

## SYSTEM INTEGRATION SCHEME BOOK

# System integration proposal

uandksound- Home theatre specialist design company from the UK

## What is the design of uandksound?

## **Covers the following:**

Home theater series certification specification

Room acoustic design and system debugging

Specializing in planning and installing home electronic systems

The most important professional video design

THX

01

HAA

02

CEDIA

03

PMI

04



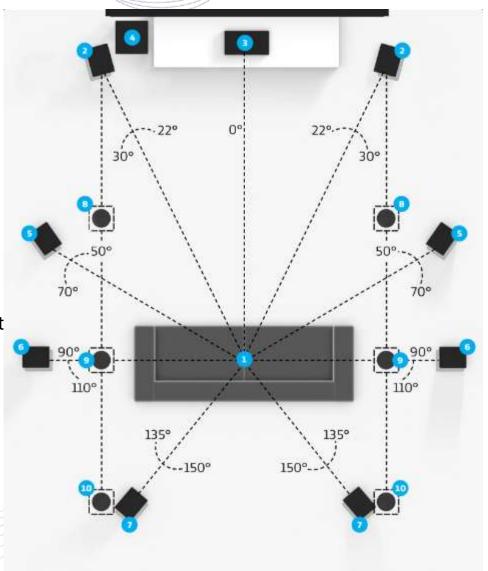






#### Problem points to consider when designing a AV room

- Whether the room size conforms to THX optimal acoustic ratio
- 2. Estimate the best orientation for the room and determine what improvements need to be made
- 3. Room sound insulation
- 4. Determine the number and location of seats
- 5. Determine the curtain size
- 6. Reduce the problem by using subwoofer placement
- 7. Curved front wall barrier wall
- 8. Determine the surround speaker
- 9. Determine the front width increase
- 10. Identify the sky speaker
- 11. Determine the acoustic treatment strategy
- 12. Modeling design



## uandksound Proposal list

0	directory	PL-00
0	Original plan	PL-01
0	Area size drawing	PL-02
0	Damping and sound insulation drawing	PL-03
0	Acoustic insulation treatment	PL-04
0	Wall diagram	PL-05
0	Detail drawing of damping section	PL-06
0	Soundproof door sample	PL-07
0	Screen size drawing	PL-08
0	Curtain and sofa design plan	PL-09
0	Dolby Panoramic Sound 9.1.6 Plan standard layout	PL-10
0	Speaker point layout	PL-11
0	Weak current layout	PL-12
0	Strong current layout	PL-13
0	Weak current distribution map	PL-14
0	Strong and weak current elevation	PL-15

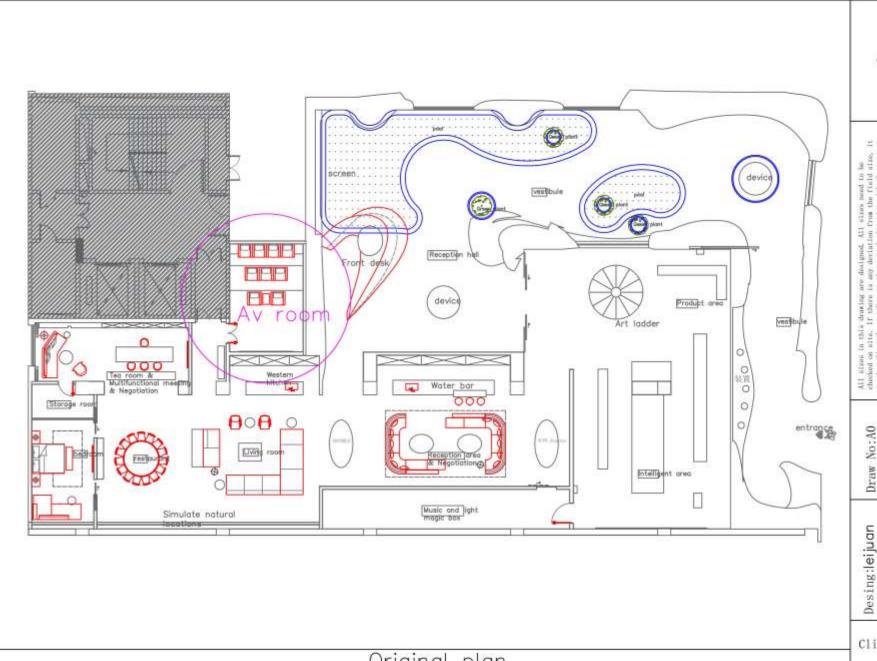
0	Device connection diagram	PL-16
0	Smallpox layout plan	PL-17
0	Ceiling damping layout	PL-18
0	Plane index chart	PL-19
0	Elevation of front wall	PL-20
0	Dolby Panoramic acoustic elevation	PL-21
0	Elevation of right wall	PL-22
0	Acoustic material interpretation diagram	PL-23
0	Acoustic material interpretation diagram	PL-24
0	Acoustic damping elevation of right wall	PL-25
0	Acoustic shock absorption elevation of rear wall	PL-26
0	Elevation of the left wall	PL-27
0	Acoustic damping elevation of left wall	PL-28



All sizes in this drawing are designed, All sizes meed to be checked on site. If there is any devintion from the field size, I can be adjusted according to the actual situation with the consenct the designer.

Desing:leijuan Draw No:A0

Draw:leijuan Scalie: 1:1

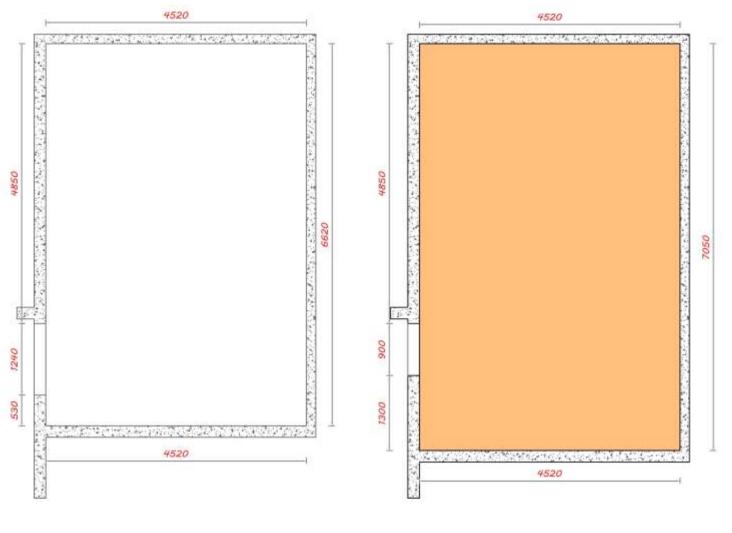




Scalie: 1:1 Draw No:A0 Date: 22/03/29 Approved:Micheal Draw:leijuan

Client Approved PL-01

Original plan



The optimal ratio of THX acoustic room is 1.6:2.5, which can effectively reduce the standing wave phenomenon in the room. Suggestion 1: Change the room door to 900mm and use professional soundproof doors

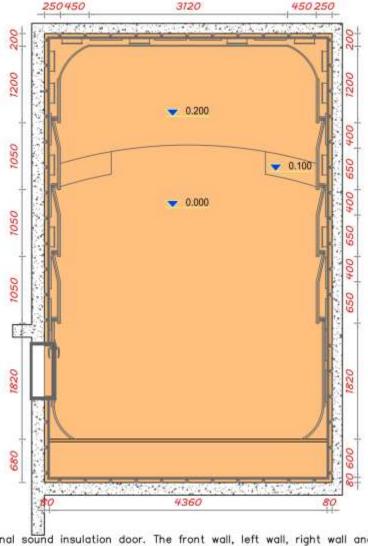
Suggestion 2: Adjust the size of the room 4520mm\*6620mm to 4520mm\*7050mm close to the proportion requirements, suitable for making a video room

Video room area: 31.8m2

Area size map

0.65	28
- 3	8
9.75	- 6
# 2	-
-0.75	8
7.3	T-1
	-
20.00	45
need Tr	
- 4	-61
5 T	8
N B	144
저 를	+4
225.47	. R
= -	44
44. =	144
7 0	W
	det.
10 2	2
	2
S-1	ţ.
	3
15	A
3.5	to the a
- 3	45
3 4	
5 M	. 2
7.74	+
33	rding t
16.54	=
- 3	====
8.0	200
25	- 12
36.34	9
- 20	8
700	A
12:3	医数
-	3 3
G 5	To 12:
44	3.4
· · · · · · · ·	공호
2 0	8 ~
200 TO	1000
22:5	포함
	-2.45
- 3	= 7
+4.4	10 mm
M. U	0.0

Desing:leijuan Draw No:A0 con becon becon



The entrance door is made of professional sound insulation door. The front wall, left wall, right wall and back wall are installed with wall shock absorber and environmental sound insulation filling cotton, which can maximize the effect of shock absorption and sound insulation, so as not to affect the experience of other areas

