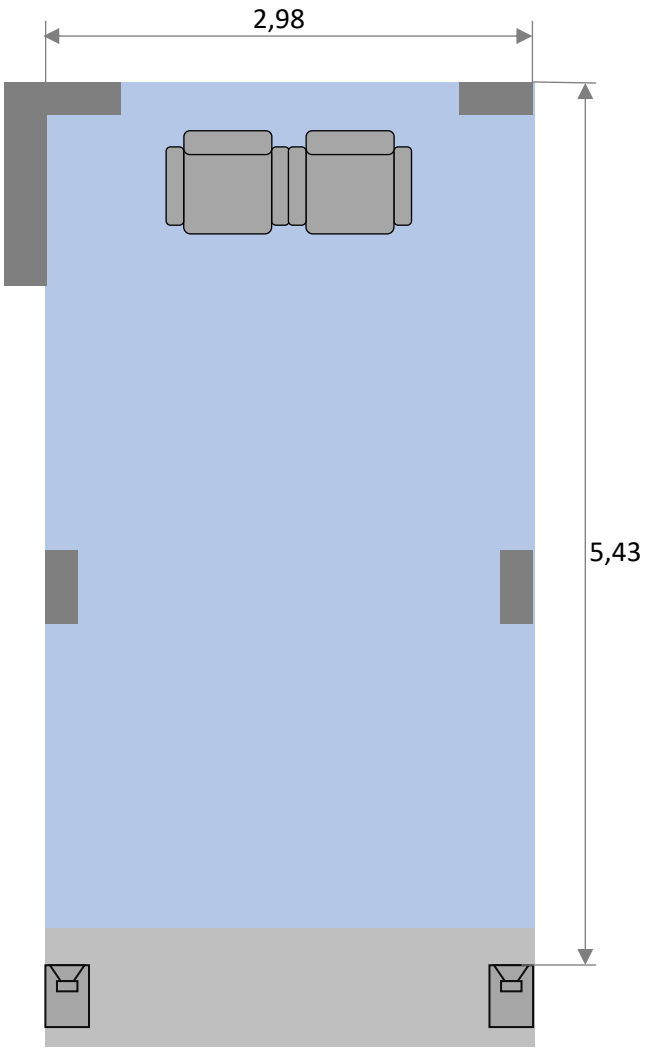
Raumakustik-Planung

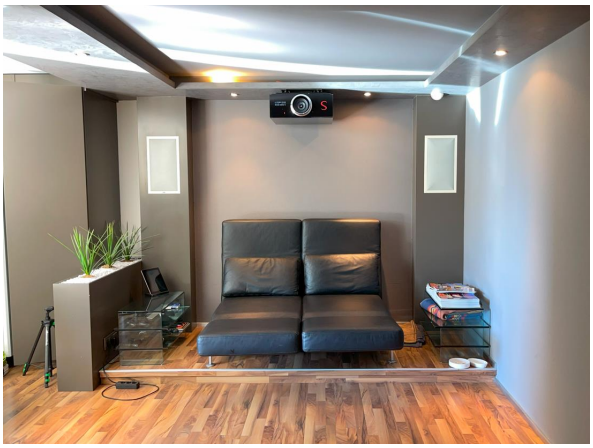
SmartHome

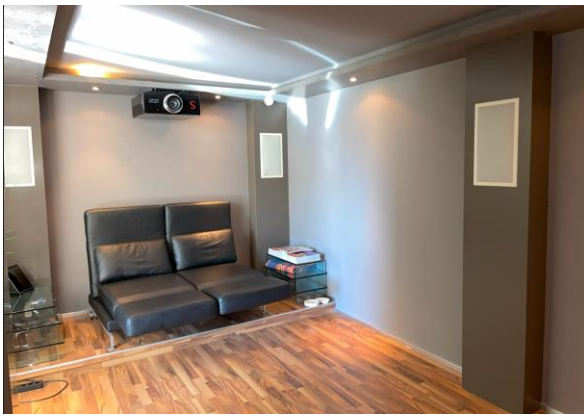
1.1 Raumplan und Wiedergabesystem

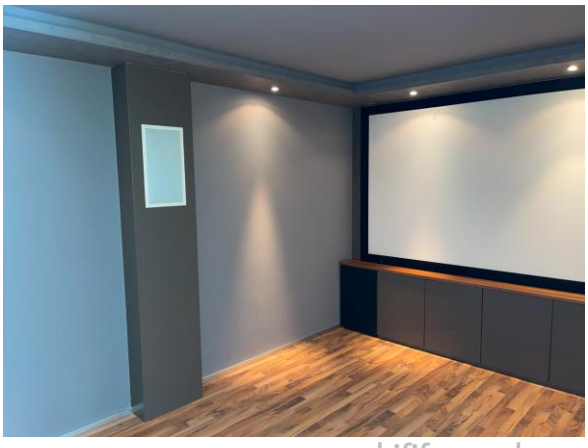
Raumgröße: 16,2m²
Raumhöhe: 2,43m
Raumvolumen: 39,4m³

Lautsprecher: B&W
Verstärker: Trinnov





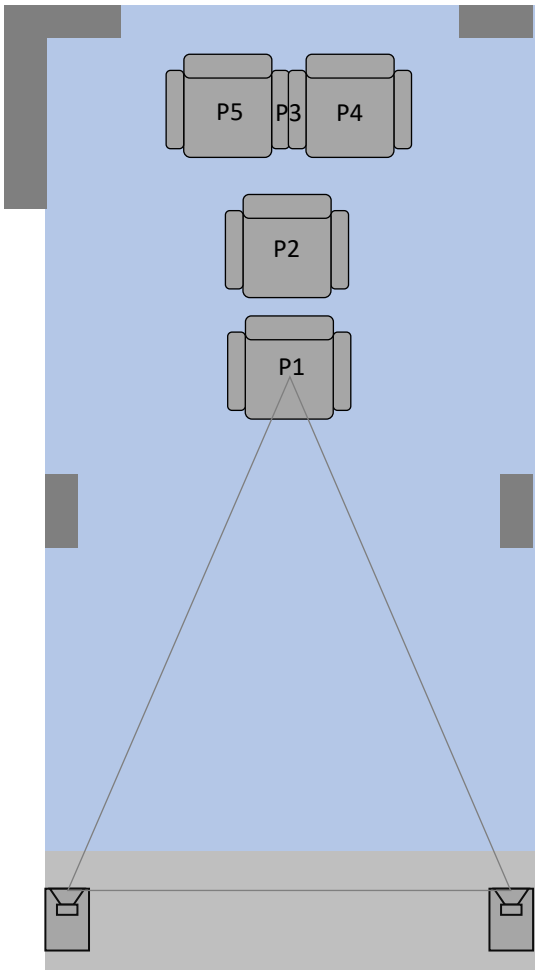




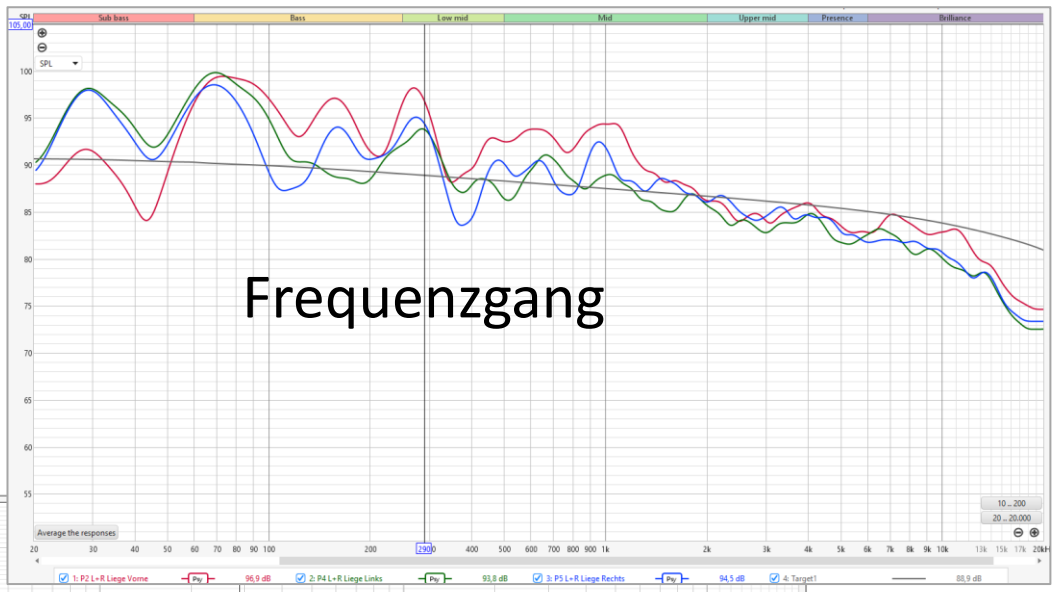
www.hififorum.de

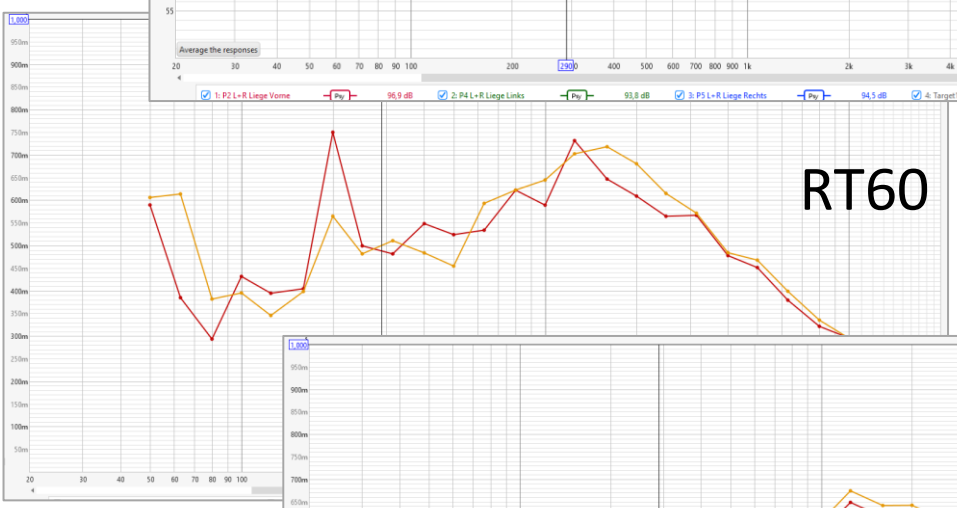
1.2 Messungen

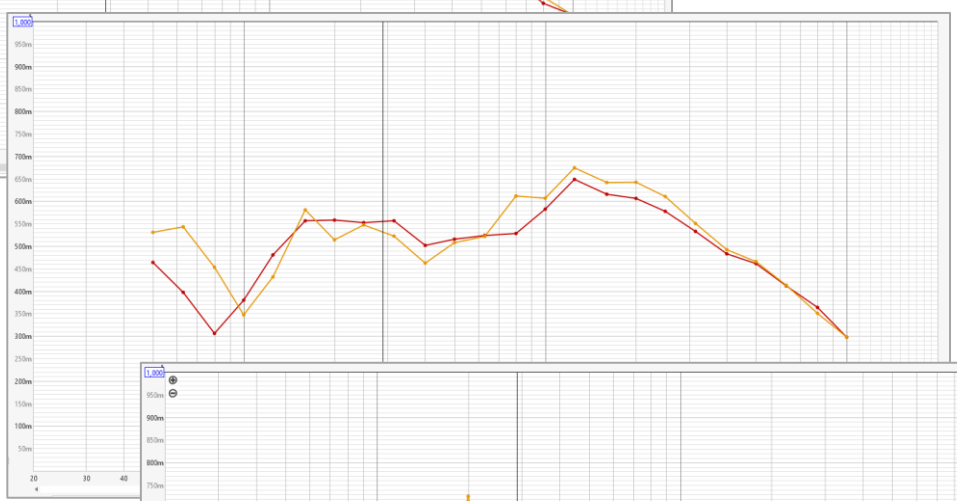
Planung basiert auf Messungen an mehreren Sitzpositionen.

