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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, FIXED WINDOW

REPORT NUMBER
J7455.01-113-11-R0

TEST DATE
07/23/19

ISSUE DATE
08/22/19

PAGES
22

DOCUMENT CONTROL NUMBER
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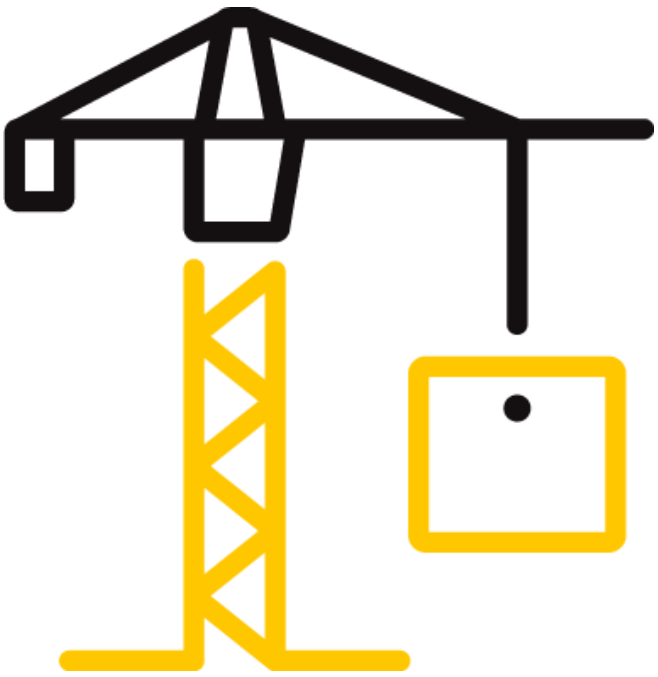

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Report No.: J7455.01-113-11-R0
Date: 08/22/19

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	Fixed window

OPTION J7455.01A

GLAZING (Nominal Dimensions)	7/8" IG (3/16" tempered, 1/2" argon, 3/16" tempered)
STC	32
OITC	26

OPTION J7455.01B

GLAZING (Nominal Dimensions)	1-1/16" IG (3/16" tempered exterior, 1/2" argon, 3/8" tempered interior)
STC	37
OITC	32

OPTION J7455.01C

GLAZING (Nominal Dimensions)	1-1/4" IG (1/4" annealed exterior, 9/16" argon, 7/16" laminated interior), Glass temperature 75˚F
STC	39
OITC	31

OPTION J7455.01D1

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	34

OPTION J7455.01E

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	32
OITC	26

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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
SIZE	47-1/4" by 59"
THICKNESS	3"
CORNERS	Mitered
FASTENERS	Welds
SEAL METHOD	N/A
MATERIAL	Vinyl
REINFORCEMENT	Steel located in all members
THERMAL BREAK MATERIAL	N/A
DAYLIGHT OPENING SIZE	41-1/4" by 53-1/8"

OPTION J7455.01A

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	0.881"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.188"	0.508"	0.185"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Tempered	Argon*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A

OPTION J7455.01B

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.119"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.191"	0.550"	0.378"
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 J7455.01C

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.248"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.232"	0.593"	0.180", 0.060", 0.183"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Annealed	Argon*	Laminated
LAMINATE MATERIAL	N/A	N/A	PVB

OPTION J7455.01D1

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.342"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.127", 0.060", 0.125"	0.602"	0.184", 0.060", 0.184"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Laminated	Argon*	Laminated
LAMINATE MATERIAL	PVB	N/A	PVB

OPTION J7455.01E

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.571"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**CENTER SHEET**	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.185"	0.502"	0.186"	0.513"	0.185"
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	No weatherstrip		
HARDWARE	No hardware		
DRAINAGE	1" by 3/16" Weep slot	3	Sill face

