

Spinnaker-Multimedia Solutions, Inc.

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Revision: 0

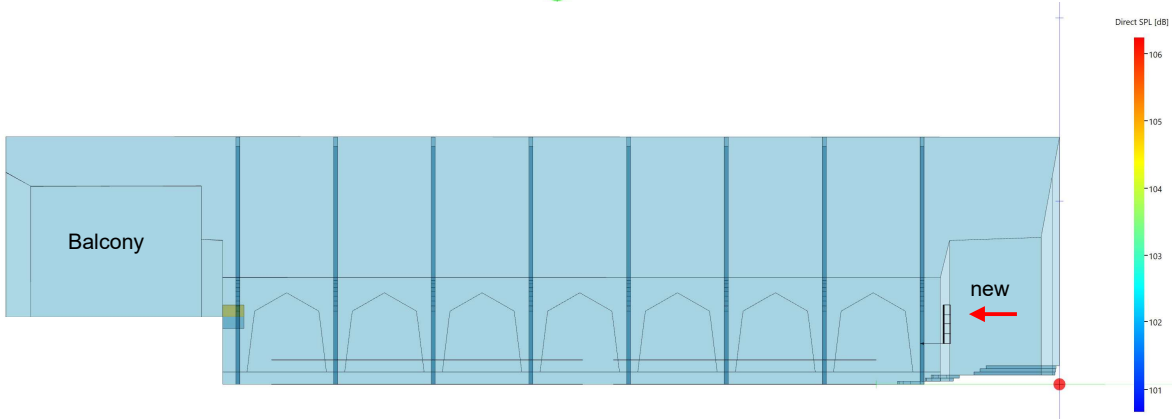
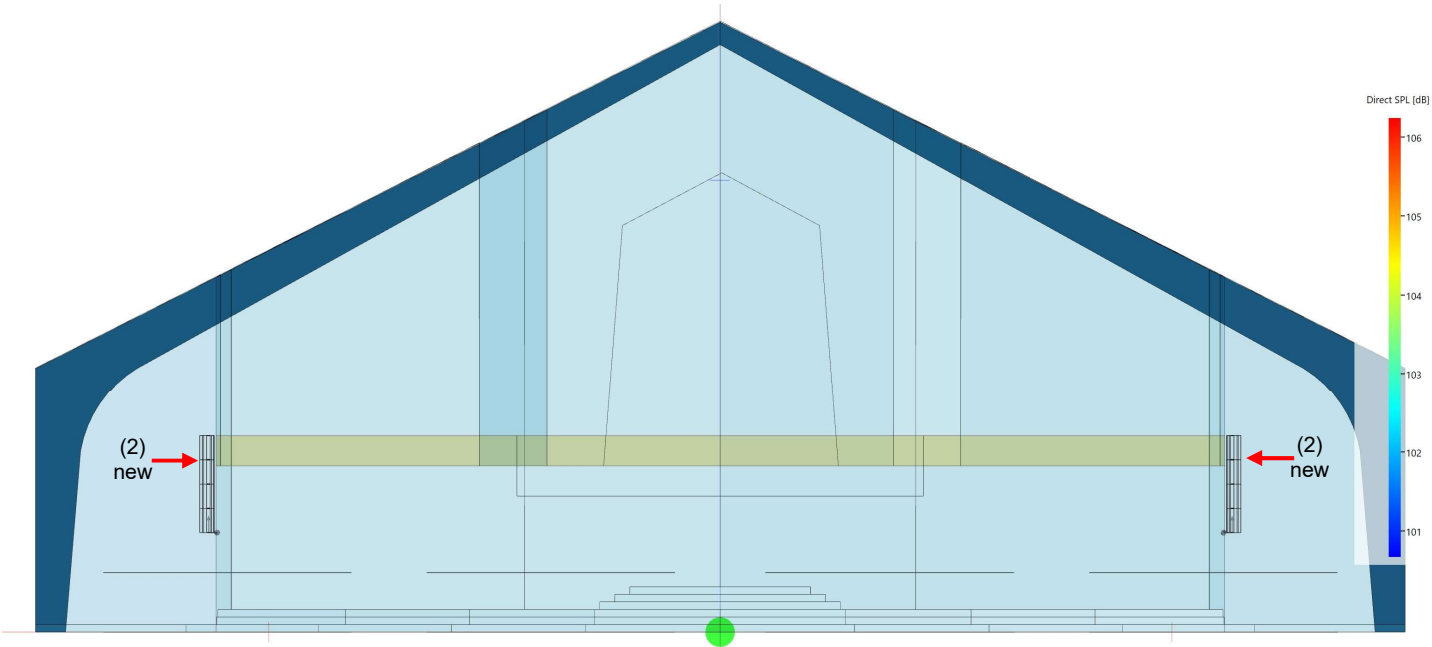
Project Name:

7428 Loudspeaker System

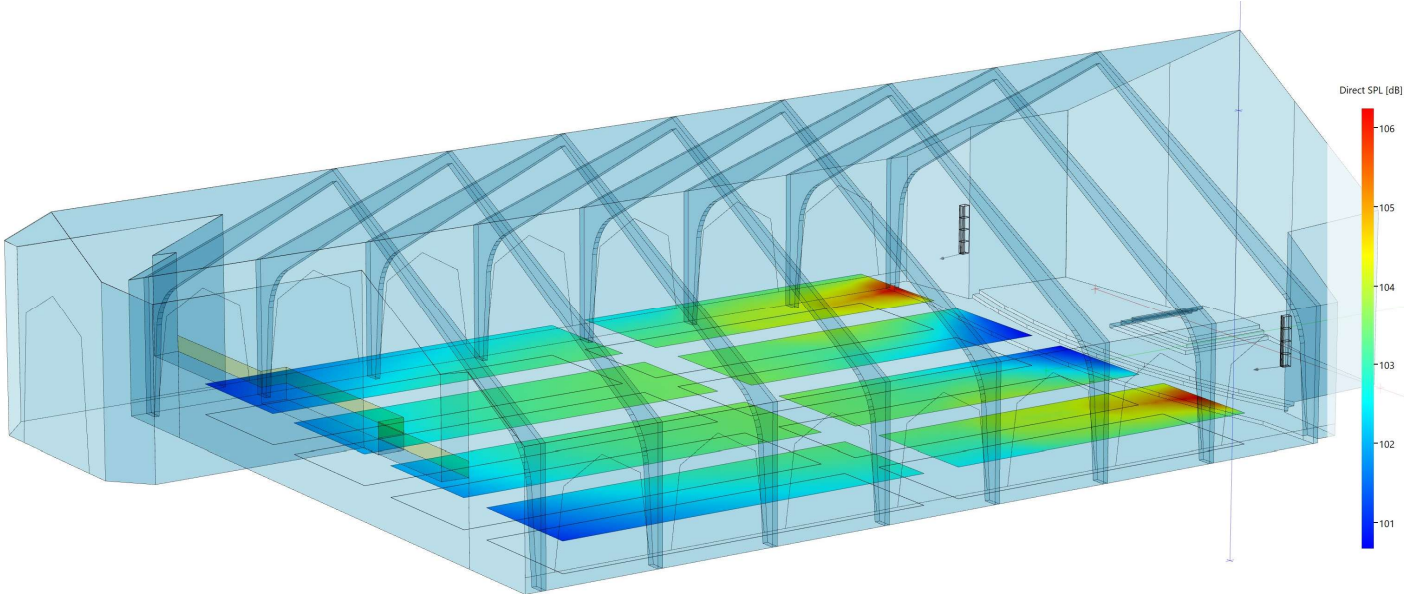
St. Stanislaus Roman Catholic Church
51 Lansdale Ave
Lansdale, PA 19446

