

Velodroom (Heusden-zolder)

Akoestische simulatie EASE4.4 (06/04/2022)



Projectbeschrijving:

De gebruikte 3D tekening is uitgewerkt a.d.h.v. van de aangeleverde DWG files.

In het project zijn voor deze toepassing, gebruik gemaakt van passieve VEXO115/B luidsprekers. Het vermogen wordt voorzien door negen SMQ1250 versterkers.

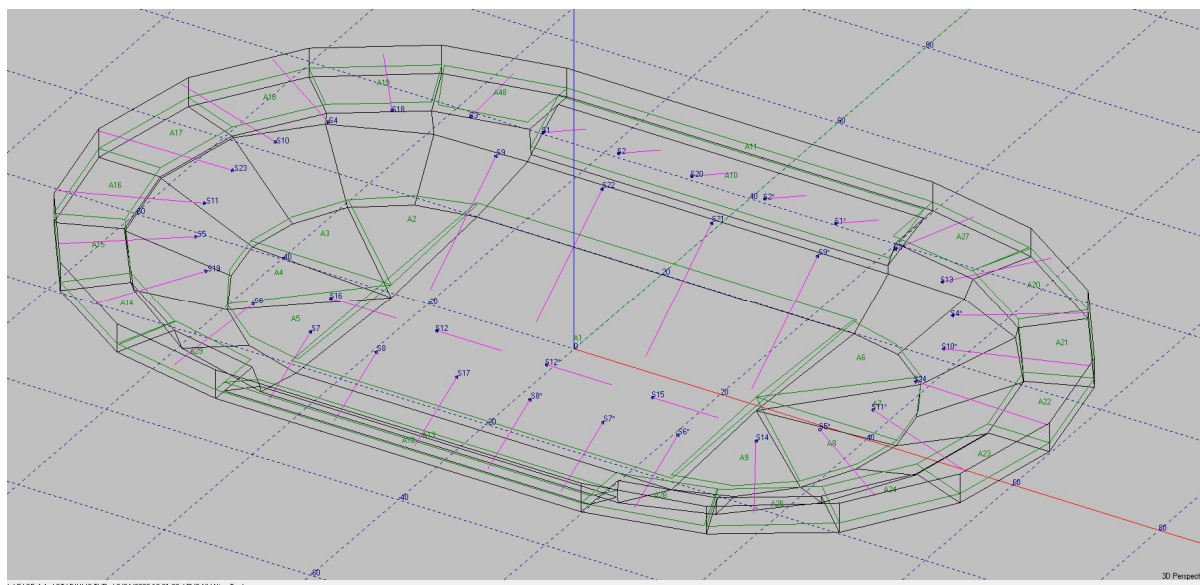
In de simulatie zijn in totaal 36 luidsprekers van het type VEXO115/B ingetekend. Waarvan 8 luidsprekers het middenplein van de velodroom aanstralen, 26 luidsprekers zijn verdeeld over de tribunes en rondom de piste.

Referentie DWG files:

-  1334_N02_150_- Snede AA
-  1334_N02_151_- Snede BB
-  HGOL05_WIELERDROOM_00 Gelijkvloers
-  HGOL05_WIELERDROOM_10 Verdieping
-  HGOL05_WIELERDROOM_20 Verdieping

Luidsprekers:

AUDAC VEXO115



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SPLD Direct Sound pressure Level:

SPLD (dB)	Broad Band	Broad Band(A)	250Hz (3 Oct)	1000Hz(3 Oct)	4000Hz(3 Oct)
Max.	108,35	105,32	99,75	103,82	101,62
Min.	100,86	94,52	91,78	92,28	86,24
Std Dev	1,18	2,24	1,33	2,25	3,69
Average	104,40	99,50	95,61	97,87	93,93

SPLT Total Sound pressure Level

SPLT (dB)	Broad Band	Broad Band(A)	250Hz (3 Oct)	1000Hz(3 Oct)	4000Hz(3 Oct)
Max.	111,97	107,20	102,19	105,45	102,80
Min.	110,26	103,33	99,89	101,15	98,43
Std Dev	,26	,73	,40	,79	,99
Average	110,75	104,48	100,67	102,44	99,83.

STI-M

STI-M	Broad band
Max	0,753
Min	0,563
Std Dev	0,041
Average	0,632

STI-M + Noise

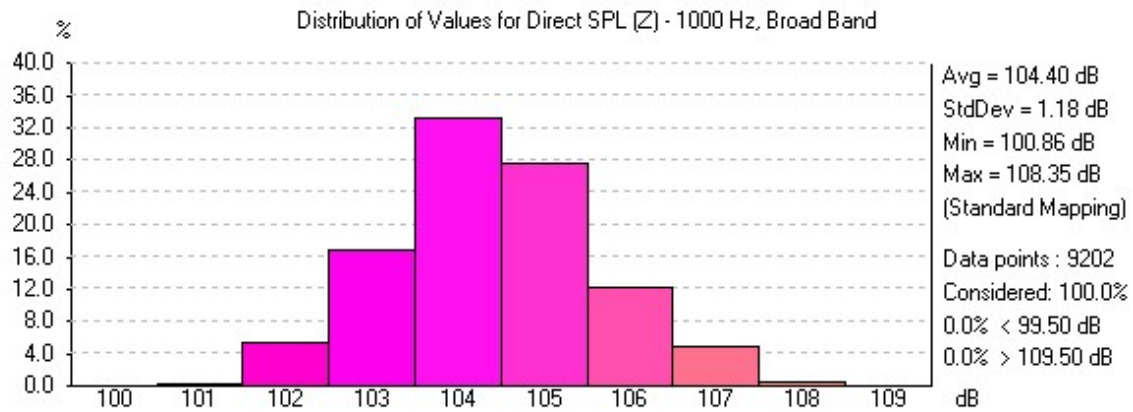
STI-M + Noise (80dB)	Broad band
Max	0,713
Min	0,511
Std Dev	0,043
Average	0,583

