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KOMMERLING USA INC.

ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK
ASTM E90 SOUND TRANSMISSION LOSS TESTING ON A
76 MD SERIES, DUAL ACTION WINDOW

REPORT NUMBER
J7456.01-113-11-R0

TEST DATES
07/23/19; 07/24/19

ISSUE DATE
08/22/19

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22

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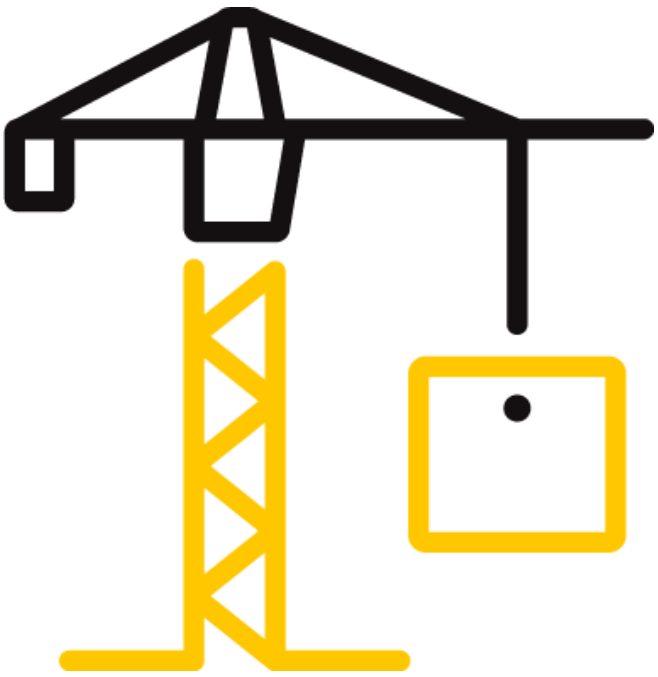

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TEST REPORT FOR KOMMERLING USA INC.
Report No.: J7456.01-113-11-R0
Date: 08/22/19

REPORT ISSUED TO
KOMMERLING USA INC.
3415-A Stanwood Boulevard NE
Huntsville, Alabama 35811

SECTION 1
SCOPE

Intertek Building & Construction (B&C) was contracted by Kommerling USA Inc. to conduct a sound transmission loss test. Results obtained are tested values and were secured by using the designated test methods. The complete test data is included herein. The client provided the test specimen. All measurements were conducted in the HT test chambers at Intertek B&C located in York, Pennsylvania.

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.

For INTERTEK B&C:

COMPLETED BY:	Zachary P Golden	**REVIEWED BY:**	Kurt A. Golden
TITLE:	Technician Team Leader Acoustical Testing	**TITLE:**	Project Lead Acoustical Testing
SIGNATURE:	Digitally Signed by: Zachary Golden	**SIGNATURE:**	Digitally Signed by: Kurt A. Golden
DATE:	08/22/19	**DATE:**	08/22/19

ZPG:jmcs

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IAS ACCREDITED Testing Laboratory

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SECTION 2
SUMMARY OF TEST RESULTS

SERIES/MODEL	76 MD Series
TYPE	Dual action window

OPTION J7456.01A

GLAZING (Nominal Dimensions)	7/8" IG (3/16" tempered, 1/2" argon, 3/16" tempered)
STC	33
OITC	27

OPTION J7456.01B

GLAZING (Nominal Dimensions)	1-1/16" IG (3/16" tempered exterior, 1/2" argon, 3/8" tempered interior)
STC	38
OITC	33

OPTION J7456.01C

GLAZING (Nominal Dimensions)	1-1/4" IG (1/4" annealed exterior, 9/16" argon, 7/16" laminated interior), Glass temperature 75°F
STC	40
OITC	33

OPTION J7456.01D

GLAZING (Nominal Dimensions)	1-3/8" IG (5/16" laminated exterior, 5/8" argon, 7/16" laminated interior), Glass temperature 75°F
STC	43
OITC	36

OPTION J7456.01E

GLAZING (Nominal Dimensions)	1-9/16" IG (3/16" tempered exterior, 1/2" argon, 3/16" tempered center, 1/2" argon, 3/16" tempered Interior)
STC	35
OITC	28

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SECTION 3
TEST METHODS

The specimens were evaluated in accordance with the following:

ASTM E90-09 (2016), *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements*

ASTM E413-16, *Classification for Rating Sound Insulation*

ASTM E1332-16, *Standard Classification for Rating Outdoor-Indoor Sound Attenuation*

ASTM E2235-04 (2012), *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*

SECTION 4
SPECIMEN INSTALLATION

A sound transmission loss test was initially performed on a filler wall.

The specimen plug was removed from the filler wall assembly. A filler wall-reducing element, consisting of two separate 2x6 wood frames filled with concrete, was used to adjust the test opening size to accommodate the test specimen. A dense neoprene gasket was placed between the two wood and concrete frames. The specimen was placed on an isolation pad in the custom test opening. Duct seal was used to seal the perimeter of the specimen to the test opening on both sides. The interior side of the specimen, when installed, was approximately 1/4" from being flush with the receive room side of the filler wall. A stethoscope was used to check for any abnormal air leaks around the test specimen prior to testing. Operable portions of the test specimen, if any, were cycled at least five times prior to testing.