OPTION	TOTAL WEIGHT (lbs)	AVERAGE WEIGHT (lbs/ft^2)
A	114	5.89
B	155	8.00
C	167	8.62
D	179	9.24
E	154	7.95

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

J7455.01A DATA

SPECIMEN AREA	1.80 m²	**RECEIVE TEMP.**	23.1 °C	**SOURCE TEMP**	21.6 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	43%	**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	42.4	5.6	103	78	21	1.90	-
100	36.1	5.8	104	74	26	2.14	-
125	39.3	5.1	105	76	25	1.66	0
160	41.9	5.2	107	80	23	0.92	0
200	40.3	5.0	106	85	16	1.05	6
250	35.0	5.8	103	77	20	0.55	5
315	32.8	5.9	103	74	23	0.59	5
400	34.0	6.0	102	70	26	0.57	5
500	41.7	6.3	102	65	31	0.62	1
630	36.2	6.0	102	61	35	0.25	0
800	26.8	6.2	100	57	38	0.29	0
1000	23.5	6.4	101	55	41	0.41	0
1250	24.1	6.9	100	52	43	0.37	0
1600	22.2	7.4	99	51	42	0.25	0
2000	18.2	7.8	100	54	39	0.24	0
2500	14.3	9.0	100	62	31	0.21	5
3150	11.1	10.6	99	59	32	0.18	4
4000	11.2	13.4	97	49	39	0.17	0
5000	11.5	17.1	97	40	48	0.38	-
STC RATING		32	*(Sound Transmission Class)*				
DEFICIENCIES		31	*(Sum of Deficiencies)*				
OITC RATING		26	*(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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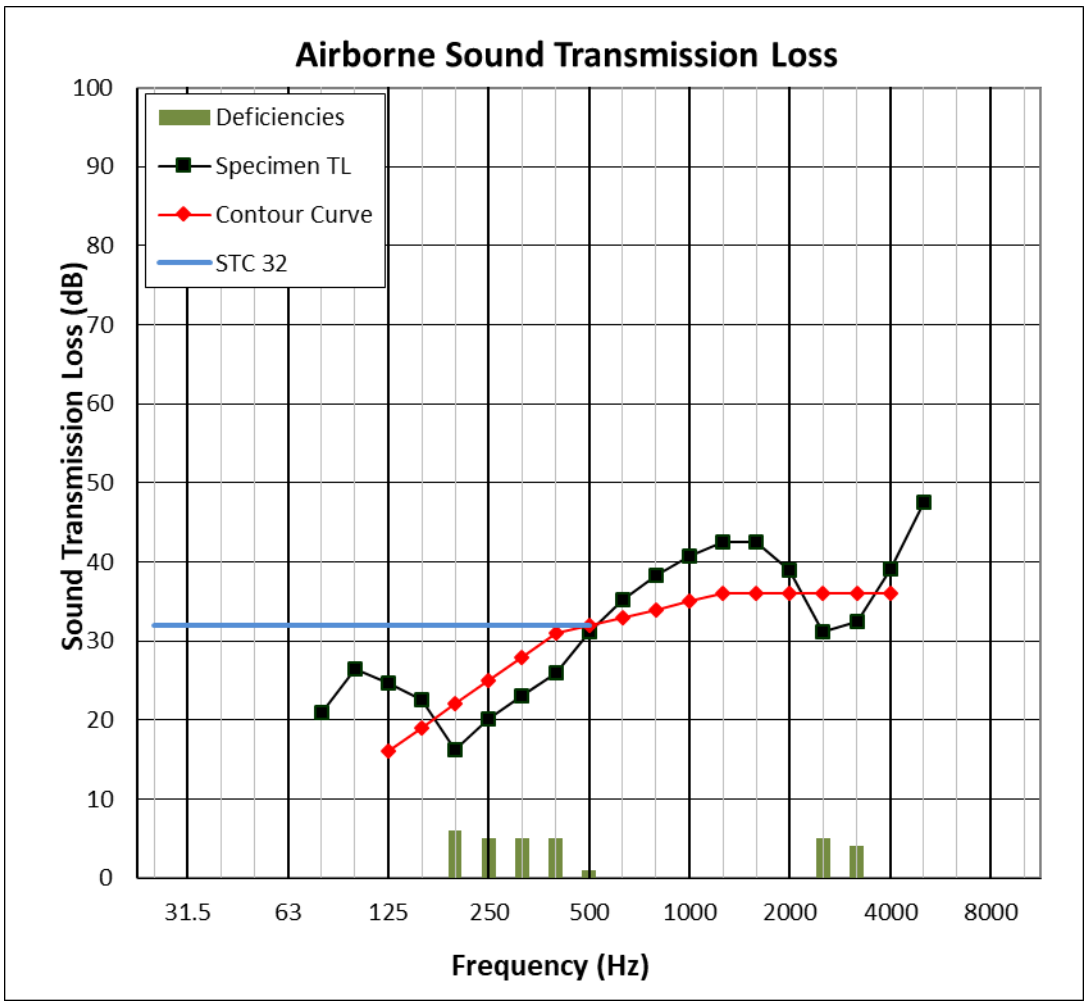
J7455.01A GRAPH



