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KOMMERLING USA INC.

ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK
ASTM E90 SOUND TRANSMISSION LOSS TESTING ON A PD88 SERIES, LIFT AND SLIDE DOOR

REPORT NUMBER
J7457.01-113-11-R0

TEST DATE
07/24/19

ISSUE DATE
08/22/19

PAGES
22

DOCUMENT CONTROL NUMBER
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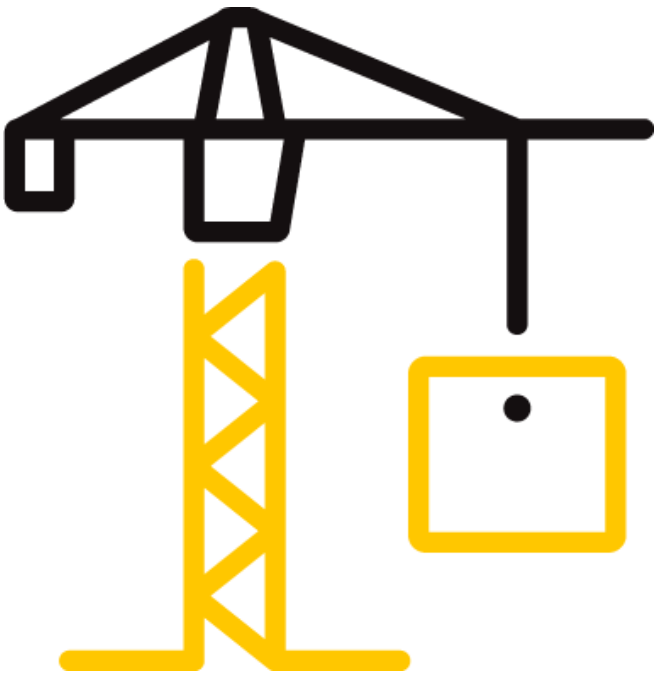

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Report No.: J7457.01-113-11-R0
Date: 08/22/19

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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SECTION 2
SUMMARY OF TEST RESULTS

SERIES/MODEL	PD88 Series
TYPE	Lift and slide door

OPTION J7457.01A

GLAZING (Nominal Dimensions)	7/8" IG (3/16" tempered, 1/2" argon, 3/16" tempered)
STC	32
OITC	27

OPTION J7457.01B

GLAZING (Nominal Dimensions)	1-1/16" IG (3/16" tempered exterior, 1/2" argon, 3/8" tempered interior)
STC	36
OITC	30

OPTION J7457.01C

GLAZING (Nominal Dimensions)	1-1/4" IG (3/16" tempered, 11/16" argon, 3/8" tempered)
STC	37
OITC	32

OPTION J7457.01D

GLAZING (Nominal Dimensions)	1-3/8" IG (5/16" laminated exterior, 5/8" argon, 7/16" laminated interior) Glass temperature 75°F
STC	39
OITC	34

OPTION J7457.01E

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	33
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. The specimen was placed on an isolation pad in the 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	ACTIVE PANEL	FIXED PANEL
SIZE	78-3/4" by 78-3/4"	38-5/16" by 73-1/2"	38-5/16" by 73-1/2"
THICKNESS	8-1/8"	3-7/16"	N/A
CORNERS	Butted	Mitered	Mitered
FASTENERS	Screws	Welds	Welds
SEAL METHOD	Sealant	N/A	N/A
MATERIAL	Vinyl	Vinyl	Vinyl
REINFORCEMENT	Steel located in all members	Steel located in all members	Steel located in all members
THERMAL BREAK MATERIAL	N/A	N/A	N/A
DAYLIGHT OPENING SIZE	N/A	30" by 65-3/8"	30" by 65-3/8"

OPTION J7457.01A

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	0.857"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.190"	0.483"	0.184"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Tempered	Argon*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A

OPTION J7457.01B

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.016"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	GAP	INTERIOR SHEET
MEASURED THICKNESS	0.185"	0.457"	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 J7457.01C

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.225"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.185"	0.667"	0.373"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Tempered	Argon*	Tempered
LAMINATE MATERIAL	N/A	N/A	N/A

OPTION J7457.01D

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.394"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.123", 0.060", 0.124"	0.670"	0.177", 0.063", 0.177"
MUNTIN PATTERN	N/A	N/A	N/A
MATERIAL	Laminated	Argon*	Laminated
LAMINATE MATERIAL	PVB	N/A	PVB