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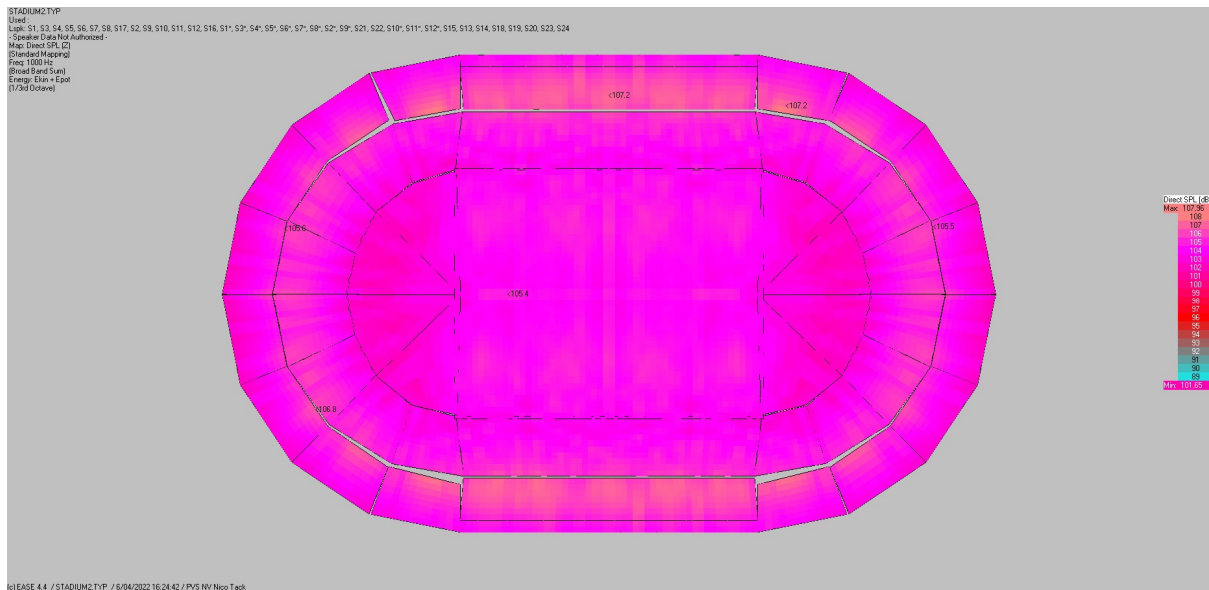
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Direct SPL

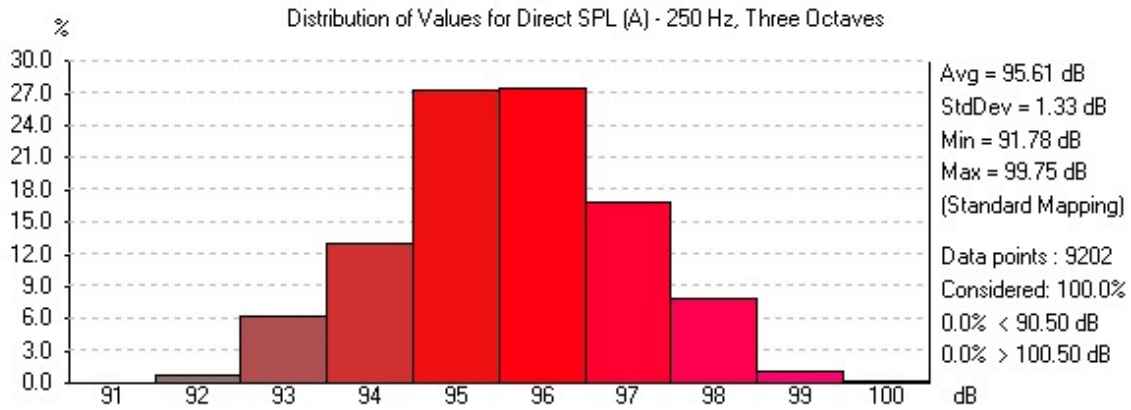


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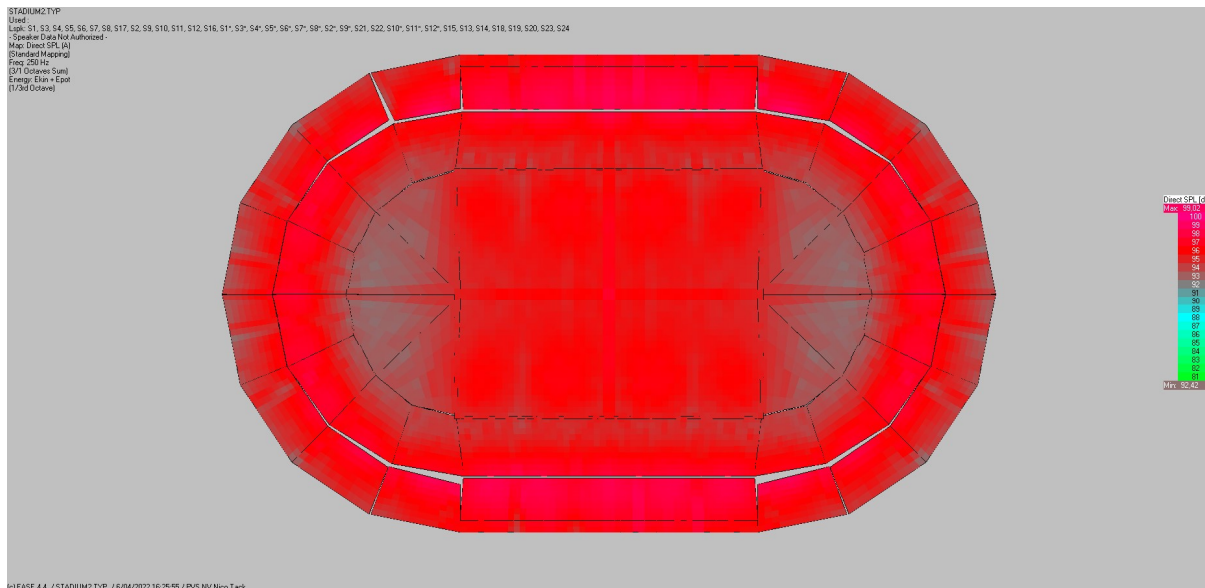


Velodroom (Heusden-zolder)

Akoestische simulatie EASE4.4 (06/04/2022)