The four walls are equipped with acoustic design, and the front wall is pasted with German imported sound—absorbing material: Basf Basotect G to absorb the reflected sound of the main box of the front wall to the maximum extent to avoid interference with direct sound waves. The left wall, right wall and back wall are designed with 2D and 3D diffusion plates, which are stuck with German imported sound absorbing materials: Basf Basotect G, which can better show the surround effect of Dolby panoramic sound and absorb standing waves, so that the cinema effect is at the top level

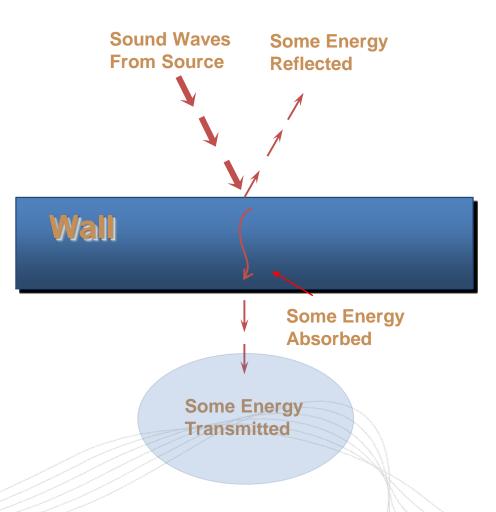
Damping and sound insulation drawing

in this drawing are dosigned. All sizon meet to be alto. If there is any deviation from the field size, it usted according to the actual situation with the consent igner.

Desing:leijuan Draw No:A0
Draw:leijuan Scalie: 1:1
Approved:Micheal Date:22/03/29

## **Principle of sound insulation**

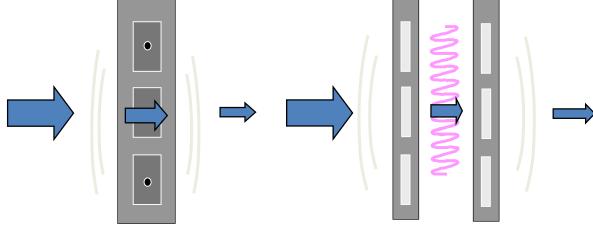
Principle: When the sound is transmitted to the wall, part of the sound energy will be reflected, part will be absorbed by the wall, part will pass through the wall, and the part through the wall will affect other areas, need to be minimized



Wall

## The method of sound insulation - wall

Methods: Sound energy can be converted into mechanical energy and then into heat energy for consumption by using shock absorber

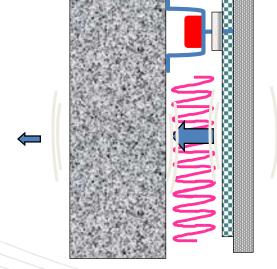


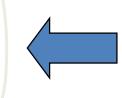


Wall

120mm 55dB Volume isolation

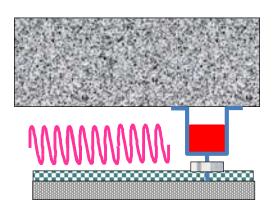
Wall



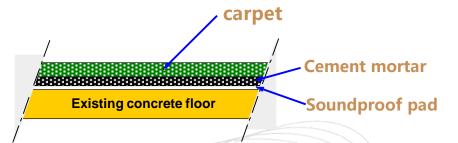


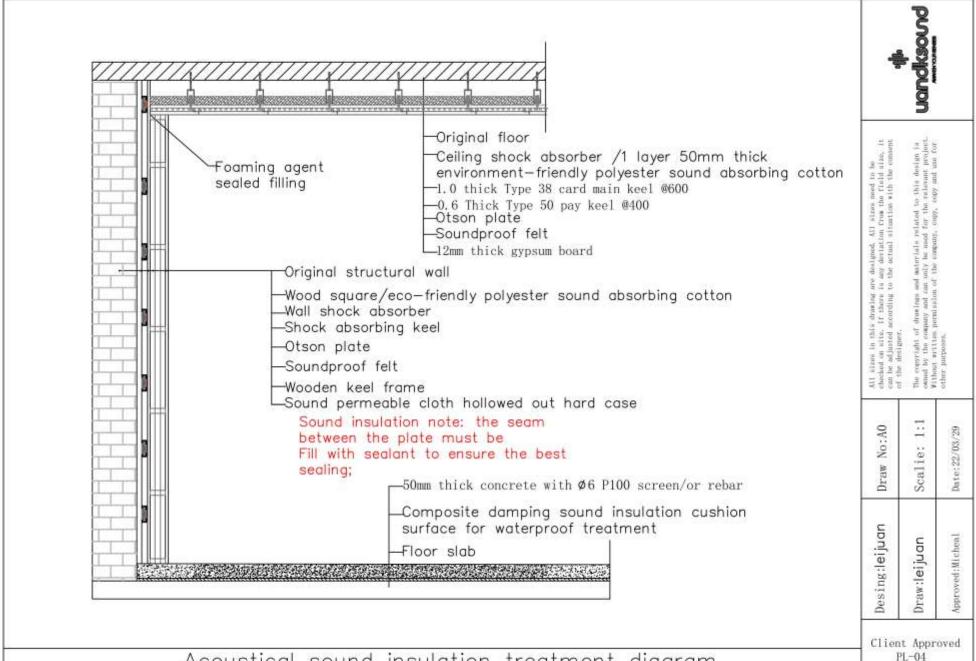
## The method of sound insulation - ceiling and ground

**Suspended ceiling structure** 

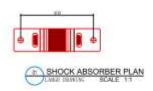


**Ground sound insulation** 





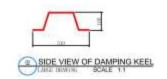
Acoustical sound insulation treatment diagram





Elastic shock absorber member





Elastic shock absorbing keel

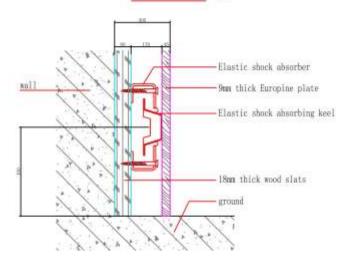
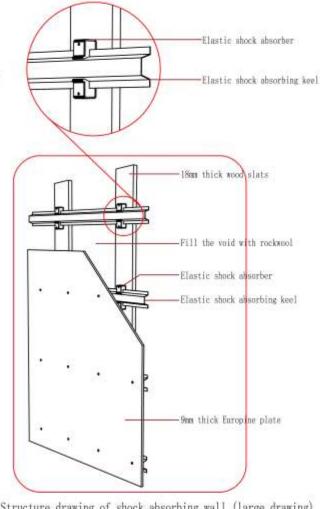


Diagram of elastic damping node

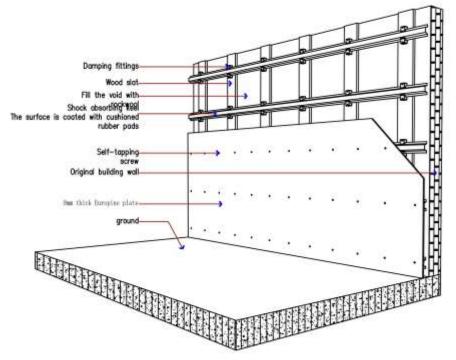


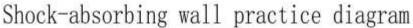
Structure drawing of shock absorbing wall (large drawing)



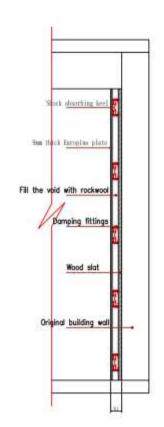
The expeciant of drawings and materials related to this design is sensed by the company and can only be used for the relevant prejec-
ials related to this design a used for the relevant pred
ials related to this design a used for the relevant pro
ials related to this desi- e used for the relevant pr
ials related to this des a used for the relevant
ials related to this de a used for the relevant
ials related to this a e used for the relevan
ials related to this a used for the relev
ials related to this e used for the rela
ials related to the re-
ials related to a used for the r
ials related to a used for the
ials related a used for th
lals related a used for t
ials relate a used for
ials rela-
lats rel
lals re bosn o
fals r
dals an o
3 5
-2 0
1.0
3 -
15 00
8.5
- 9
6 =
4:3:
* 4
8.70
5.5
2.3
4.5
P 8
= 0
+0.0
20
25.42
20 H
5
5.2
9.00
2.2
2.0
五星

Scalie: 1:1 Draw No:A0 Date: 22/03/29 Desing:leijuan Approved:Micheal Draw:leijuan





Note: After the wall is leveled, the woodworking board vertical bar is fixed on the wall, the spacing is 500mm, the woodworking board is cut into 100mm wide vertical bar is fixed on the wall, the damping keel and accessories are fixed on the vertical bar, the keel is 2mm cushioned rubber pad, and then the keel is nailed with 9mm Europine board.



# nandksoud

All stars in this drawing are dosigned, All stars need to be checked on site. If there is any deviation from the field size can be adjusted according to the actual situation with the or of the needges.