OPTION J7457.01E

MEASURED OVERALL INSULATION GLASS UNIT THICKNESS	1.528"
SPACER TYPE	Aluminum

	EXTERIOR SHEET	**GAP**	**CENTER SHEET**	**GAP**	**INTERIOR SHEET**
MEASURED THICKNESS	0.184"	0.493"	0.185"	0.482"	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	Lock jamb, meeting stile, and head
	1/4" Hollow bulb gasket	1 Row	Head
	5/16" Leaf gasket	2 Rows	Lock stile
	1/4" Hollow bulb gasket	2 Rows	Bottom rail and top rail
	1/4" Hollow bulb gasket with 1/8" leaf	2 Rows	Lock stile
HARDWARE	Roller wheel assembly set	1 Set	Top rail and bottom rail
	Multi-point lock system	1	Locking stile
	Keeper	2	Keeper jamb
DRAINAGE	Sloped sill	1	Sill

OPTION	TOTAL WEIGHT (lbs)	AVERAGE WEIGHT (lbs/ft^2)
A	437	10.14
B	511	11.86
C	514	11.93
D	548	12.72
E	507	11.77

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

J7457.01A DATA

SPECIMEN AREA	4.00 m²	**RECEIVE TEMP.**	22.7 °C	**SOURCE TEMP**	21.8 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	51%	**SOURCE HUMIDIT**	53%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	39.7	6.3	103	78	24	1.87	-
100	35.8	6.5	104	76	27	2.18	-
125	39.5	6.8	105	77	25	0.81	0
160	40.7	5.5	107	81	24	0.93	0
200	39.7	5.3	106	85	19	0.96	3
250	31.7	5.9	103	83	18	0.44	7
315	25.4	6.4	103	77	23	0.56	5
400	21.6	6.4	102	74	26	0.41	5
500	17.2	6.5	102	70	30	0.52	2
630	18.8	6.3	101	65	34	0.36	0
800	16.0	6.4	100	64	34	0.18	0
1000	11.1	6.7	101	64	35	0.55	0
1250	8.9	7.2	100	61	37	0.40	0
1600	8.8	7.5	99	57	39	0.35	0
2000	7.9	8.0	100	59	38	0.15	0
2500	7.5	8.9	101	64	34	0.12	2
3150	8.1	10.2	99	61	34	0.18	2
4000	8.8	12.7	97	52	40	0.25	0
5000	9.7	16.0	97	47	44	0.28	-
STC RATING		32	*(Sound Transmission Class)*				
DEFICIENCIES		26	*(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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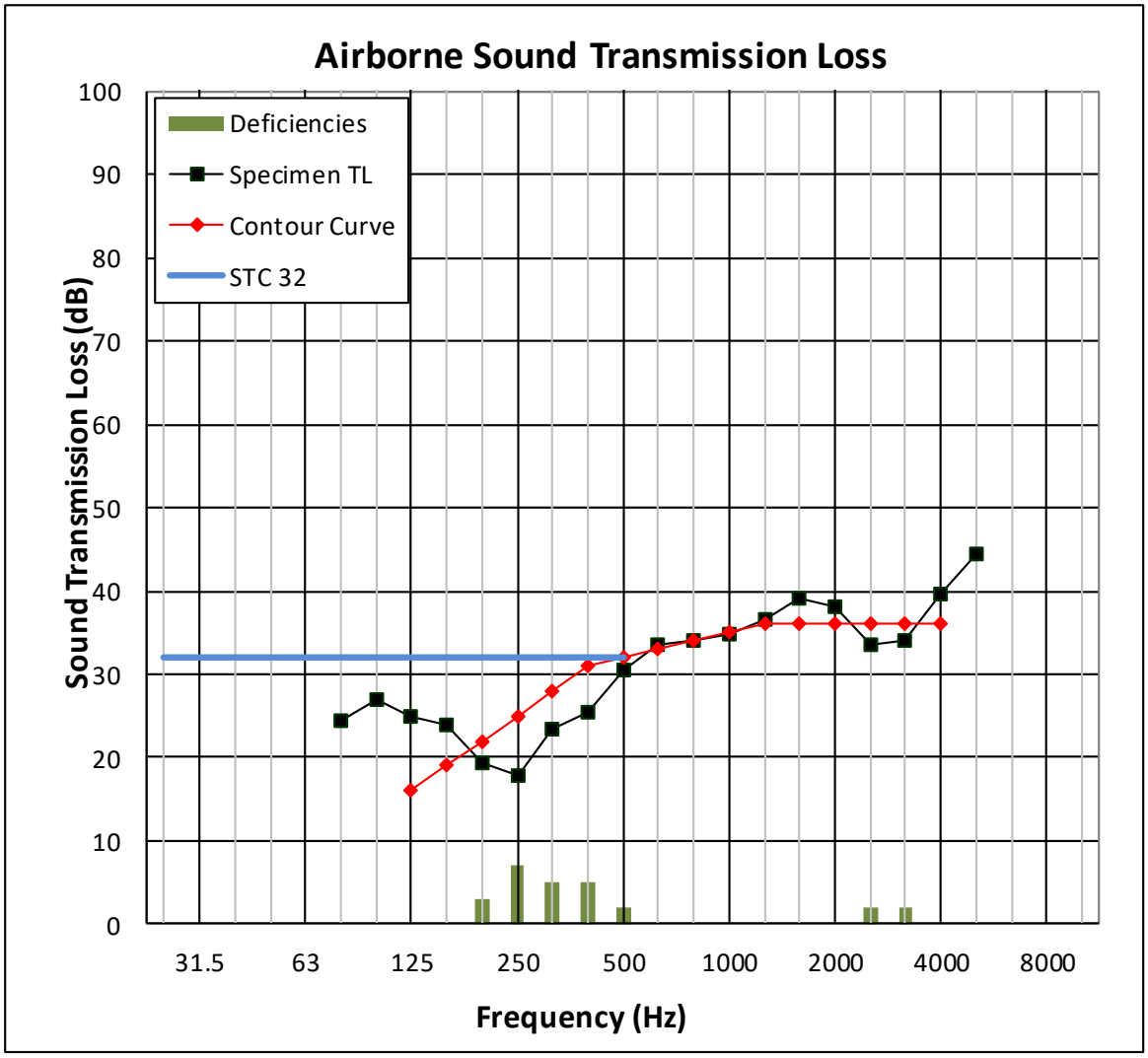
J7457.01A GRAPH