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SECTION 5
EQUIPMENT

The equipment listed below meets the requirements of the test methods stated in Section 3 of this report.

INSTRUMENT	MANUFACTURER	MODEL	DESCRIPTION	ASSET #	CAL DATE
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	65125*	05/18
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	65126*	05/18
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	63763-3*	04/18
Source Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64902	12/18
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65969	04/19
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65103	03/19
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	64905	03/19
Source Room Microphone	PCB piezotronics	378C20	Microphone and Preamplifier	64906	03/19
Receive Room Microphone	PBC Piezotronics	378B20	Microphone and Preamplifier	64907	12/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64908	12/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64909	12/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64910	12/18
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64911	01/19
Receive Room Environmental Indicator	Comet	T7510	Receive Room	64915	01/19
Source Room Environmental Indicator	Comet	T7510	Source Room	64914	03/19
Microphone Calibrator	Larson Davis	CAL200	Acoustical Calibrator	INT00852	09/18

**- Note: The calibration frequency for this equipment is every two years per the manufacturer's recommendation.*

TEST CHAMBER

	VOLUME	DESCRIPTION
RECEIVE ROOM	234 m^3	Rotating vane and stationary diffusers Temperature and humidity controlled Isolation pads under the floor
SOURCE ROOM	207 m^3	Stationary diffusers only Temperature and humidity controlled

	MAXIMUM SIZE	DESCRIPTION
TL TEST OPENING	4.27 m wide by 3.05 m high	Vibration break between source and receive rooms

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SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Andrew Johnston	Intertek B&C
Zachary Golden	Intertek B&C

SECTION 7
TEST PROCEDURE

The sensitivity of the microphones was checked before measurements were conducted.

The transmission loss values were obtained for a single direction of measurement.

Two background noise sound pressure level and five sound absorption measurements were conducted at each of five microphone positions.

Two sound pressure level measurements were made simultaneously in receive and source rooms at each of five microphone positions.

The air temperature and relative humidity conditions were monitored and recorded during all measurements.

Data for flanking limit tests, repeatability measurements, and reference specimen tests are available upon request.

Intertek B&C will store samples of test specimens for four years.

SECTION 8
ACOUSTICAL TEST CALCULATIONS

Transmission loss (TL) at each 1/3 octave frequency is the average source room sound pressure level minus the average receive room sound pressure level, plus, 10 times the log of the specimen area divided by the sound absorption of the receive room with the sample in place.

STC Rating
To obtain the Sound Transmission Class (STC), read the TL of the contour curve at 500 Hz. The sum of the deficiencies below the contour curve must not exceed 32. The maximum deficiency at any one frequency must not exceed 8.

OITC Rating
The Outdoor-Indoor Transmission Class (OITC) is calculated by subtracting the logarithmic summation of the TL values from the logarithmic summation of the A-weighted transportation noise spectrum stated in ASTM E1332.

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SECTION 9
SPECIMEN DESCRIPTION

	FRAME	VENT SASH
SIZE	49-1/4" by 59"	44" by 55-3/4"
THICKNESS	3"	3"
CORNERS	Mitered	Mitered
FASTENERS	Welds	Welds
SEAL METHOD	N/A	N/A
MATERIAL	Vinyl	Vinyl
REINFORCEMENT	Steel located in all members	Steel located in all members
THERMAL BREAK MATERIAL	N/A	N/A
DAYLIGHT OPENING SIZE	N/A	40" by 49-3/4"

OPTION J7456.01A

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	0.882"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.185"	0.510"	0.187"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Tempered	Argon*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A

OPTION J7456.01B

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.076"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.195"	0.507"	0.374"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Tempered	Argon*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A

** - Stated per Client/Manufacturer, N/A-Not Applicable*

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OPTION J7456.01C

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.226"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.226"	0.568"	0.186", 0.060", 0.186
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Annealed	Argon*	Laminated
LAMINATE MATERIAL	N/A	N/A	PVB

OPTION J7456.01D

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.346"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.124", 0.060", 0.123""	0.610"	0.184", 0.060", 0.185"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Laminated	Argon*	Laminated
LAMINATE MATERIAL	PVB	N/A	PVB

OPTION J7456.01E

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.593"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**CENTER SHEET**	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.185"	0.520"	0.184"	0.520"	0.184"
MUNTIN PATTERN	N/A	N/A	N/A	N/A	N/A
MATERIAL	Tempered	Argon*	Tempered	Argon*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A	N/A	N/A

GLAZING METHOD	Interior
GLAZING MATERIAL	EPDM
GLAZING BEAD MATERIAL	Vinyl

** - Stated per Client/Manufacturer, N/A-Not Applicable*

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	TYPE	QUANTITY	LOCATION
WEATHERSTRIP	1/4" Leaf gasket	1 Row	Perimeter of frame and vent
	1/2" Leaf gasket	1 Row	Perimeter of frame
HARDWARE	Hinge	2	Hinge jamb
	Multi-point lock system	1	Locking stile
	Keeper	9	Perimeter of frame
	Single arm hinge	1	Head
DRAINAGE	7/8" by 3/16" Weep slot	2	Top rail
	7/8" by 3/16" Weep slot	3	Bottom rail, sill track, sill face

OPTION	TOTAL WEIGHT (lbs)	AVERAGE WEIGHT (lbs/ft^2)
A	143	7.08
B	180	8.92
C	191	9.46
D	201	9.96
E	180	8.92

Photographs are included in Section 11.