Draw No:A0 control of the process of the parameters of the paramet

Detail drawing of damping section

#### glottis

The way of sound wave transmission through the door is mainly door and door crack, therefore, to obtain a high sound insulation glottis must start from the above two aspects.

- 1, improve the door door sound insulation
  In order to ensure that the door closure is light and flexible, it is not possible to excessively use the method of increasing the door fan rearrange to obtain a higher volume of insulation can be used with different sound resistance to make material group composite multilayer composite structure door fan.
- 2. Improve the sealing measures of the door seam.

  The influence of door crack on sound insulation quantity is the variation of sound insulation quantity when different sealing methods of door crack are used on the same diaphragm door.

Structure: sound insulation layer + mechanical layer + flame retardant layer + decorative layer + closed structure



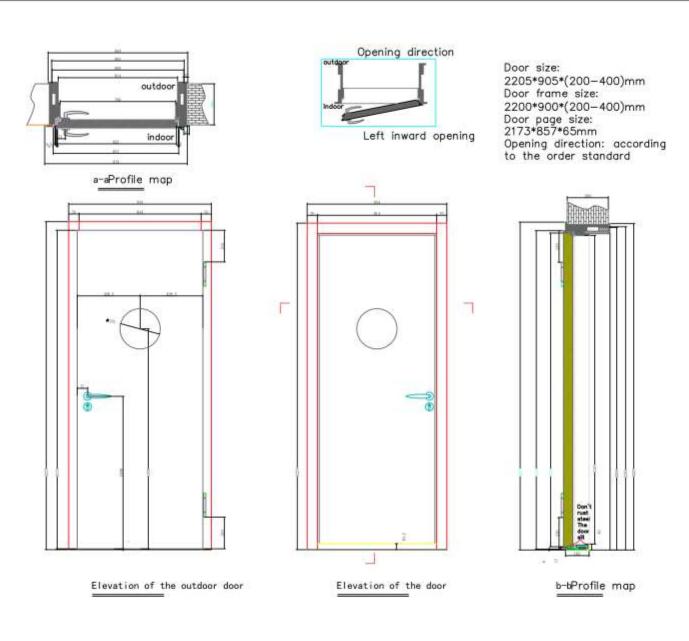
G68S商用隔声口



42dB

录音棚・器乐房・影音室 Rocording studio・Instrumental classroom・Home Theatre

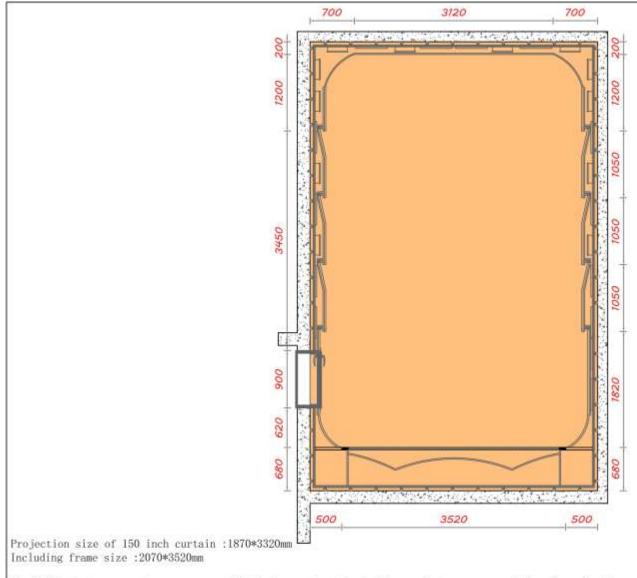
> 声博士出品 Produced by Soundbox



andksond

All sizes to this drawing are designed, All sizes meed to the checked on site. If there is any deviation from the field site, can be adjusted according to the actual situation with the consof the needings.

Desing:leijuan Draw No:A0
Draw:leijuan Scalie: 1:1
Approved:Micheal Date:22/03/29



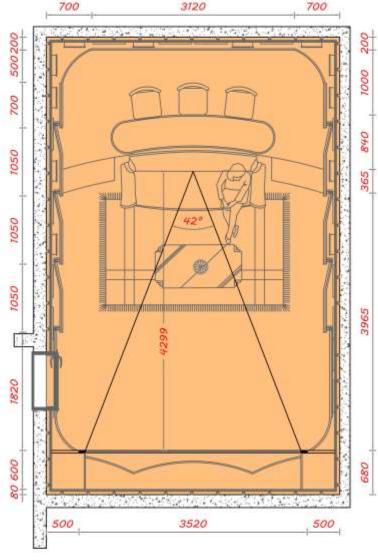
The 150 inch transparent screen can effectively restore the 1:1 large picture sense of the cinema in the space, and achieve shocking visual impact experience in the private space

A high gain surface coating is required for the 150 "sound-permeable screen, which is tested on the projected screen to achieve the IMAX 2D digital film brightness of 22 fL; The IMAX 3D digital movie is 11fL bright

Screen size drawing

	44	120		
	-	Ħ		
	116	ã		
	38	-6		
- 9	-2	-8		
3	100	: =		
-0	-	3		
+4	-	7		
753	-3	-		
: 9:	1	Ŧ		
stron meed to		ion with the o		
	a	-		
- 8	TOR T	-8		
19	- 8	1		
- 30	E	Ħ		
		- 12		
- 5	-	20		
100	ton t	situat		
	=	-		
72	74	setun.		
- 3	7	3		
100	- 2	- 50		
-	.4	.9		
- 3	- 85	女		
-	3	셸		
- 2		-		
- 3	-22	-3		
fing are d		ording to the so		
- 3	-	2		
	19	$\equiv$		
- 3	-53	E		
- 23	then	- 8		
- 75	=	- 3		
-38		9		
n this drop	6	-	5	
140	-	100	9	
16	$\equiv$	Ti.	12	
-44		=	Ξ.	
100	중	70	2	
- 25	ı	4	=	
- 20	3	72	4	
100	-3	£	4	
-	-8	-	71	
世	4	1	+	
-	9	4	9	

0	1:	6
Draw No:AC	Scalie: 1	Date: 22/03/29
Desing:lejjuan	Draw:leijuan	Approved:Micheal



 Viewing distance: 2k video viewing distance: 3 times the height of the picture Viewing distance of 3K video; twice the height of the picture

4K video viewing distance: 1.5 times picture height

According to the height of the picture 1870mm, the best viewing distance is 2805mm-5610mm

2. Video Angle requirement: The optimal viewing Angle of cinema is 28° -52°

According to the above two points of analysis, the screen size and sofa distance perfectly match the design requirements, the maximum viewing screen can be 150 inches curtain

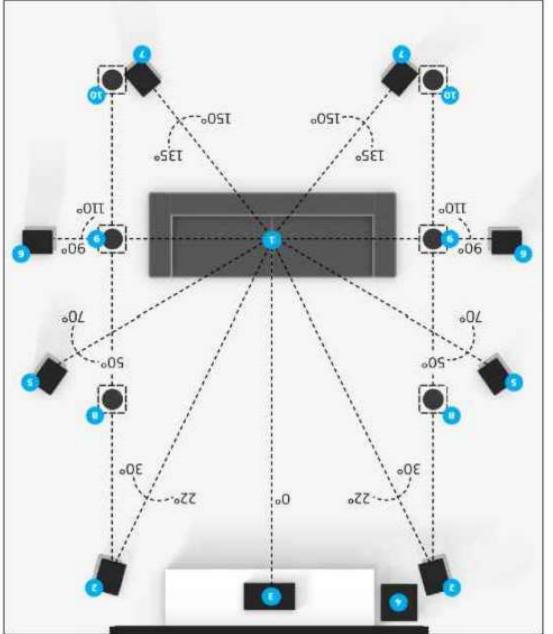
Curtain and sofa design plan

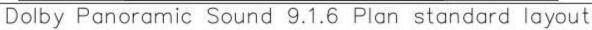
II sizes in this thanking are designed. All sizes meet to be thebade of mice. If there is any declarion from the field size, it and be adjusted according to the actual sizeation with the consens of the designer.

Desing:leijuan Draw No:A0

Draw:leijuan Scalie: 1:1

Approved:Miches! Date:22/03/29





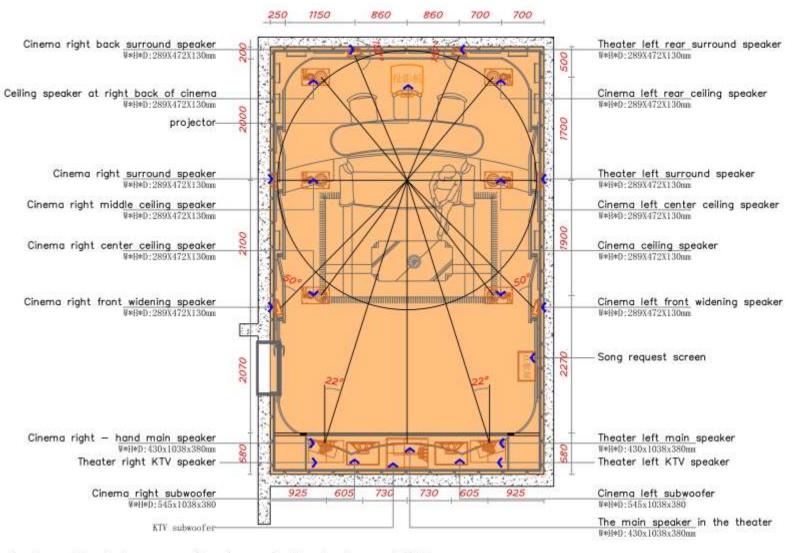


At states it class manage are needed, at states need it see checked on site. If there is any deviation from the field site, can be adjusted according to the actual situation with the cons of the designer.