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J7457.01B DATA

SPECIMEN AREA	4.00 m²	**RECEIVE TEMP.**	22.8 °C	**SOURCE TEMP**	22.3 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	48%	**SOURCE HUMIDIT**	48%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	38.1	7.0	103	76	27	1.70	-
100	34.4	6.4	104	73	30	1.79	-
125	40.0	6.3	105	76	27	1.21	0
160	39.9	5.6	106	87	18	1.87	5
200	39.2	5.2	106	81	24	0.87	2
250	32.6	5.5	103	76	26	0.39	3
315	25.4	6.1	103	71	31	0.61	1
400	21.5	6.2	102	67	33	0.35	2
500	17.3	6.5	102	64	35	0.42	1
630	19.2	6.2	101	63	36	0.39	1
800	16.4	6.5	100	63	35	0.21	3
1000	11.4	6.6	101	64	35	0.55	4
1250	9.3	7.2	100	61	37	0.42	3
1600	8.5	7.5	99	58	38	0.31	2
2000	7.8	8.1	100	57	40	0.13	0
2500	7.5	9.0	101	59	39	0.15	1
3150	8.1	10.3	99	55	39	0.17	1
4000	8.8	13.0	97	49	42	0.26	0
5000	9.8	16.3	97	45	46	0.27	-
STC RATING	36	*(Sound Transmission Class)*					
DEFICIENCIES	29	*(Sum of Deficiencies)*					
OITC RATING	30	*(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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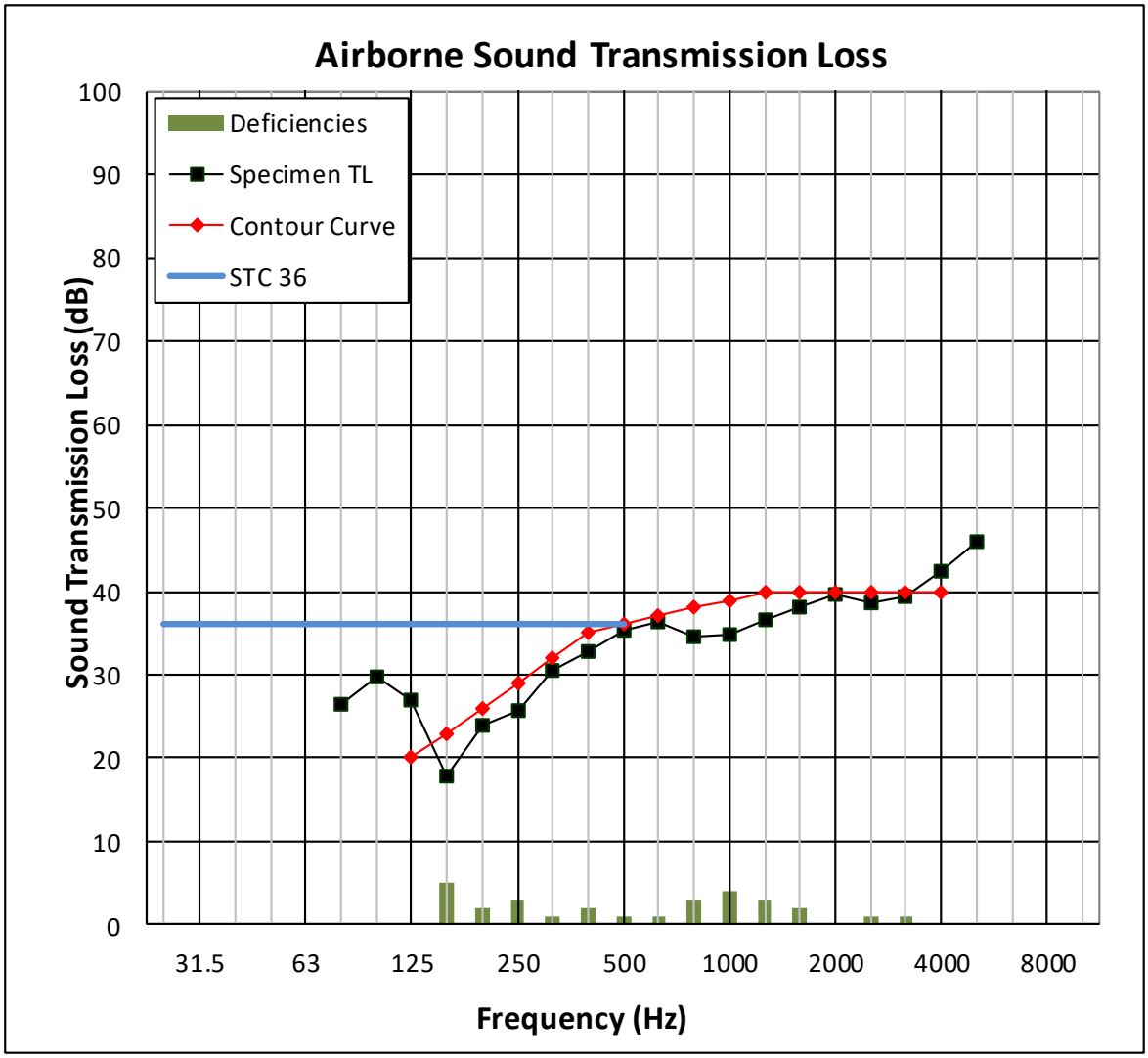