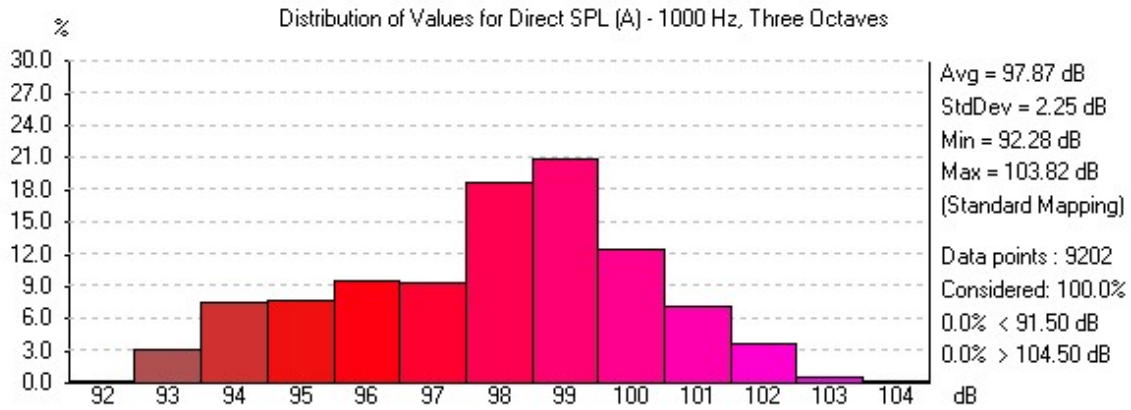


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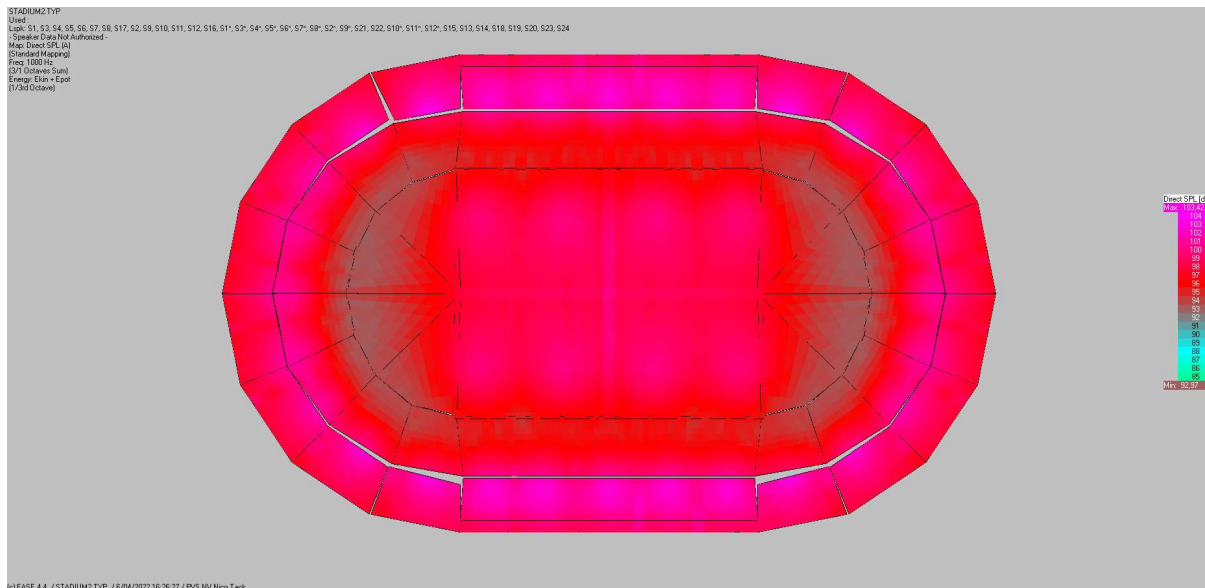


Velodroom (Heusden-zolder)

Akoestische simulatie EASE4.4 (06/04/2022)

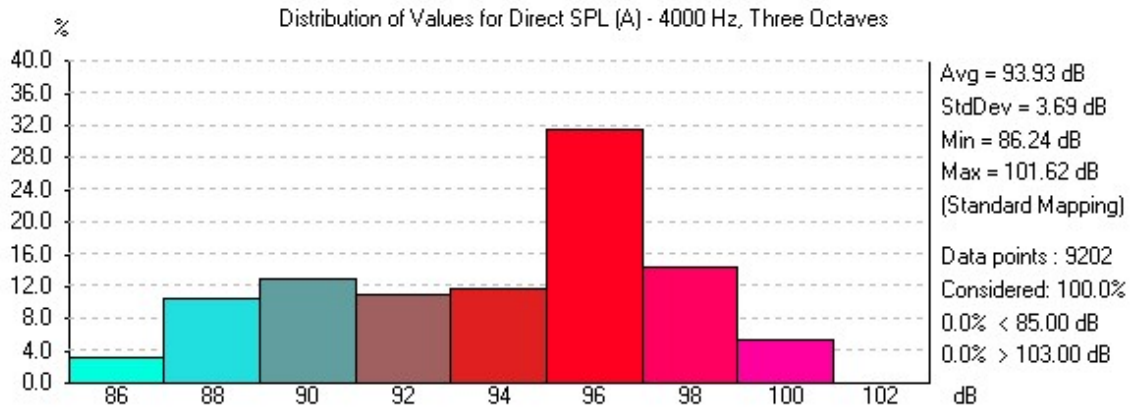


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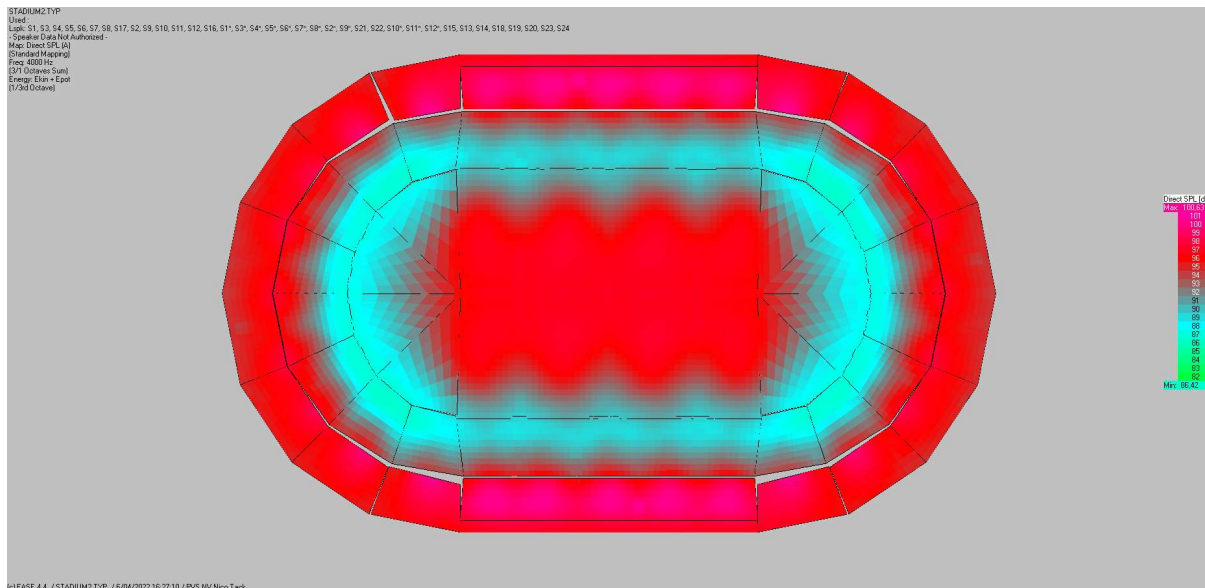