Desing:leijuan Draw No:A0

Draw:leijuan Scalie: 1:1

Approved:Micheal Date:22/03/29



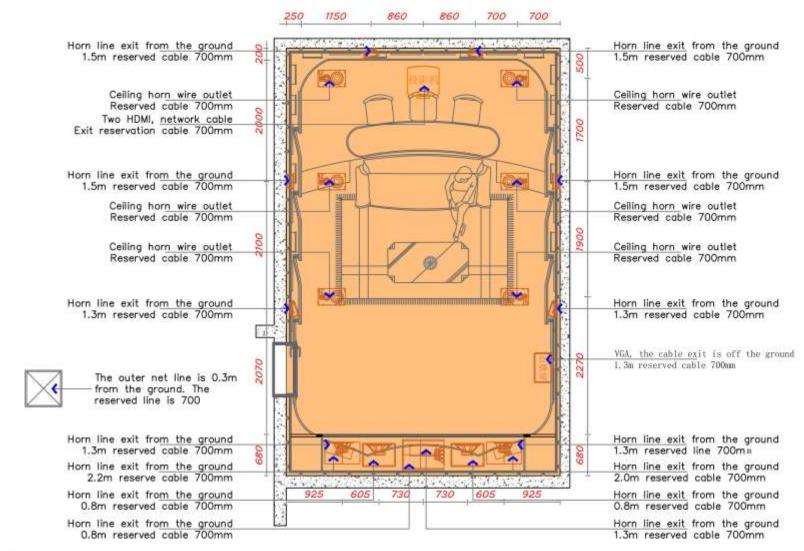
The front and back two rows of sofa are in the best sound field coverage
According to Dolby Panoramic Sound 9.1.6 standard layout. The front wall around the main speaker to the middle offset
22°, the left and right wall around the speaker offset 50°, the back wall around the speaker offset 157° (all offset
speakers need to do support fixed offset speaker), so that the speaker high frequency without loss to the listening area,
to achieve the audio-visual enjoyment of professional theaters

Speaker point layout

# nandksond

All sizes in this drusting are destigned, All Sizes meed to be checked on site. If there is any deviation from the field size, I can be adjusted according to the actual sizention with the conser of the destines.

Draw:leijuan Draw No:A0
Draw:leijuan Scalie: 1:1
Approved:Micheal Dute:22/03/29



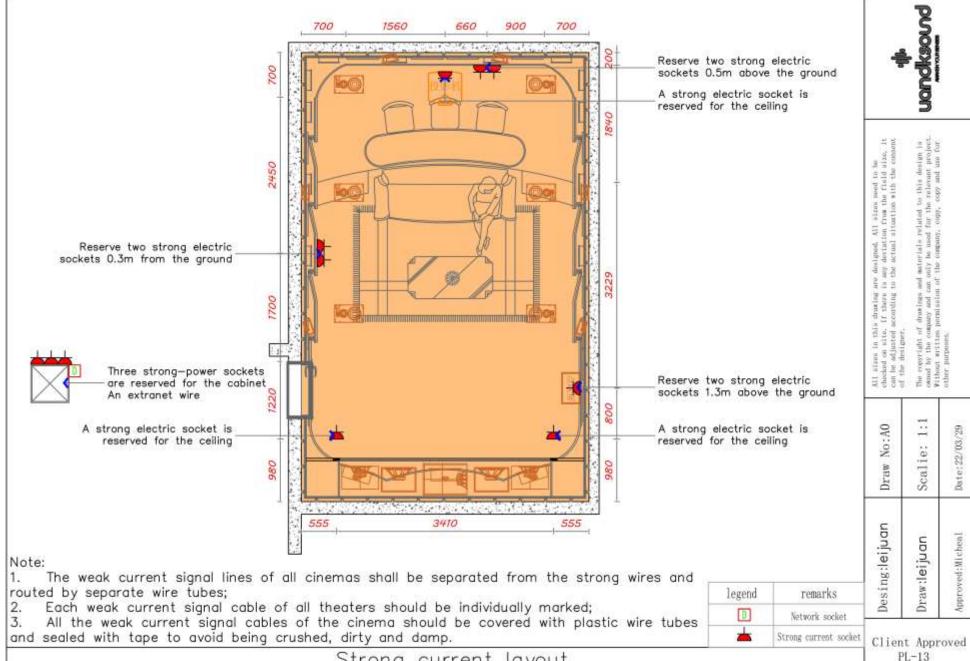
#### Note:

- The weak current signal lines of all cinemas shall be separated from the strong wires and routed by separate wire tubes;
- Each weak current signal cable of all theaters should be individually marked;
- All the weak current signal cables of the cinema should be covered with plastic wire tubes and sealed with tape to avoid being crushed, dirty and damp.

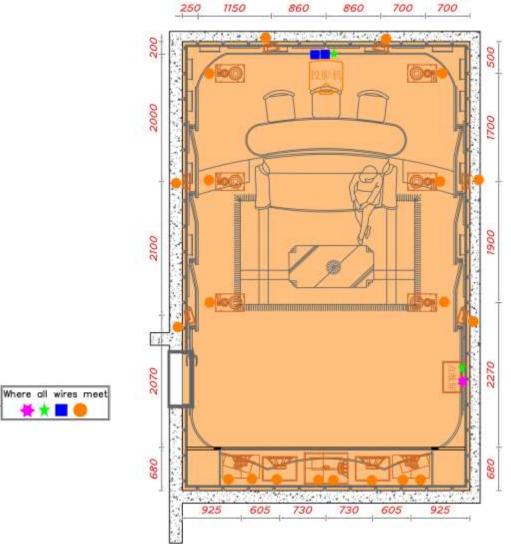
Weak current layout



Desing:leijuan Draw No:A0 can be can



Strong current layout



Note:

The weak current signal lines of all cinemas shall be separated from the strong wires and routed by separate wire tubes;

Each weak current signal cable of all theaters should be individually marked;

All the weak current signal cables of the cinema should be covered with plastic wire tubes and sealed with tape to avoid being crushed, dirty and damp.

Weak current of	distribution	map
-----------------	--------------	-----

- 13	6.19		
	• 0		
	. 0		
# 1			
777			
	. 10		
17.0	4.16		
100	9.70		
or peed	4		
70	4 . 17		
- 60 %			
	- 12		
- 11. 9			
- 4			
II sizes need to h	- 6		
- 00	- 75		
0.00			
0.00 1 1			
0.00			
	situa		
	4 10		
986	100		
Anna m			
	5 TZ		
-	2 M		
	octuni s		
1 4 4			
- 125 - 2	1 12		
3.50	-		
20.7	- 6		
25.0	- =		
1987			
	2 - 20		
16.			
- 6 +	L - +1		
0.00	7.25		
	21.454		
	1 - 0		
1,775.7	- 7		
aring are d	according to the o		
236.4			
brokin	. =		
	5		
100	5 70		
- CH - T	1.15		
	~ =		
-51	0.9		
10.0	- 9		
- Table	4 10		
- 30	- 0		
this dra	ted a		
125.1	-	- 6	
49.5	4 194	-59	
	- 2	- 32	
100		-	
1.000	10.0	101	
440	-		
	. =	100	
- 3	od lus	- 45	
100	7.72	. 60	
200	- 47	-	
26. 75	- R		
0.00		. 4	
1000	: 30	- 31	
4	-	46	
3 3		44	
100	. =		
444. 2	- 12	-	
160			
	2 · U	-0	
	. 0	0	

	Draw N	Scalie	Date: 22
mark	leijuan	ijuan	Micheal
1110	50	0	포
9	- =	36	é
	Des	Dra	Appr
*	===		_ 3
	mark	*	Pesing:leijuan Draw N