A drawing of the test specimen is included in Section 12.

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SECTION 10

TEST RESULTS

J7456.01A DATA

SPECIMEN AREA	1.87 m²	**RECEIVE TEMP.**	22.6 °C	**SOURCE TEMP**	22.1 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	50%	**SOURCE HUMIDIT**	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	32.1	5.3	104	79	22	2.02	-
100	32.6	5.8	105	72	28	1.95	-
125	33.1	5.9	105	75	25	1.03	0
160	39.7	5.3	107	83	19	1.35	1
200	39.7	5.3	106	85	16	1.13	7
250	32.7	5.7	102	75	23	0.54	3
315	27.6	5.9	103	71	26	0.51	3
400	23.7	6.0	101	69	27	0.50	5
500	20.9	6.3	102	64	32	0.68	1
630	21.9	6.1	101	60	36	0.17	0
800	20.1	6.3	100	56	39	0.23	0
1000	19.5	6.5	101	54	41	0.37	0
1250	20.9	7.0	100	53	41	0.39	0
1600	18.2	7.5	99	52	41	0.25	0
2000	17.0	7.9	100	55	39	0.26	0
2500	17.5	8.8	101	61	32	0.18	5
3150	15.3	10.4	99	59	33	0.19	4
4000	14.0	12.7	97	50	39	0.17	0
5000	12.6	15.9	97	44	44	0.36	-
STC RATING		33	*(Sound Transmission Class)*				
DEFICIENCIES		29	*(Sum of Deficiencies)*				
OITC RATING		27	*(Outdoor-Indoor Transmission Class)*				

Notes: *1) Receive Room levels less than 5 dB above the Background levels are red.*
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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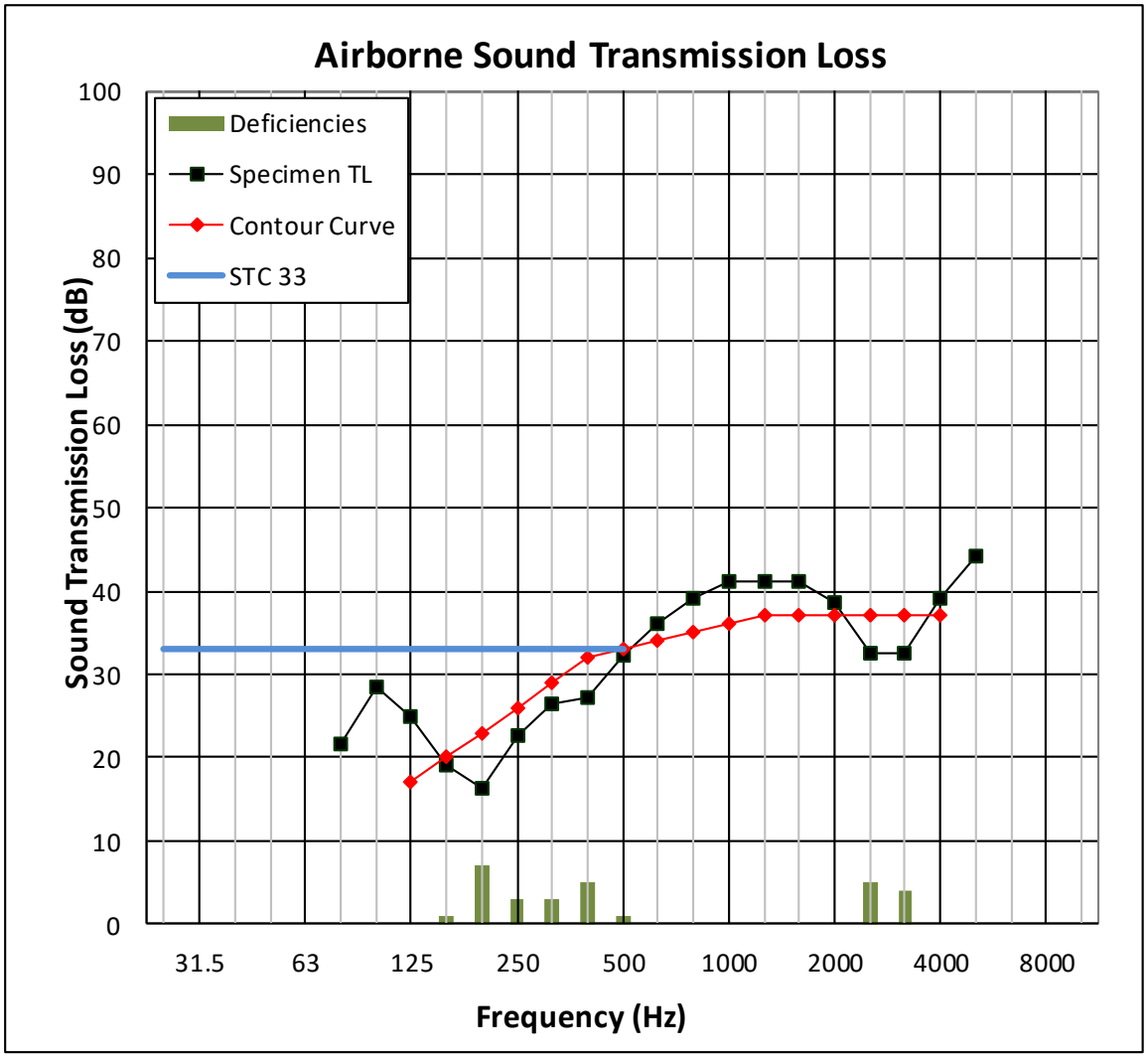
J7456.01A GRAPH