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J7455.01B DATA

SPECIMEN AREA	1.80 m²	**RECEIVE TEMP.**	23.6 °C	**SOURCE TEMP**	22.6 °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	43.8	5.9	103	75	24	1.72	-
100	34.5	5.5	105	71	30	1.96	-
125	38.2	6.2	105	73	27	1.18	0
160	40.4	5.5	107	77	25	0.90	0
200	38.6	4.9	106	77	24	1.11	3
250	33.6	5.6	102	73	25	0.65	5
315	27.9	5.7	102	68	30	0.46	3
400	23.0	6.0	102	65	31	0.60	5
500	27.2	6.2	102	60	36	0.63	1
630	22.4	5.9	101	57	39	0.25	0
800	17.7	6.2	100	54	41	0.24	0
1000	14.4	6.5	101	54	42	0.40	0
1250	14.3	7.0	100	54	41	0.36	0
1600	12.4	7.4	99	54	39	0.22	2
2000	9.9	7.8	100	53	40	0.31	1
2500	9.4	8.8	100	55	38	0.19	3
3150	9.2	10.5	99	52	39	0.19	2
4000	10.5	13.1	97	45	43	0.30	0
5000	12.7	16.6	97	38	50	0.32	-
STC RATING		37	*(Sound Transmission Class)*				
DEFICIENCIES		25	*(Sum of Deficiencies)*				
OITC RATING		32	*(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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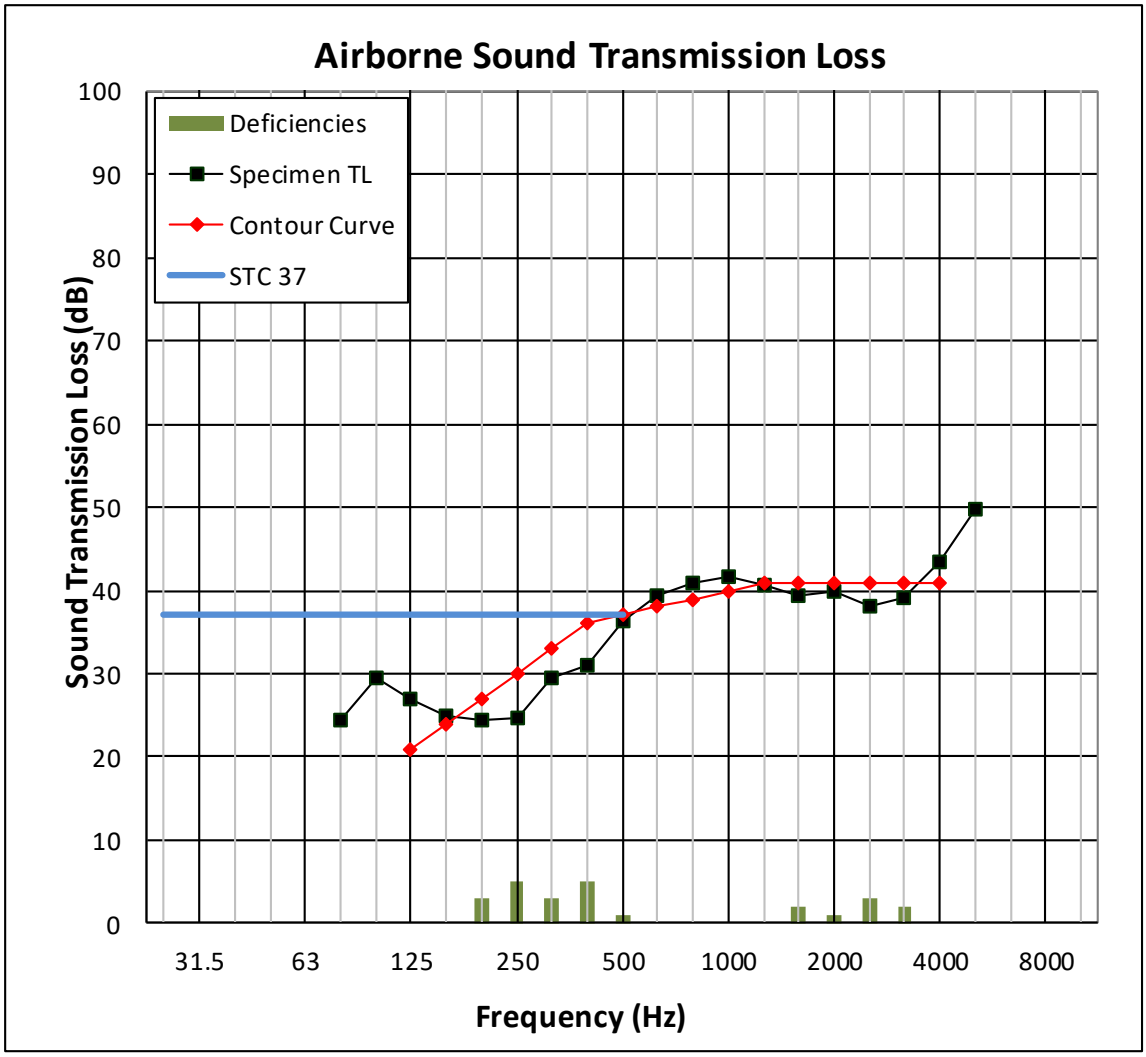
J7455.01B GRAPH