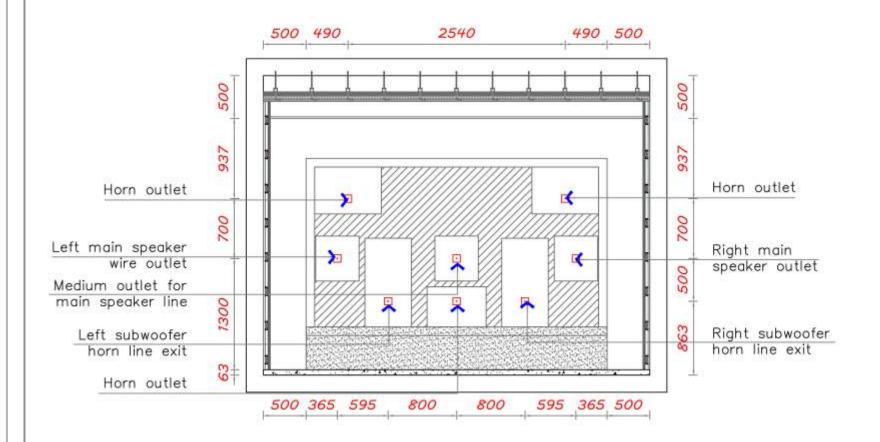
name

HDMI

VGA cable

Mode

No:A0



#### Note:

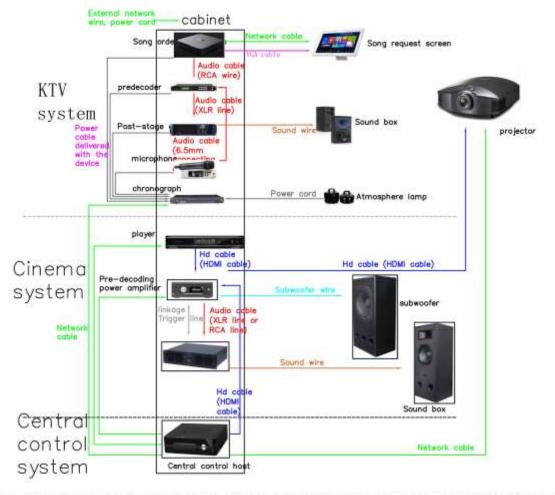
- The weak current signal lines of all cinemas shall be separated from the strong wires and routed by separate wire tubes;
- 2. Each weak current signal cable of all theaters should be individually marked;
- All the weak current signal cables of the cinema should be covered with plastic wire tubes and sealed with tape to avoid being crushed, dirty and damp.

Strong and weak current elevation



All stans in this drawing are designed, All stans meet to be checked on site. If there is any deviation from the fluid size, can be adjusted according to the actual situation with the come of the designer.

Desing:leijuan Draw No:A0
Draw:leijuan Scalie: 1:1
Approved:Micheal Date:22/03/29



- 1. The cabinet is required to pull out the external network cable and reserve power sockets (the quantity and specific positions are subject to the drawings).
- Connect two HDMI cables from the cabinet and one network cable to the video display terminal (the specific position and reserved length are based on the drawings). Reserve a power socket for the video display terminal
- Lead the sound box cable from the cabinet to the point of the sound box (the specific quantity, reserved length and position are subject to the drawing, and each sound box needs to lead a separate line)
- Lead the subwoofer wire to the subwoofer sound box at the cabinet, and reserve a strong electric socket at the subwoofer (the specific position and reserved length shall be subject to the drawing identification).
- 5. Connect the network cable and YGA cable from the cabinet to the song request screen (the specific position and reserved length are based on the drawing). The power supply must be reserved for the song request screen.
- The power supply of the KTV atmosphere lamp is led to the cabinet

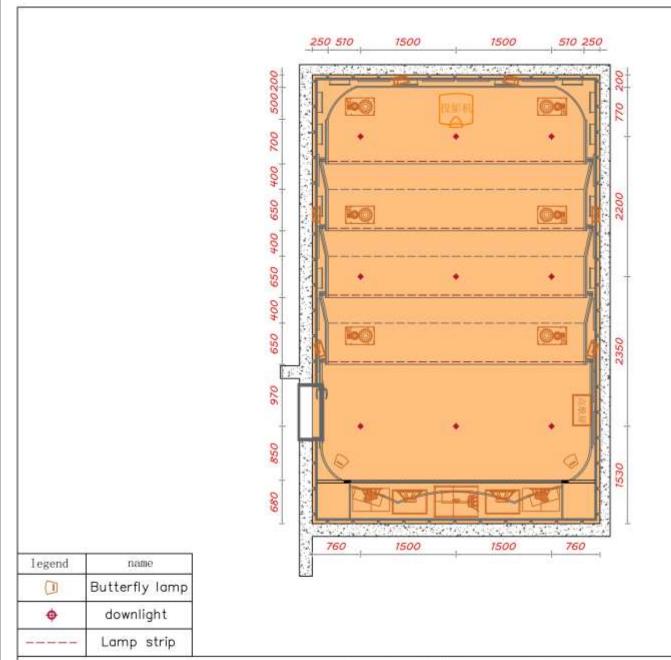
All SERVE in This drawing are designed, All Sezon mond for be checked on site. If there is any derintion from the field size, of the recipier, site adjusted according to the actual structure with the context of the needigner.

The recorded of drawings and materials related to this design of

Desing:leijuan Draw No:A0 con off the Scalie: 1:1 The Open own of the Approved:Micheal Date:22/03/29

Client Approved PL-16

## Device connection diagram



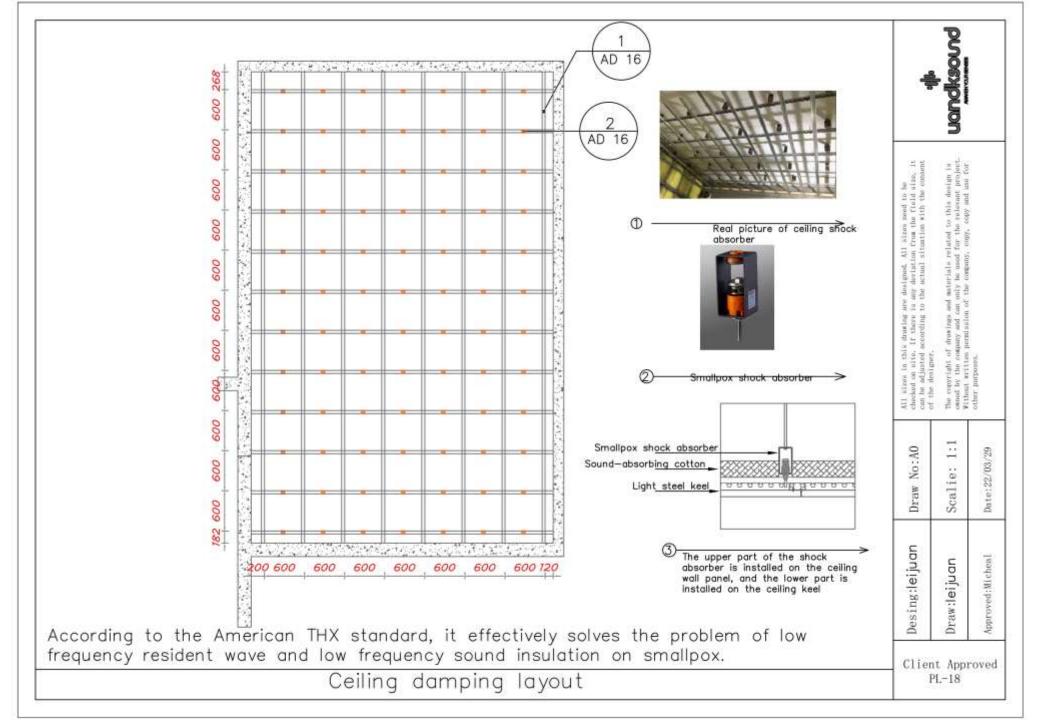


At sense in this carmains are needing, At sector need in the checked on mice. If there is any derintion from the field size, can be adjusted according to the actual situation with the const of the Hesigner.

Desing:leijuan Draw No:A0
Draw:leijuan Scalie: 1:1
Approved:Micheal Date:22/03/29

Client Approved PL-17

Smallpox layout plan

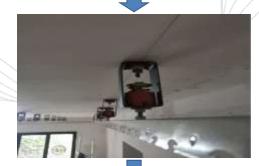




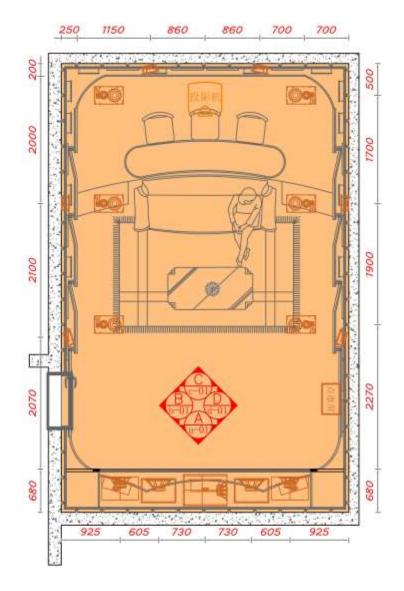
Legend of ceiling or wall construction site