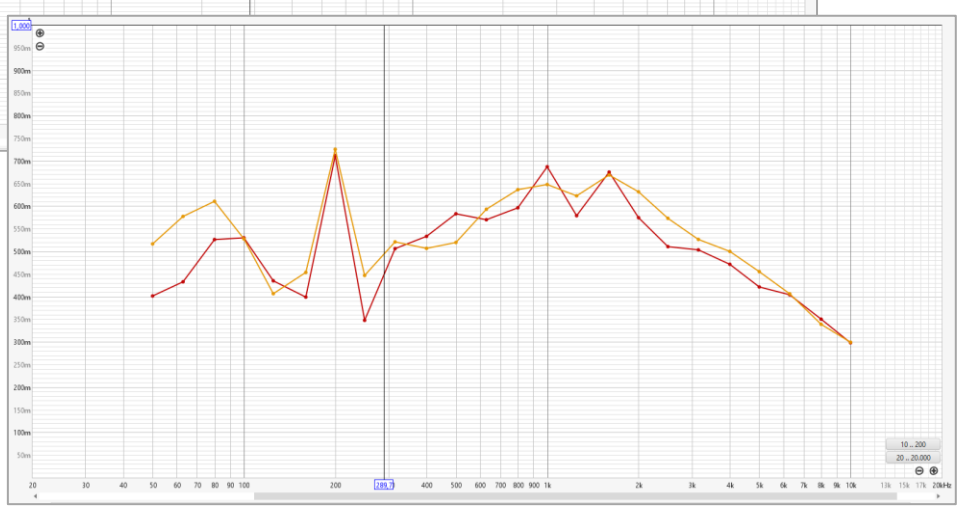


1.3 Messergebnisse (P2, P4, P5)





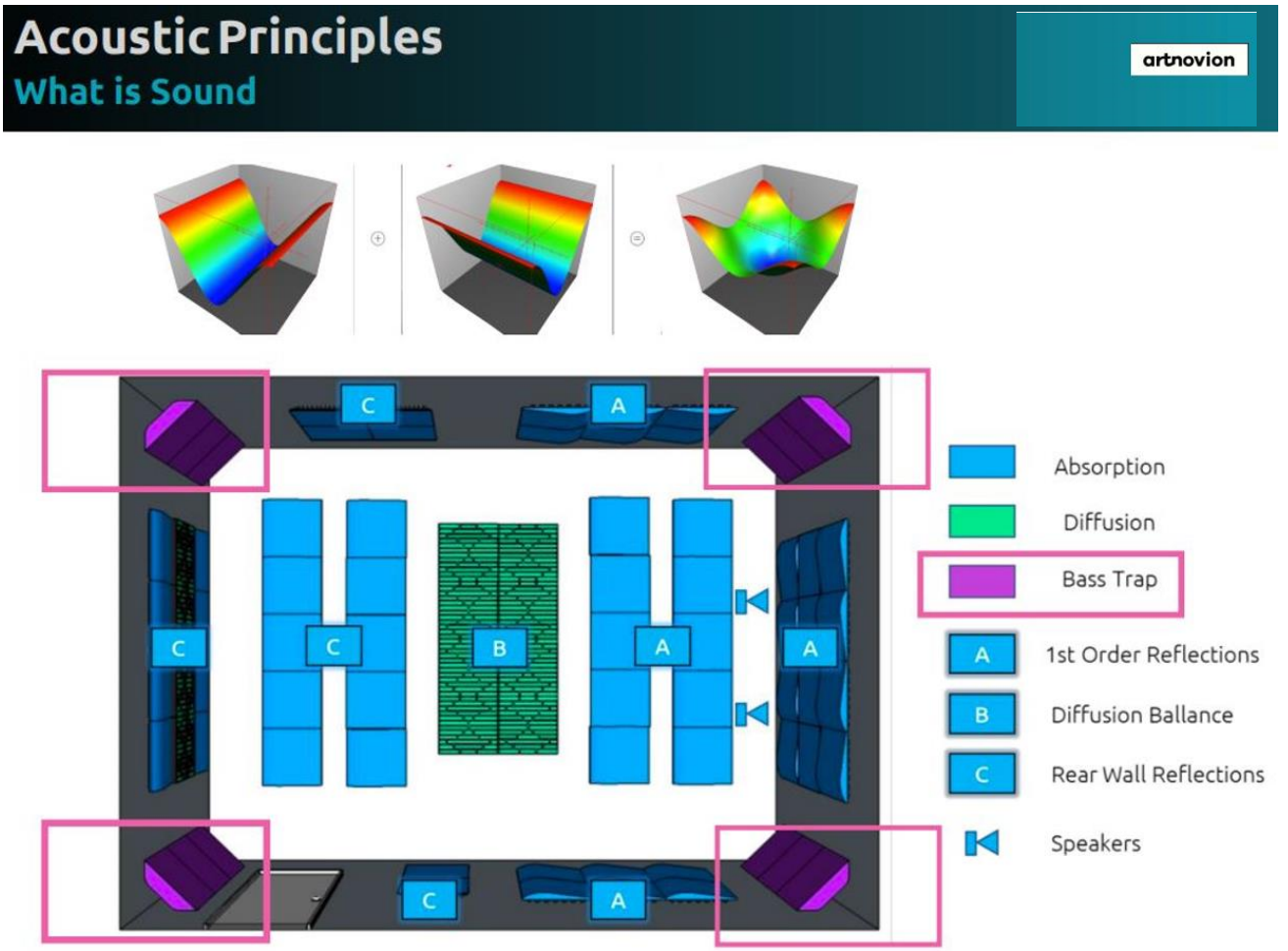




www.hififorum.de

2.1 Passive akustische Lösungen

Passive Absorber und Diffusoren - Beispiel: Artnovion



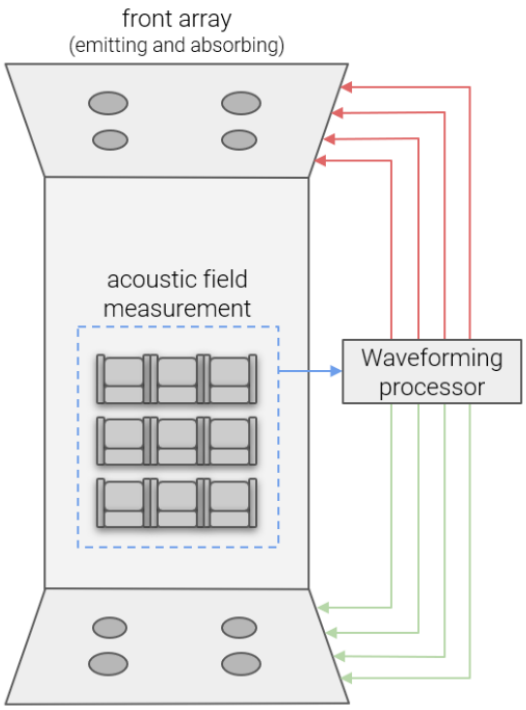
2.2 Aktive akustische Lösungen
Aktive Bassabsorber - Beispiel: Trinnov Waveforming

TRINNOV REVEALS REVOLUTIONARY WAVEFORMING™ TECHNOLOGY

29 May 2023

Product News | Trinnov Insiders | Events

WAVEFORMING



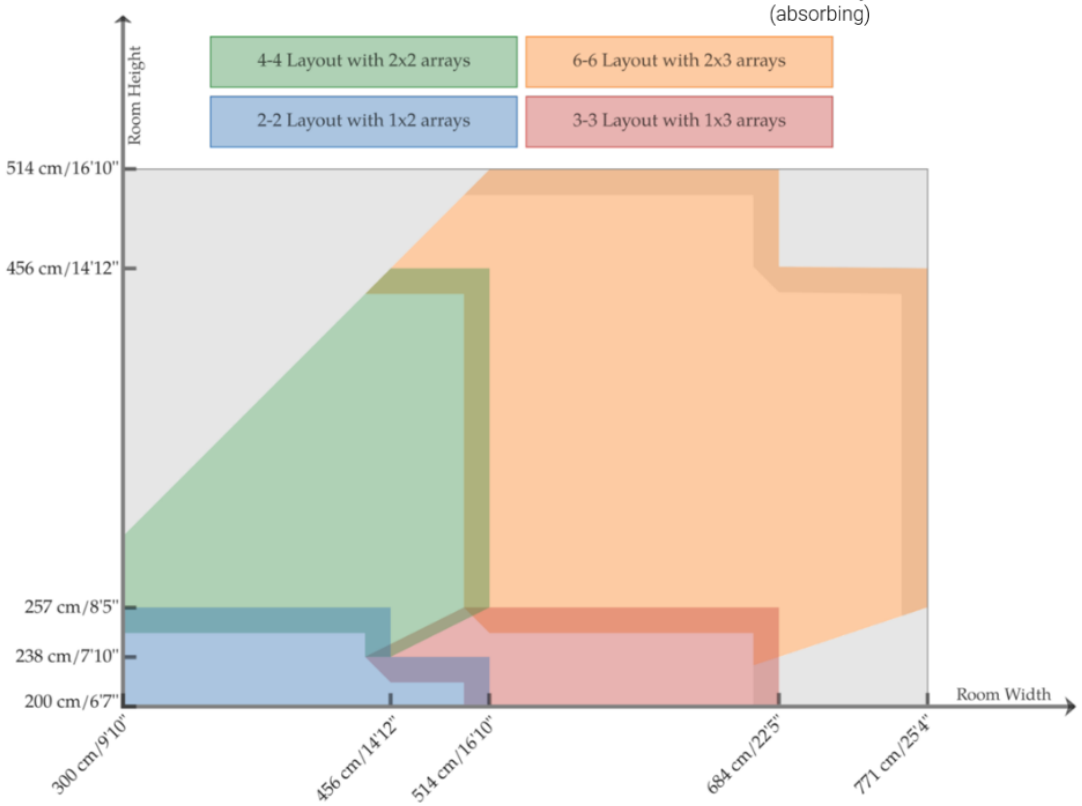
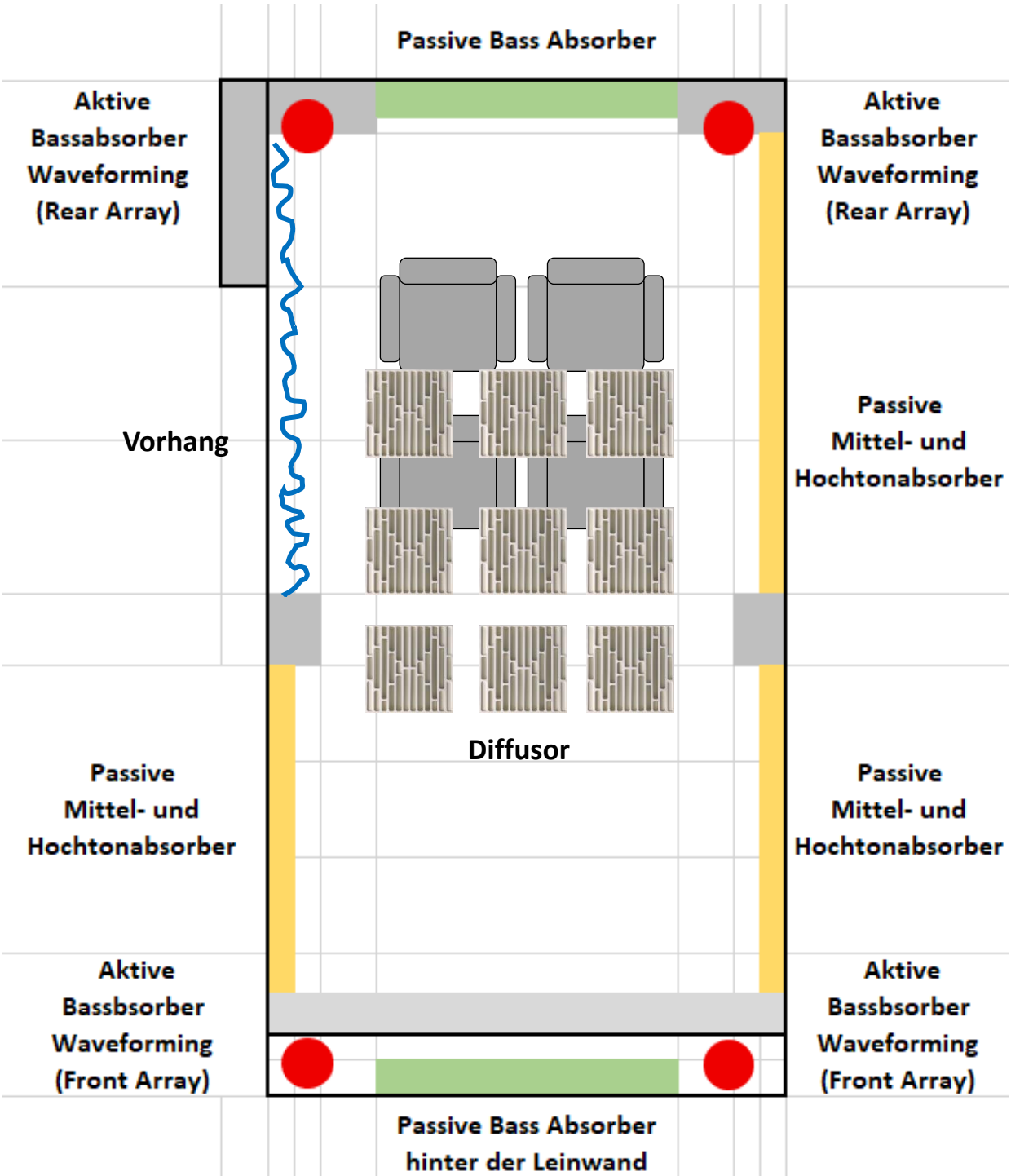


Figure 3. Recommended layouts in terms of room width and height.