- 1. Supply and Install (4) additional Renkus Heinz ICXL loudspeakers
 - a. Same location as existing (4) loudspeakers
 - b. (4) new grills for the existing loudspeakers
- 2. Supply and Install (2) new subwoofers, on the floor below the existing loudspeakers
- 3. Perform system RTA
- 4. Train staff and volunteers

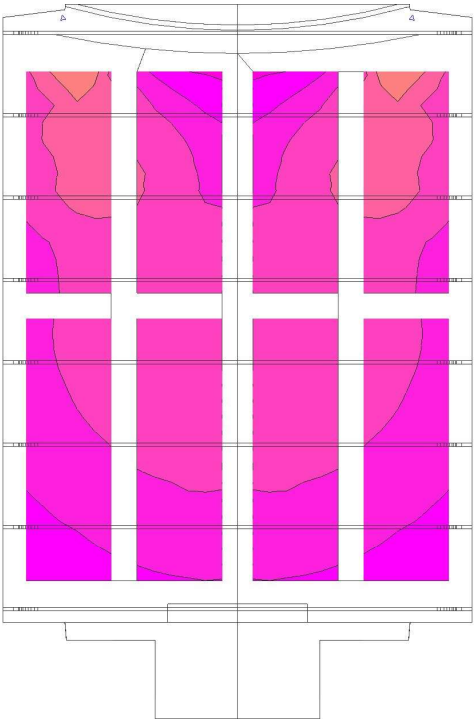
RH ICLX (4) Existing + (4) New - 3D View BBA - Recommended



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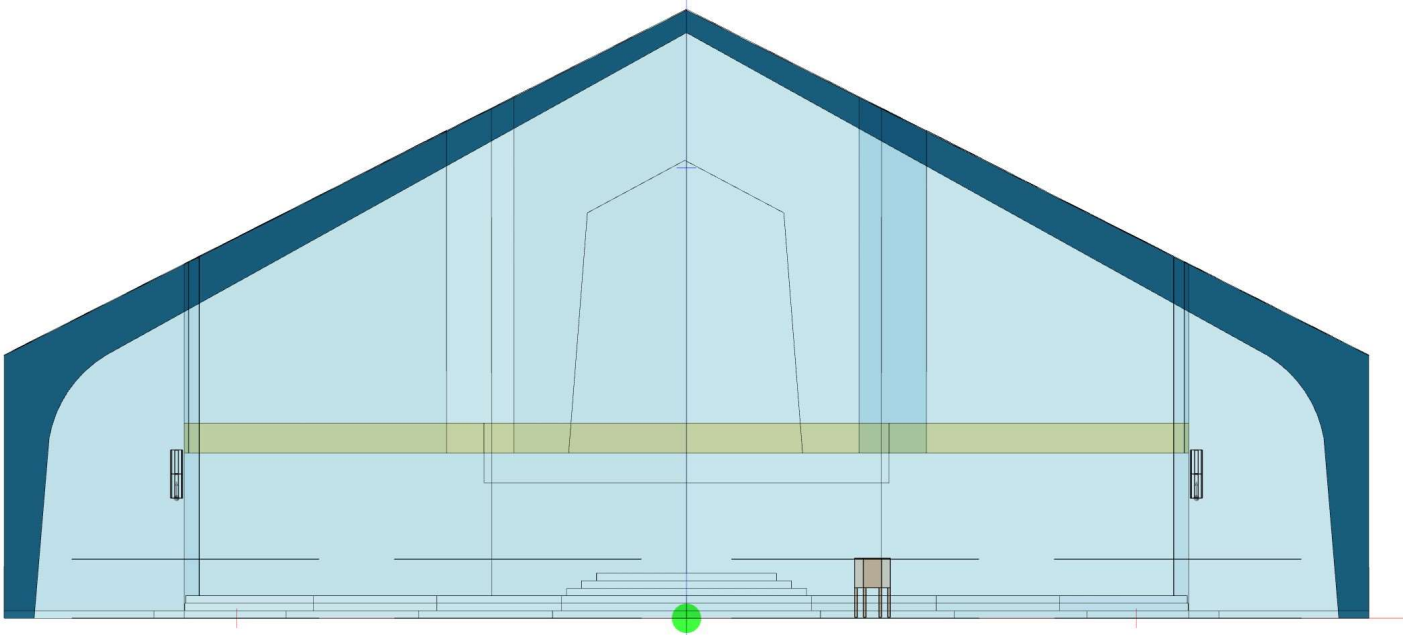
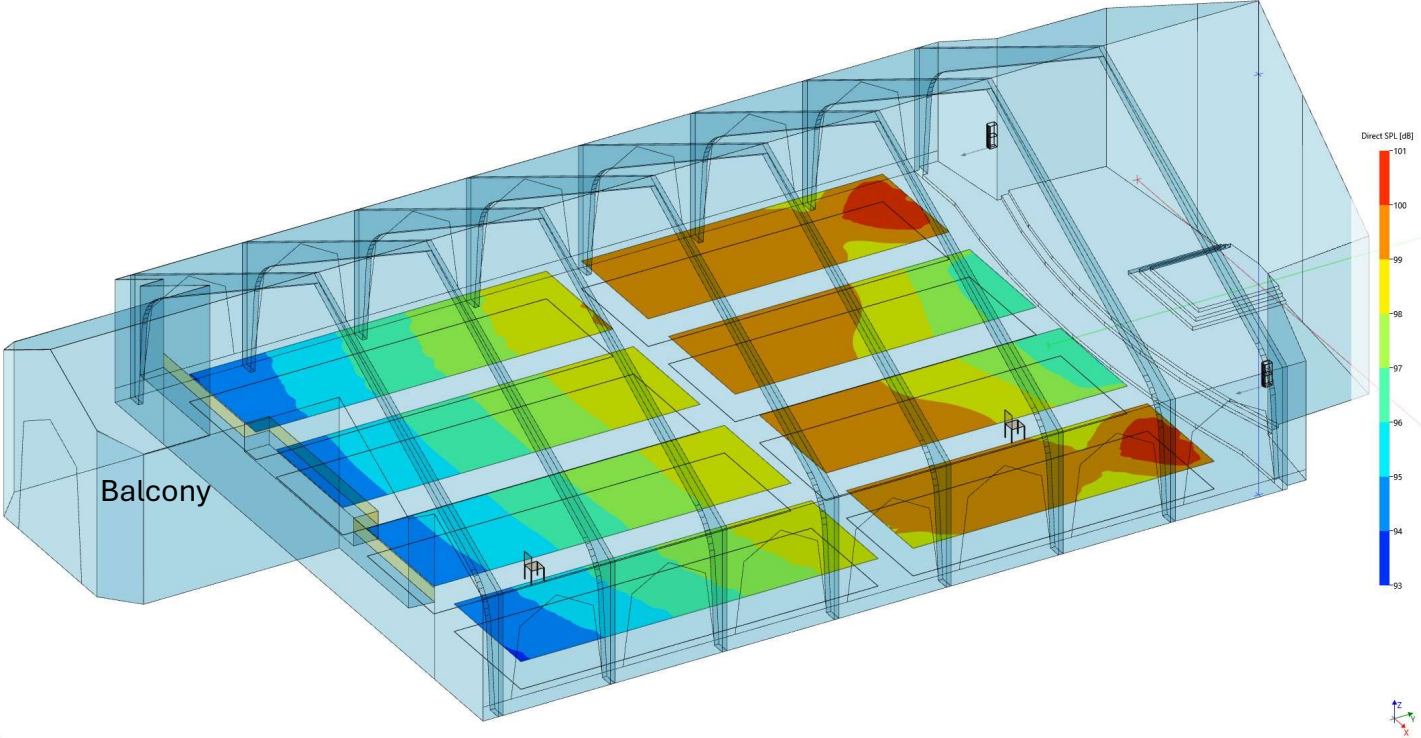
View: 3D, Hor: 180°
Look: Up: 1°, Left: 0°
Project: New Project
Map: Direct SPL (dB)
(Standard Mapping)
Shaded: On
Shadow Cast: Yes
Resolution: 3.00 ft



