed from the interior unless otherwise noted.**General Note #2:** Unless specifically noted within this report, atmospheric conditions at the time of testing did not have an adverse impact on the results of the test. These environmental conditions are recorded for informational use only to confirm that the conditions will not have a negative impact on testing.**General Note #3:** The test area(s) were chosen by the client or client representative.

Test Specimen #1:

Manufacturer: Al Mimari
 Description: Casement window (tilt and turn)
 Overall Size: 800 mm width x 1,250 mm height
 Location: On the left of the chamber looking from outside

Title of Test	Test Results	Allowable	Status
Air infiltration @75 Pa or 1.57psf	0.03cfm or 0.014 l/s	3.18cfm or 1.5 l/s	Pass
Air infiltration @200 Pa or 4.18psf	0.41cfm or 0.193 l/s	1.06cfm or 0.5 l/s	Pass

Test Specimen #2:

Manufacturer: Al Mimari
 Description: Sliding window (tilt and slide)
 Overall Size: 1,600 mm width x 2,100 mm height
 Location: On the right of the chamber looking from outside

Title of Test	Test Results	Allowable	Status
Air infiltration @75 Pa or 1.57psf	0.03cfm or 0.448 l/s	3.18cfm or 1.5 l/s	Pass
Air infiltration @200 Pa or 4.18psf	0.41cfm or 0.071 l/s	1.06cfm or 0.5 l/s	Pass

WATER TEST RESULTS

Date: 08-02-2016

Ambient Exterior Air Temperature: 22°C

Barometric Pressure: 1020 mbar

Performance Criteria: Provided by ADQCC window scheme table.

Water Leakage:

- No water leakage @ 750 Pa or 8.5 psf.
- No water leakage @ 900 Pa or xx psf

General Note #1: All locations referenced are as viewed from the interior unless otherwise noted.**General Note #2:** Unless specifically noted within this report, atmospheric conditions at the time of testing did not have an adverse impact on the results of the test. These environmental conditions are recorded for informational use only to confirm that the conditions will not have a negative impact on testing.**General Note #3:** The test area(s) were chosen by the client or client representative.

Test Specimen #1:

Manufacturer: Al Mimari
 Description: Casement window (tilt and turn)
 Overall Size: 800 mm width x 1,250 mm height
 Location: On the left of the chamber looking from outside

Title of Test	Test Results	Allowable	Status	Notes
Water infiltration @750 Pa or 15.66psf	No leakages	No Leakages	Pass	
Water infiltration @900 Pa or 18.8psf	No Leakages	No Leakages	Pass	

Test Specimen #2:

Manufacturer: Al Mimari
 Description: Sliding window (tilt and slide)
 Overall Size: 1,600 mm width x 2,100 mm height
 Location: On the right of the chamber looking from outside

ASTM E783-2 DATA SHEET

Date	8-Feb-16
Time	10:30
Temperature	22 Deg C
Atmospheric pressure	1020 mbar
Tower	Workshop
Level	Workshop
Elevation	Workshop
Pressure	200 Pa
Conversion Pressure	4.18 Psf
Width (mm)	1,600 mm
Height (mm)	2,100 mm
Surface	3.36 m2

ALLOWABLE

Permissible airflow	0.50 l/s-m2
Permissible airflow	1.80 m3/hour/m2
Permissible airflow through the specimen	6.05 m3/hour
Conversion Permissible airflow through the specimen	3.56 cfm

TESTED

A Extraneous leakage (with tape)	7.26 cfm
B Total leakage	7.41 cfm
A-B Specimen leakage	0.15 cfm
Conversion Specimen leakage	0.25 m3/hour
Conversion Specimen leakage	0.071 l/s

PASS

For info		
1 m3/h	=	0.588578 cfm
1 cfm	=	1.699011 m3/h



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ASTM E783-2 DATA SHEET

Date	8-Feb-16
Time	10:00
Temperature	22 Deg C
Atmospheric pressure	1020 mbar
Tower	Workshop
Level	Workshop
Elevation	Workshop
Pressure	75 Pa
Conversion Pressure	1.57 Psf
Width (mm)	1,600 mm
Height (mm)	2,100 mm
Surface	3.36 m2