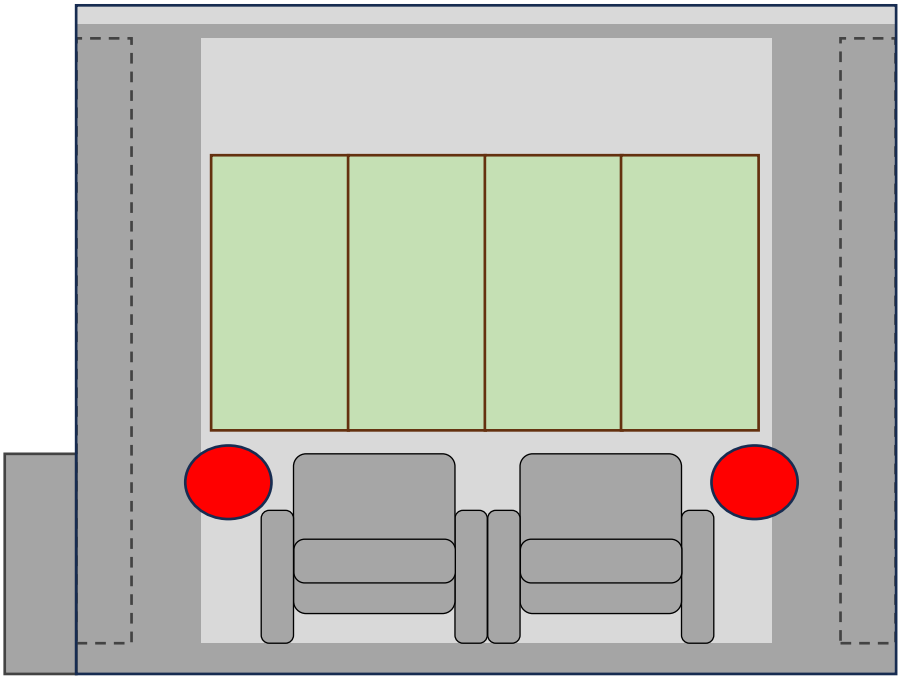
www.hififorum.de

2.3 Planungskonzept



www.hififorum.de

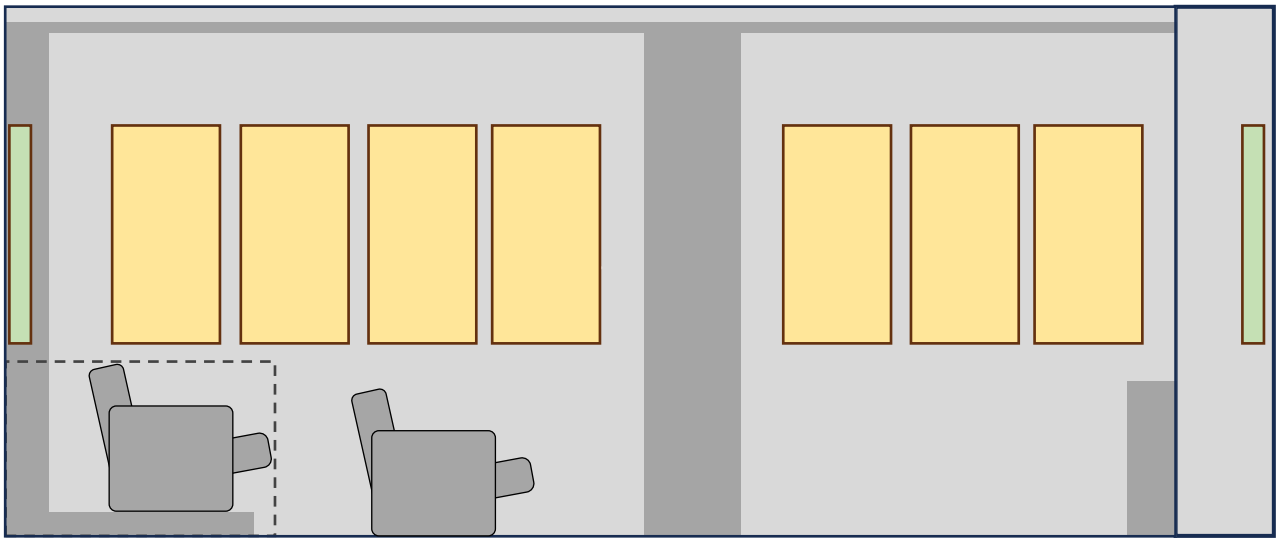
3.1 ***Basotect*** Absorber hinter einer Stoff-Wandverkleidung ***Aktive Bassabsorber*** (Trinnov Waveforming)



Basotect G+ 100mm
100x50x10cm
hinter einer Stoff-Wandverkleidung

Beispiel: Stoff-Wandverkleidung

4.1 *Basotect* Absorber hinter einer Stoff-Wandverkleidung

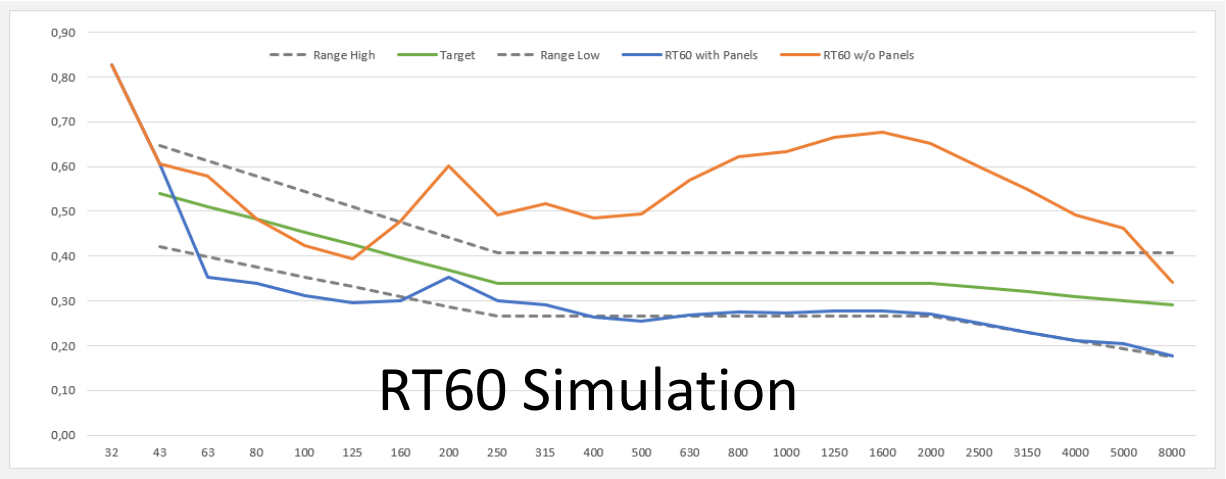


Basotect G+ 50mm
100x50x5cm
hinter einer Stoff-
Wandverkleidung

Beispiel: Stoff-Wandverkleidung

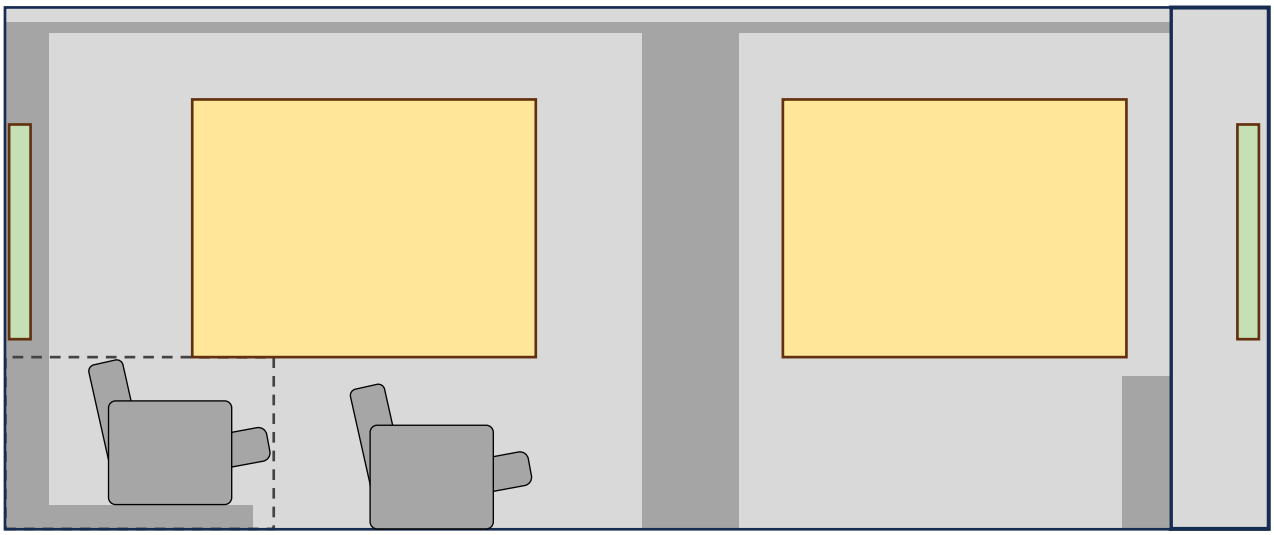
4.1 *Basotect* Absorber hinter einer Stoff-Wandverkleidung

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		**10**
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		**2**
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		**10**
46																		
47	8016	Construction			Absorption			Basotect G+ 50mm					1000	500	50	100x50x5cm		**10**
48	7014	Construction			Cover			Stoff-Wandverkleidung					1000	1000	30	Sonderanfertig		**4**