Acoustic models developed for different loudspeaker manufacturers, locations and quantities

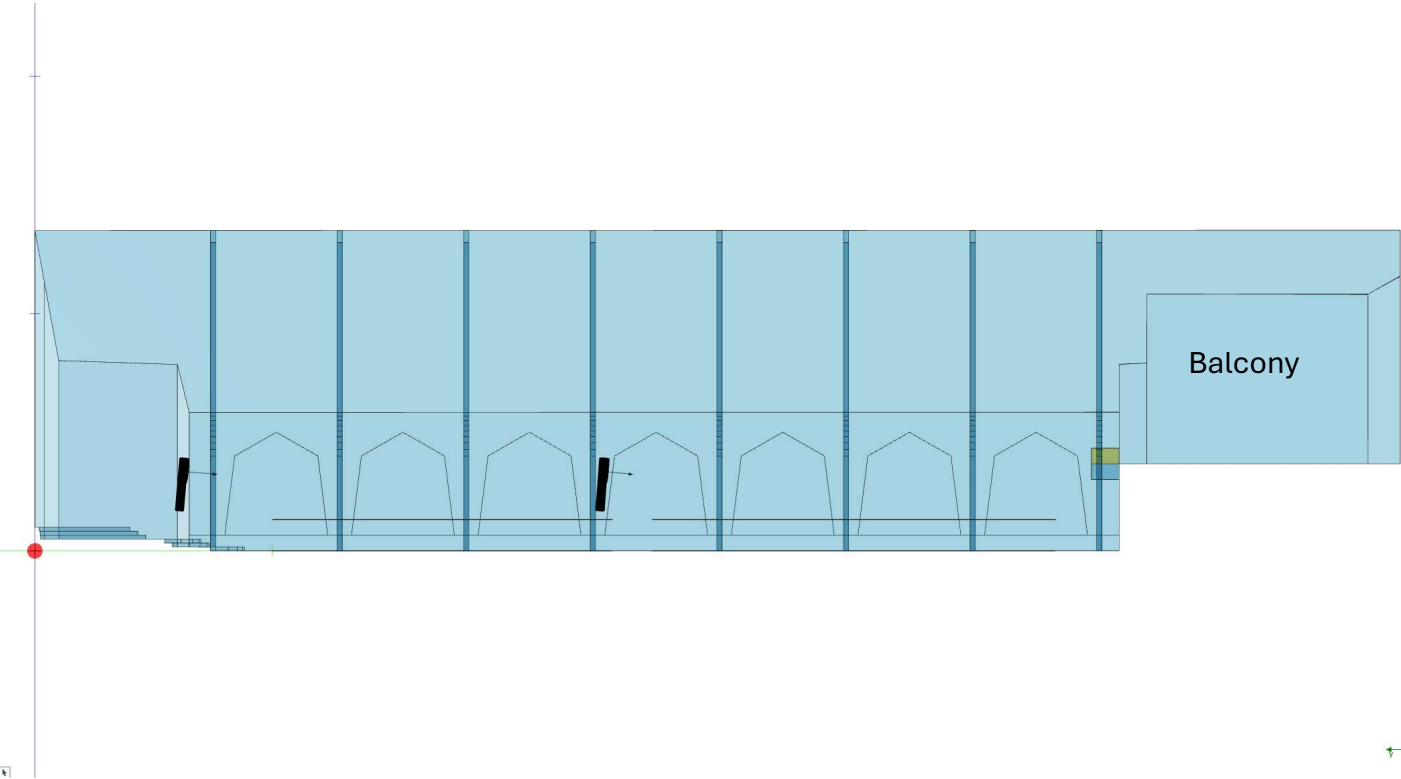
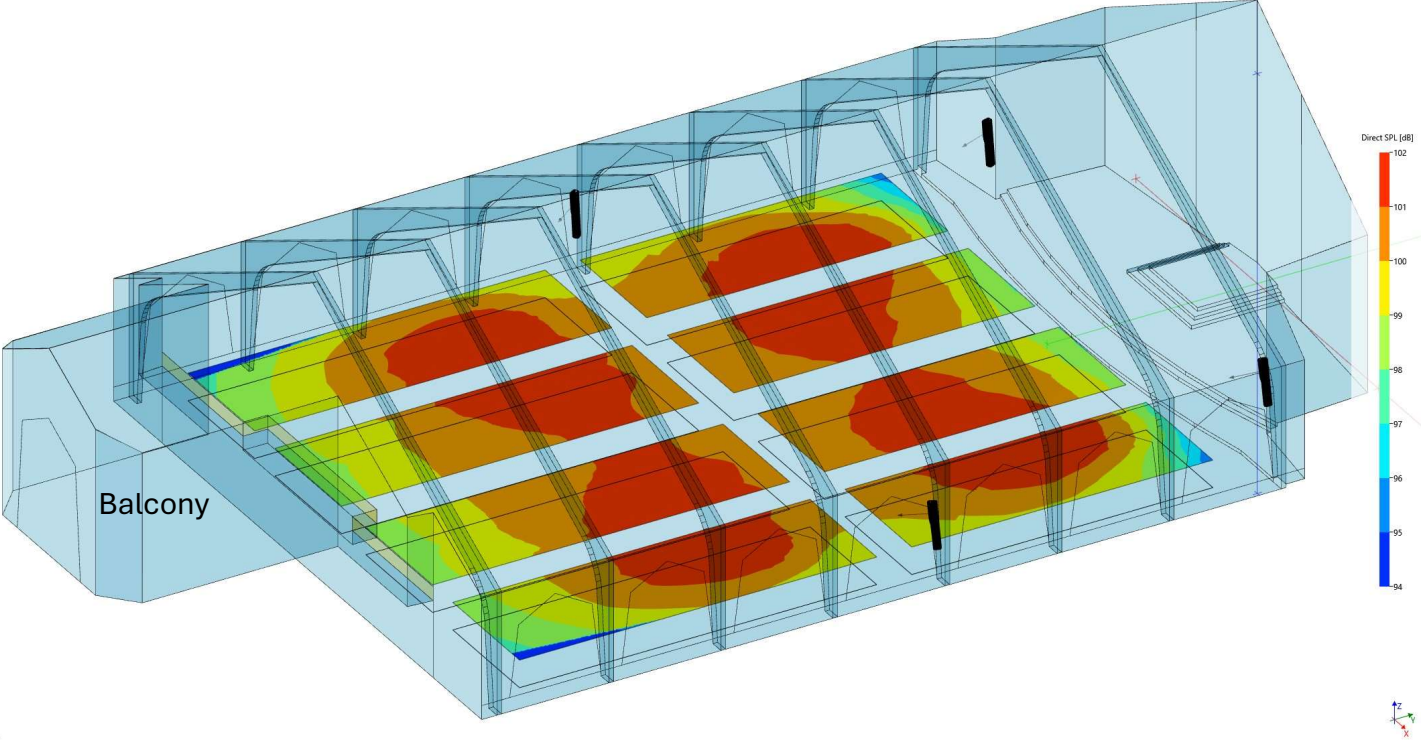
Renkus Heinz ICLX (4) Existing - 3D View Broadband