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J7456.01B DATA

SPECIMEN AREA	1.87 m²	**RECEIVE TEMP.**	23.0 ℃	**SOURCE TEMP**	21.4 ℃
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	49%	**SOURCE HUMIDIT**	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	39.8	5.0	104	76	25	1.91	-
100	37.0	5.2	105	71	31	1.84	-
125	38.7	5.9	105	73	27	1.11	0
160	40.6	5.3	107	79	24	1.53	1
200	39.9	5.0	106	77	25	0.92	3
250	33.7	5.4	102	69	28	0.44	3
315	28.3	5.8	103	65	33	0.43	1
400	23.4	6.0	102	64	32	0.56	5
500	26.3	6.4	102	59	37	0.61	1
630	23.1	6.0	101	56	40	0.26	0
800	17.3	6.2	100	52	43	0.23	0
1000	12.1	6.5	101	54	42	0.39	0
1250	10.5	7.1	100	55	39	0.36	3
1600	11.2	7.4	99	55	39	0.21	3
2000	9.2	7.9	100	53	40	0.32	2
2500	9.1	8.9	100	55	39	0.23	3
3150	8.5	10.4	99	52	39	0.28	3
4000	8.9	12.9	97	45	44	0.25	0
5000	9.8	16.2	97	38	50	0.25	-
STC RATING		38	*(Sound Transmission Class)*				
DEFICIENCIES		28	*(Sum of Deficiencies)*				
OITC RATING		33	*(Outdoor-Indoor Transmission Class)*				

Notes: *1) Receive Room levels less than 5 dB above the Background levels are red.*
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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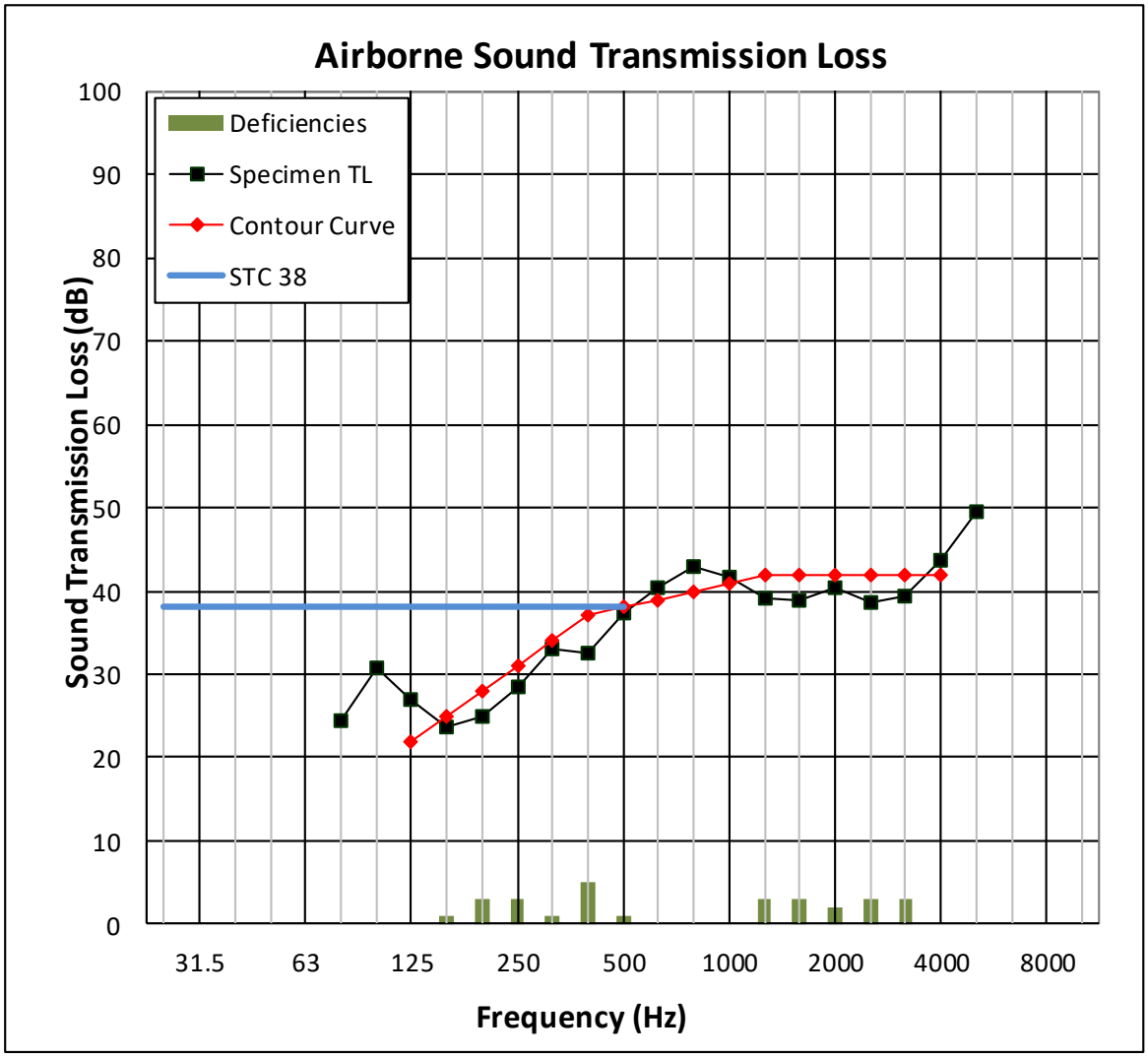