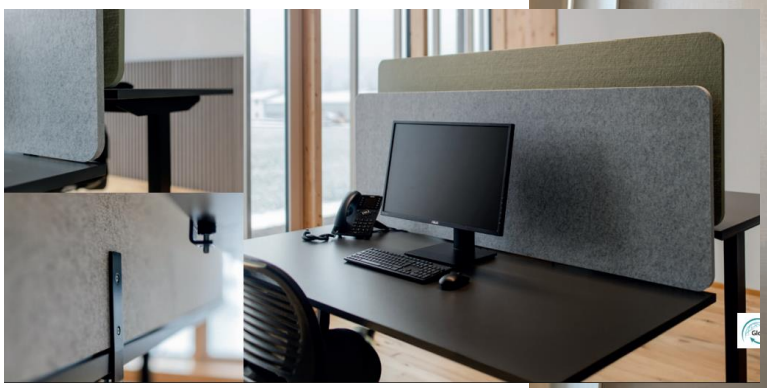


www.hififorum.de

4.2 *SPÄH* Absorber hinter einer Stoff-Wandverkleidung



SPÄH Platte BASIC COLOR
160x120x2,4cm
hinter einer Stoff-Wandverkleidung

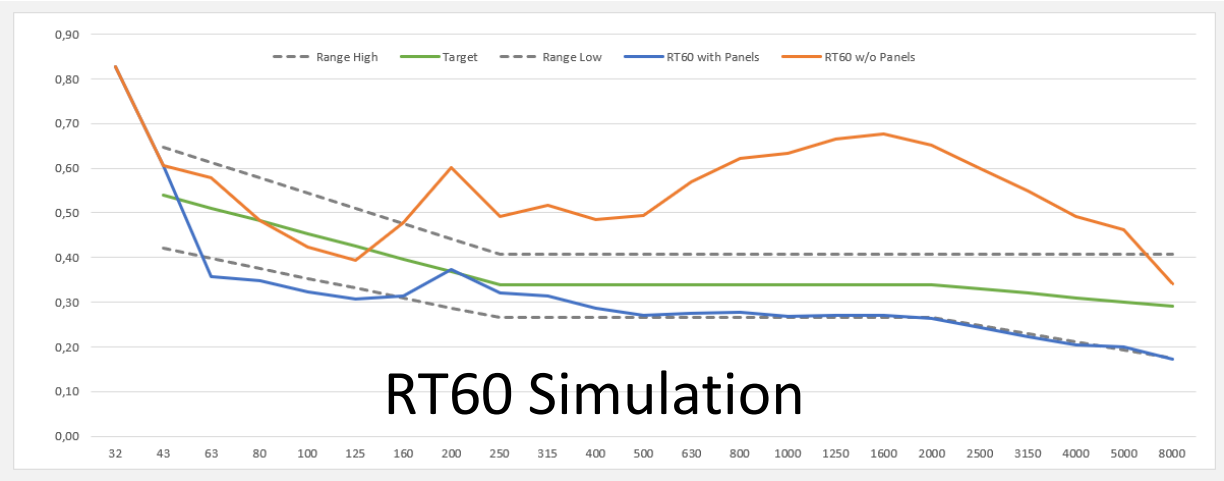


Beispiel: Stoff-Wandverkleidung

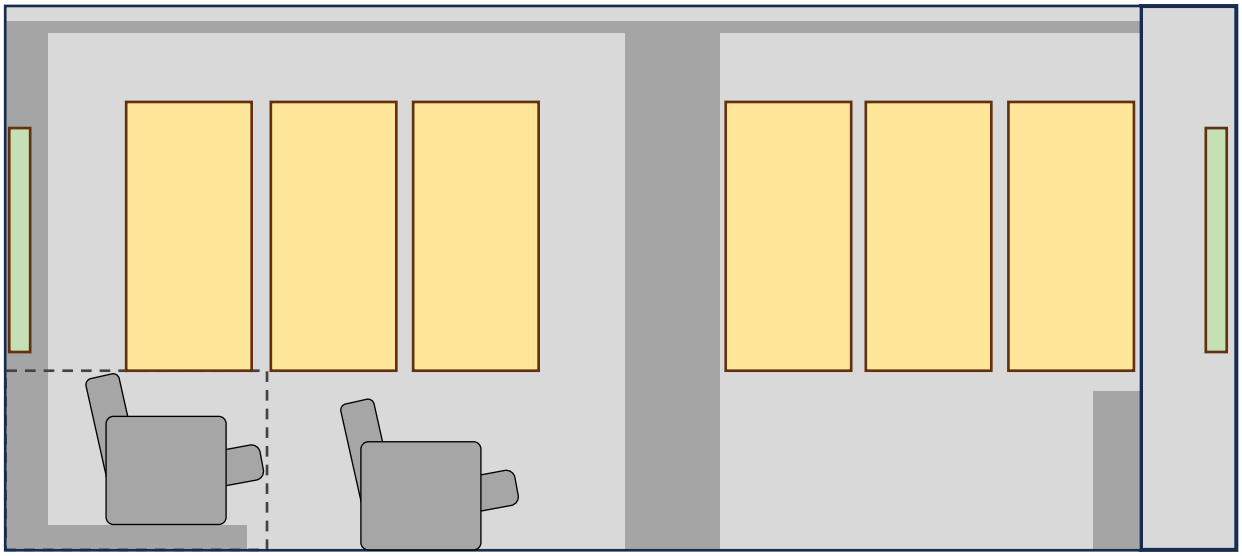
www.hififorum.de

4.2 *SPÄH* Absorber hinter einer Stoff-Wandverkleidung

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
46																		
50	8099	Construction			Absorption			SPÄH Platte BASIC COLOR | 24mm [gr					2400	1200	24	Basic Color 240		2
51	7014	Construction			Cover			Stoff-Wandverkleidung					1000	1000	30	Sonderanfertig		4



4.3 *SPÄH-Wandabsorber* 50mm Fibercomfort



WARME WIRKUNG, RUHIGE ATMOSPHÄRE

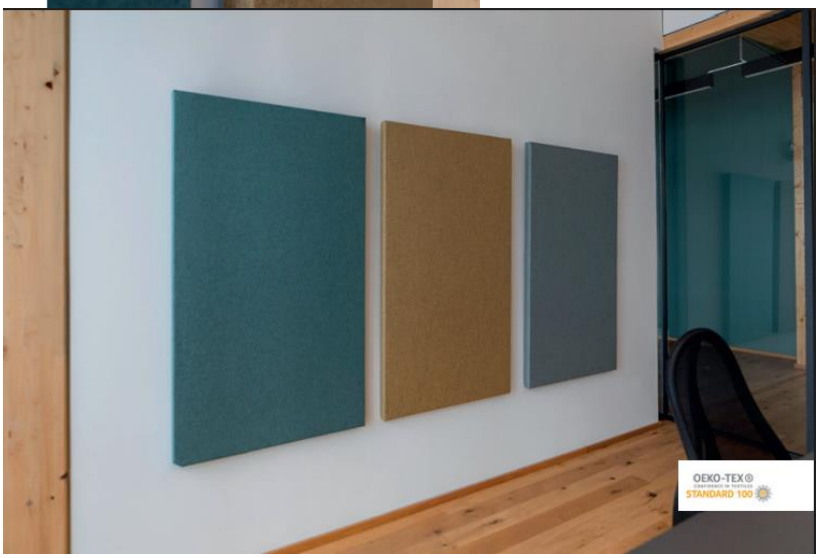
absorber

Unsere *absorber* bieten die perfekte Lösung für eine verbesserte Raumakustik und ein stilvolles Interieur. Durch die Verwendung hochwertiger Stoffe, verfügbar in einer Vielzahl von Farben und Mustern, bieten unsere Wandabsorber eine hervorragende schallabsorbierende Leistung. Zusätzlich sind sie mit einem hochwertigen Befestigungssystem bereits vormontiert, das eine einfache Installation ermöglicht. Die *absorber* sind zudem einfach abnehmbar, was eine flexible Anpassung an unterschiedliche Raumbedürfnisse ermöglicht.

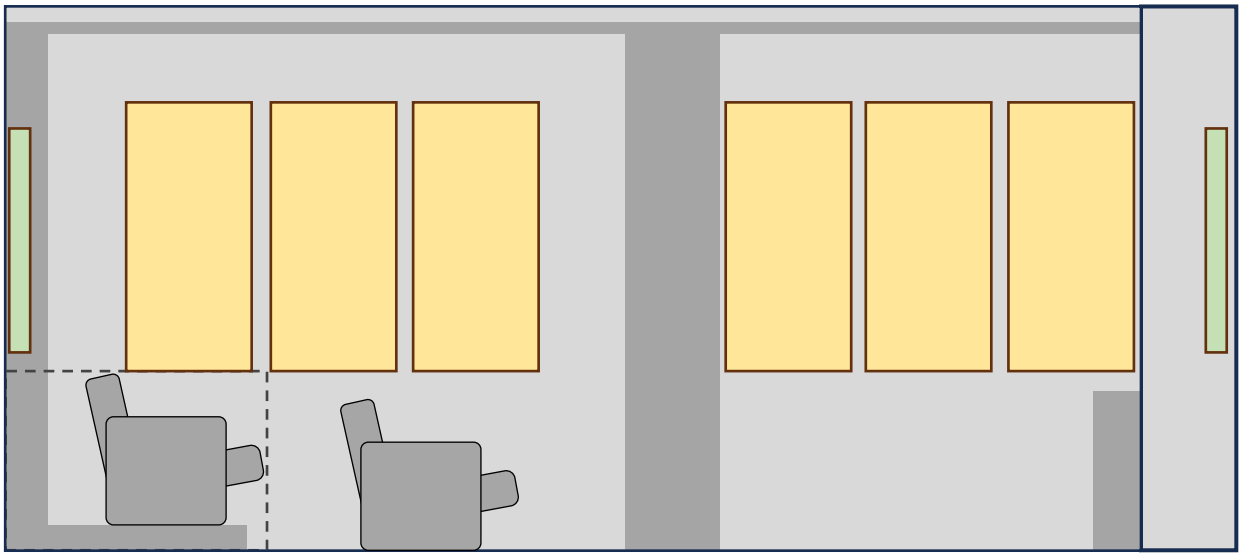
MATERIAL fibercomfort + Stoff
FORMAT max. 3.000 x 1.000 mm
STÄRKE 50 mm
MONTAGE direkt befestigt
SCHALLABSORBTION $\alpha_w = 0,95$
BAUSTOFFKLASSE c-S3, d0
ABSORBERKLASSE A