Direct SPL, Broadband (A-weighted), Interference: Off, Shadowing: On, Resolution: 0'-4", Lipks: 2/2, Areas: 8/8



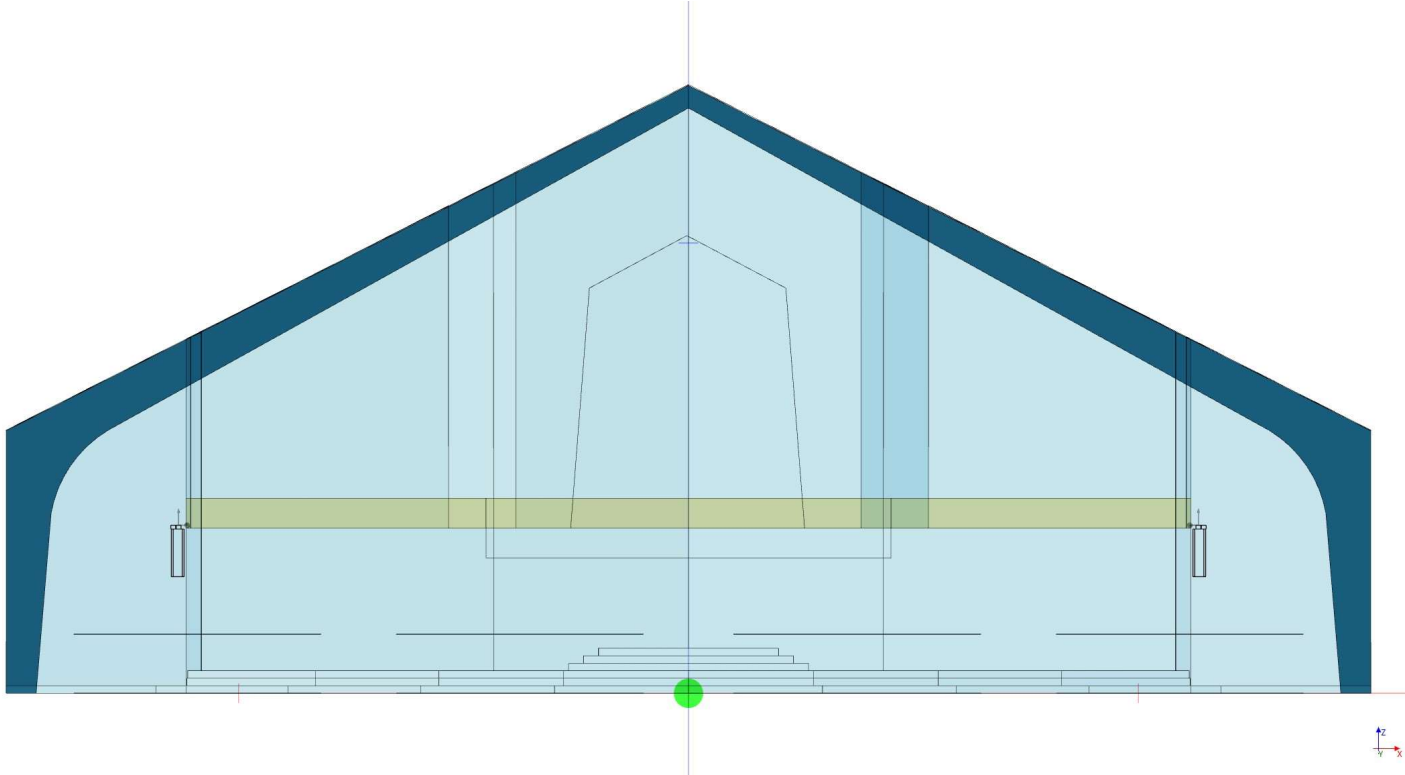
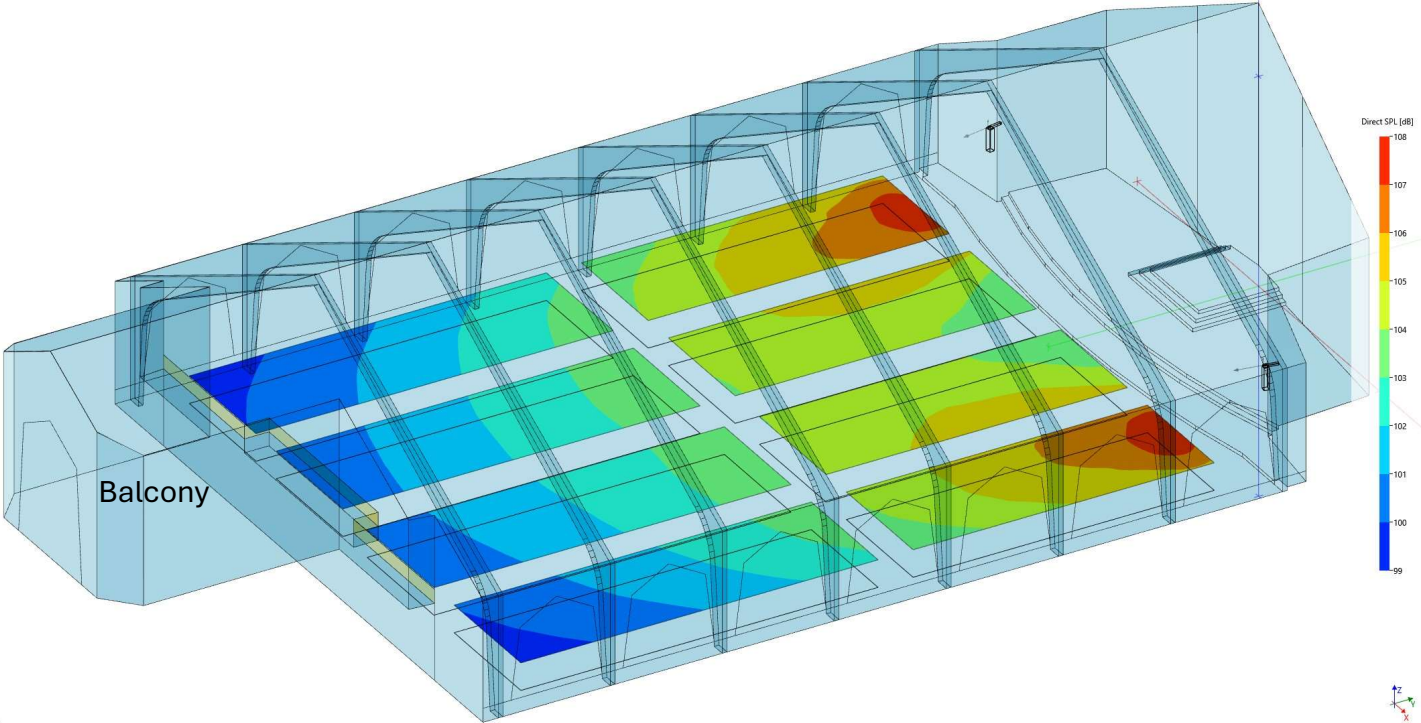
JBL CBT (8) - 3D View Broadband

Direct SPL, Broadband (A-weighted), Interference: Off, Shadowing: On, Resolution: 0'-4", Lspks: 4/4, Areas: 8/8