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J7456.01C DATA

SPECIMEN AREA	1.87 m²	**RECEIVE TEMP.**	21.7 °C	**SOURCE TEMP**	21.5 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	44%	**SOURCE HUMIDIT**	46%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	34.3	5.5	103	75	24	1.85	-
100	34.6	5.5	105	73	29	1.93	-
125	36.5	5.6	105	72	29	1.05	0
160	41.5	5.3	106	80	22	1.47	5
200	40.7	5.0	106	77	24	0.97	6
250	33.9	5.4	102	65	33	0.38	0
315	28.9	5.8	102	61	37	0.49	0
400	26.3	6.0	102	60	37	0.54	2
500	23.0	6.2	102	57	40	0.63	0
630	21.4	6.0	102	55	42	0.20	0
800	15.1	6.1	100	51	44	0.19	0
1000	10.5	6.3	101	52	44	0.40	0
1250	9.7	7.0	100	52	42	0.36	2
1600	9.2	7.3	99	52	42	0.22	2
2000	7.6	7.8	100	54	39	0.26	5
2500	7.5	8.9	101	53	41	0.21	3
3150	8.0	10.6	99	48	44	0.27	0
4000	8.7	13.3	97	40	48	0.21	0
5000	9.6	17.5	97	36	52	0.30	-
STC RATING		40	*(Sound Transmission Class)*				
DEFICIENCIES		25	*(Sum of Deficiencies)*				
OITC RATING		33	*(Outdoor-Indoor Transmission Class)*				

Notes: *1) Receive Room levels less than 5 dB above the Background levels are red.*
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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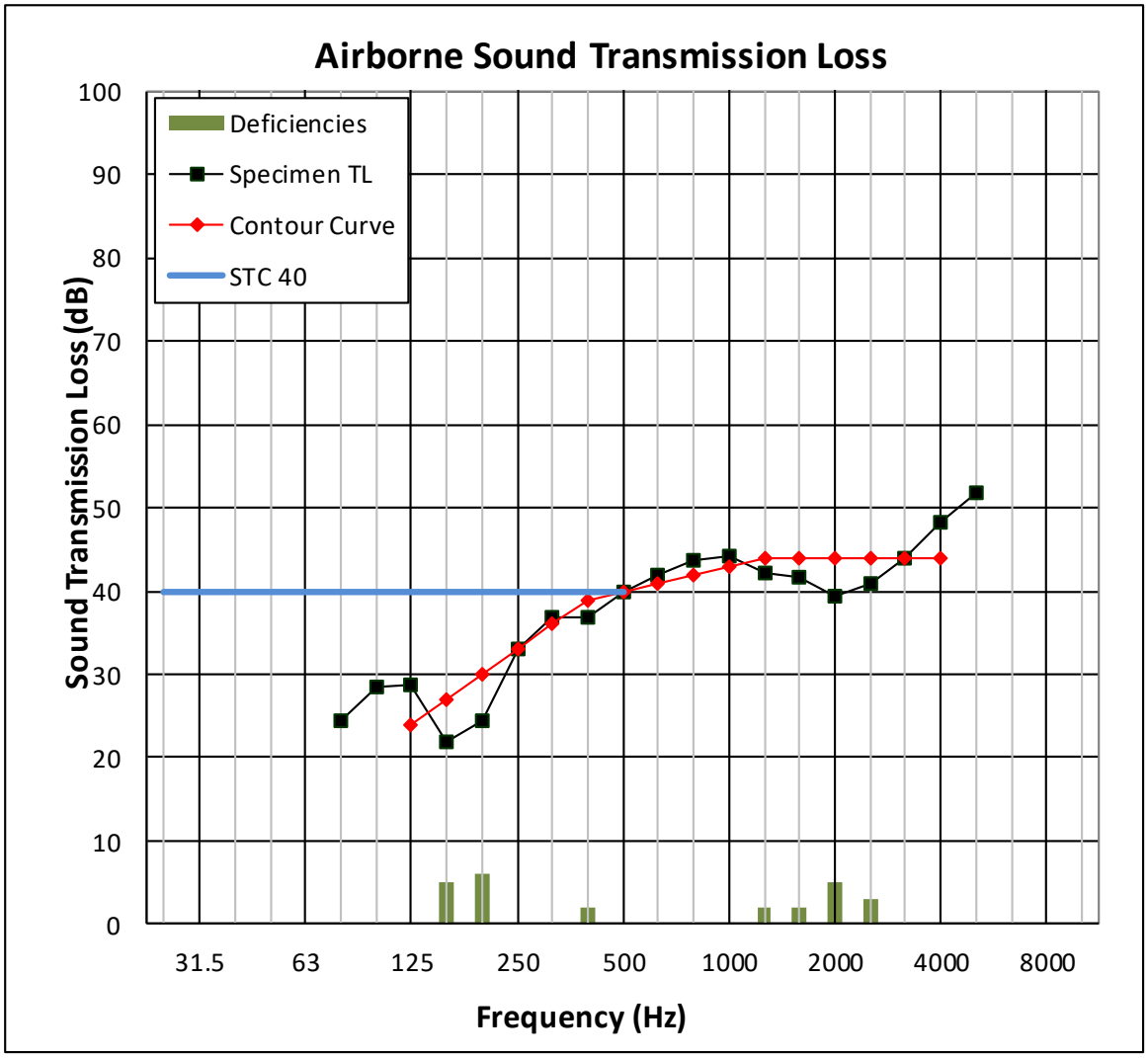
J7456.01C GRAPH