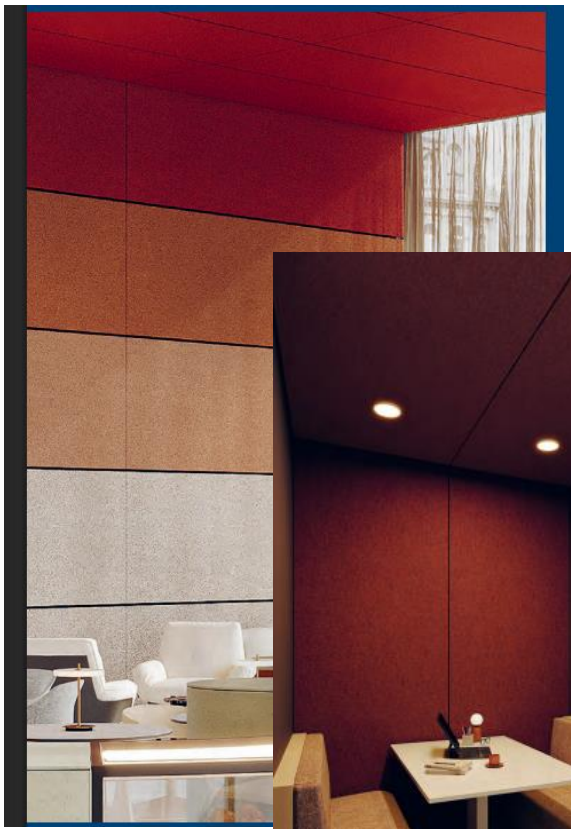
Fact Sheet & weitere Infos

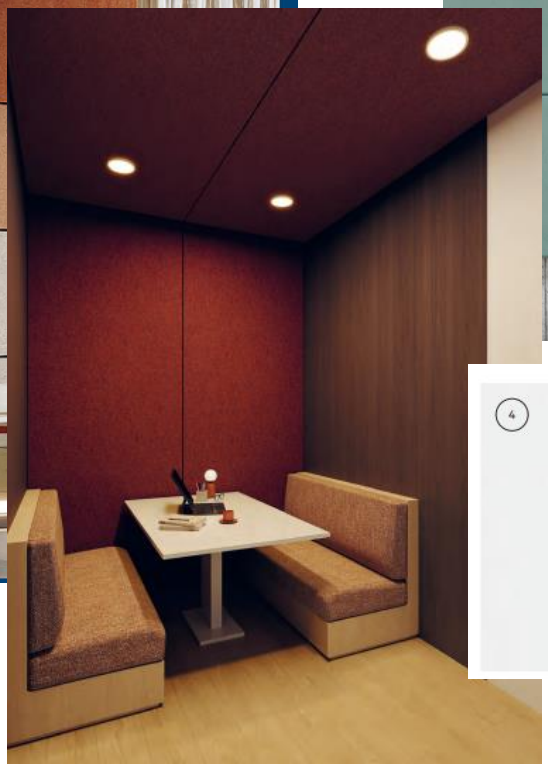
PRODUKTE



4.4 *JAB Acoustic* Panels PURE 120x60x5cm

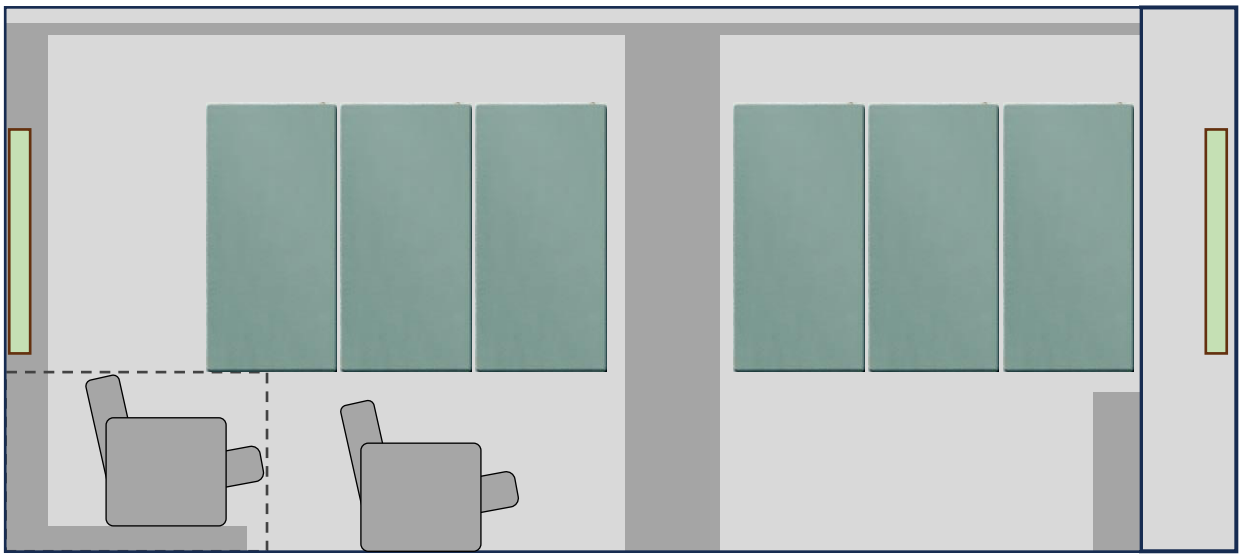


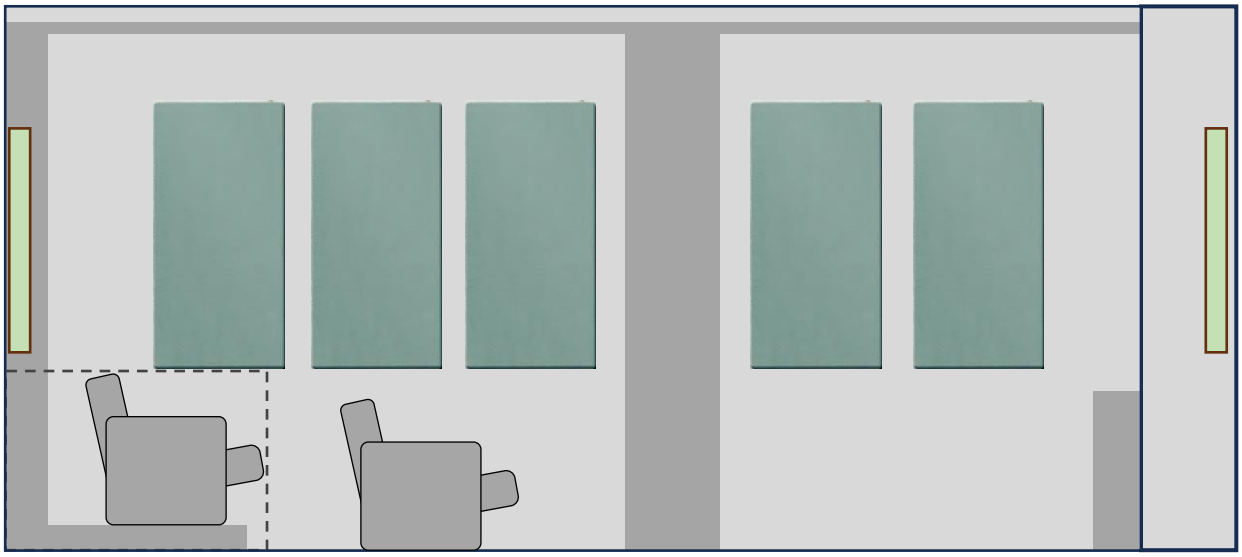




www.hififorum.de

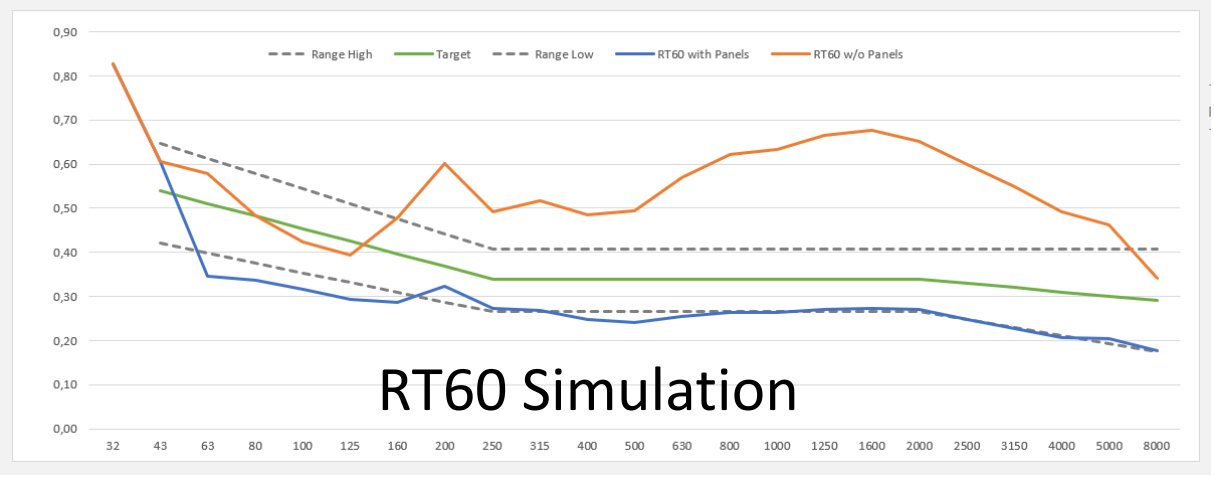
4.4 *JAB Acoustic* Panels PURE 120x60x5cm





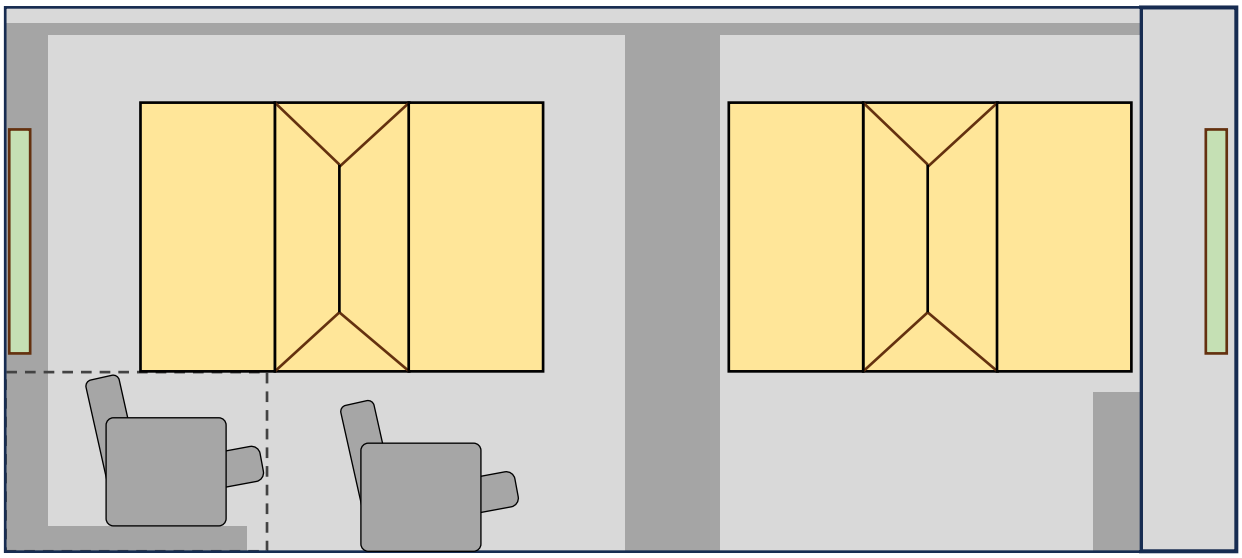
4.4 *JAB Acoustic* Panels PURE 120x60x5cm

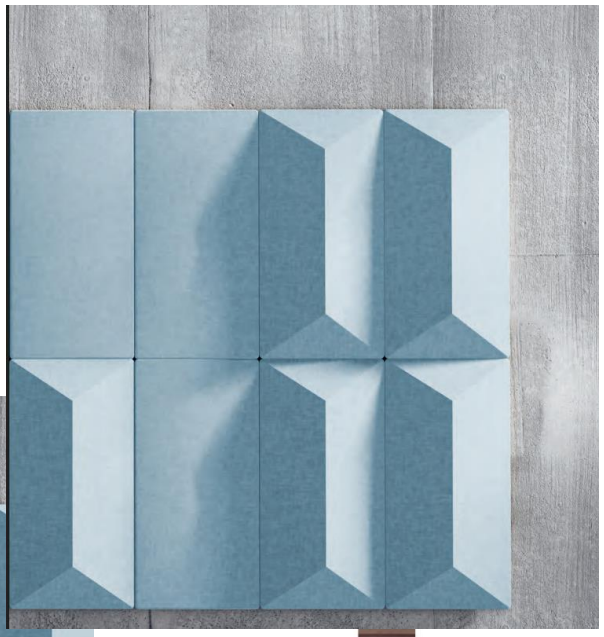
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
46																		
53	8109	Construction			Absorption			JAB Acoustic Panels PURE					1200	600	49	PURE Stoff: CH		9