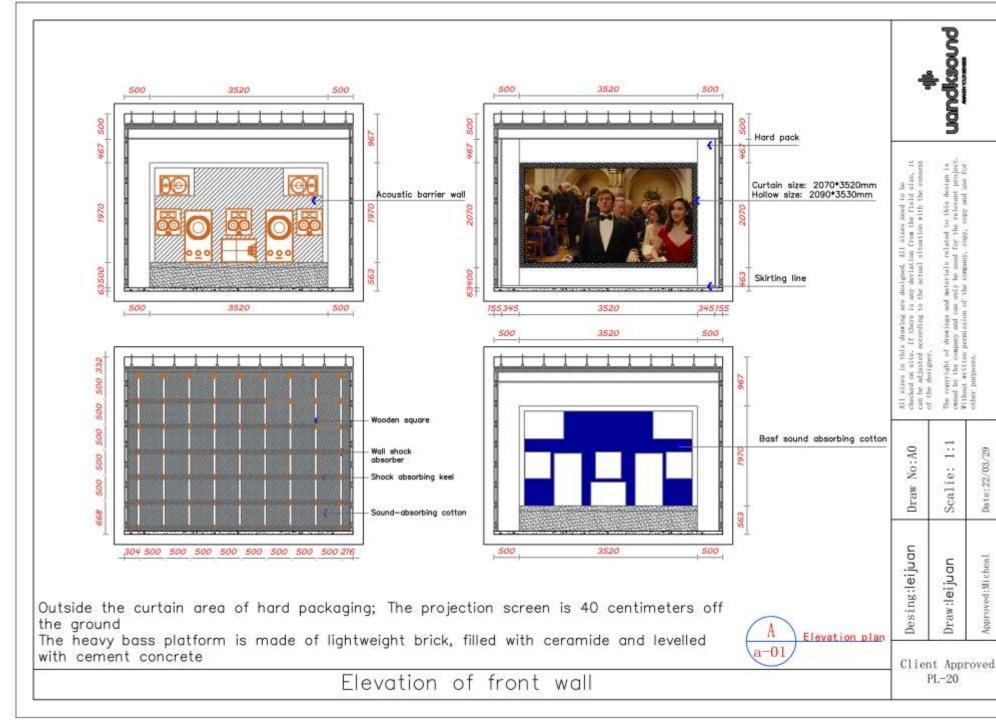


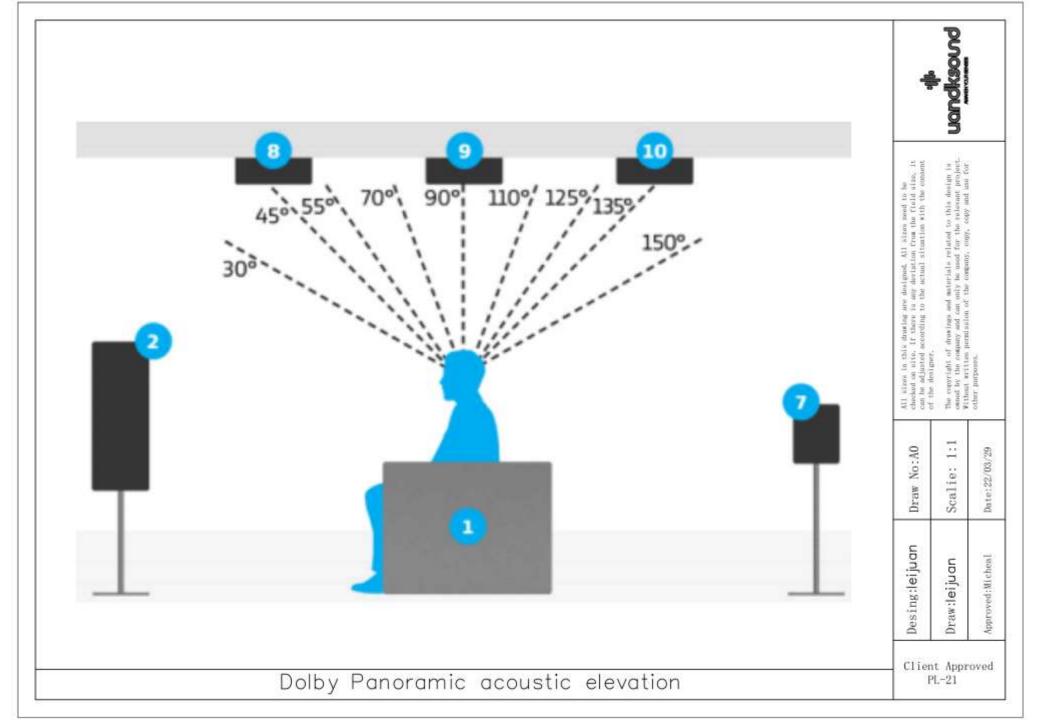


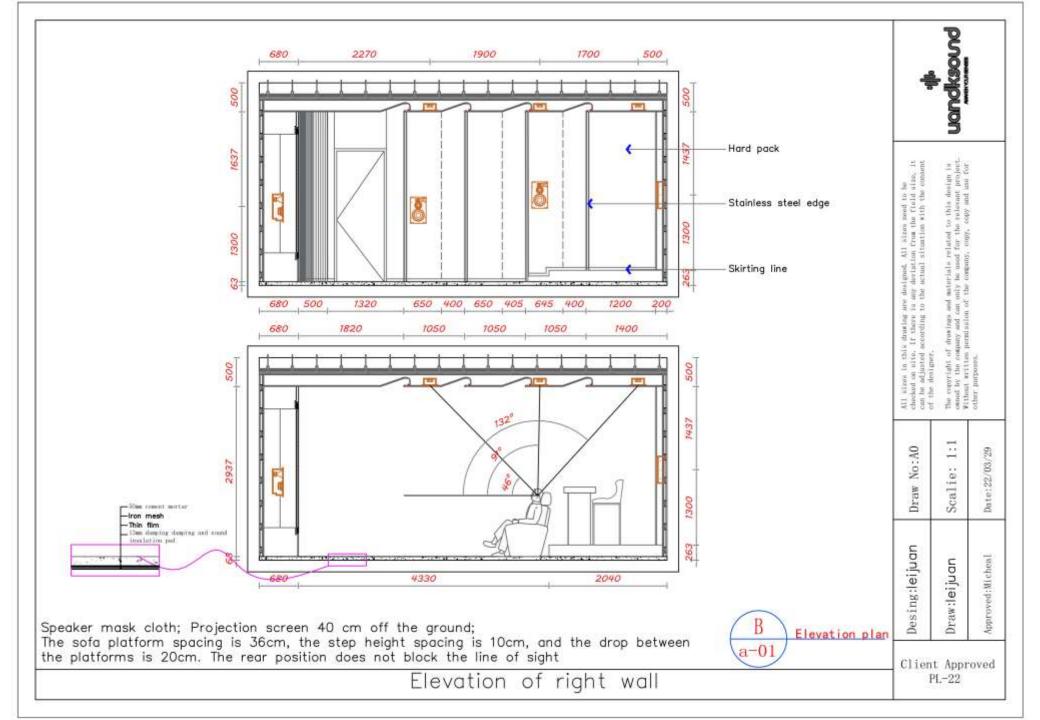




All states in Table strated are doubted. All states need to ne checked on site. If there is any deritation from the feel size, can be adjusted according to the actual situation with the connect of the designer.









# Space construction sound content covers

Sound absorption

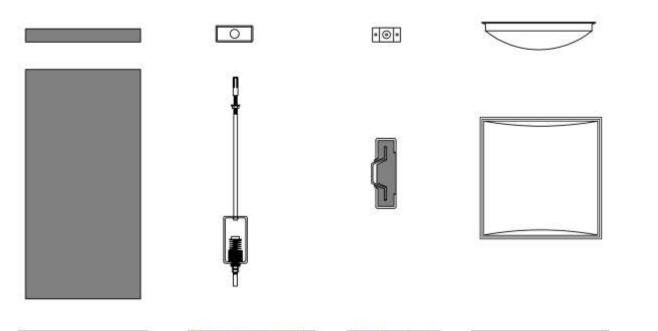
The effect of converting sound energy into heat energy after sound enters a porous material or causes a plate to vibrate in a flexible deformation.

2 Diffuse Acoustic Filed

When enough normal modes are excited in a closed space, the different modes have their own specific propagation directions, so that the sound wave reaching a certain point includes various possible incidence directions.

3 reflex

When sound waves travel to different substances, they change their direction at the interface and return to the original substance. The reflection of the original wall of the audio-visual space is superior to other reflective layers.



Bast Basotect

Sound absorbing material, according to the THX standard of the United States in the video space in accordance with 25% sound absorption processing.

Smallpox shock absorber

According to the American THX standard, it effectively solves the problem of low frequency resident wave and low frequency sound insulation in the video and audio space.

Wall shock absorber

According to the American THX standard, it effectively solves the problem of low frequency resident wave and low frequency sound insulation in the video and audio space. 20 diffuser plate

According to the American THX standard, the front wall can effectively radiate the sound directly to the listening area in the video and audio space (according to the American PMI standard in the spatial layout).

According to THX standard 2D, 3D diffusion plate space area of 25% 3D diffuser plate

According to the American THX standard, acoustic waves can be effectively reflected in the listening area in the video and audio space, so that the listening area can create a strong sense of space (according to the spatial layout of the American PMI standard).