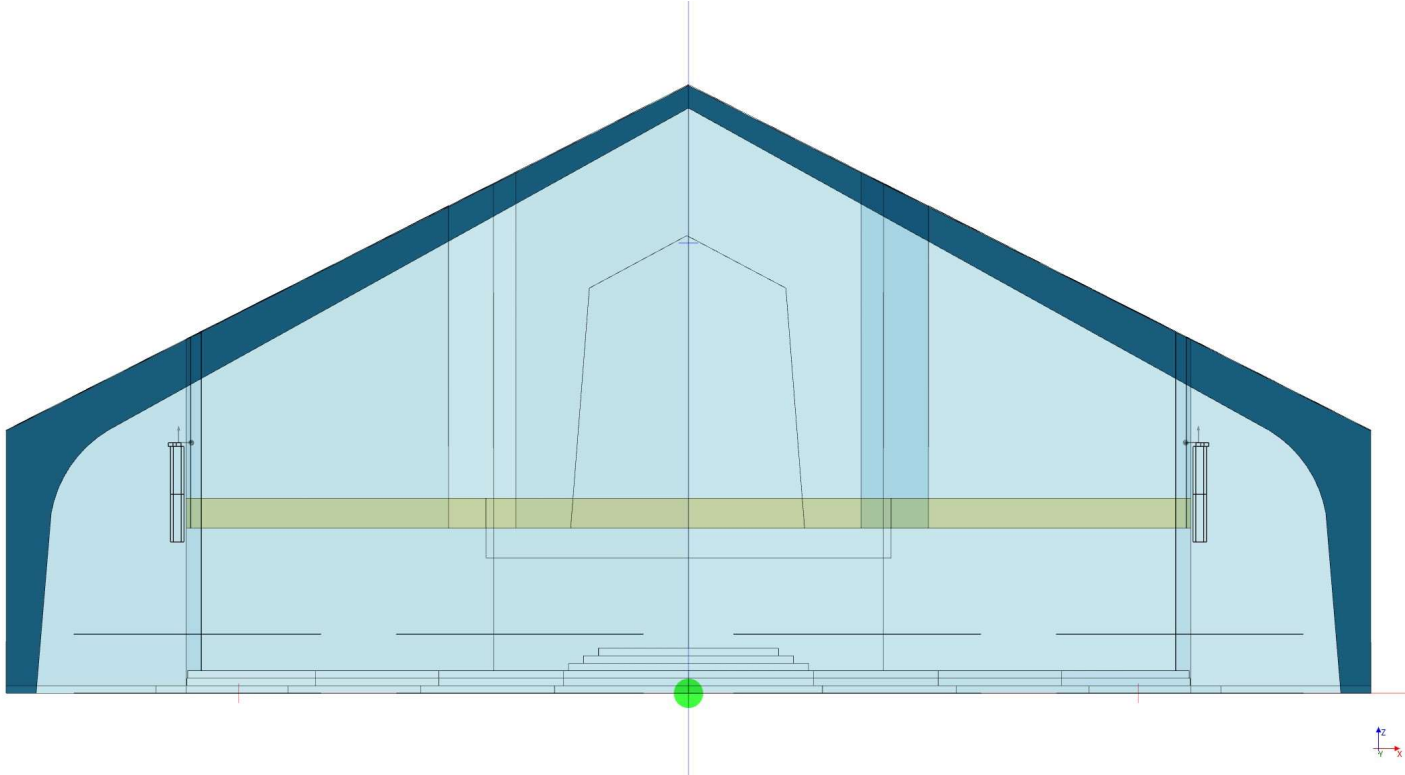
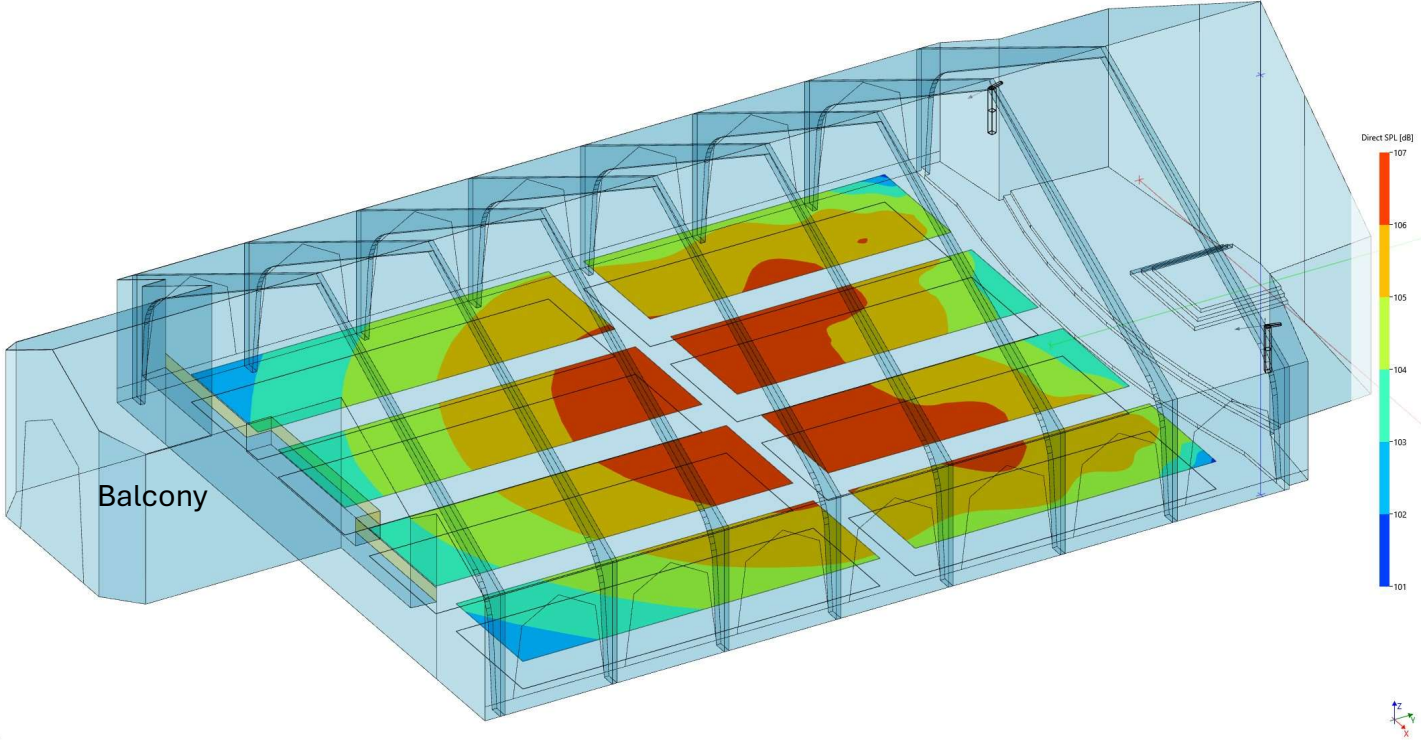
EAW AC6 (2) - 3D View Broadband

Direct SPL, Broadband (A-weighted), Interference: Off, Shadowing: On, Resolution: 0'-4", Lpks: 2/2, Areas: 8/8