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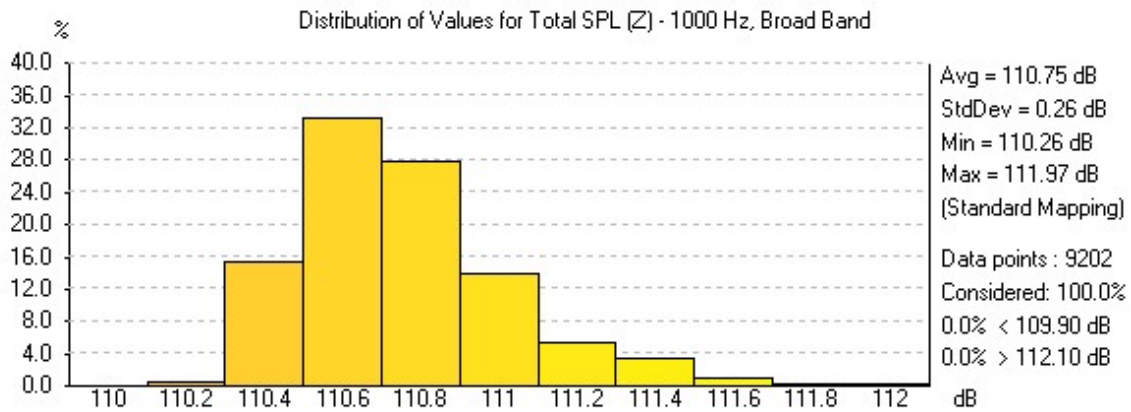


Velodroom (Heusden-zolder)

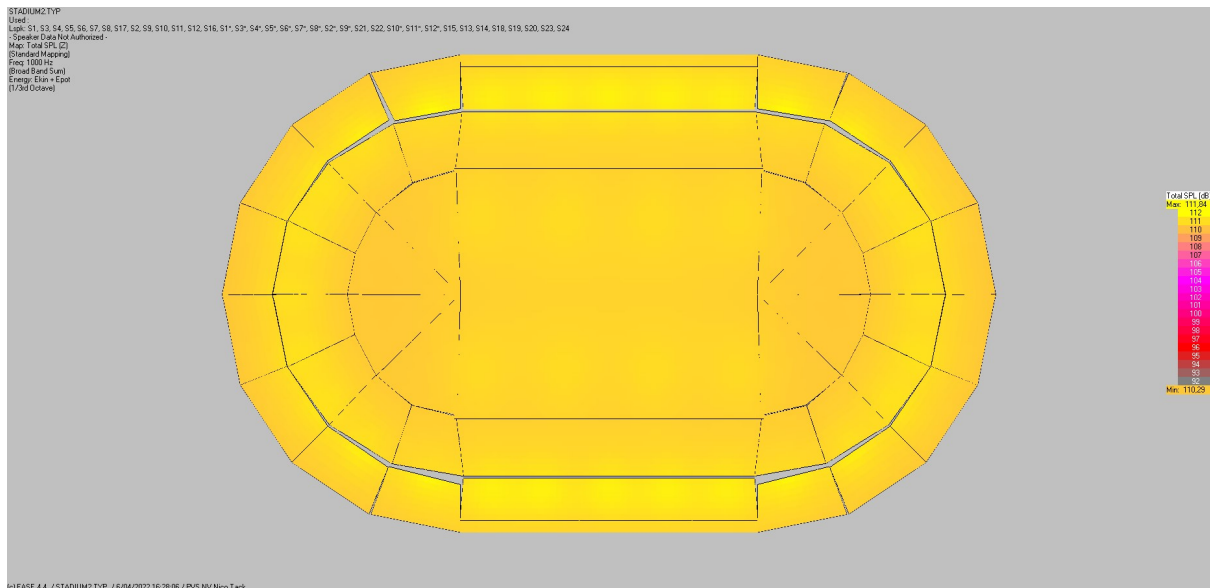
Akoestische simulatie EASE4.4 (06/04/2022)