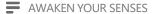
According to THX standard 2D, 3D diffusion plate space area of 25% # nandksoud

All sizes in this drawing are designed, All sizes need to be checked on site. If there is any derintion from the field six can be adjusted according to the actual struction with the or of the feeligner.

Desing:leijuan Draw No:A0
Draw:leijuan Scalie: 1:1
Approved:Micheal Date:22/03/29

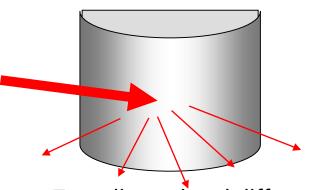
Client Approved PL-23

Acoustic material interpretation diagram

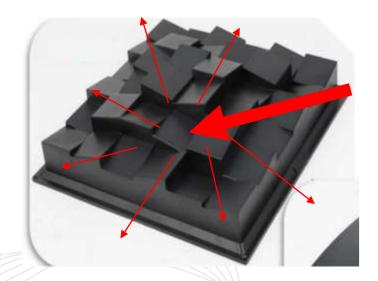


#### **Acoustic treatment - diffusion plate**

- Two-dimensional diffusion can make reflected sound wave form sector diffusion
- Used in the front half of the side wall of the room to diffuse the sound waves emitted by the front speaker
- Three dimensional diffusion makes spherical diffusion of sound waves
- Used in the back of the room to diffuse the sound waves emitted around the speakers



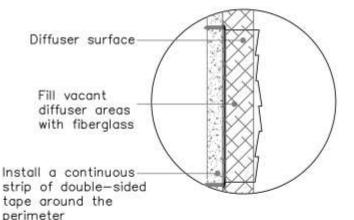
Two-dimensional diffuser

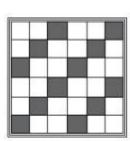


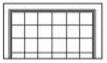
Three-dimensional diffuser

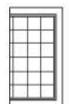
#### Instructions for diffuser installation:

- Apply a continuous strip of foam around the perimeter edge of the back of each diffuser.
- Install medium density glass fiber in the empty back cavity of the diffuser.
- Use proper screws to tighten each corner of the diffusion plate.
- The diffuser to be cut should be filled with expanding foam before cutting. Use fine cutting methods to avoid cracking the plastic
- The part of the mounting flange of the diffuser can be trimmed to make it suitable for some applications, allowing the remaining flange to mount the diffuser intact so that it does not rattle on the wall or ceiling.
- Diffuser should be black. If diffusers are not black, paint all diffusers matte black before installation.











Scalie: 1:1 Desing:leijuan upproved:Micheal Draw:leijuan

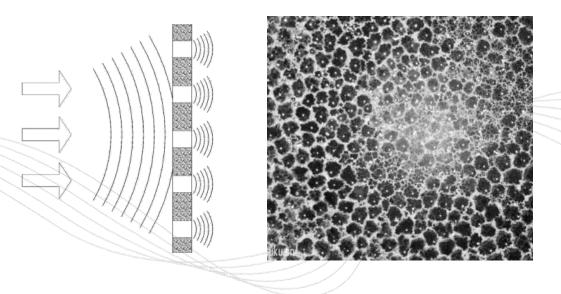
Client Approved PL-24

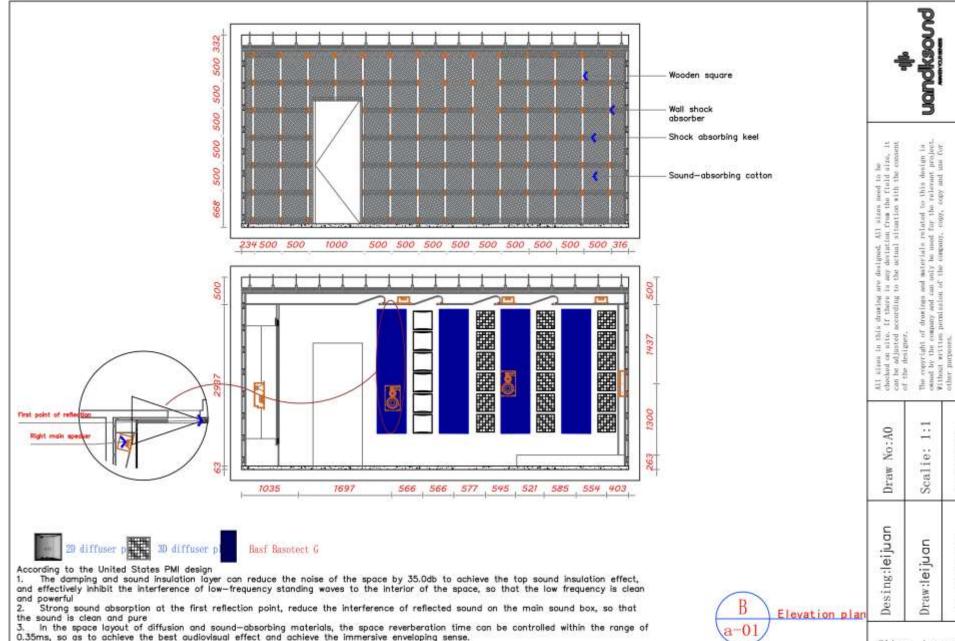
Acoustic material interpretation diagram



### sound-absorbing

Sound wave propagation in the air and air particle due to vibration friction sound energy into heat energy, caused by the phenomenon of gradual attenuation of sound wave with the increase of the propagation distance, known as air absorption; When the sound wave is incident on the porous sound absorbing material, due to the viscous resistance of the air and the vibration friction between the air and the pore wall, a considerable part of the sound energy is converted into heat energy and absorbed.



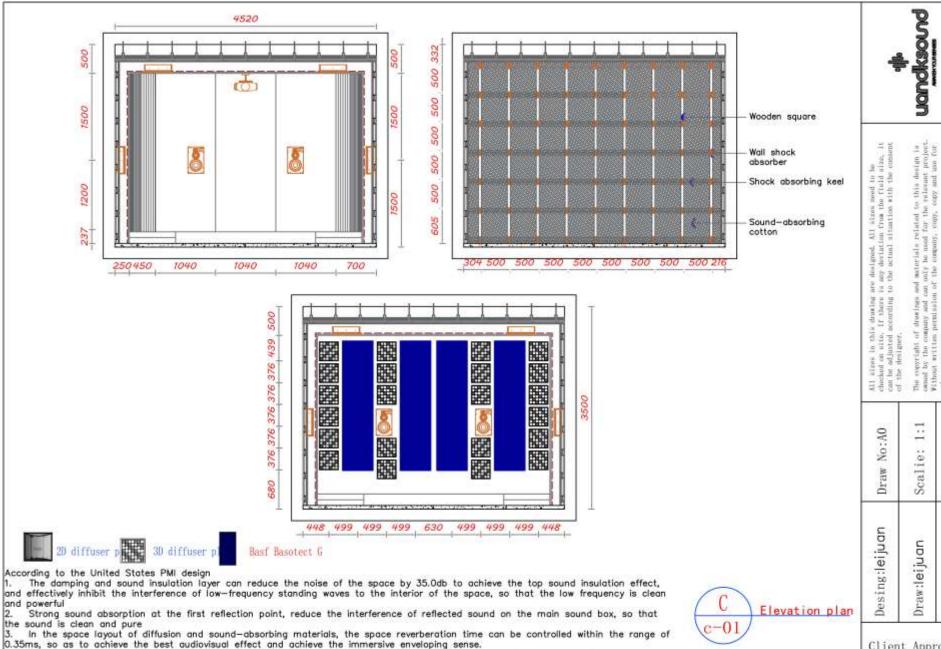


Acoustic damping elevation of right wall

Client Approved PL-25

Date: 22/03/29

Approved:Micheal



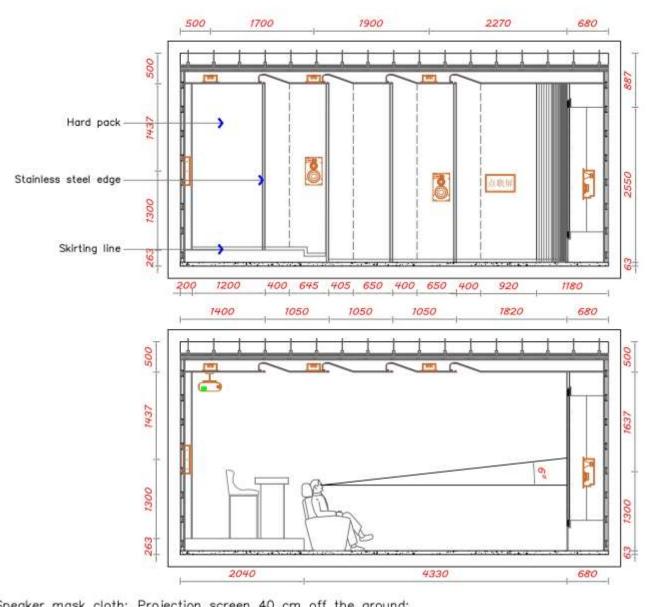
Acoustic shock absorption elevation of rear wall