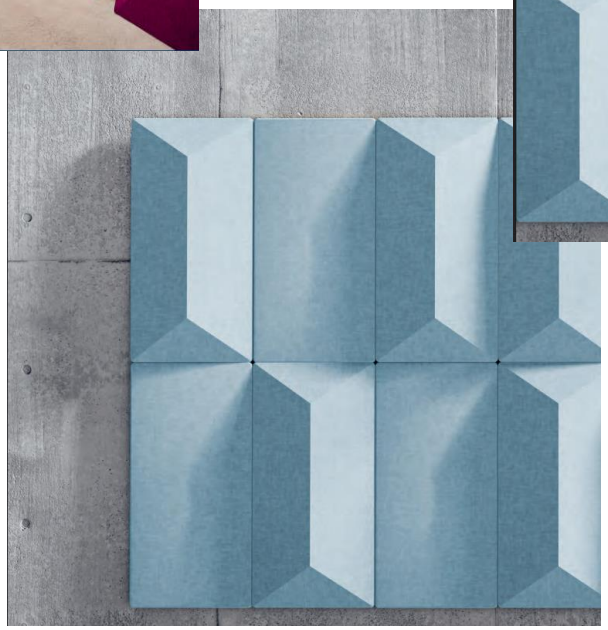


www.hififorum.de

4.5 *JAB Acoustic* Panels SHAPES ROOF 60x120x11cm

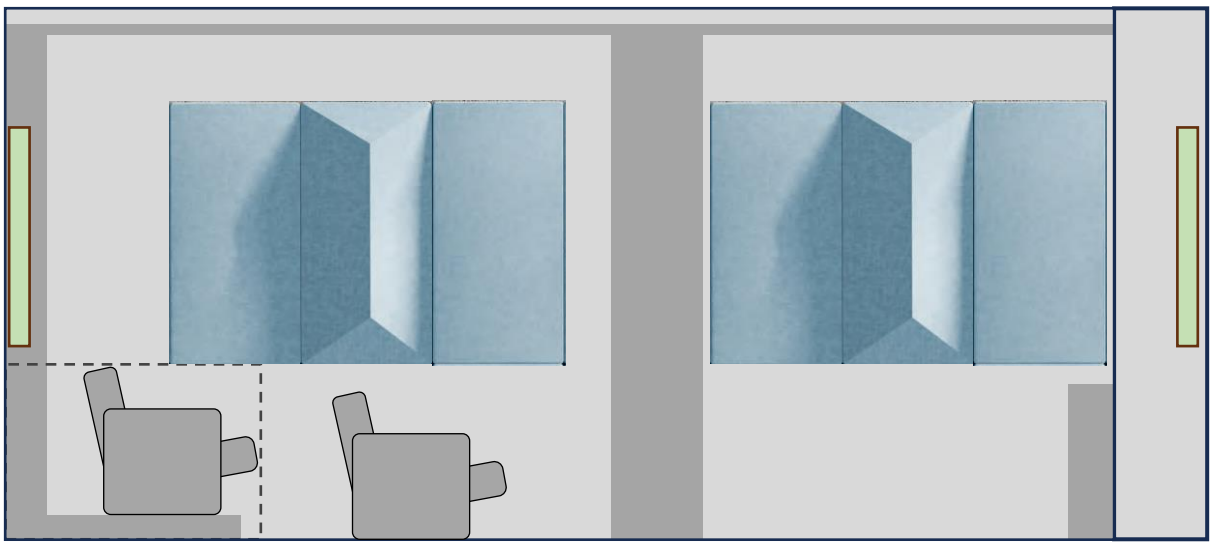


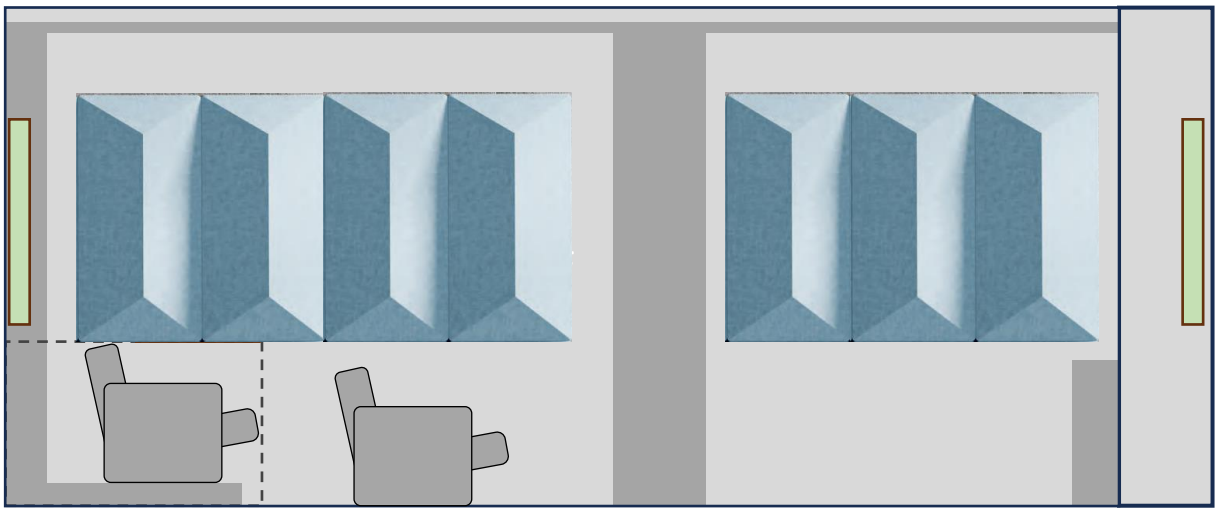


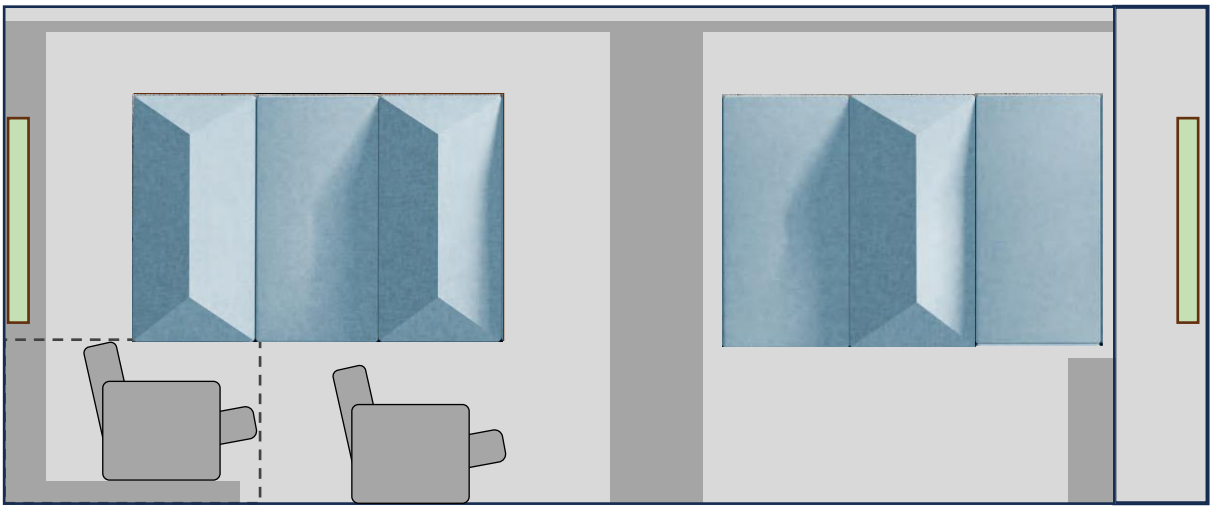


www.hififorum.de

4.5 *JAB Acoustic* Panels SHAPES ROOF 60x120x11cm

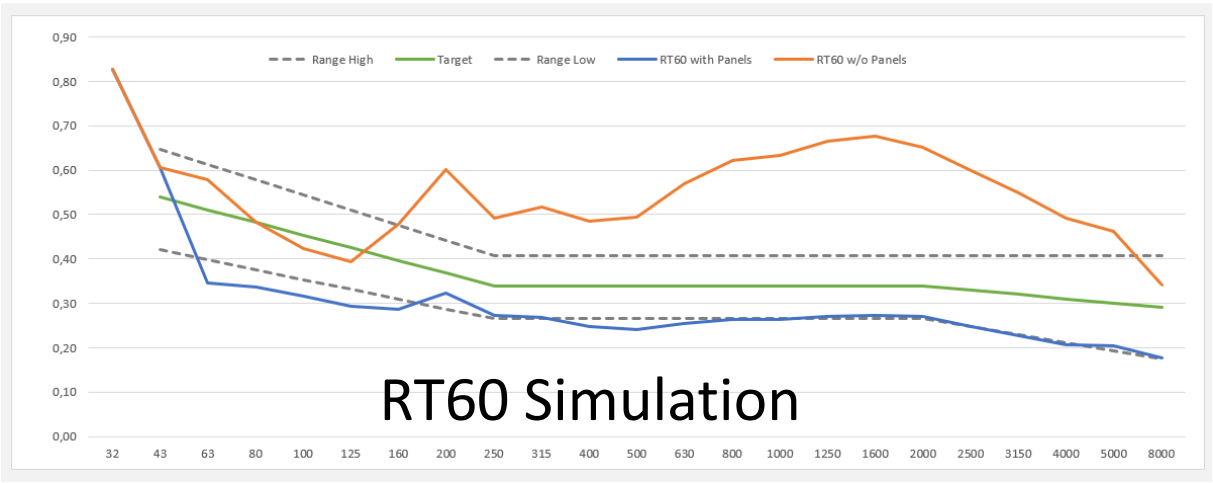






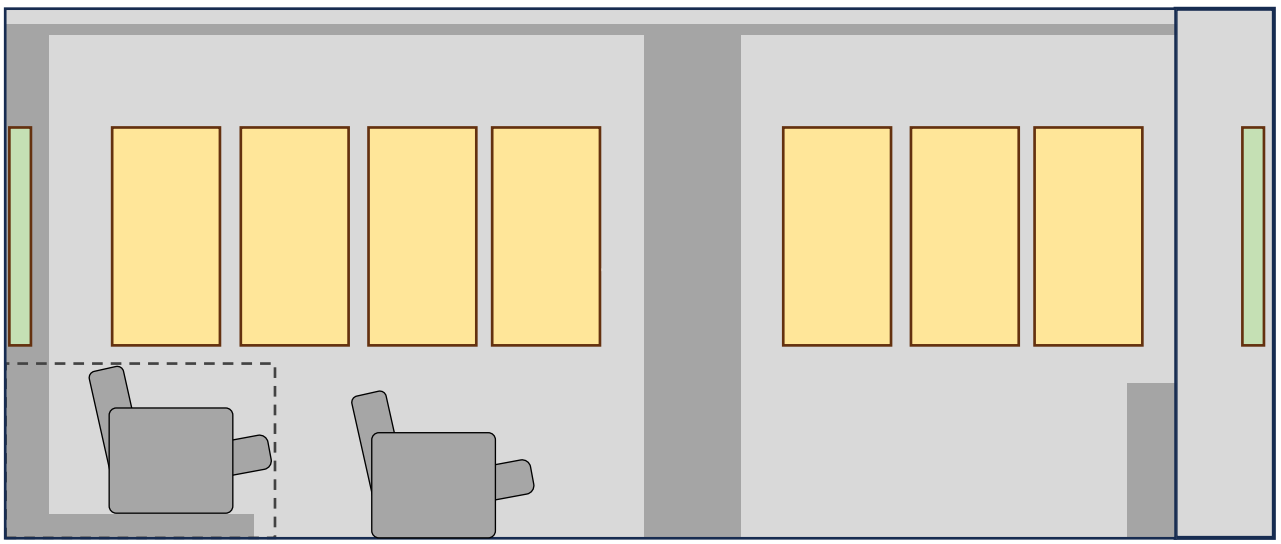
4.5 *JAB Acoustic* Panels SHAPES ROOF 60x120x11cm

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
46																		
55	8109	Construction			Absorption			JAB Acoustic Panels PURE					1200	600	49	:off: CHAMPION		6
56	8114	Construction			Absorption			JAB Acoustic Panels SHAPES ROOF 60x					1200	600	112	:toff: CHAMPIO		3