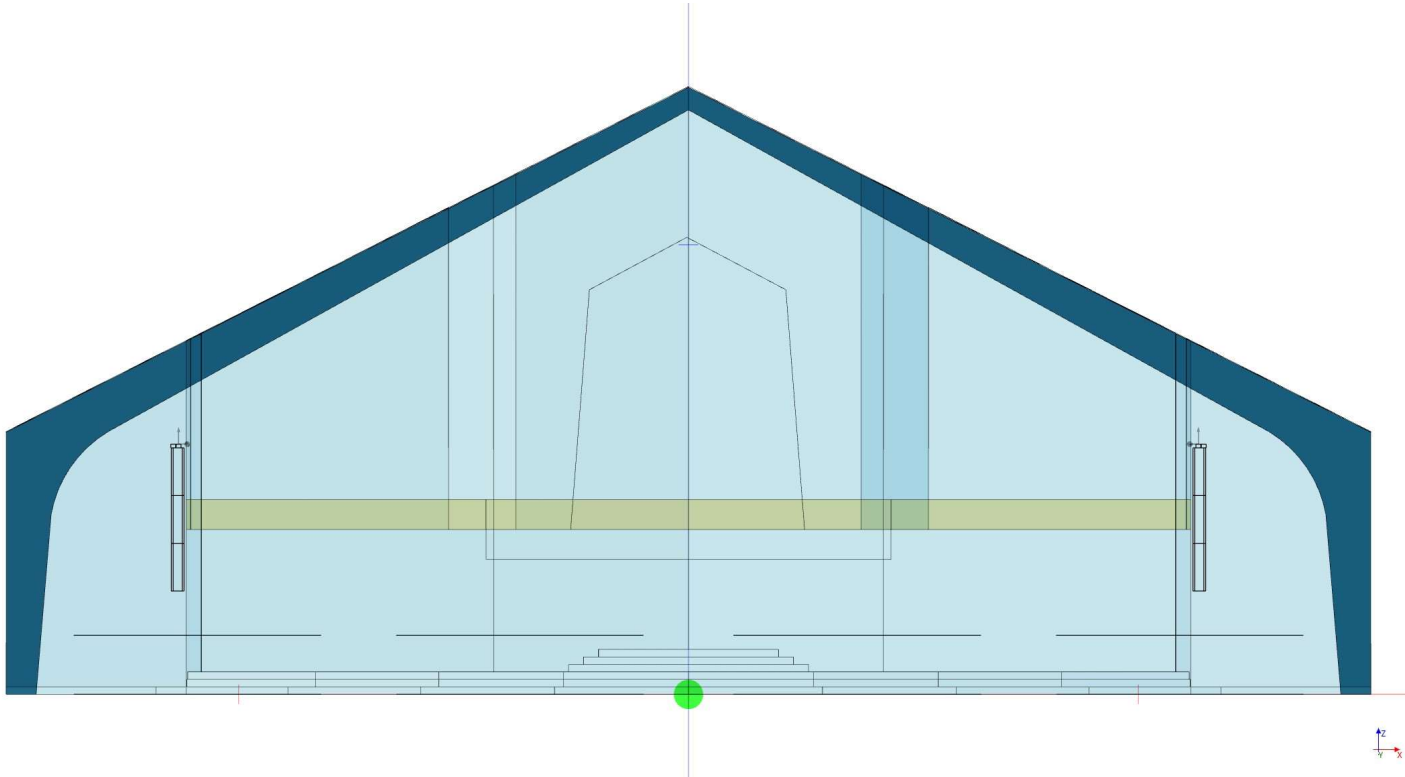
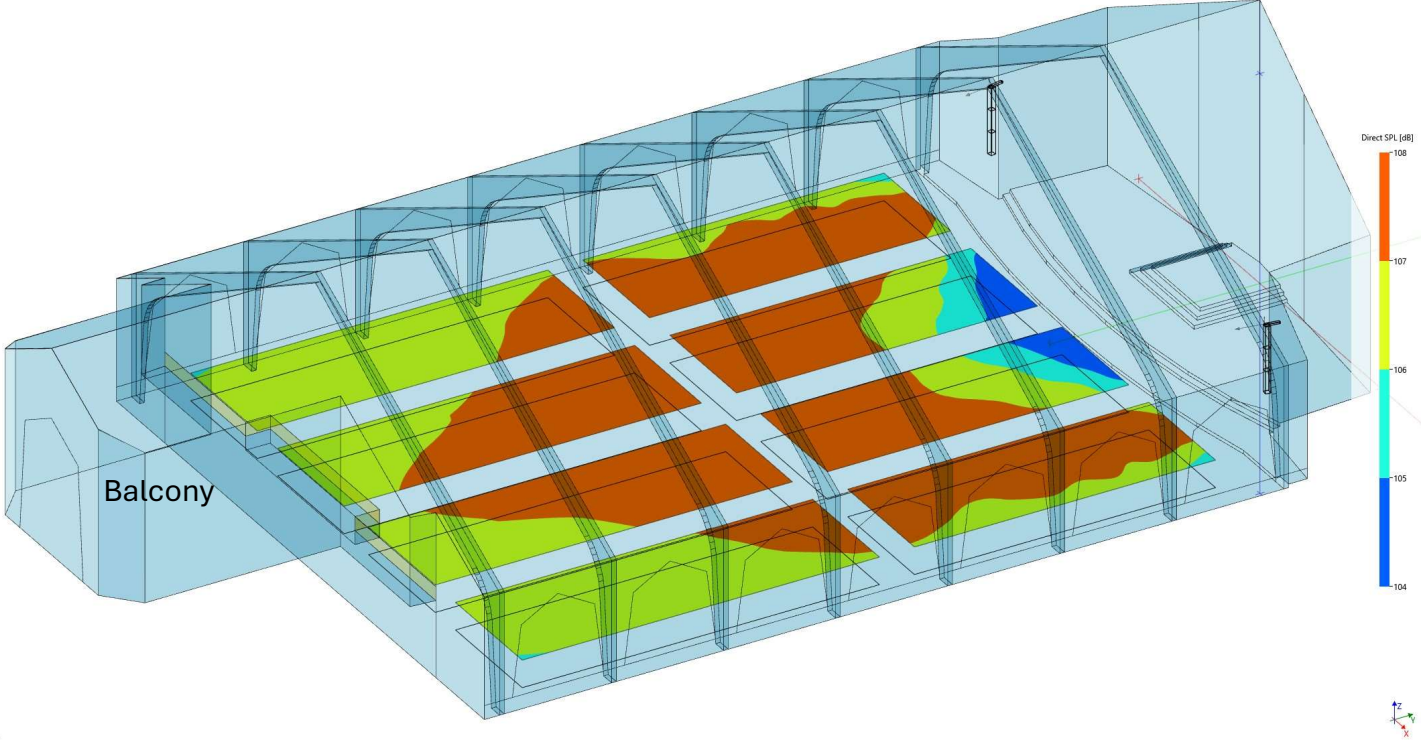
EAW AC6 (4) - 3D View Broadband

Direct SPL, Broadband (A-weighted), Interference: Off, Shadowing: On, Resolution: 0'-4", Lspks: 2/2, Areas: 8/8