ALLOWABLE

Permissible airflow	1.50 l/s-m2
Permissible airflow	5.40 m3/hour/m2
Permissible airflow through the specimen	18.14 m3/hour
Conversion Permissible airflow through the specimen	10.68 cfm

TESTED

A Extraneous leakage (with tape)	3.50 cfm
B Total leakage	4.45 cfm
A-B Specimen leakage	0.95 cfm
Conversion Specimen leakage	1.61 m3/hour
Conversion Specimen leakage	0.448 l/s

PASS

For info		
1 m3/h	=	0.588578 cfm
1 cfm	=	1.699011 m3/h



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ASTM E783-2 DATA SHEET

Date	8-Feb-16
Time	10:30
Temperature	22 Deg C
Atmospheric pressure	1020 mbar
Tower	Workshop
Level	Workshop
Elevation	Workshop
Pressure	200 Pa
Conversion Pressure	4.18 Psf
Width (mm)	800 mm
Height (mm)	1,250 mm
Surface	1.00 m2

ALLOWABLE

Permissible airflow	0.50 l/s-m2
Permissible airflow	1.80 m3/hour/m2
Permissible airflow through the specimen	1.80 m3/hour
Conversion Permissible airflow through the specimen	1.06 cfm

TESTED

A Extraneous leakage (with tape)	7.00 cfm
B Total leakage	7.41 cfm
A-B Specimen leakage	0.41 cfm
Conversion Specimen leakage	0.70 m3/hour
Conversion Specimen leakage	0.193 l/s

PASS

For info		
1 m3/h	=	0.588578 cfm
1 cfm	=	1.699011 m3/h



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ASTM E783-2 DATA SHEET

Date	8-Feb-16
Time	10:00
Temperature	22 Deg C
Atmospheric pressure	1020 mbar
Tower	Workshop
Level	Workshop
Elevation	Workshop
Pressure	75 Pa
Conversion Pressure	1.57 Psf
Width (mm)	800 mm
Height (mm)	1,250 mm
Surface	1.00 m2

ALLOWABLE

Permissible airflow	1.50 l/s-m2
Permissible airflow	5.40 m3/hour/m2
Permissible airflow through the specimen	5.40 m3/hour
Conversion Permissible airflow through the specimen	3.18 cfm

TESTED

A Extraneous leakage (with tape)	4.42 cfm
B Total leakage	4.45 cfm
A-B Specimen leakage	0.03 cfm
Conversion Specimen leakage	0.05 m3/hour
Conversion Specimen leakage	0.014 l/s

PASS

For info		
1 m3/h	=	0.588578 cfm
1 cfm	=	1.699011 m3/h



المعماري السعودية

Al Mimari Al Saudia

نوافذ و أبواب عازلة UPVC



F7073.01-113-11-R0
ACOUSTICAL PERFORMANCE TEST REPORT
ASTM E90

Rendered to:

AL MIMARI INDUSTRIAL CO. LLC

SERIES/MODEL: BR66/FR60

TYPE: Tilt and Turn Window

Summary of Test Results			
Data File No.	Glazing (Nominal Dimensions)	STC	OITC
F7073.01A	15/16" IG (1/4" annealed, 7/16" air space, 1/4" annealed)	34	29

Reference should be made to Intertek-ATI Report No. F7073.01-113-11 for complete test specimen description. This page alone is not a complete report. Flanking limit tests and reference specimen tests are available upon request.

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Intertek



AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

Test Date	04/12/16					
Data File No.	F7073.01A					
Client	Al Mimari Industrial Co. LLC					
Description	Series/Model: BR66/FR60, Tilt and Turn window with 15/16" IG (1/4" annealed, 7/16" air space, 1/4" annealed)					
Specimen Area	1.80 m ²	Receive Temp.	20.9 °C		Source Temp.	20.4 °C
Technician	Sean G. Close	Receive Humidity	50%		Source Humidity	50%