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J7456.01D DATA

SPECIMEN AREA	1.87 m²	**RECEIVE TEMP.**	22.5 °C	**SOURCE TEMP**	21.9 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	44%	**SOURCE HUMIDIT**	45%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	38.5	5.5	104	77	23	1.99	-
100	34.7	5.5	104	74	27	2.60	-
125	39.2	6.0	105	71	29	0.97	0
160	41.4	5.2	107	69	34	0.88	0
200	40.6	5.1	106	72	30	1.01	3
250	34.9	5.5	102	63	34	0.50	2
315	32.4	5.6	103	61	37	0.42	2
400	34.5	6.0	102	57	39	0.47	3
500	40.6	6.2	102	55	42	0.60	1
630	37.2	5.9	102	53	44	0.28	0
800	26.5	6.2	100	51	44	0.25	1
1000	22.9	6.4	101	51	45	0.41	1
1250	24.4	7.0	100	50	45	0.36	2
1600	22.4	7.3	99	49	44	0.24	3
2000	18.7	7.9	100	49	44	0.23	3
2500	14.4	8.9	101	48	46	0.19	1
3150	10.7	10.5	99	43	48	0.30	0
4000	10.3	13.2	97	36	52	0.16	0
5000	10.1	16.8	97	34	54	0.28	-
STC RATING		43	*(Sound Transmission Class)*				
DEFICIENCIES		22	*(Sum of Deficiencies)*				
OITC RATING		36	*(Outdoor-Indoor Transmission Class)*				

Notes: *1) Receive Room levels less than 5 dB above the Background levels are red.*
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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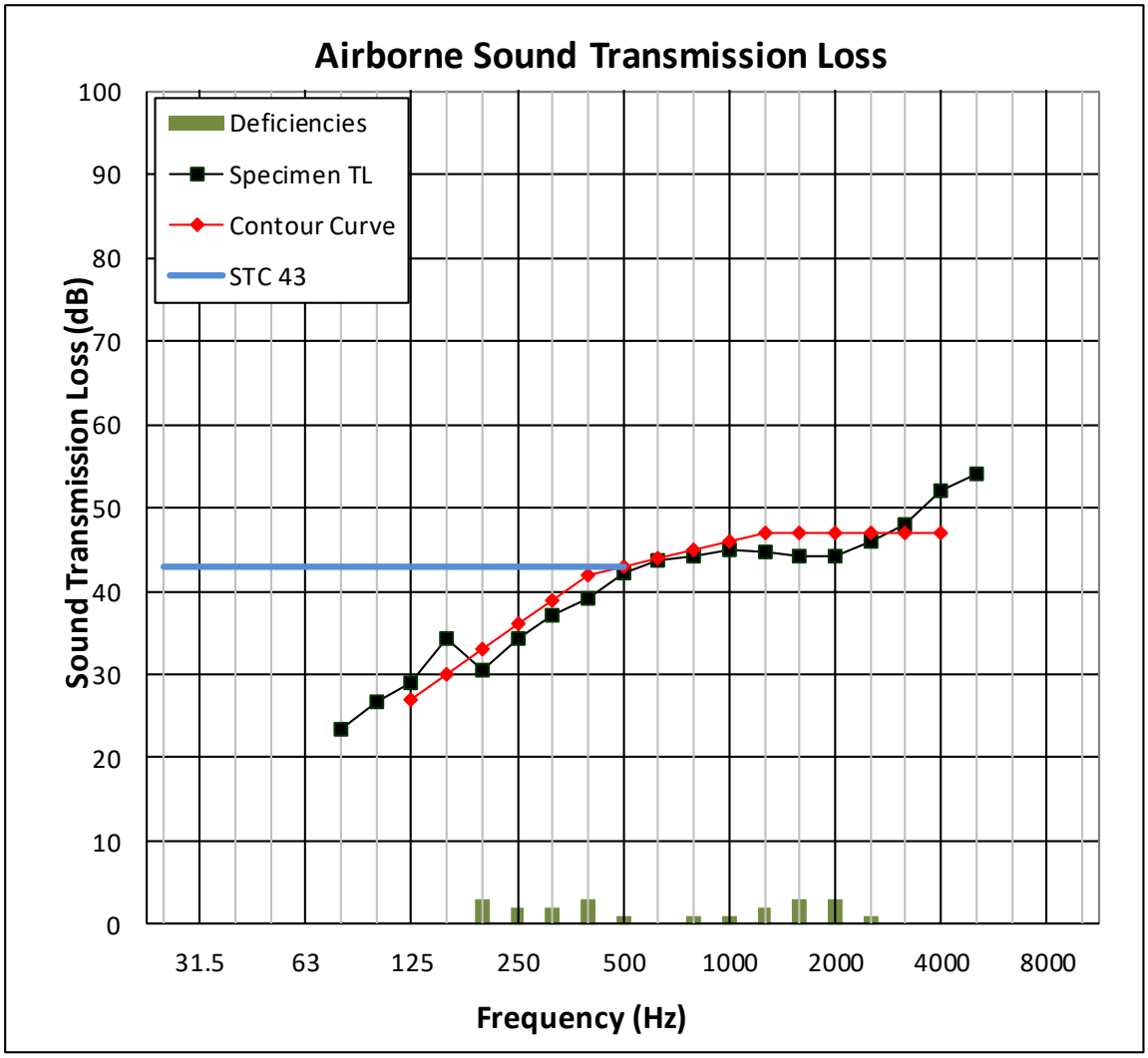
TEST REPORT FOR KOMMERLING USA INC.
Report No.: J7456.01-113-11-R0
Date: 08/22/19