Client Approved PL-26

Date: 22/03/29

Approved:Micheal

Scalie:



Speaker mask cloth; Projection screen 40 cm off the ground; The sofa platform spacing is 36cm, the step height spacing is 10cm, and the drop between the platforms is 20cm. The rear position does not block the line of sight

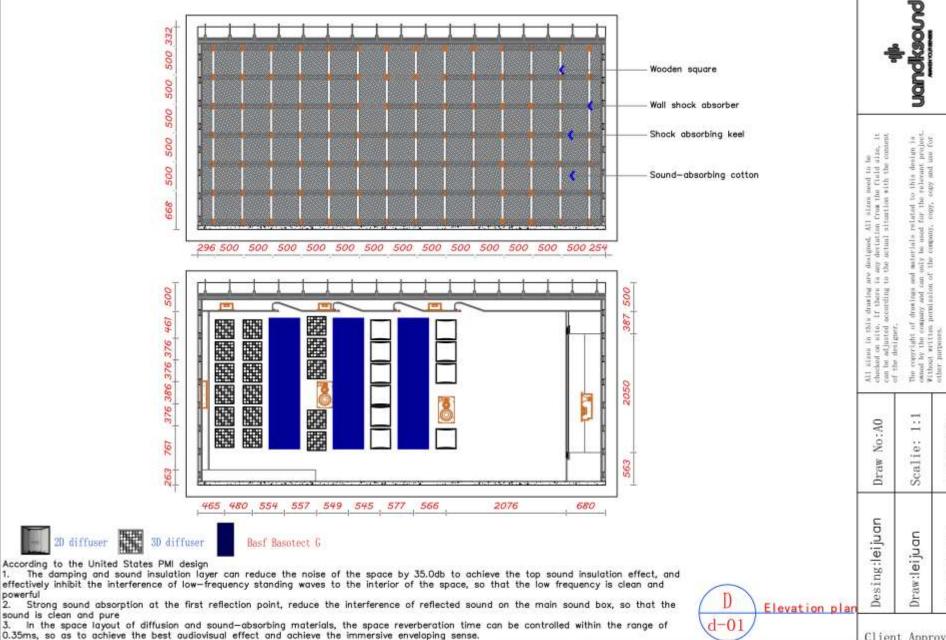
Elevation of the left wall

All stars in this drawing are dealgood. All strew most to be checked on atto. If there is any derintion from the field sidcan be adjusted according to the actual struction with the or of the designer.

Desing:leijuan Draw No:A0
Draw:leijuan Scalie: 1:1
Approved:Micheal Date:22/03/29

Elevation plan

d-01



Acoustic damping elevation of left wall

powerful

Client Approved PL-28

Date: 22/03/29

Approved:Micheal

#### BENCHMARK

by Josep Armengol



## uandksound M820-IW speakers

This time we tested the highest range of uandksound: the threeway model of the M8 series recessed speakers

fter having tried different models from the "uandksound" loudspeaker catalog, a company of English origin with a delegation in Spain that sells mainly through its local distributor, we were looking forward to hearing their highest range, the M8. Within this "top" series of built-in loudspeakers are the large M850-N, three-way cabinets with five speakers 80 cm high and 27 cm wide (with only 13 cm deep, common to the series).

This entire series uses an AMT ribbon tweeter for treble, and in this case the mids are provided by two separate 4-inch speakers, and the bass with two 8-inch speakers, all mounted symmetrically to the central tweeter. We tested its lesser sister, the M820-IW, which mounts identical speakers but only one of each. Complementing





these two models is the M1500-N active subwoofer, featuring a massive 15-inch woofer in a 19 "x 56" x 19 "cabinet with a 2400-watt internal amplifier.

#### Description

The uandksound M820-IW box is as we have said a three-way with three speakers. The AMT ribbon tweeter on the top is accompanied by two Vifa Danish-origin loudspeakers: a 4-inch for midrange, and an 8-inch bass for bass. Both use treated paper cones, which offers excellent naturalness in their sound. Premium components are used for the filter and each speaker is cut at 12 db / octave for an optimal end result. It has two terminals at the bottom to facilitate the connection without needing more depth.

As for the enclosure, as it will be built-in, the brand wisely prefers to use it closed: built in thick inert MDF, this box that measures 47 centimeters high and 29 wide (always 13 deep) weighs just over 10 kg. The box itself has a solid wooden frame to which it is attached from the front and which will be the one that will be embedded when installing. In front we can place the grid that is easily removable for more critical listening (transparency always burts somewhat).



#### Listens

We listen to these boxes as if they were monitors, moving them closer to the rear wall so that the acoustics are more similar to their final goal (recessed). Despite the declared somewhat high sensitivity (88 dB) we find them quite demanding with the amplification both for performance (the real one must be less than 88 dB) and for current (although declaring 4 ohms is not misleading). It is already a brand of the house from what we have tested, but possibly



Appearance with mounted front grill

SPECS		
TYPE	Passive three-way boxes and closed enclosure, with 3 speakers, for wall mounting	
SPEAKERS	AMT tweeter for treble, 4-rich midrange drivers VVs and 8 inch soofer VVs, both with treated paper cons	
SENSITIVITY AND IMPEDANCE	88 dfl y 4 ohms	
FREQUENCY RESPONSE	45Hz - 22kHz	
PASSIVE FILTER	rtigh-quality components (sir-core coils and low- distortion dispaoltors) 12 dis/octave	
RECOMMENDED POWER	Up to 160 warts (300 W peak)	
ENCLOSURE	In closed MDF "ecoustic suspension"	
DIMENSIONS AND WEIGHT	Width 289mm, Height 472mm, Depth 130mm, 10,5kg	
DISTRIBUTOR	www.sg-axtechnology.com	

Accurate, liquid sound with clarity and detailed bass, the speakers require good amplification they are designed in this way thinking about the use of last generation amplifiers (class D) that have no problems in moving any box, and that also by dissipating little heat can also recessed or installed in a hidden rack.

Once the valves were forgotten and attacked with good solid-state amplification, the next thing we appreciate is that despite the factory break-in (they test each unit after an initial break-in of several days) they still had hours to go. We noticed it in bass, with that quite remarkable 8-inch speaker, which until after a while playing did not finish offering the bass that one expects of such a size. But from that point on, we found them to be excellent cabinets with good bass control but also very good "body" and presence. A double bass solo could be perfectly followed without the usual blurring of poorly optimized bass reflex cabinets. In media, the use of a dedicated loudspeaker is always welcome and brings some liquidity to the vocals, which together with the smoothness of the "home" ribbon tweeter perfectly matches the profile of the cabinet.

76 I REVISTAONOFF.ES I 77

# 01

#### **CINEMA SERIES**

## REFERENCE SPEAKERS

#### 定制系列

#### DESIGNED FOR SUCCESS

The culmination of the most innovative design is presented with Reference Series; the result of a long technical research project in collaboration with expert sound engineers from the film industry.

Only they really know how the sound is in a movie, now our challenge is to transport the original sound to your home in the most perfect way thanks to the wisdom of our engineers and technical components of the highest quality.

We could start by referring to the high-density loudspeakers enclosure thanks to which we have obtained an improved dynamic performance that translates us into an extended frequency response to meet THX standards. The powerful woofer equipped with an oversized magnet is the key element of the bass unit tobring exceptional impact to the most demanding recordings. On the other hand, the horn tweeter configuration in the same plane presents a more precise sound directionality to locate the sound scene in greater detail, either in the main channels as well as in the effects channels. The Reference Series modular

configuration has been developed to allow easy placement behind large projection screens. In this way, greater integration with all the room environments is very valuable for the most advanced audiovisual engineers.

I've tried many high-end speakers over the years, they all sounded really good, but Uandksound Reference Series are different from the rest because only allows us to focus on what really matters, the sound.



#### SOUND ARCHITECTS

It is not easy to find a design that identifies us, but we do not like to be the same as the competition. All our loudspeakers have been created to be an integral part of the home decoration and it is so when Uandksound was born with the aim of reliving the experience of feeling like one more protagonist of the seventh art hand in hand with the best sound experience. Commercial movie theaters have undergone continuous technical improvement in recent years besides recordings media. However, theren is no doubt that everything can be improved and that is where Uandksound is positioned.

The last six years we have designed high-performance loudspeakers easily integrated with all kinds of environments and decoration projects such as the successful M6 Series, but in our quest to seek perfection and integrate the best technology, design and quality, we have advanced one step further in perfection.

For us, perfection can only be defined in one way, reference, understood as the example to be followed by others to be the best. Having our own identity is achieved through the most advanced designs developed jointly with the greatest integration experts. Every corner, curve and detail of the loudspeaker is meticulously studied to combine the pieces of the Uandksound DNA with one another in harmony and color. Perfection and elegance are the hallmarks that make it a benchmark for other brands that work on a unique and unrepeatable design.











For more information, please visit us at www.uandksound.com