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J7455.01C DATA

SPECIMEN AREA	1.80 m²	**RECEIVE TEMP.**	23.1 °C	**SOURCE TEMP**	22.2 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	46%	**SOURCE HUMIDIT**	47%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	44.4	5.8	104	76	23	2.20	-
100	35.0	5.5	105	73	28	2.11	-
125	37.9	5.4	105	74	27	1.15	0
160	40.0	5.5	107	83	19	1.77	7
200	38.4	5.0	106	79	23	1.07	6
250	33.2	5.5	102	67	30	0.47	2
315	27.0	5.8	103	62	36	0.44	0
400	22.5	6.0	101	62	34	0.47	4
500	17.9	6.4	102	58	38	0.66	1
630	20.2	6.0	102	55	42	0.23	0
800	16.8	6.2	100	52	43	0.23	0
1000	11.1	6.5	101	52	44	0.40	0
1250	9.4	7.0	100	52	42	0.35	1
1600	8.6	7.3	99	51	42	0.22	1
2000	7.8	7.8	100	54	39	0.26	4
2500	7.6	8.9	100	53	41	0.20	2
3150	8.1	10.5	99	48	43	0.24	0
4000	8.8	12.8	97	40	49	0.21	0
5000	9.8	16.4	97	35	53	0.34	-
STC RATING		39	*(Sound Transmission Class)*				
DEFICIENCIES		28	*(Sum of Deficiencies)*				
OITC RATING		31	*(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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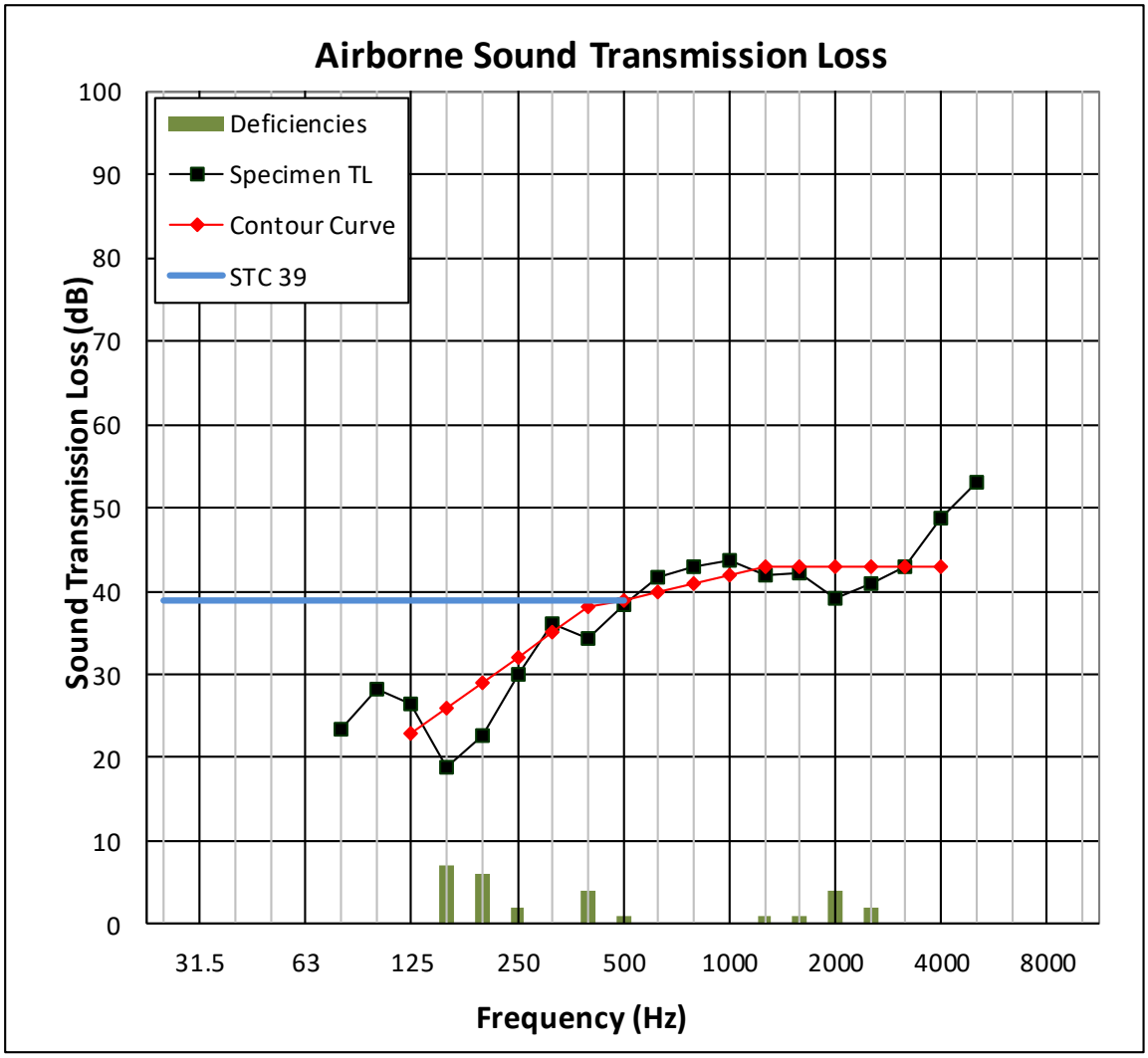
J7455.01C GRAPH