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J7457.01C DATA

SPECIMEN AREA	4.00 m²	**RECEIVE TEMP.**	22.1 °C	**SOURCE TEMP**	21.0 °C
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	39.4	6.5	103	77	26	1.75	-
100	38.2	6.2	104	75	29	2.26	-
125	39.1	6.6	105	79	24	0.82	0
160	40.2	5.8	107	80	25	1.04	0
200	39.6	5.1	106	78	27	0.87	0
250	33.0	5.6	103	73	28	0.47	2
315	26.7	6.3	103	70	31	0.60	2
400	22.5	6.1	102	64	35	0.35	1
500	18.0	6.6	102	63	36	0.38	1
630	19.2	6.4	101	62	37	0.32	1
800	16.0	6.5	100	63	35	0.20	4
1000	12.0	6.7	101	64	35	0.53	5
1250	9.5	7.3	100	60	37	0.44	4
1600	8.9	7.6	99	58	39	0.32	2
2000	8.0	8.1	100	57	40	0.18	1
2500	7.6	9.0	101	59	38	0.19	3
3150	8.1	10.5	99	56	39	0.21	2
4000	8.9	12.9	97	49	43	0.21	0
5000	9.8	16.4	97	46	45	0.25	-
STC RATING	37	*(Sound Transmission Class)*					
DEFICIENCIES	28	*(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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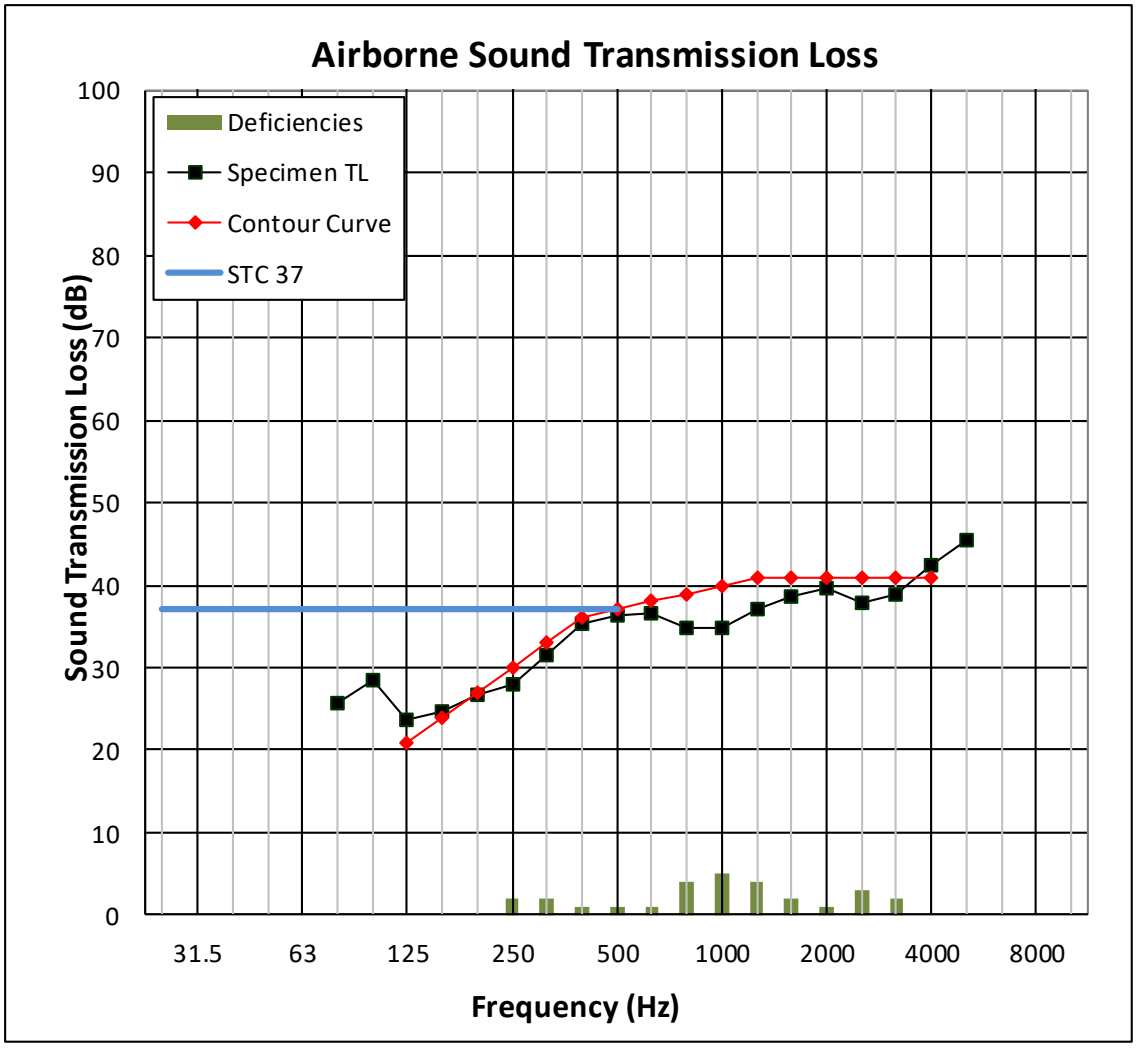
J7457.01C GRAPH