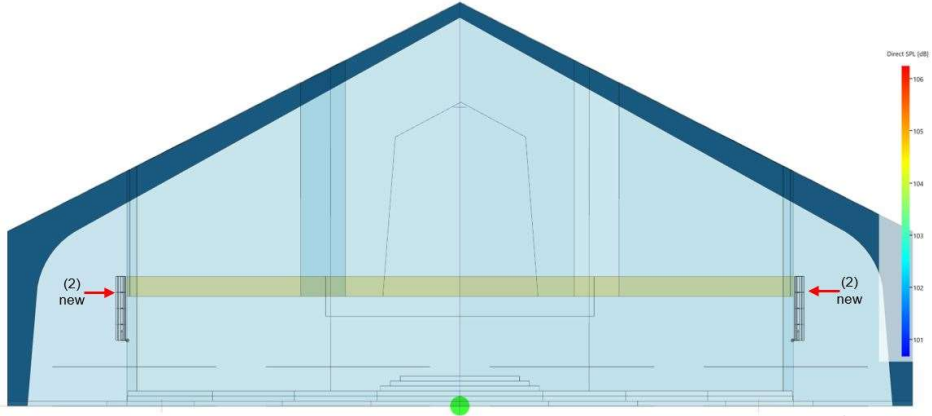
EAW AC6 (6) - 3D View Broadband

Direct SPL, Broadband (A-weighted), Interference: Off, Shadowing: On, Resolution: 0'-4", Lspks: 2/2, Areas: 8/8