Total SPL

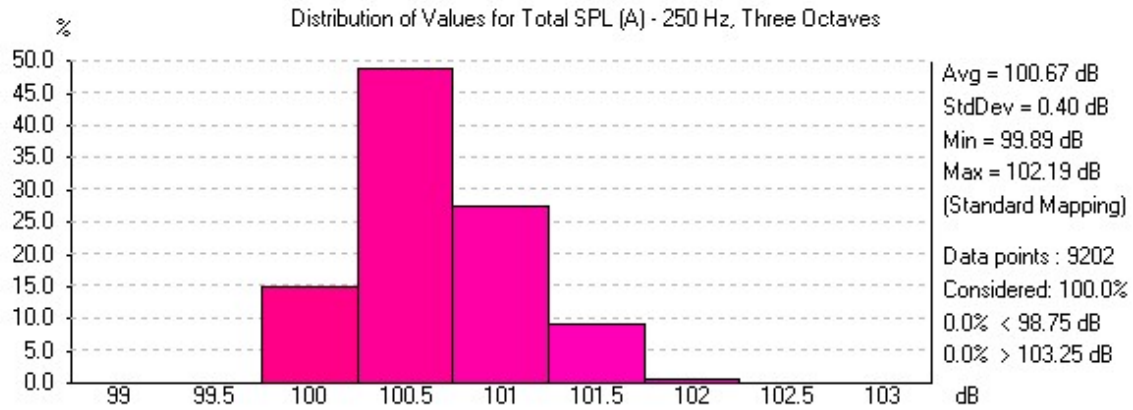


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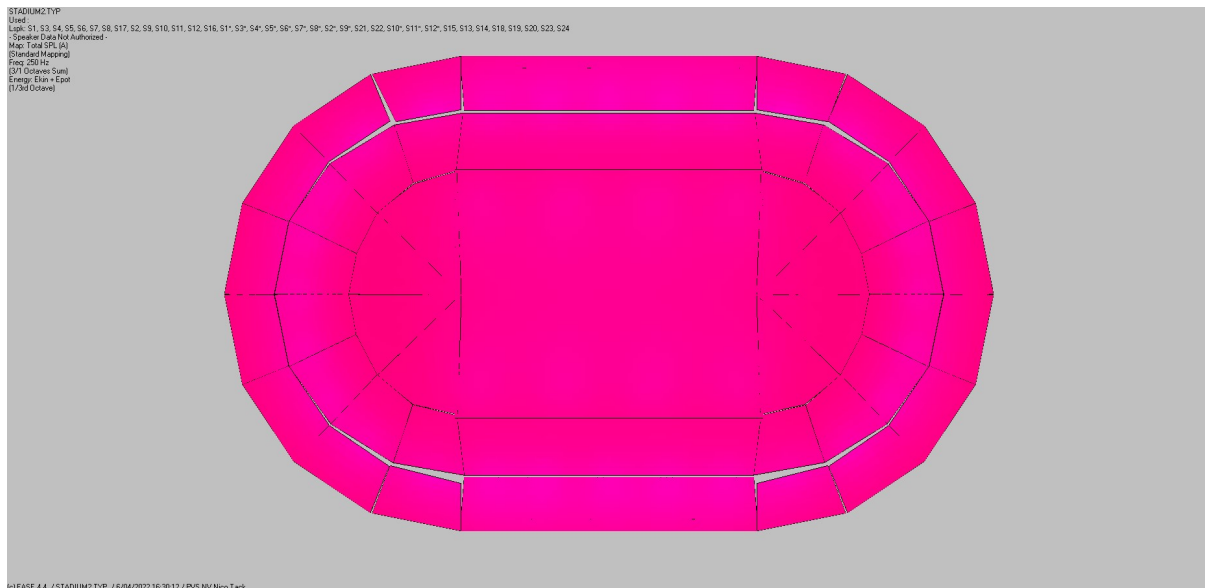


Velodroom (Heusden-zolder)

Akoestische simulatie EASE4.4 (06/04/2022)

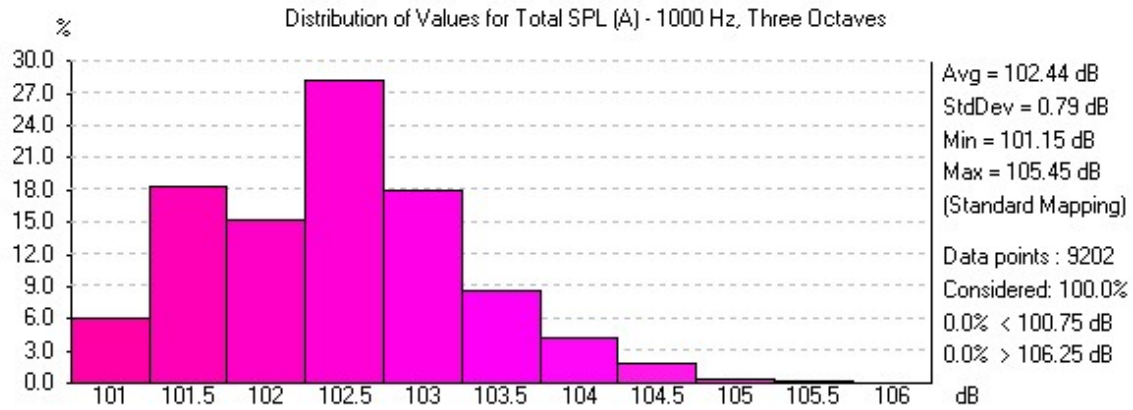


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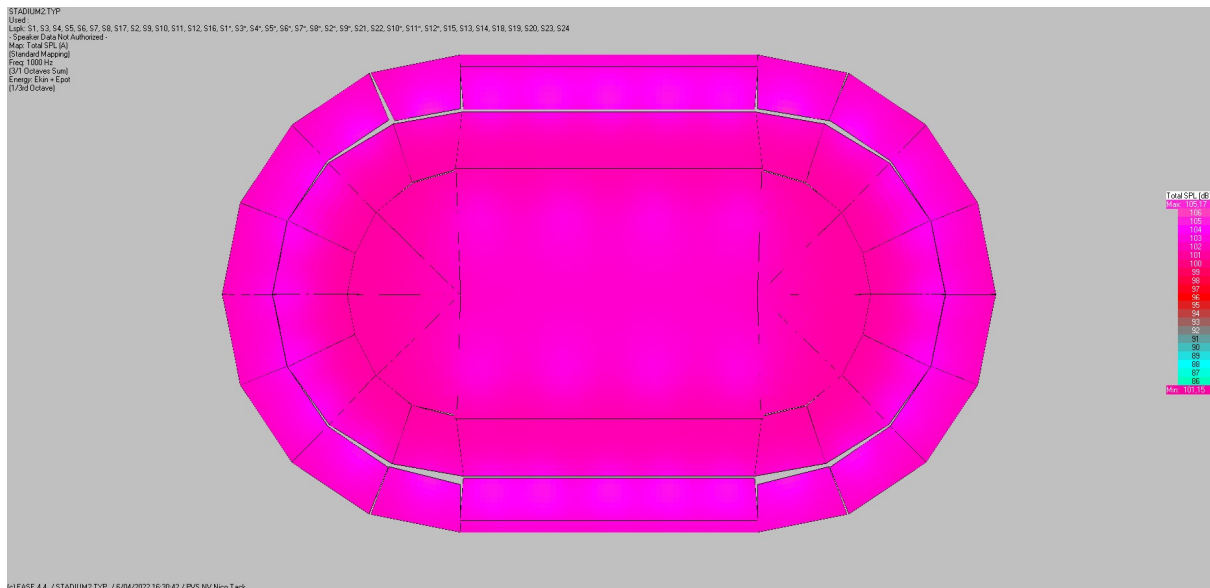


Velodroom (Heusden-zolder)

Akoestische simulatie EASE4.4 (06/04/2022)