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J7457.01D DATA

SPECIMEN AREA	4.00 m²	**RECEIVE TEMP.**	22.1 °C	**SOURCE TEMP**	21.2 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	50%	**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	38.2	5.8	103	76	27	1.84	-
100	38.5	5.7	104	73	30	1.71	-
125	38.8	6.0	105	79	24	1.04	0
160	40.8	5.4	106	77	28	1.12	0
200	40.2	5.1	106	69	36	0.82	0
250	32.8	5.6	103	69	32	0.41	0
315	26.7	6.1	103	66	36	0.66	0
400	22.5	6.2	102	62	38	0.30	0
500	18.5	6.5	102	63	37	0.41	2
630	19.2	6.3	101	61	38	0.33	2
800	15.5	6.5	100	62	36	0.16	5
1000	11.6	6.7	101	63	36	0.55	6
1250	9.6	7.3	100	58	40	0.40	3
1600	8.9	7.6	99	56	40	0.34	3
2000	7.9	8.0	100	56	41	0.13	2
2500	7.6	9.0	101	54	43	0.14	0
3150	8.1	10.5	99	50	45	0.15	0
4000	8.8	12.9	97	47	45	0.19	0
5000	9.7	16.3	97	44	47	0.27	-
STC RATING	39	*(Sound Transmission Class)*					
DEFICIENCIES	23	*(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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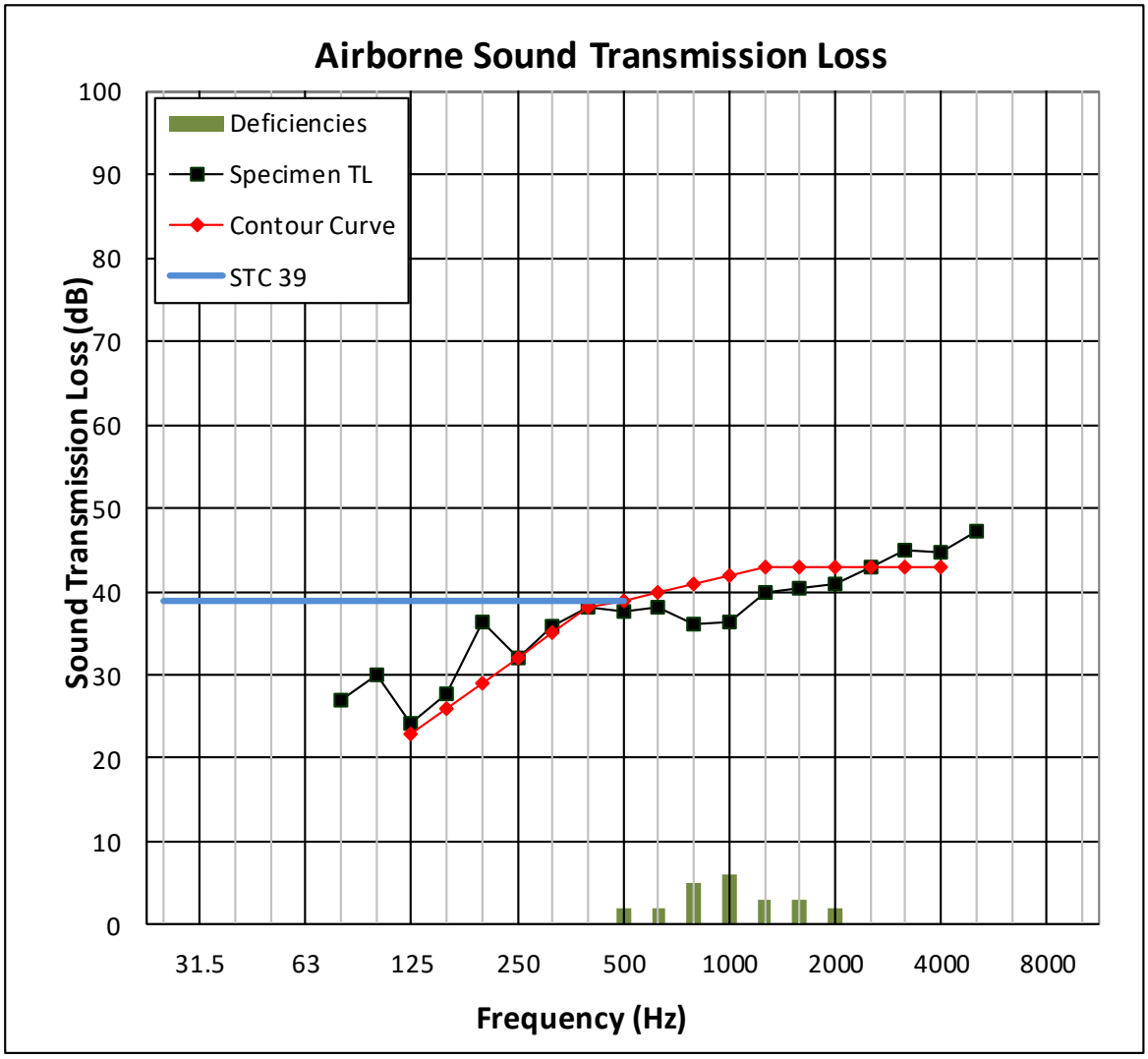
TEST REPORT FOR KOMMERLING USA INC.
Report No.: J7457.01-113-11-R0
Date: 08/22/19