Freq (Hz)	Background SPL (dB)	Absorption (m ²)	Source SPL (dB)	Receive SPL (dB)	Specimen TL (dB)	95% Confidence Limit	Number of Deficiencies
80	40.8	4.3	105	80	22.1	1.89	-
100	35.9	5.1	105	72	30.2	1.62	-
125	37.7	4.7	105	72	28.4	1.28	0
160	41.8	4.4	105	74	27.0	1.15	0
200	40.3	4.4	106	81	21.3	0.73	3
250	35.6	5.1	106	80	20.8	0.97	6
315	29.5	5.2	99	69	25.2	0.82	5
400	25.2	5.5	96	61	30.1	0.50	3
500	21.3	5.8	96	57	34.0	0.29	0
630	19.8	5.5	100	59	36.6	0.42	0
800	18.2	5.8	100	57	38.4	0.29	0
1000	13.5	6.0	96	53	37.8	0.22	0
1250	11.3	6.6	97	54	37.3	0.33	1
1600	8.8	7.0	102	61	35.7	0.41	2
2000	6.2	7.4	95	57	31.9	0.37	6
2500	6.0	8.4	92	51	34.6	0.35	3
3150	6.1	10.2	94	49	38.1	0.45	0
4000	6.9	12.6	93	44	40.4	0.55	0
5000	7.8	16.2	92	37	45.4	0.60	-

STC Rating	34	(Sound Transmission Class)
Deficiencies	29	(Sum of Deficiencies)
OITC Rating	29	(Outdoor-Indoor Transmission Class)

Notes:

- 1) Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.
- 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
- 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied



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Architectural Testing



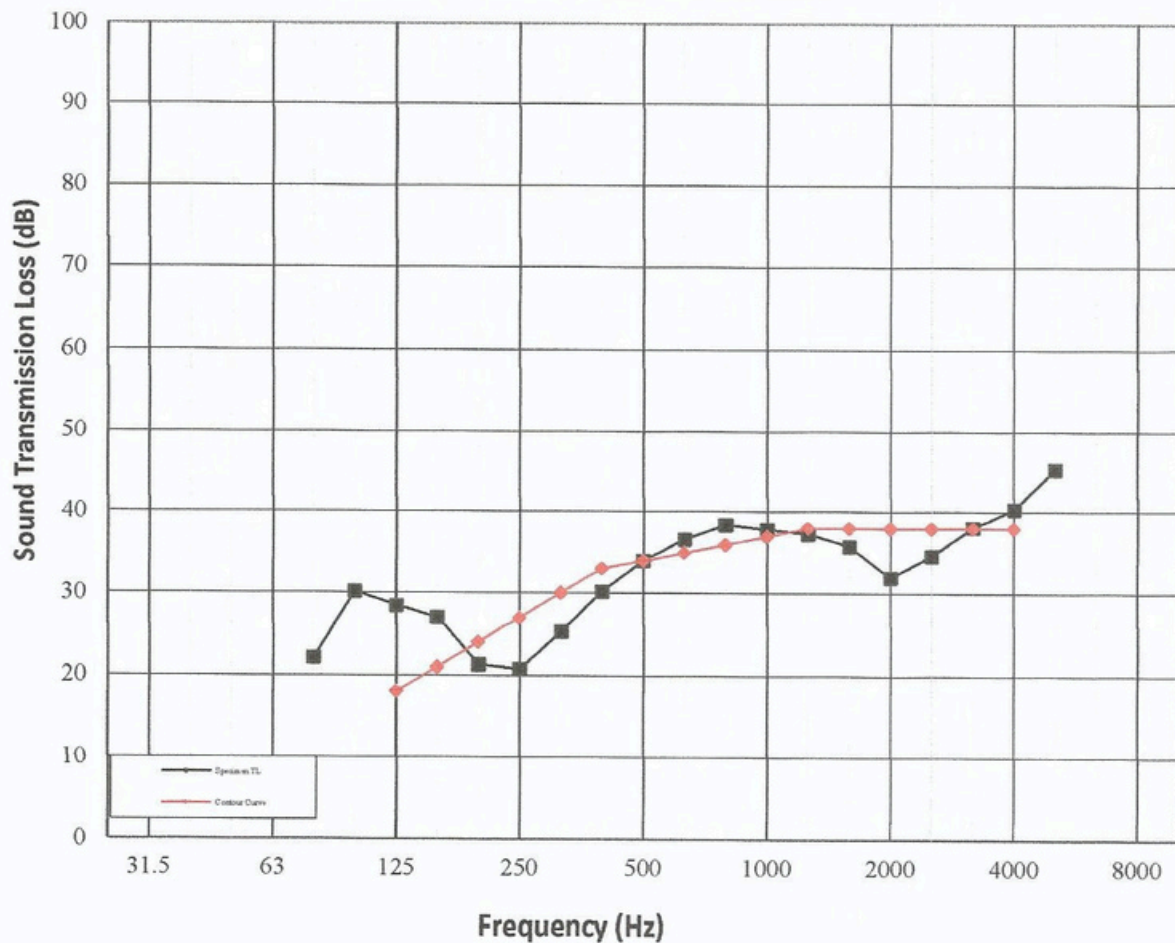
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TL-144

AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

Test Date	04/12/16					
Data File No.	F7073.01A					
Client	Al Mimari Industrial Co. LLC					
Description	Series/Model: BR66/FR60, Tilt and Turn window with 15/16" IG (1/4" annealed, 7/16" air space, 1/4" annealed)					
Specimen Area	1.80 m ²	Receive Temp.	20.9 °C		Source Temp.	20.4 °C
Technician	Sean G. Close	Receive Humidity	50%		Source Humidity	50%

Airborne Sound Transmission Loss



F7074.01-113-11-R0
ACOUSTICAL PERFORMANCE TEST REPORT
ASTM E90

Rendered to:

AL MIMARI INDUSTRIAL CO. LLC

SERIES/MODEL: BR76/FR85

TYPE: Tilt and Slide Glass Door

Summary of Test Results			
Data File No.	Glazing (Nominal Dimensions)	STC	OITC
F7074.01A	15/16" IG (1/4" annealed, 7/16" air space, 1/4" annealed)	33	29

Reference should be made to Intertek-ATI Report No. F7074.01-113-11 for complete test specimen description. This page alone is not a complete report. Flanking limit tests and reference specimen tests are available upon request.

AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

Test Date	04/12/16					
Data File No.	F7074.01A					
Client	Al Mimari Industrial Co. LLC					
Description	Series/Model: BR76/FR85, Tilt and Slide glass door with 1" IG (1/4" annealed, 1/2" air space, 1/4" annealed)					
Specimen Area	3.69 m ²	Receive Temp.	21.6 °C		Source Temp.	20.7 °C
Technician	Sean G. Close	Receive Humidity	47%		Source Humidity	51%

Freq (Hz)	Background SPL (dB)	Absorption (m ²)	Source SPL (dB)	Receive SPL (dB)	Specimen TL (dB)	95% Confidence Limit	Number of Deficiencies
80	41.6	5.3	104	84	20.0	2.81	-
100	35.5	5.8	104	75	28.8	1.81	-
125	37.4	4.9	105	76	28.1	1.39	0
160	40.9	4.7	105	81	22.3	1.24	0
200	39.4	4.6	106	82	22.9	0.91	0
250	34.5	5.3	105	82	21.5	0.57	5
315	28.1	5.4	99	71	26.2	0.37	3
400	24.2	5.8	96	66	28.0	0.28	4
500	20.3	5.9	96	61	32.6	0.52	0
630	19.0	5.7	100	66	32.2	0.27	2
800	17.0	6.1	100	64	34.3	0.31	1
1000	12.5	6.2	96	58	36.0	0.36	0
1250	11.4	6.7	97	56	38.4	0.23	0
1600	7.9	7.1	102	62	37.4	0.33	0
2000	5.8	7.5	95	60	31.3	0.34	6
2500	5.9	8.6	92	55	34.1	0.41	3
3150	6.0	10.3	94	53	37.2	0.40	0
4000	6.8	12.7	93	48	40.1	0.57	0
5000	7.6	16.4	92	40	44.8	0.57	-

STC Rating	33	(Sound Transmission Class)
Deficiencies	24	(Sum of Deficiencies)
OITC Rating	29	(Outdoor-Indoor Transmission Class)

Notes:

- 1) Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.
- 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
- 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied



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Architectural Testing



ACCREDITED
TL-144

AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

Test Date	04/12/16					
Data File No.	F7074.01A					
Client	Al Mimari Industrial Co. LLC					
Description	Series/Model: BR76/FR85, Tilt and Slide glass door with 1" IG (1/4" annealed, 1/2" air space, 1/4" annealed)					
Specimen Area	3.69 m ²	Receive Temp.	21.6 °C	Source Temp.	20.7 °C	
Technician	Sean G. Close	Receive Humidity	47%	Source Humidity	51%	

Airborne Sound Transmission Loss