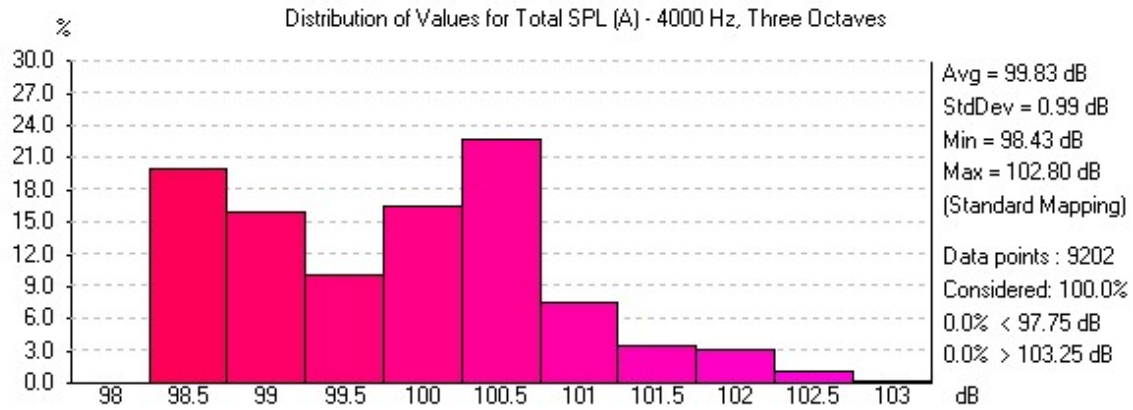


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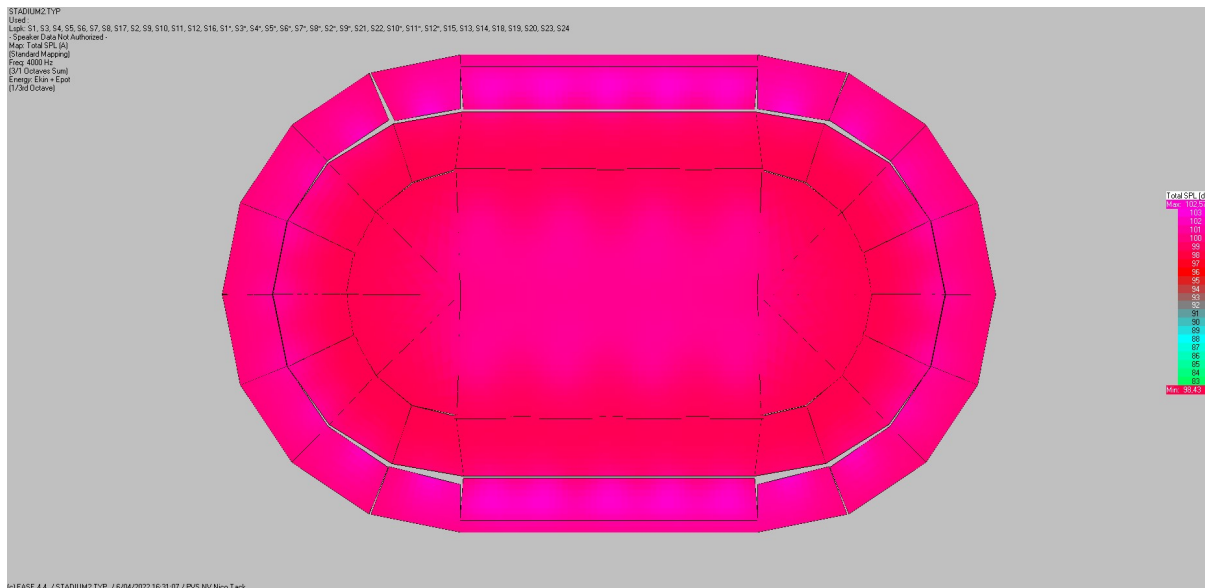


Velodroom (Heusden-zolder)

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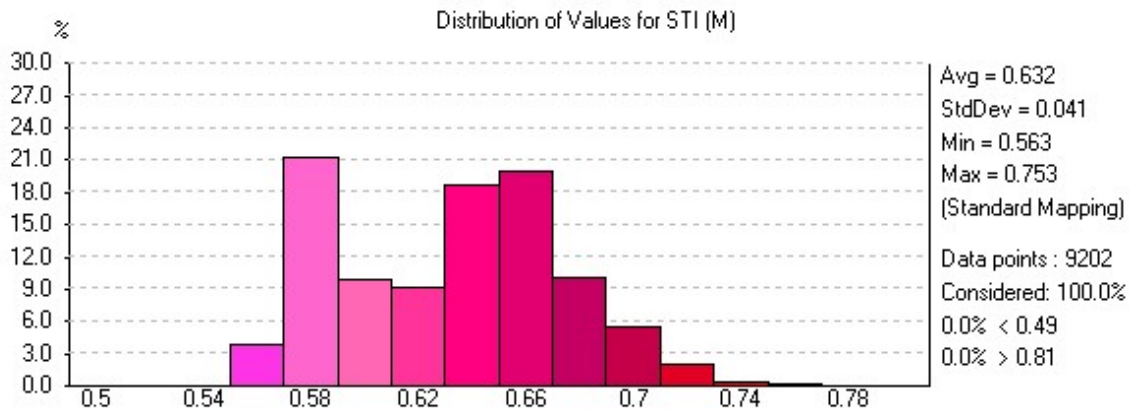


Velodroom (Heusden-zolder)

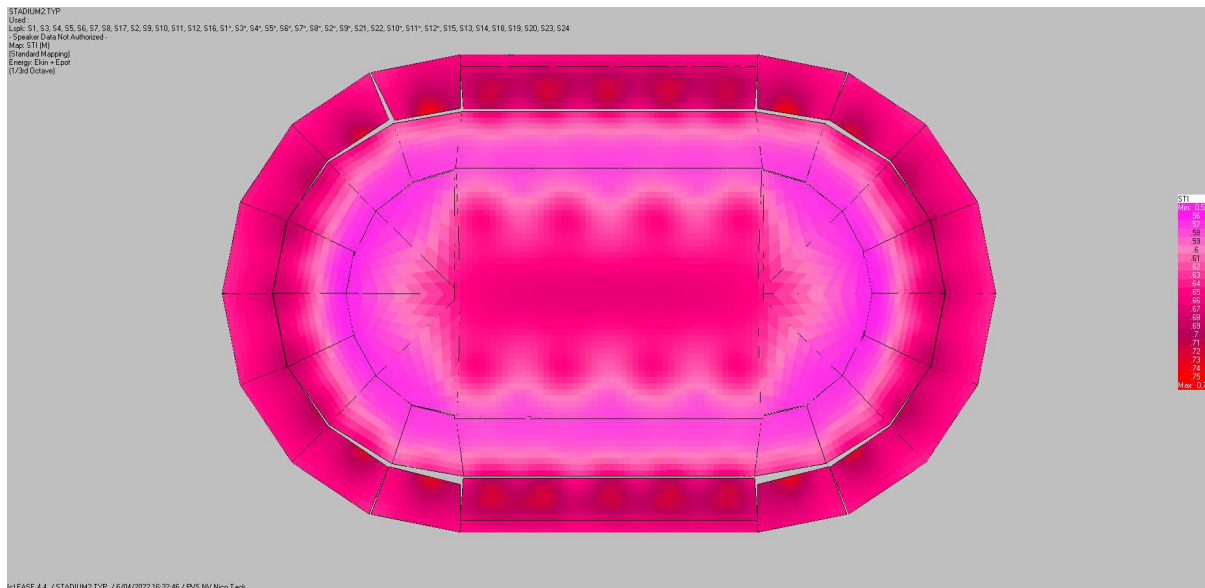
Akoestische simulatie EASE4.4 (06/04/2022)