J7457.01D GRAPH



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Date: 08/22/19

J7457.01E DATA

SPECIMEN AREA	4.00 m²	**RECEIVE TEMP.**	22.2 °C	**SOURCE TEMP**	20.9 °C
TECHNICIAN	Zachary Gol	**RECEIVE HUMIDITY**	48%	**SOURCE HUMIDIT**	49%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	38.8	5.4	103	77	26	1.71	-
100	35.7	6.2	104	78	24	2.06	-
125	38.7	6.3	105	82	21	0.87	0
160	39.7	5.9	107	81	24	0.88	0
200	39.1	5.4	106	89	15	0.89	8
250	32.1	5.8	103	79	22	0.38	4
315	25.6	6.0	103	76	25	0.58	4
400	22.0	6.3	102	72	28	0.39	4
500	17.8	6.6	102	68	31	0.49	2
630	19.1	6.4	101	64	35	0.34	0
800	15.7	6.6	100	63	35	0.19	0
1000	13.4	6.8	101	63	36	0.53	0
1250	15.0	7.3	100	58	39	0.40	0
1600	8.9	7.5	99	54	42	0.30	0
2000	8.1	8.0	100	56	41	0.16	0
2500	7.8	9.0	101	62	35	0.16	2
3150	8.3	10.6	99	59	35	0.18	2
4000	9.0	13.0	97	52	40	0.25	0
5000	11.6	16.7	97	46	45	0.21	-
STC RATING		33	*(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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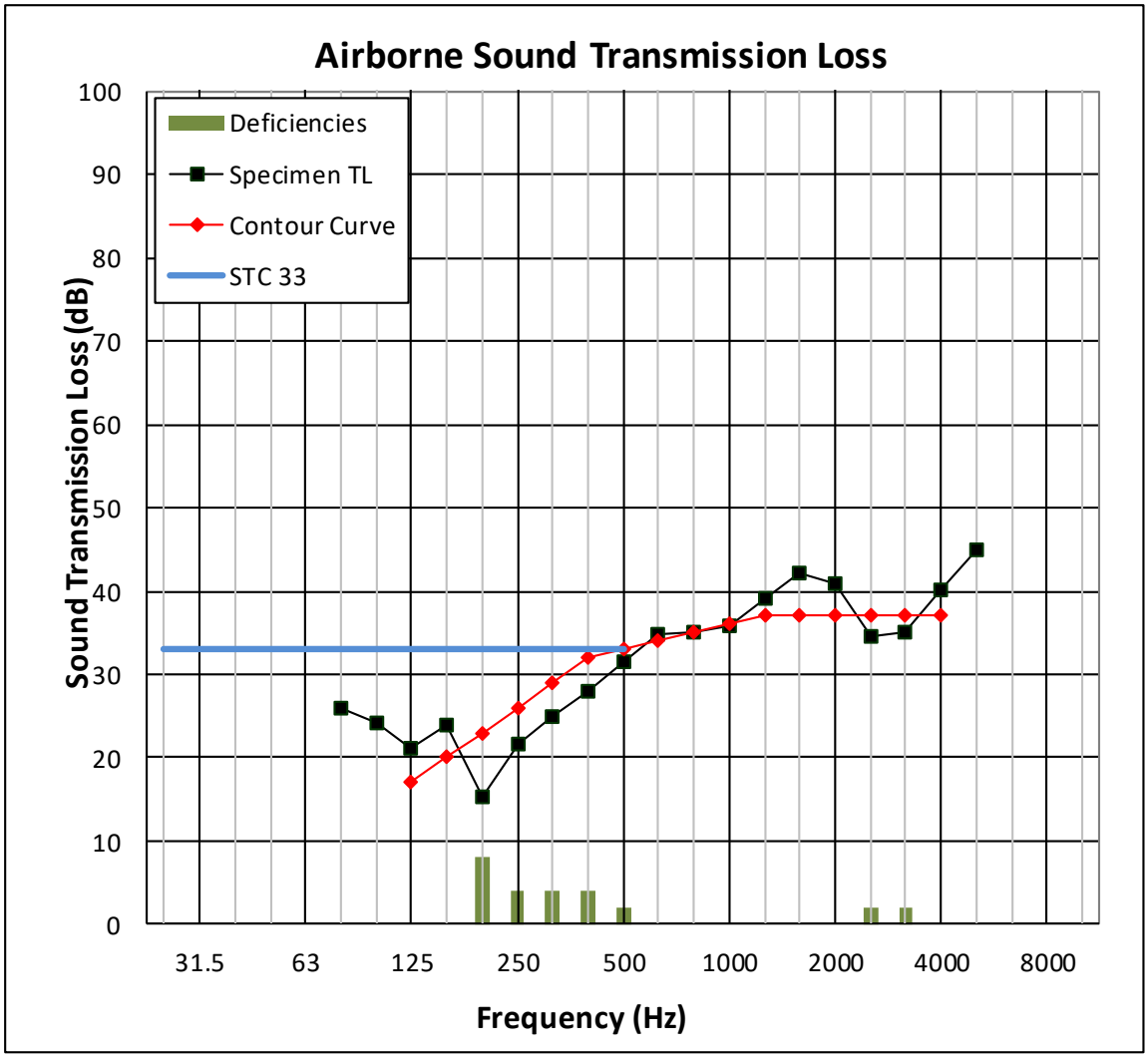
J7457.01E GRAPH



