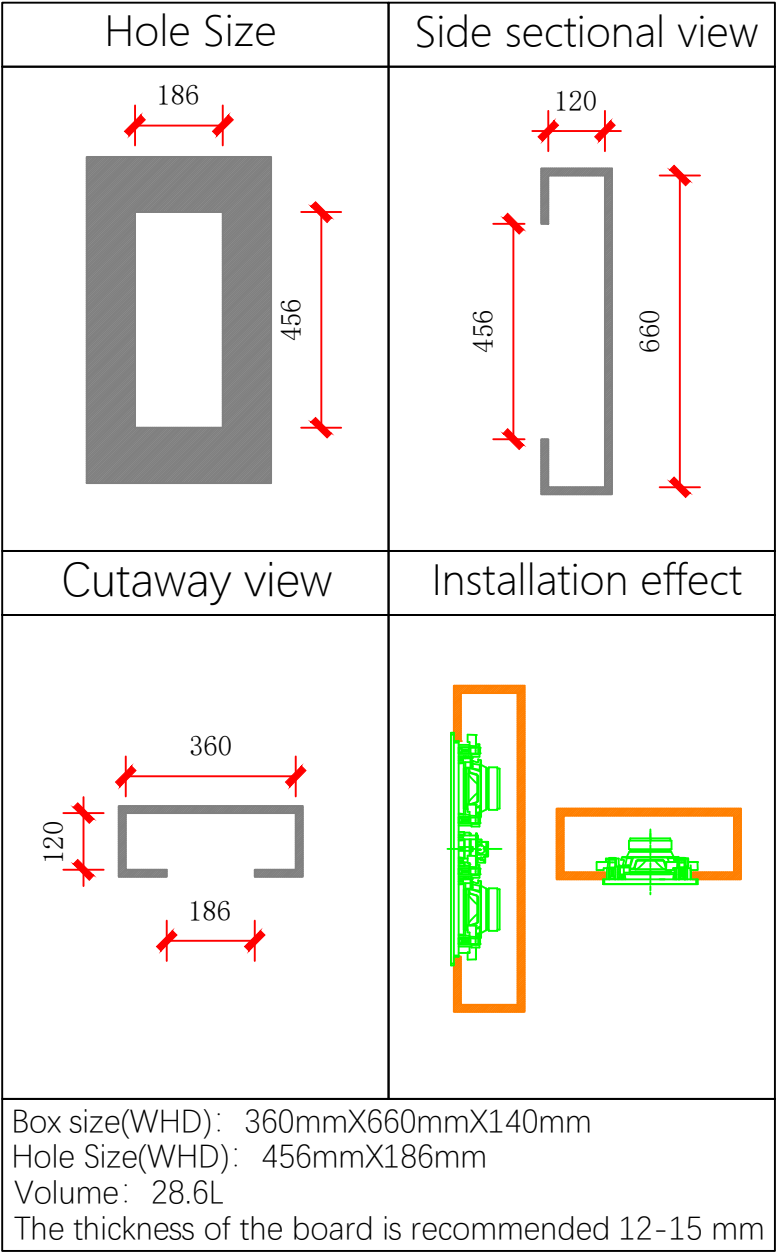




E620-IW Back box design:

E620-IW Subwoofer parameters

Revc=6.200 Ohm Fo=48.707 Hz Sd=138.930 cm Md=10.000 g BL=5.338 T
Qms= 6.553 Qes= 0.810 Qts= 0.721 No= 0.332 % SPLo= 87.2 dB
Vas=24.057 Ltr Cms=877.718m mm/N Mms=12.165 g

According to Dolby decoding, refer to the US THX standard, the main box and bass frequency division is 80Hz

Set the system Fb to 80Hz, it can be estimated:

$$Q_{tc} = F_b / F_o \times Q_{ts}$$

$$Q_{tc} = 80 / 48.7 \times 0.721$$

$$= 1.18$$

Speaker / speaker neck ratio:

$$a = (Q_{tc} / Q_{ts})^{2-1}$$

$$a = (1.18 / 0.721)^{2-1}$$

$$= 1.6775$$

Cabinet volume:

$$V = V_{as} / a$$

$$V = 24.057 / 1.6775$$

$$= 14.34 \text{ (L)}$$

E620-IW Are 2 woofers, so the volume is: $14.34 \times 2 = 28.68 \text{ (L)}$

According to the calculation principle of the closed box, Qtc satisfies 0.707-1.2 as the best design. This box design can make the best effect of low frequency effect, speed and density. According to the design principle of the closed box, the inside of the box is filled with 80% white fireproof sound-absorbing cotton.



The dimensions of this picture are design dimensions, all dimensions need to be checked on site. If there is an error with the on-site size, with the consent of the designer, it can be adjusted accordingly according to the actual situation.
The copyright of the drawings and materials related to this design is owned by the company and can only be used for related projects. Without the written permission of the company, it may not be copied, copied or used for other purposes.