STIM



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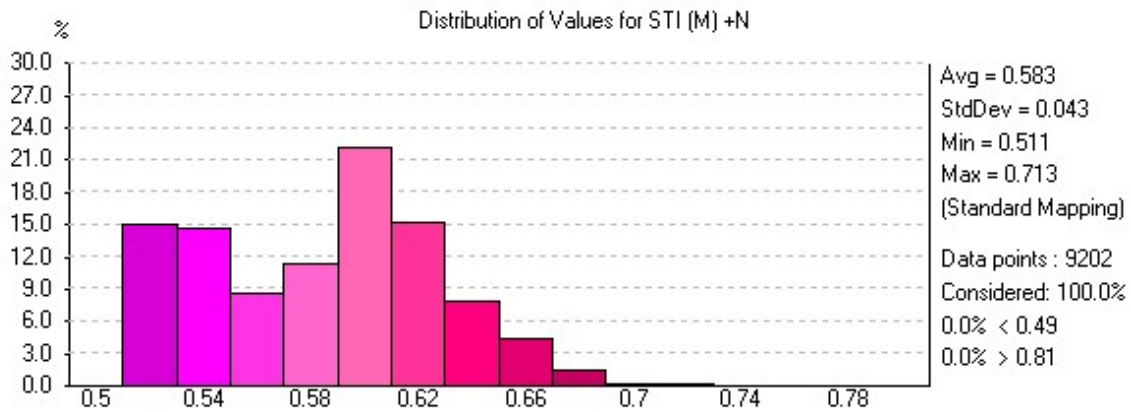


Velodroom (Heusden-zolder)

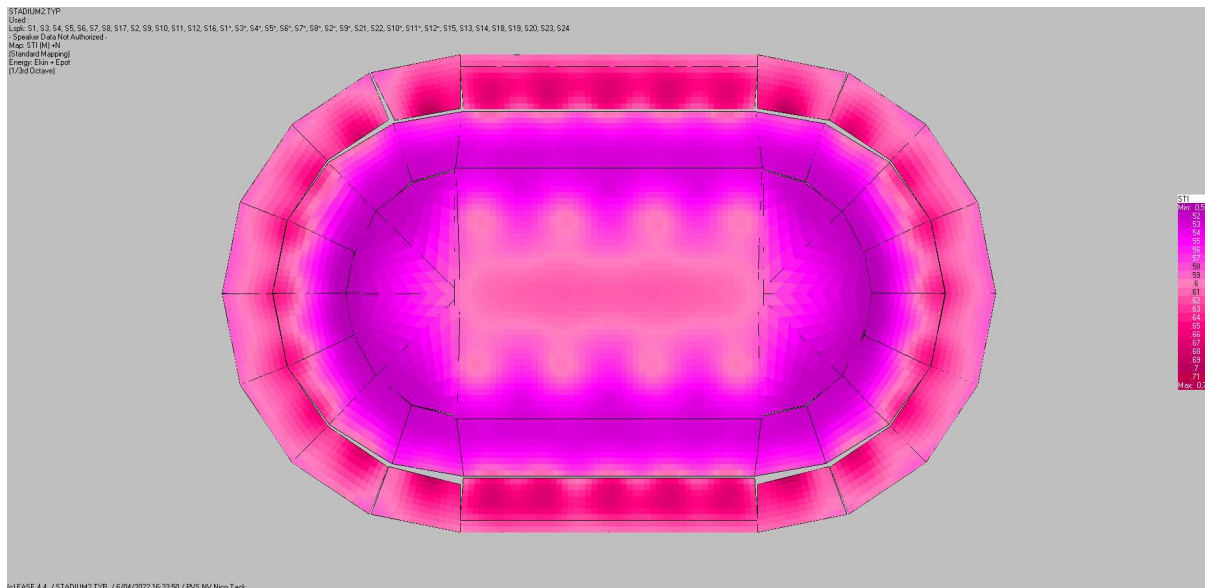
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STI M + Noise (80dB)



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Velodroom (Heusden-zolder)

Akoestische simulatie EASE4.4 (06/04/2022)