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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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Report No.: J7457.01-113-11-R0
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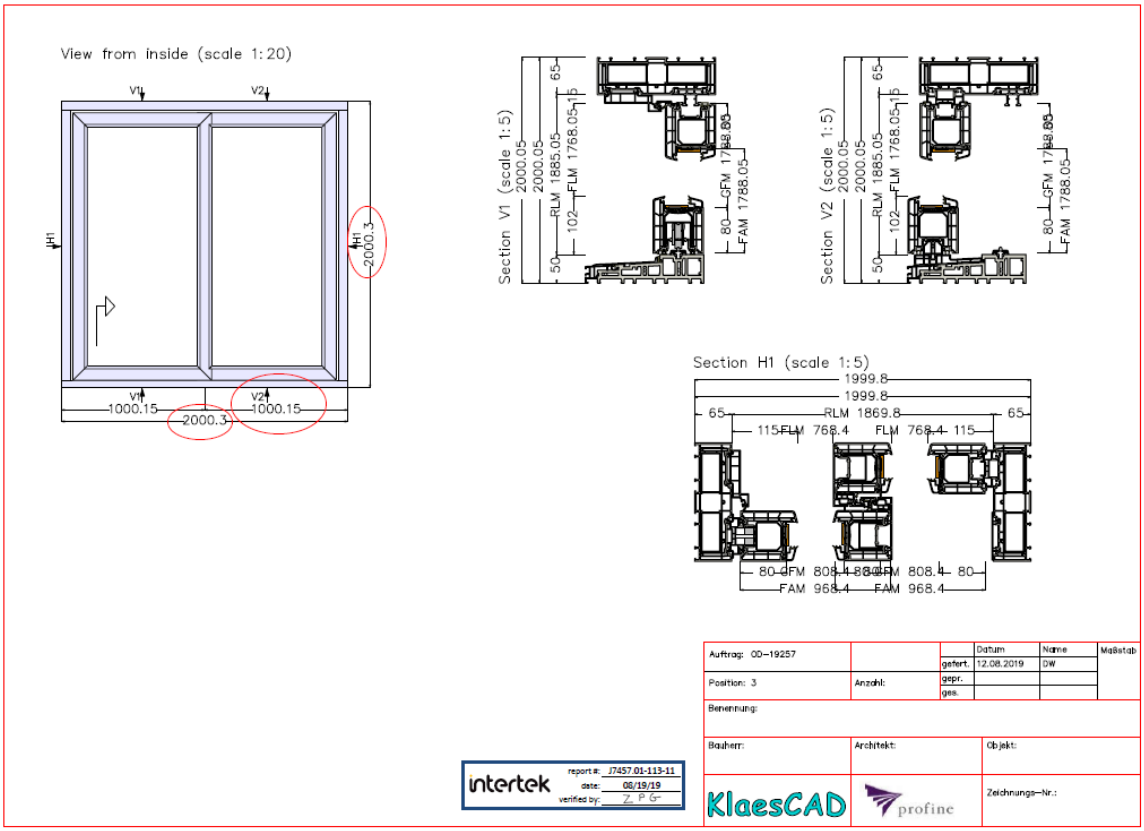
SECTION 12
DRAWING



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SECTION 13
REVISION LOG

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