J7456.01D GRAPH



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J7456.01E DATA

SPECIMEN AREA	1.87 m²	**RECEIVE TEMP.**	23.4 ℃	**SOURCE TEMP**	21.8 ℃
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	49%	**SOURCE HUMIDIT**	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	41.7	5.8	104	77	22	1.73	-
100	34.8	6.1	105	72	28	1.85	-
125	36.7	5.5	105	80	20	1.23	0
160	40.1	5.2	107	81	22	0.94	0
200	39.4	5.2	106	82	19	1.03	6
250	33.5	5.3	102	75	23	0.69	5
315	27.4	5.8	103	72	26	0.43	5
400	23.2	6.1	102	68	29	0.49	5
500	28.2	6.2	102	60	36	0.59	0
630	22.8	6.0	101	57	39	0.33	0
800	17.6	6.3	100	51	44	0.24	0
1000	13.9	6.6	101	49	47	0.38	0
1250	10.9	7.0	100	46	48	0.37	0
1600	10.8	7.4	100	45	48	0.23	0
2000	8.6	7.8	100	47	46	0.27	0
2500	7.9	8.9	101	58	36	0.16	3
3150	8.2	10.3	99	55	36	0.21	3
4000	8.8	12.8	97	46	43	0.18	0
5000	9.7	16.1	97	39	49	0.38	-
STC RATING		35	*(Sound Transmission Class)*				
DEFICIENCIES		27	*(Sum of Deficiencies)*				
OITC RATING		28	*(Outdoor-Indoor Transmission Class)*				

Notes: *1) Receive Room levels less than 5 dB above the Background levels are red.*
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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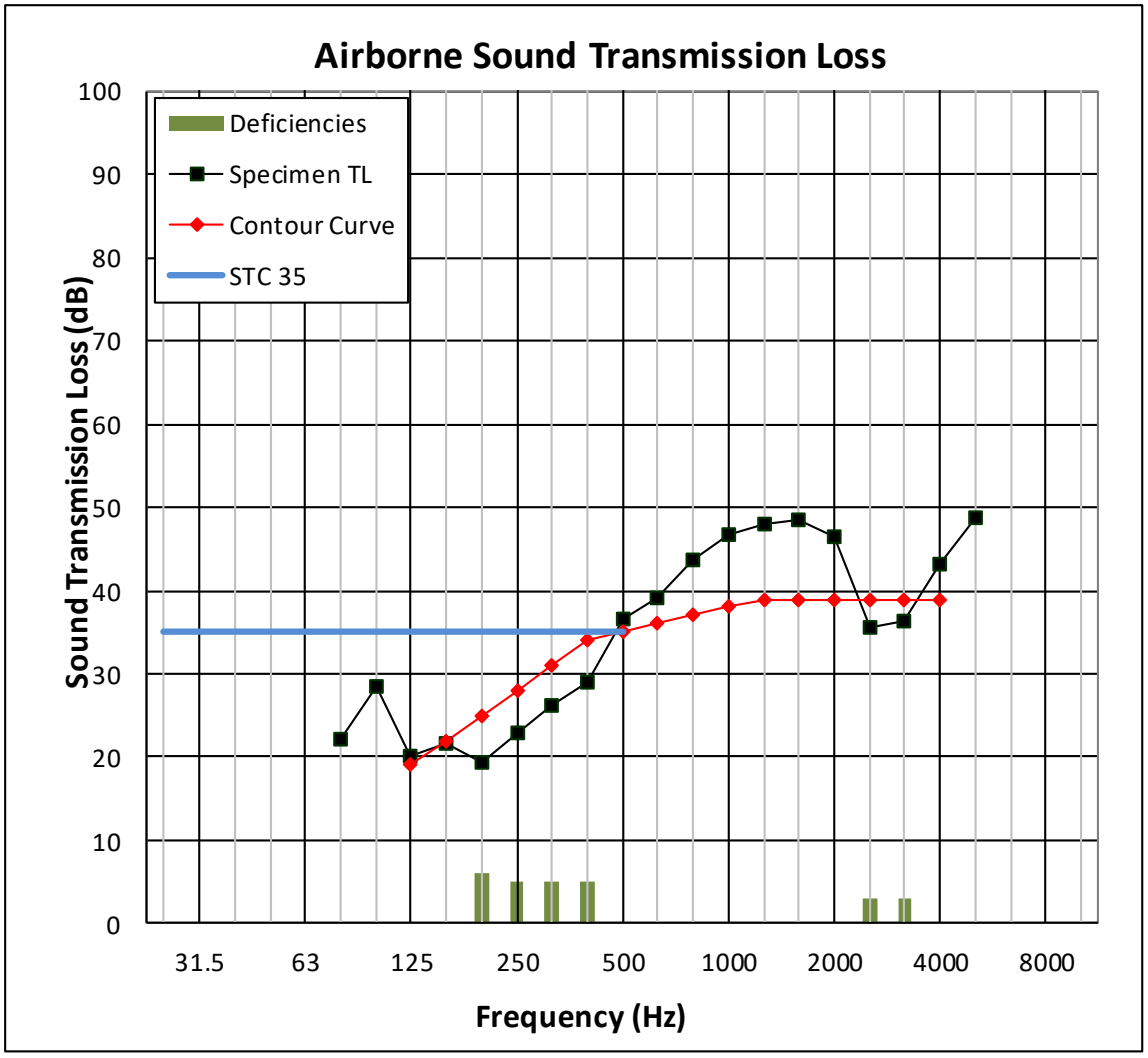
J7456.01E GRAPH