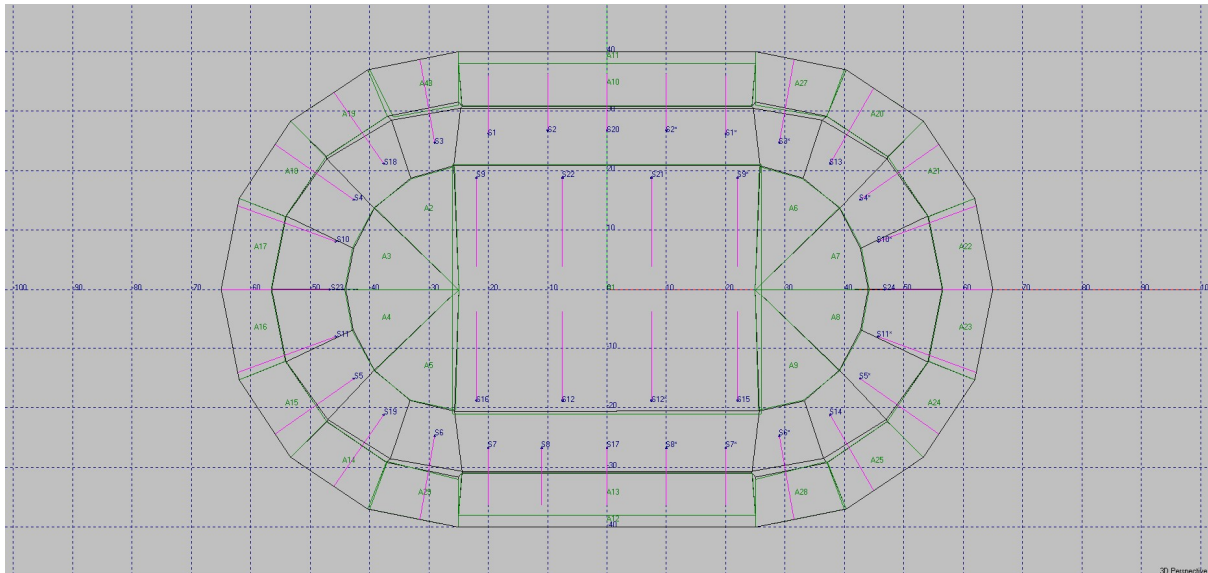


Luidspreker coördinaten

#	Item	Speaker Model	x [m]	y [m]	z [m]	Hor [°]	Ver [°]
1	S1	VEXO115	-20.00	26.00	10.00	-180.0	-25.0
2	S3	VEXO115	-29.00	24.50	10.00	-170.0	-8.0
3	S4	VEXO115	-42.50	15.00	10.00	-125.0	-1.0
4	S5	VEXO115	-42.50	-15.00	10.00	305.0	-1.0
5	S6	VEXO115	-29.00	-24.50	10.00	350.0	-8.0
6	S7	VEXO115	-20.00	-26.50	10.00	0.0	-25.0
7	S8	VEXO115	-11.00	-26.50	10.00	360.0	-25.0
8	S17	VEXO115	0.00	-26.50	10.00	360.0	-25.0
9	S2	VEXO115	-10.00	26.50	10.00	180.0	-25.0
10	S9	VEXO115	-22.00	19.00	10.00	0.0	-35.0
11	S10	VEXO115	-45.50	8.00	10.00	250.0	-1.0
12	S11	VEXO115	-45.50	-8.00	10.00	290.0	-1.0
13	S12	VEXO115	-7.50	-19.00	10.00	180.0	-35.0
14	S16	VEXO115	-22.00	-19.00	10.00	180.0	-35.0
15	S1*	VEXO115	20.00	26.00	10.00	180.0	-25.0
16	S3*	VEXO115	29.00	24.50	10.00	170.0	-8.0
17	S4*	VEXO115	42.50	15.00	10.00	125.0	-1.0
18	S5*	VEXO115	42.50	-15.00	10.00	55.0	-1.0
19	S6*	VEXO115	29.00	-24.50	10.00	10.0	-8.0
20	S7*	VEXO115	20.00	-26.50	10.00	0.0	-25.0
21	S8*	VEXO115	10.00	-26.50	10.00	-360.0	-25.0
22	S2*	VEXO115	10.00	26.50	10.00	-180.0	-25.0
23	S9*	VEXO115	22.00	19.00	10.00	0.0	-35.0
24	S21	VEXO115	7.50	19.00	10.00	0.0	-35.0
25	S22	VEXO115	-7.50	19.00	10.00	0.0	-35.0
26	S10*	VEXO115	45.50	8.00	10.00	110.0	-1.0
27	S11*	VEXO115	45.50	-8.00	10.00	70.0	-1.0
28	S12*	VEXO115	7.50	-19.00	10.00	180.0	-35.0
29	S15	VEXO115	22.00	-19.00	10.00	180.0	-35.0
30	S13	VEXO115	37.50	21.00	10.00	150.0	-4.0
31	S14	VEXO115	37.50	-21.00	10.00	30.0	-4.0
32	S18	VEXO115	-37.50	21.00	10.00	215.0	-4.0
33	S19	VEXO115	-37.50	-21.00	10.00	325.0	-4.0
34	S20	VEXO115	0.00	26.50	10.00	180.0	-25.0
35	S23	VEXO115	-46.50	0.00	10.00	270.0	-1.0
36	S24	VEXO115	46.50	0.00	10.00	90.0	-1.0

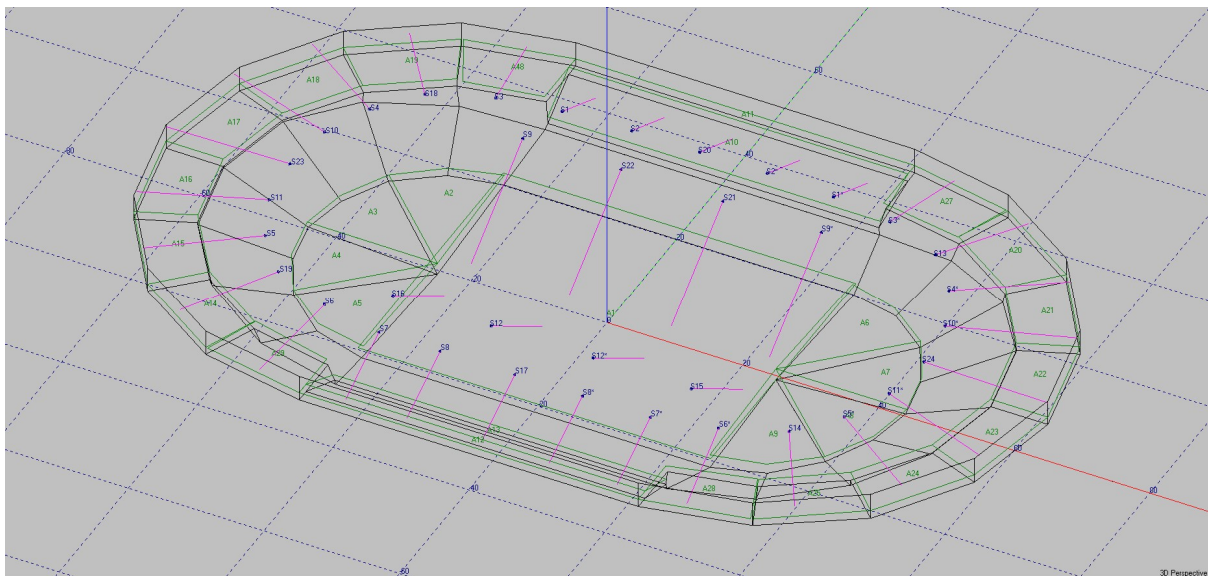
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Akoestische simulatie EASE4.4 (06/04/2022)



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3D Perspective



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3D Perspective

DISCLAIMER: All simulations have been done with industry standard techniques and software EASE 4.4 using information supplied by others. They are believed to be accurate within normal tolerances for such simulations providing the data supplied was accurate.