Loudspeakers comparative analysis

	RH Existing ICLX (4)		Recommended RH ICLX (8) \$26,411.40		RH ICLX (6) w/ LF \$14,154		EAW AC6 (2) \$ 23,034.00		EAW AC6 (4) \$46,067.00		EAW AC6 (6) \$69,101.00		JBL CBT \$27,018	
	Total	FLT > -2%	Total	FLT > -2%	Total	FLT > -2%	Total	FLT > -2%	Total	FLT > -2%	Total	FLT > -2%	Total	FLT > -2%
Octave Band Span (dB)														
1K	12	9.5	10	6.5	11	5.5	9	7	8	5	6.5	3	10	5
Area Covered @ 3dB (%)	33.62	%	48.38	%	46.24	%	45.03	%	71.1	%	91.67	%	81.2	%
Area Covered @ 5dB (%)	47.33	%	64.79	%	64.52	%	59.01	%	89.78	%	97.32	%	95.99	%
Area Covered @ 6dB (%)	54.05	%	71.11	%	73.39	%	65.33	%	96.5	%	98.13	%	98.15	%
2K	11	9	7.5	4.5	10	6.5	14	4	14	5.5	18	4.5	10	5
Area Covered @ 3dB (%)	41.14	%	74.74	%	64.79	%	61.82	%	67.62	%	79.71	%	81.17	%
Area Covered @ 5dB (%)	50.55	%	88.72	%	82.26	%	77.01	%	86.58	%	87.5	%	93.26	%
Area Covered @ 6dB (%)	54.05	%	95.17	%	88.72	%	81.45	%	89.67	%	88.58	%	95.68	%
4K	11	6.5	8	3.5	16	5.5	6	3	5	2	9	3.5	12	4
Area Covered @ 3dB (%)	60.48	%	89.79	%	66.4	%	85.48	%	99.19	%	92.73	%	70.69	%
Area Covered @ 5dB (%)	81.18	%	96.52	%	85.49	%	95.16	%	99.59	%	96.76	%	86.55	%
Area Covered @ 6dB (%)	88.17	%	97.86	%	92.21	%	96.64	%	99.86	%	97.84	%	90.04	%
8K	10	6	18	4.5	16	7	8	4	9	3	9	5	16	4
Area Covered @ 3dB (%)	63.58	%	78.23	%	52.7	%	62.24	%	94.62	%	71.36	%	58.59	%
Area Covered @ 5dB (%)	83.48	%	94.36	%	74.75	%	84.82	%	98.38	%	92.87	%	73.64	%
Area Covered @ 6dB (%)	90.2	%	96.78	%	80.13	%	94.63	%	99.19	%	98.92	%	79.82	%
Average Octave Band Span (dB)	11	7.75	10.875	4.75	13.25	6.125	9.25	4.5	9	3.875	10.625	4	12	4.5
Broadband Average SPL dB(A)														
Total	8	6.5	5.5	3	6.5	5	9	6.5	5.5	4	4.5	2	8	4
Area Covered @ 3dB (%)	47.99	%	93.01	%	82.53	%	51.6	%	72.99	%	97.17	%	83.87	%
Area Covered @ 5dB (%)	63.58	%	99.73	%	94.9	%	68.54	%	91.54	%	99.86	%	93.82	%
Area Covered @ 6dB (%)	68.96	%	100	%	98.93	%	77.15	%	97.05	%	99.99	%	96.24	%
Alcons (AVG) (%) (Lower = Best)	7.82		7.08		7.77		7.93		7.74		8.13		8.37	
STI (AVG) (Higher = Best)	0.571		0.588		0.571		0.567		0.572		0.562		0.559	
Max SPL	105.31		109.52		104.79		0		112.1		115.1		0	



Qty Description

Front Wall

4	RENKUS HEINZ HK-ICLX - LOUDSPEAKER BRACKET Hinge kit (pair) for ICL-X/XL/LX. Black "B" or White "W". Note: Because of close-to-wall fit, will only work with INSTALL versions (not XLR)	\$1,238.44
2	RENKUS HEINZ ICLX-118S-RD-BK-WR - SUBWOOFER WR-Compact, High Output LF/SUB Array Module w/RHAON & Dante, Black, SA2000-RD amplifier	\$11,453.40
4	RENKUS HEINZ ICLX-RD-BK - LOUDSPEAKER Compact, High Output Steerable Array Module w/RHAON & Dante, Black	\$26,411.40
4	RENKUS HEINZ grill for OFE speakers Compact, High Output Steerable Array Module w/RHAON & Dante, Black	\$1,000.00

Front Wall Total \$40,103.24

Project Summary

Equipment	\$40,103.24
Installation, Configuration, Setup and Warranty Labor	\$4,157.80
Manu. Shipping Charges (Estimated)	\$995.00
Misc. Parts and Connectors	\$495.00

Project Total: \$45,751.04

Manufacturer Prices - Inventory is volatile. Prices guaranteed 7 days
Equipment – cost over \$1,000 must be pre-paid

Warranty and Other:

- Spinnaker warranty period** - guaranteed for one (1) year.
 - 24/7 Telephone support - Lifetime
 - 24/7 Internet remote support – Lifetime - requires Splashtop subscription for each computer after 1 year
 - Onsite support within 24 hours
- Manufacturer’s warranty period** – varies, Spinnaker’s warranty does not extend it.
- OFE** - Owner Furnished Equipment is not covered under Spinnaker’s warranty.
- Electrical** - power and service is NOT included unless stated in this proposal.
- Mounting/Rigging estimates** – Some components require clearances or attachments that cannot be determined prior to installation. If the mounting condition is unknown or concealed, additional parts and labor may be required, and reviewed with the Owner for approval.
- Potential noise/vibration interference** – any unwanted interference to the AVL system from electrical, mechanical, or other building systems is not covered under Spinnaker’s warranty. Remedy and additional cost to be reviewed with Owner.
- Painting and patching** - to be performed by the Owner at the Owner expense.
- Trash** - Disposal containers for trash generated during AVL installation to be provided by the Owner. A \$50 fee will be applied to the final invoice if containers are not available.

Approved by:

Name Date