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J7455.01D1 DATA

SPECIMEN AREA	1.80 m²	**RECEIVE TEMP.**	23.4 °C	**SOURCE TEMP**	22.8 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	49%	**SOURCE HUMIDITY**	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	45.0	5.9	104	76	24	1.82	-
100	35.6	5.8	104	70	30	1.65	-
125	38.3	6.0	105	78	22	1.47	5
160	39.8	5.3	107	70	34	0.96	0
200	38.1	4.9	106	75	27	0.94	6
250	33.3	5.5	102	63	34	0.36	2
315	27.6	5.8	103	61	37	0.54	2
400	23.2	6.0	102	59	38	0.49	4
500	26.9	6.3	102	56	41	0.62	2
630	23.7	6.0	102	53	43	0.24	1
800	17.4	6.2	100	49	45	0.24	0
1000	12.2	6.4	101	49	46	0.35	0
1250	10.2	7.0	100	49	45	0.36	2
1600	10.3	7.3	99	48	45	0.25	2
2000	8.5	7.8	100	50	44	0.25	3
2500	8.1	8.8	100	48	46	0.17	1
3150	8.2	10.3	99	45	47	0.18	0
4000	8.8	12.7	97	38	50	0.21	0
5000	9.7	16.0	97	32	56	0.26	-
STC RATING	43	*(Sound Transmission Class)*					
DEFICIENCIES	30	*(Sum of Deficiencies)*					
OITC RATING	34	*(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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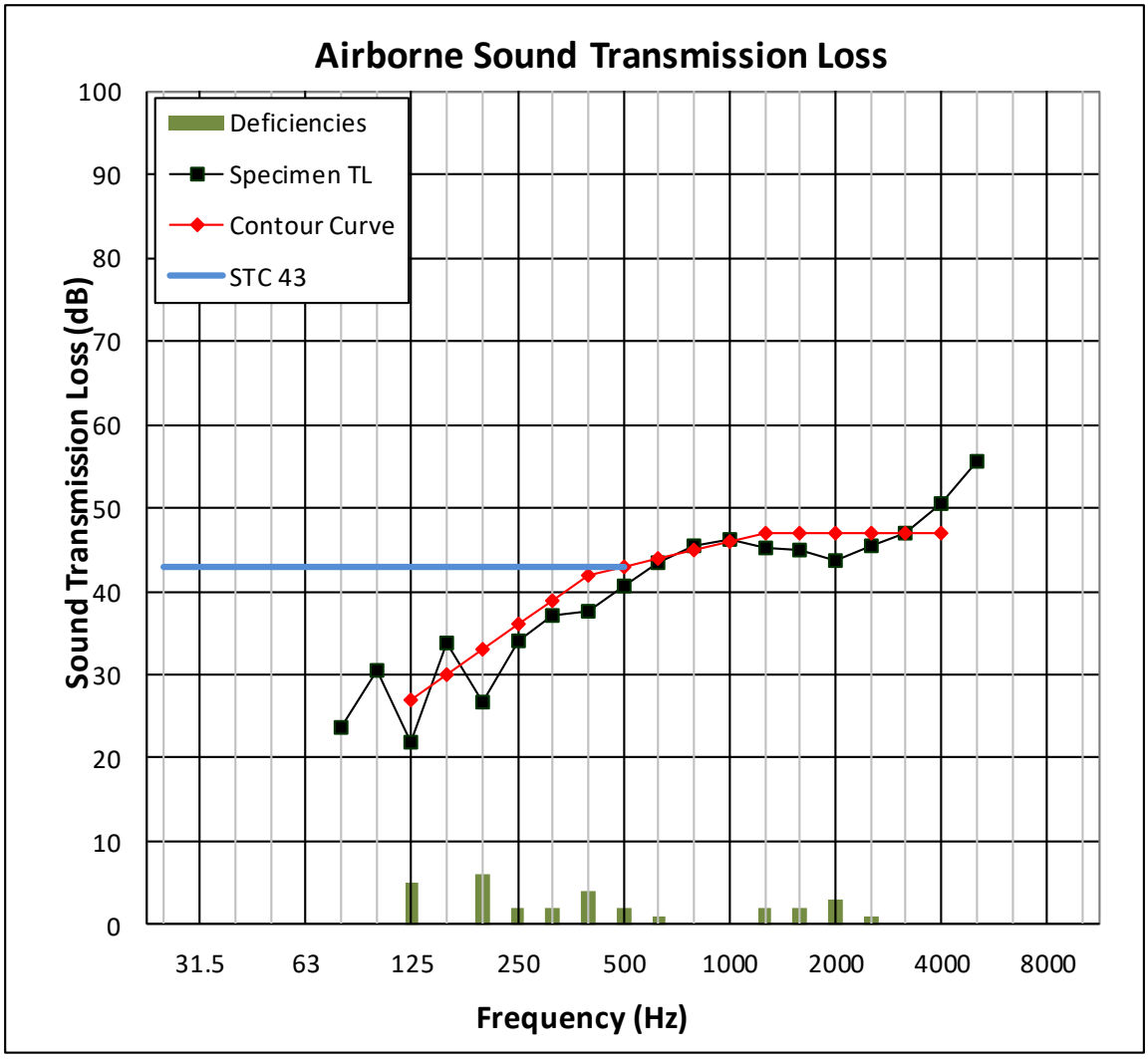
TEST REPORT FOR KOMMERLING USA INC.
Report No.: J7455.01-113-11-R0
Date: 08/22/19

J7455.01D1 GRAPH



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TEST REPORT FOR KOMMERLING USA INC.