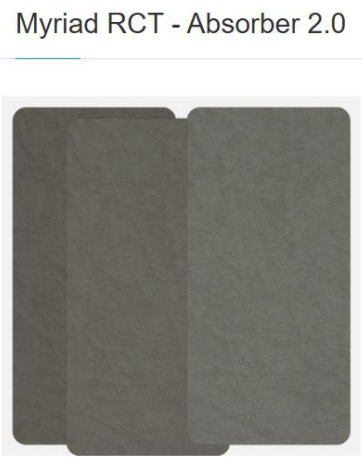
www.hififorum.de

4.6 *Artnovion* Absorber hinter einer Stoff-Wandverkleidung



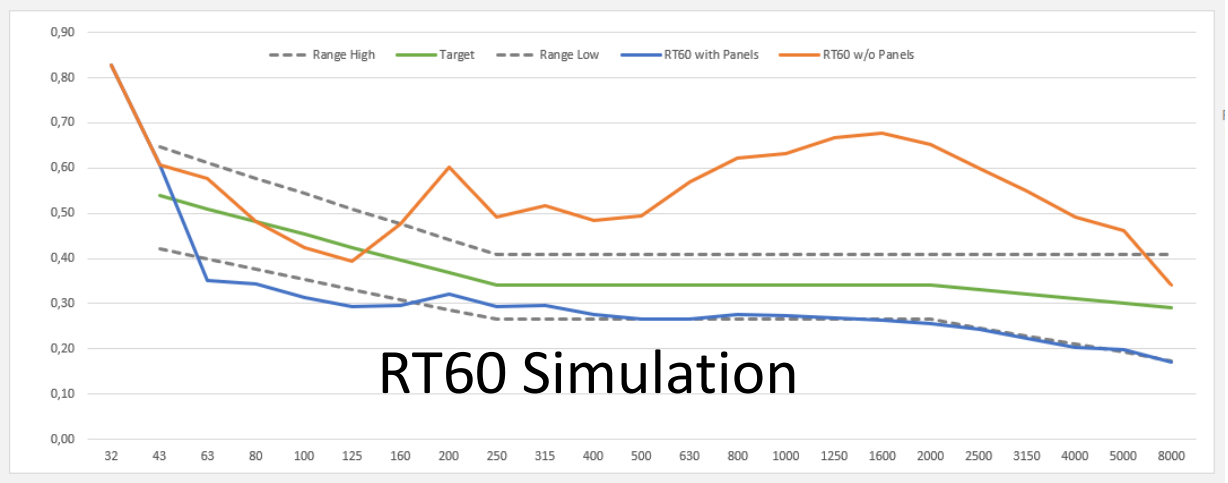
Artnovion
Myriad RCT – Absorber
115x46x4,5cm
hinter einer Stoff-
Wandverkleidung

Beispiel: Stoff-Wandverkleidung



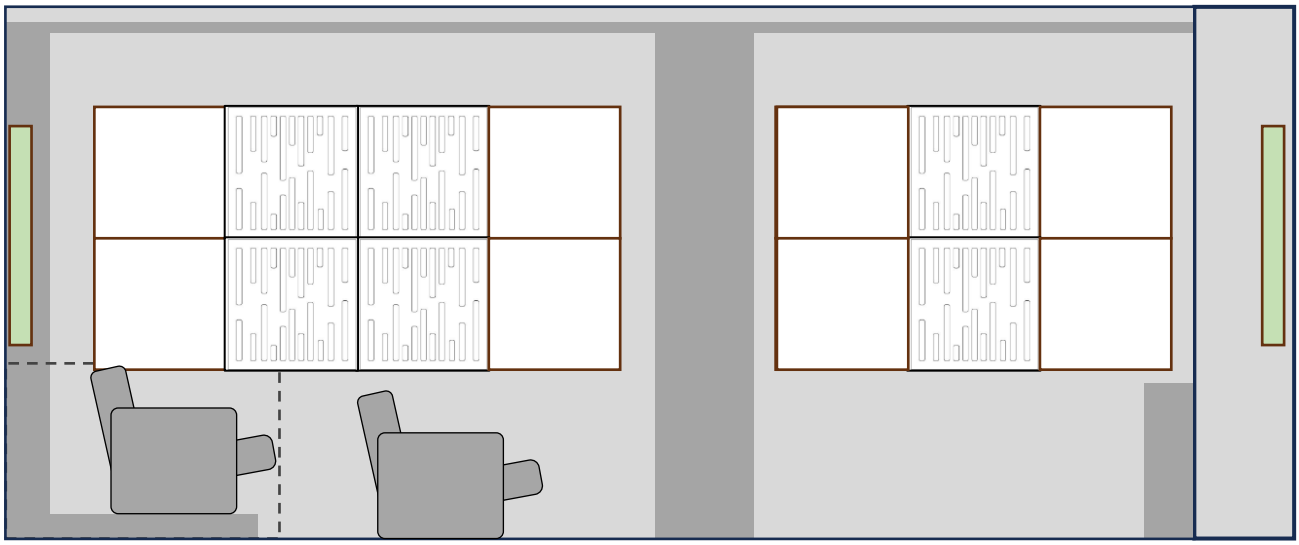
4.6 *Artnovion* Absorber hinter einer Stoff-Wandverkleidung

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
46																		
47	4641	Music Industry & Broadcast			Absorption			Myriad RCT - Absorber					555	1150	45	Fabric		10
48	7014	Construction			Cover			Stoff-Wandverkleidung					1000	1000	30	Sonderanferti		4

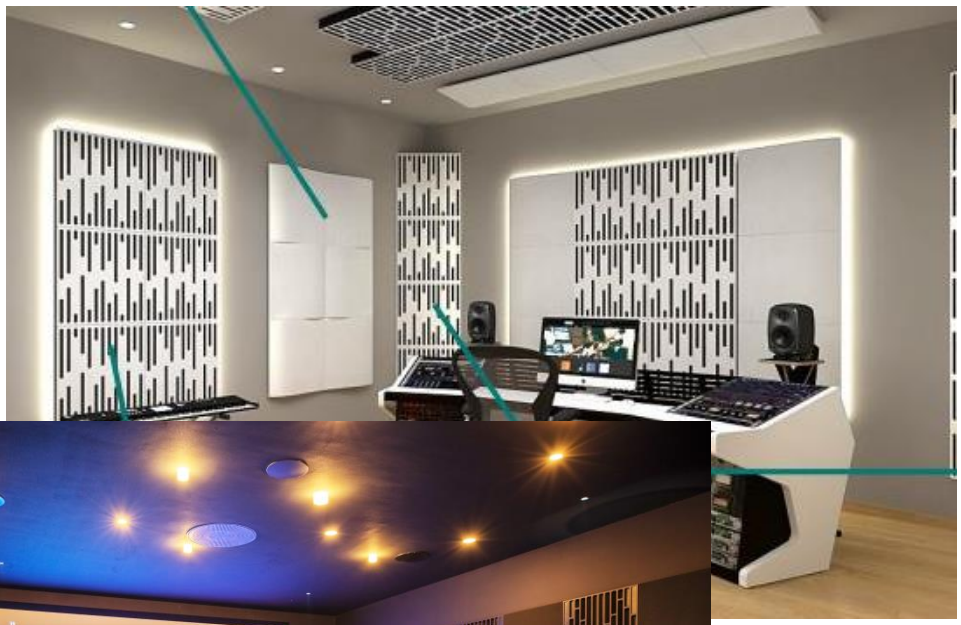


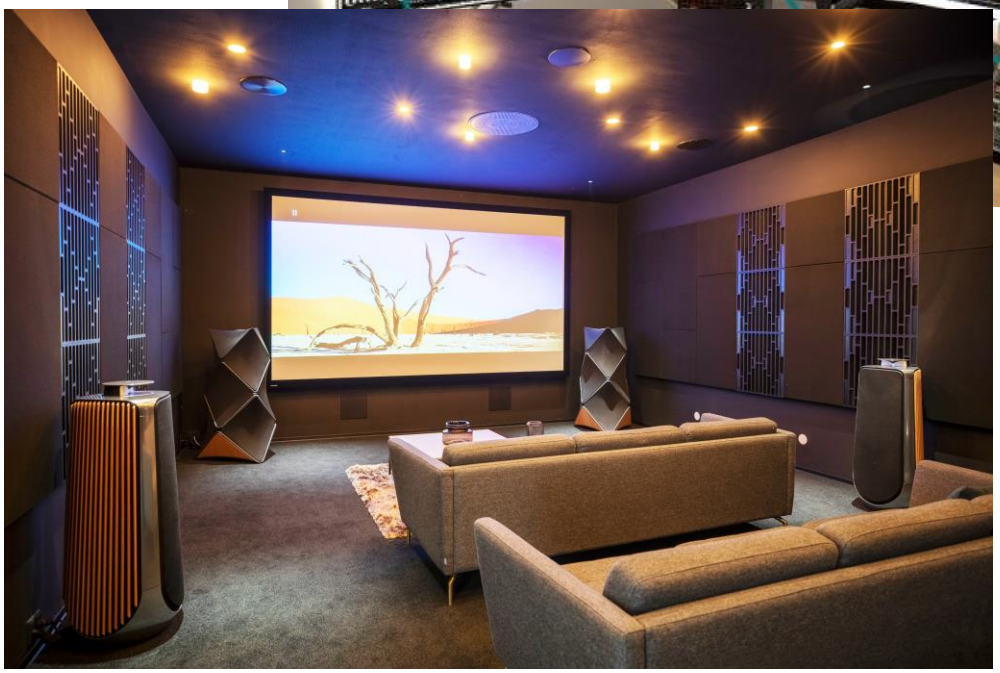
www.hififorum.de

4.7 *Artnovion* Absorber Orion + Andes oder Helen



Artnovion
Absorber Orion
Absorber Andes
Absorber Helen
60x60x9cm

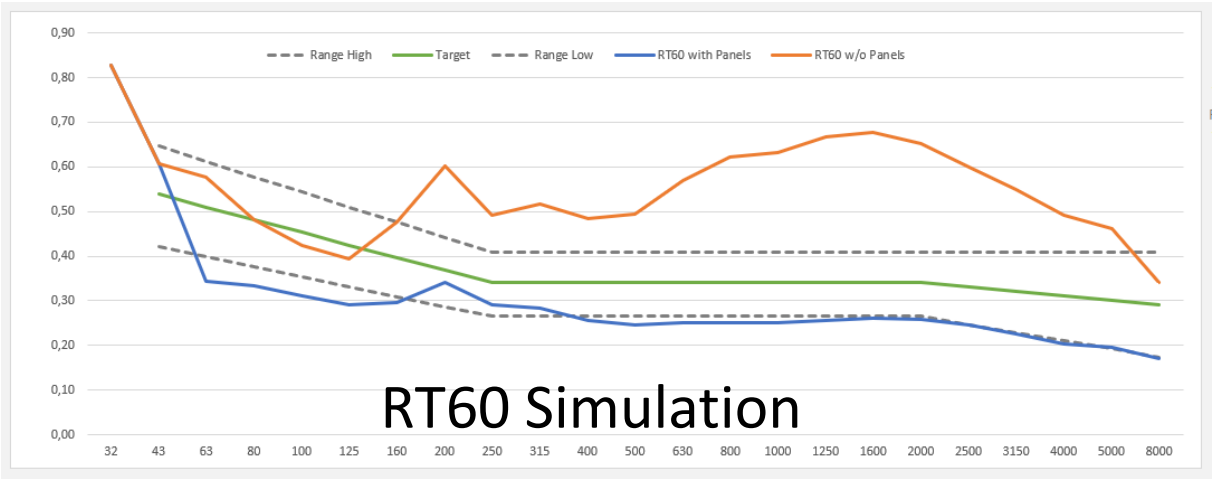




4.7 *Artnovion* Absorber Orion + Andes oder Helen

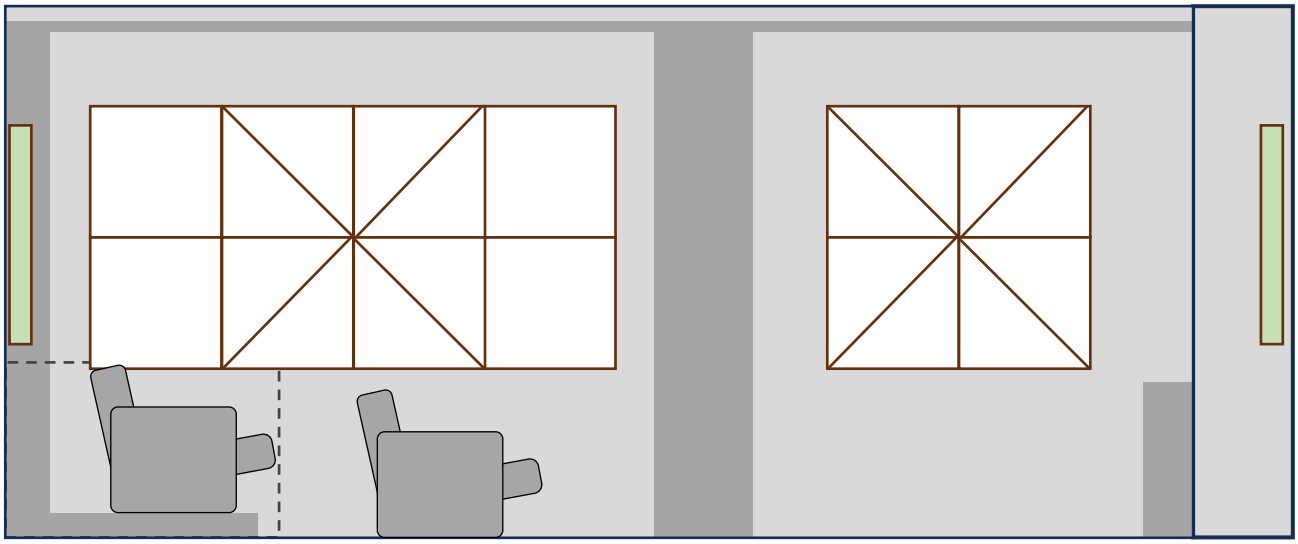
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
46																		
50	5149	Music Industry & Broadcast			Absorption			Orion W - Absorber					595	595	55	Wood		8
51	0066	Music Industry & Broadcast			Absorption			Andes - Absorber					595	595	88	Fabric		12