Draw No:A0

Scalie: 1:1

Date:20/04/10

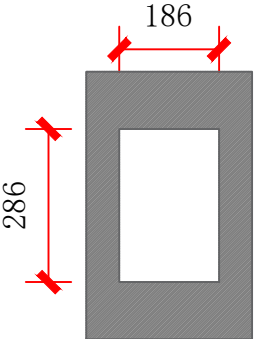
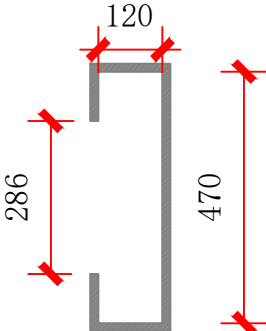
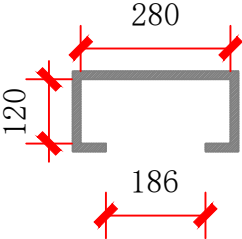
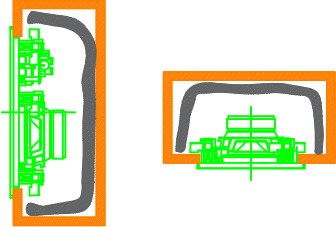
Desing:Qing

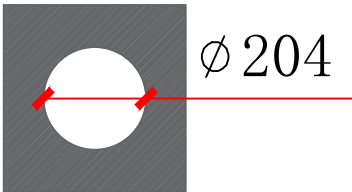
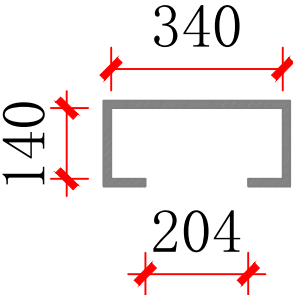
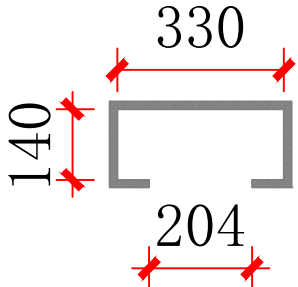
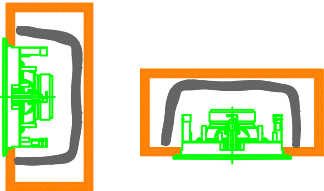
Draw:Simon

Approved:Micheal

Client Approved
PL-01

E620-IW Back box

Hole Size	Side sectional view	E610-IW Back box design : E610-IW Subwoofer parameters : Revc=3.100 Ohm Fo=48.039 Hz Sd=138.930 cm Md=10.000 g BL=4.209 T Qms= 5.889 Qes= 0.587 Qts= 0.534 No= 0.494 % SPLo= 89.0 dB Vas=27.071 Ltr Cms=987.694m mm/N Mms=11.113 g According to Dolby decoding, refer to the US THX standard, the main box and bass frequency division is 80Hz Set the system Fb to 80Hz, it can be estimated: $Q_{tc} = F_b / F_o \times Q_{ts}$ $Q_{tc} = 80 / 48.039 \times 0.534$ $= 0.88$ Speaker / speaker neck ratio: $a = (Q_{tc} / Q_{ts})^{2-1}$ $a = (0.88 / 0.534)^{2-1}$ $= 1.714$ Cabinet volume: $V = V_{as} / a$ $V = 27.071 / 1.714$ $= 15.8 \text{ (L)}$ According to the calculation principle of the closed box, Qtc satisfies 0.707-1.2 as the best design. This box design can make the best effect of low frequency effect, speed and density. According to the design principle of the closed box, the inside of the box is filled with 80% white fireproof sound-absorbing cotton.			
		The dimensions of this picture are design dimensions, all dimensions need to be checked on site. If there is an error with the on-site size, with the consent of the designer, it can be adjusted accordingly according to the actual situation. The copyright of the drawings and materials related to this design is owned by the company and can only be used for related projects. Without the written permission of the company, it may not be copied, copied or used for other purposes.			The dimensions of this picture are design dimensions, all dimensions need to be checked on site. If there is an error with the on-site size, with the consent of the designer, it can be adjusted accordingly according to the actual situation. The copyright of the drawings and materials related to this design is owned by the company and can only be used for related projects. Without the written permission of the company, it may not be copied, copied or used for other purposes.
Cutaway view	Installation effect				
Box size(WHD): 280mmX470mmX120mm Hole Size(WHD): 286mmX186mm Volume: 15.8L The thickness of the board is recommended 12-15 mm		E610-IW Back box			Draw No:A0 Scalie: 1:1 Date:20/04/10 Desing:Qing Draw:Simon Approved:Micheal Client Approved PL-02

Hole Size	Side sectional view
	
Cutaway view	Installation effect
	
Box size(WHD): 340x330x140mm Hole Size(WHD): φ204mm Volume: 15.8L The thickness of the board is recommended 12-15 mm	

E610-C Back box design:

E610-C Subwoofer parameters:

Revc=3.100 Ohm Fo=48.039 Hz Sd=138.930 cm Md=10.000 g
BL=4.209 T Qms= 5.889 Qes= 0.587 Qts= 0.534 No= 0.494 % SPLo=
89.0 dB Vas=27.071 Ltr Cms=987.694m mm/N Mms=11.113 g