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J7455.01E DATA

SPECIMEN AREA	1.80 m²	RECEIVE TEMP.	22.3 °C	SOURCE TEMP	21.7 °C
TECHNICIAN	Zachary Gol	RECEIVE HUMIDITY	49%	SOURCE HUMIDIT	51%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	45.5	5.7	103	77	23	1.81	-
100	36.9	5.3	104	71	29	1.85	-
125	38.3	5.5	105	79	21	1.09	0
160	40.4	5.3	106	86	16	1.38	3
200	39.2	5.0	106	84	17	1.15	5
250	33.6	5.6	102	76	21	0.54	4
315	28.0	5.9	103	74	24	0.49	4
400	23.2	6.0	102	70	27	0.54	4
500	20.2	6.2	102	65	32	0.61	0
630	21.0	6.0	101	60	36	0.29	0
800	18.5	6.2	100	53	41	0.27	0
1000	14.8	6.5	101	51	45	0.37	0
1250	11.2	7.0	100	46	48	0.39	0
1600	9.3	7.3	99	45	49	0.21	0
2000	8.9	7.7	100	48	45	0.27	0
2500	8.1	8.8	100	60	33	0.13	3
3150	8.5	10.4	99	58	33	0.18	3
4000	8.9	12.8	97	49	40	0.25	0
5000	9.7	16.2	97	41	46	0.43	-
STC RATING	32	*(Sound Transmission Class)*					
DEFICIENCIES	26	*(Sum of Deficiencies)*					
OITC RATING	26	*(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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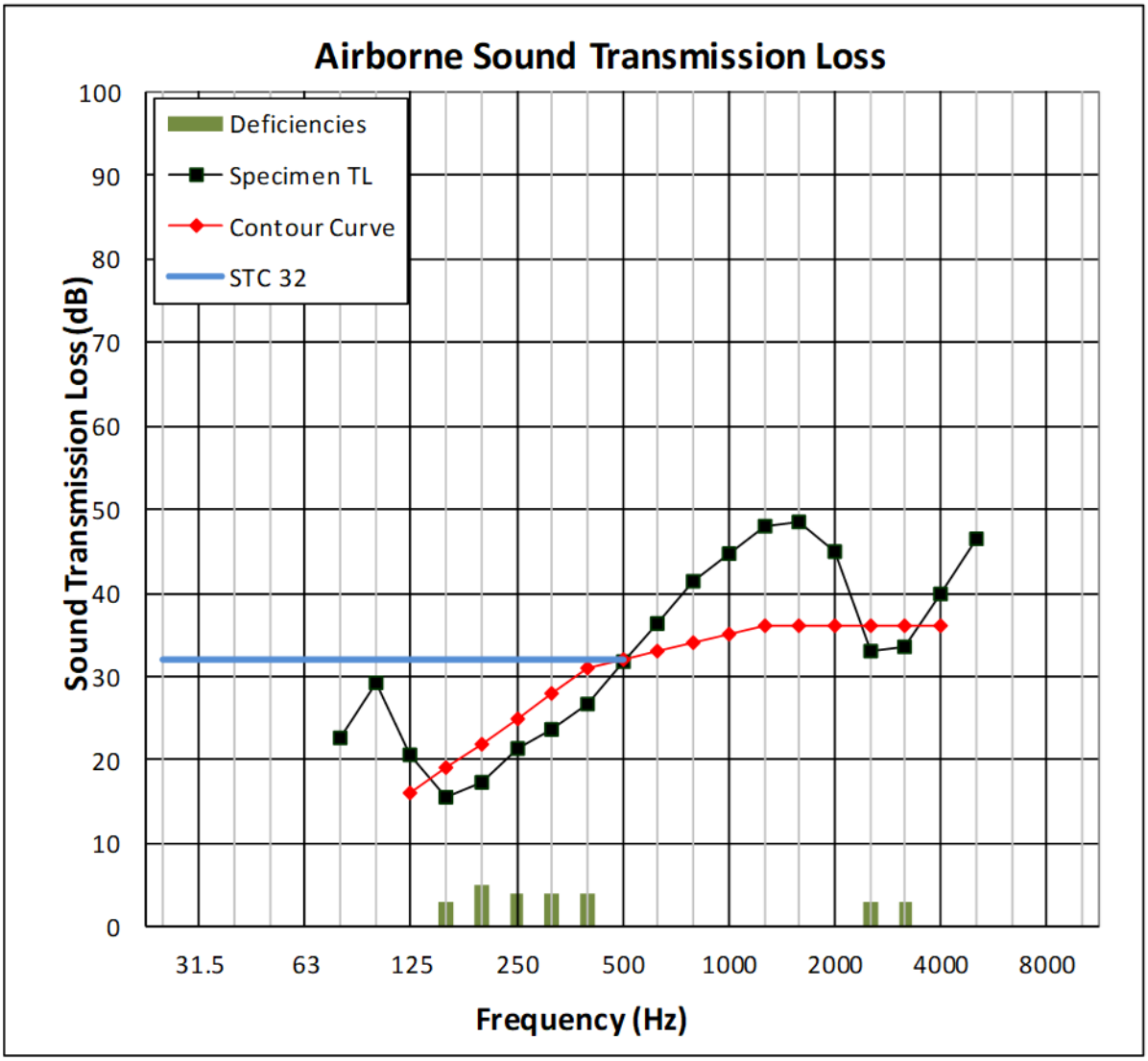
J7455.01E GRAPH