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SECTION 11
PHOTOGRAPHS

Photo No. 1
Receive Room View of Installed Test Specimen

Photo No. 2
Source Room View of Installed Test Specimen

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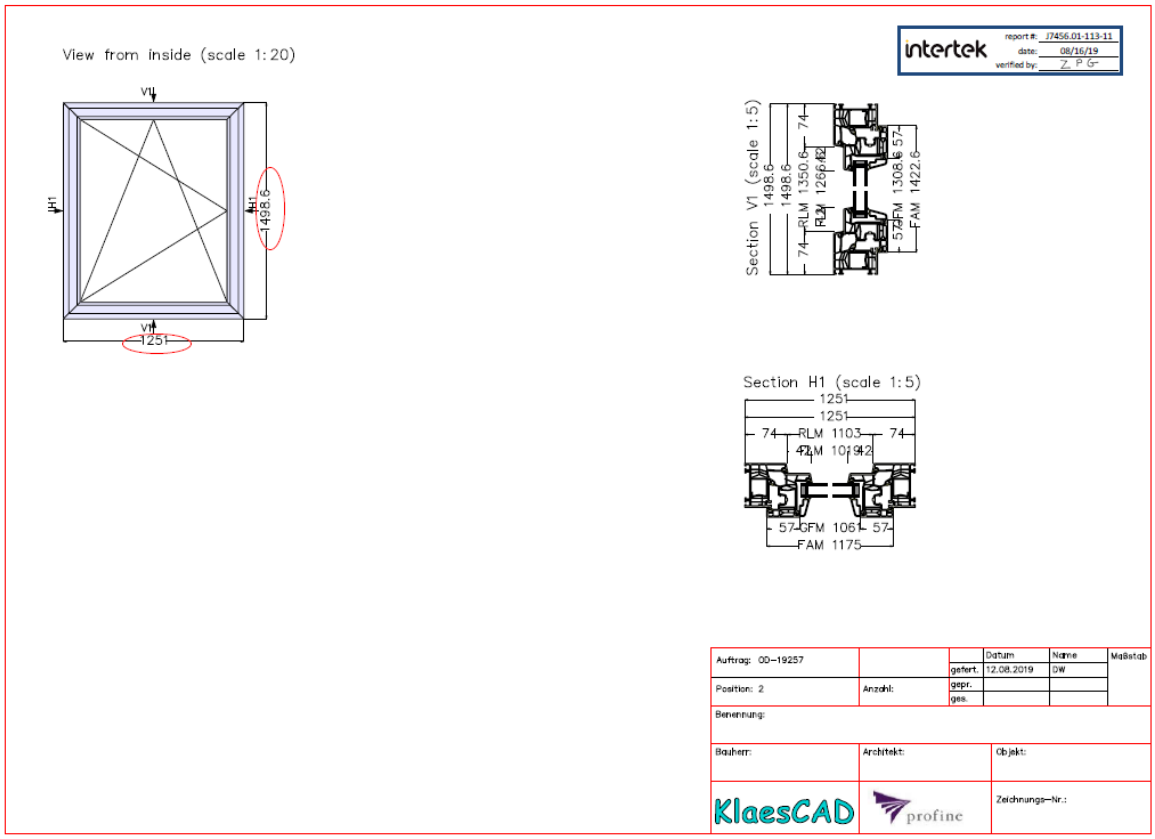
SECTION 12
DRAWING



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SECTION 13
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	08/22/19	N/A	Original Report Issue