According to Dolby decoding, refer to the US THX standard, the main box and bass frequency division is 80Hz

Set the system Fb to 80Hz, it can be estimated:

$Q_{tc} = F_b/F_o \times Q_{ts}$

$Q_{tc} = 80/48.039 \times 0.534$
 $= 0.88$

Speaker / speaker neck ratio:

$a = (Q_{tc}/Q_{ts})^{2-1}$
 $a = (0.88/0.534)^{2-1}$
 $= 1.714$

Cabinet volume:

$V = V_{as}/a$
 $V = 27.071/1.714$
 $= 15.8 \text{ (L)}$

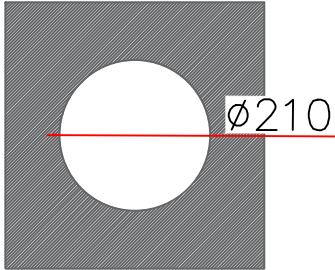
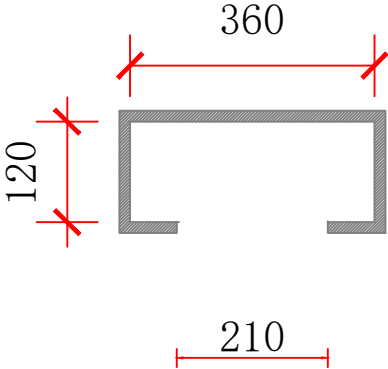
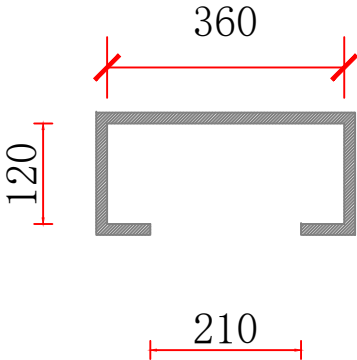
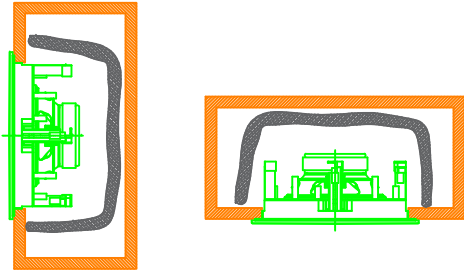
According to the calculation principle of the closed box, Qtc satisfies 0.707-1.2 as the best design. This box design can make the best effect of low frequency effect, speed and density. According to the design principle of the closed box, the inside of the box is filled with 80% white fireproof sound-absorbing cotton.



The dimensions of this picture are design dimensions, all dimensions need to be checked on site. If there is an error with the on-site size, with the consent of the designer, it can be adjusted accordingly according to the actual situation.
The copyright of the drawings and materials related to this design is owned by the company and can only be used for related projects. Without the written permission of the company, it may not be copied, copied or used for other purposes.

Draw No:A0	Scalie: 1:1	Date:20/04/10
Desing:Qing	Draw:Simon	Approved:Micheal
Client Approved PL-03		

E610-C Back box

Hole Size	Side sectional view
	
Cutaway view	Installation effect
	
Box size(WHD): 360x360x120mm Hole Size(WHD): φ210mm Volume: 15.8L The thickness of the board is recommended 12-15 mm	

E650-FX Back box design:

E650-FX Subwoofer parameters:

Revc=3.100 Ohm Fo=48.039 Hz Sd=138.930 cm Md=10.000 g
 BL=4.209 T Qms= 5.889 Qes= 0.587 Qts= 0.534 No= 0.494 % SPLo=
 89.0 dB Vas=27.071 Ltr Cms=987.694m mm/N Mms=11.113 g

According to Dolby decoding, refer to the US THX standard, the main box
 and bass frequency division is 80Hz

Set the system Fb to 80Hz, it can be estimated:

$$Q_{tc} = F_b / F_o \times Q_{ts}$$

$$Q_{tc} = 80 / 48.039 \times 0.534$$

$$= 0.88$$

Speaker / speaker neck ratio:

$$a = (Q_{tc} / Q_{ts})^{2-1}$$

$$a = (0.88 / 0.534)^{2-1}$$

$$= 1.714$$

Cabinet volume:

$$V = V_{as} / a$$

$$V = 27.071 / 1.714$$

$$= 15.8 \text{ (L)}$$

According to the calculation principle of the closed box, Qtc satisfies
 0.707-1.2 as the best design. This box design can make the best effect of
 low frequency effect, speed and density. According to the design principle
 of the closed box, the inside of the box is filled with 80% white fireproof
 sound-absorbing cotton.



本图尺寸均为设计尺寸，所有尺寸需作实地核对。若
 与现场尺寸有误差，经设计师同意，可根据实际情况作
 相应调整。
 本设计相关图纸资料之版权为本公司所有，只可用于
 有关工程。未公司书面许可，不得复制、抄袭及挪为他
 用。

Draw No:A0	Scale: 1:1	Date:26/06/22
Desing:Simon	Draw:	Approved:Micheal

E650-FX Back box