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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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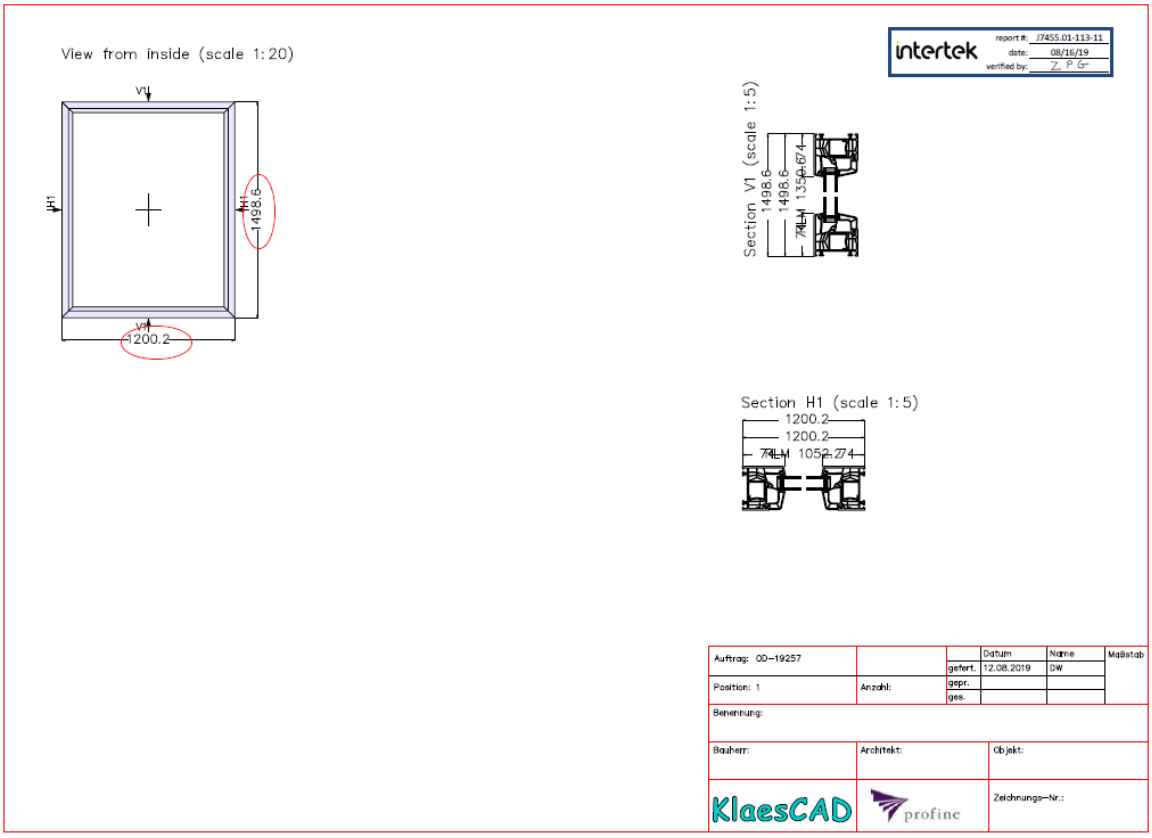
SECTION 12
DRAWING



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SECTION 13
REVISION LOG

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