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
52																		
53	5149	Music Industry & Broadcast			Absorption			Orion W - Absorber					595	595	55	Wood		6
54	3091	Hi-Fi & Living Room			Absorption			Helen SQR - Absorber					595	595	39	Fabric		12



www.hififorum.de

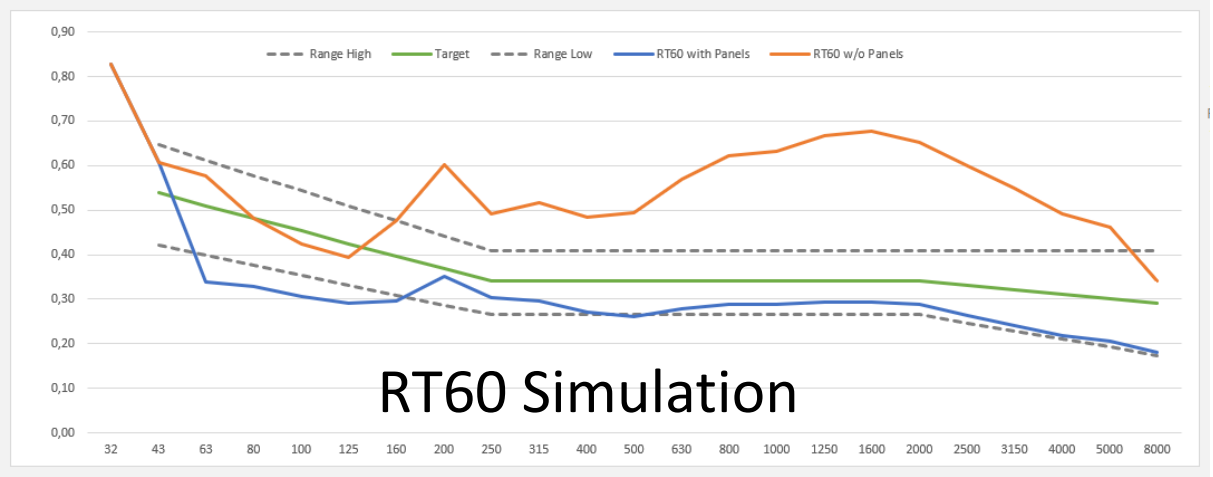
4.8 *Artnovion* Absorber Core + Cover Valley oder Helen



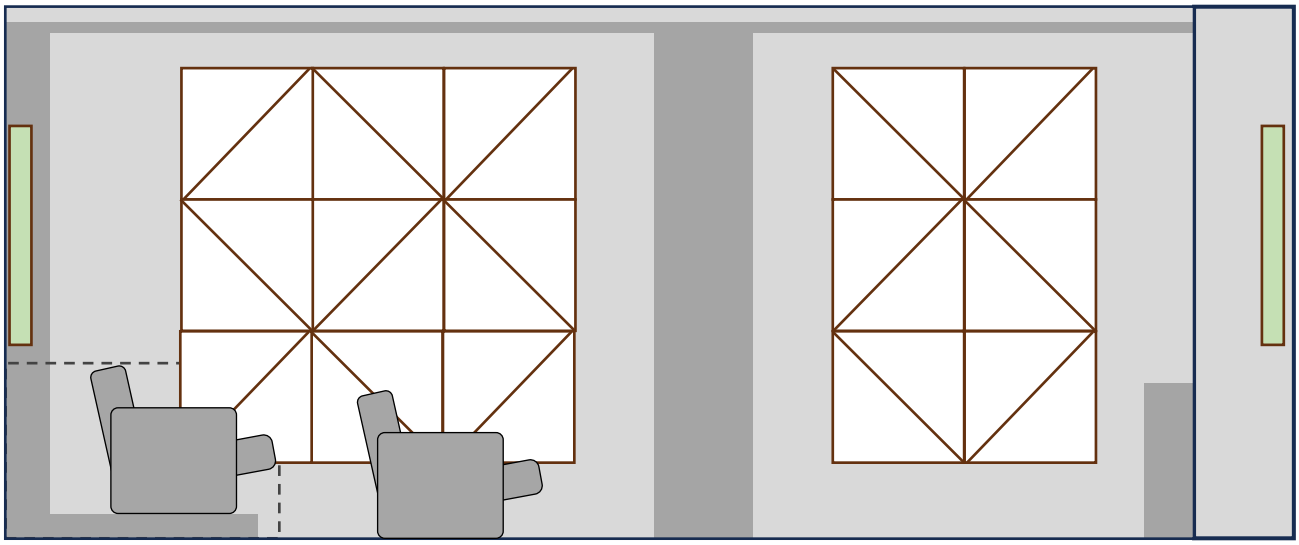
Artnovion
Absorber Core + Cover
60x60x7cm

4.8 *Artnovion* Absorber Core + Cover Valley oder Helen

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
52																		
56	0001	Home Cinema & Media Room			Core			Absorber Core					591	591	40			16
57	3002	Home Cinema & Media Room			Cover			Helen CS					595	595	16			4
58	6201	Home Cinema & Media Room			Cover			Valley CS					595	595	72			12



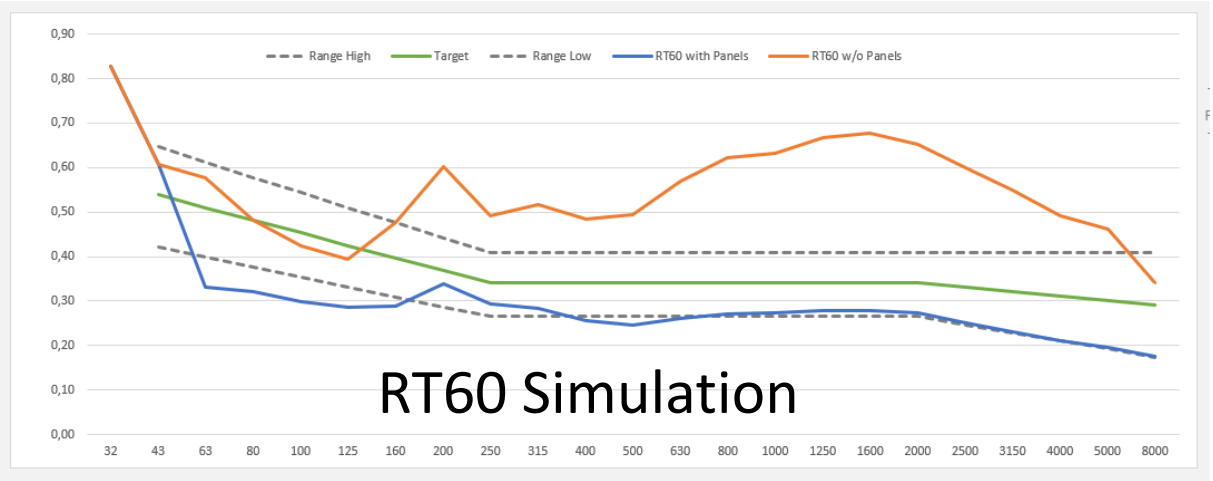
4.9 *Artnovion* Absorber Core + Cover Valley

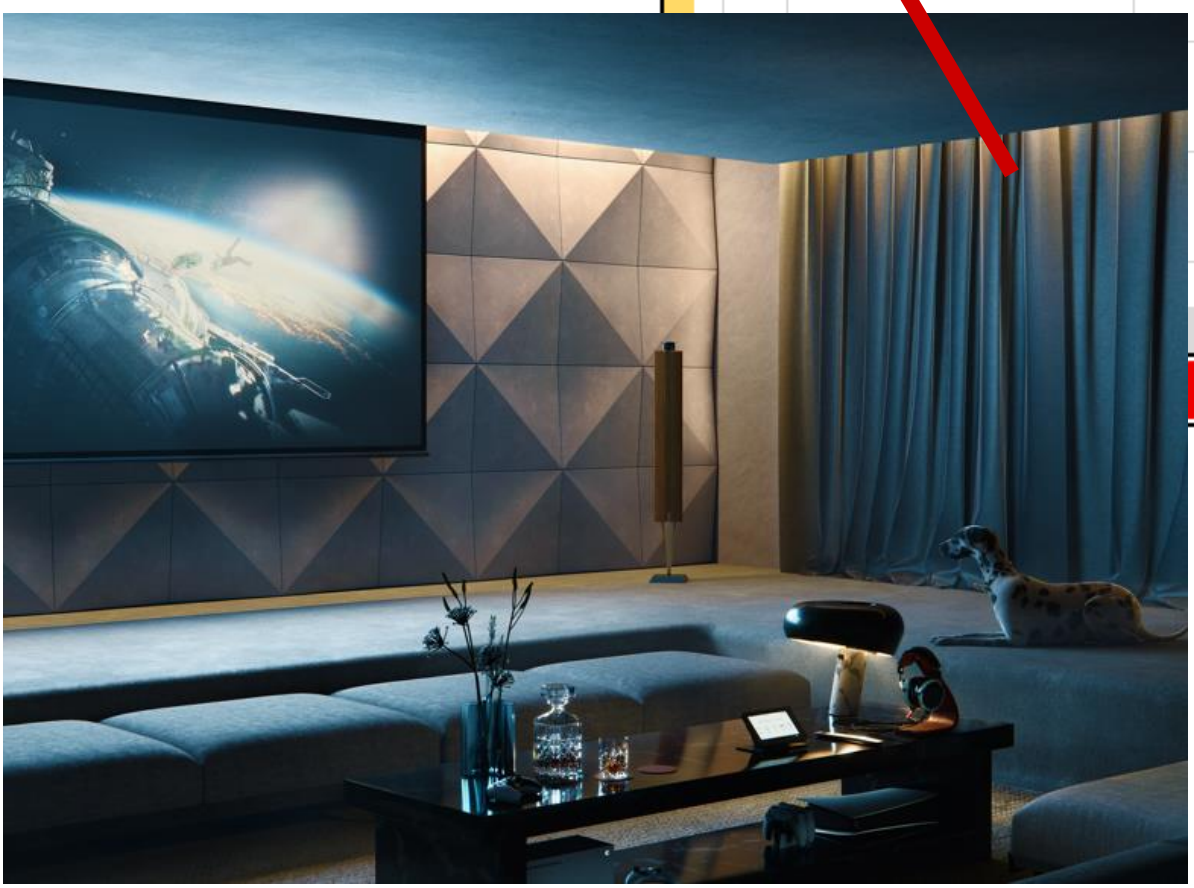


Artnovion Absorber Core + Cover
60x60x7cm

4.9 *Artnovion* Absorber Core + Cover Valley

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
42	ID	CATEGORY			SUBCATEGORY			PRODUCT					L	W	T	FINISH TYPE		QUANTITY
43	7001	Construction			Absorption			Teppich 6,0 mm					1000	1000	6	1000x1000x6m		10
44	8020	Construction			Absorption			Trinnov Waveforming Bassabsorber					600	400	400	Black		2
45	8018	Construction			Absorption			Basotect G+ 100mm					1000	500	100	100x50x10cm		10
52																		
60	0001	Home Cinema & Media Room			Core			Absorber Core					591	591	40			21
61	6201	Home Cinema & Media Room			Cover			Valley CS					595	595	72			21



www.hififorum.de

5.1 Vorhang - elektrisch