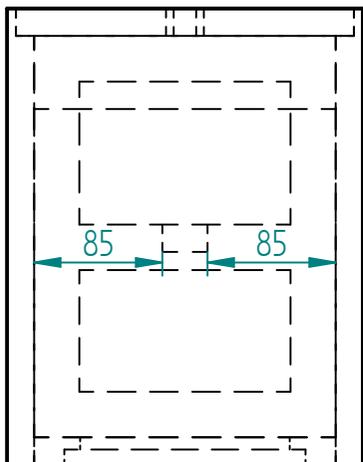
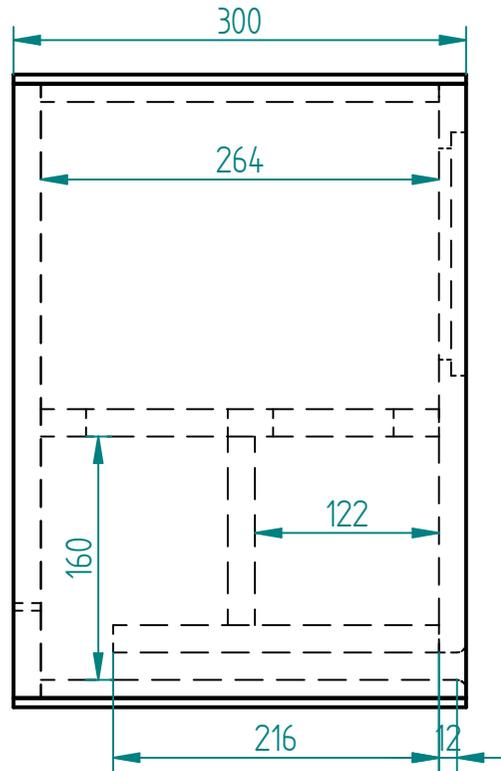
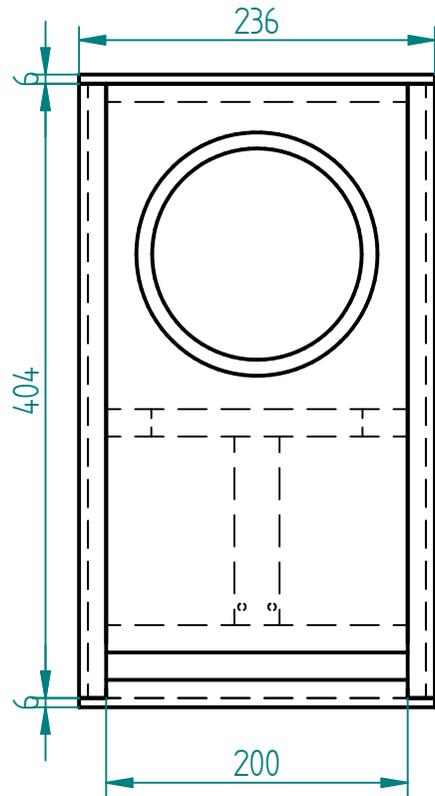
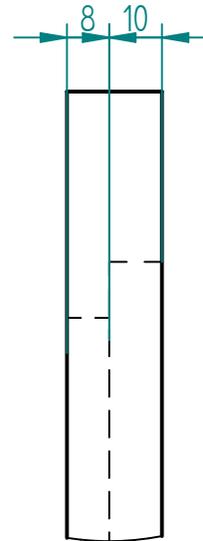
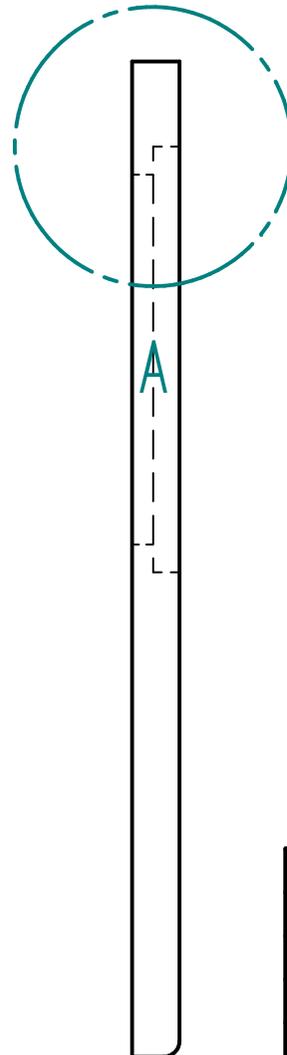
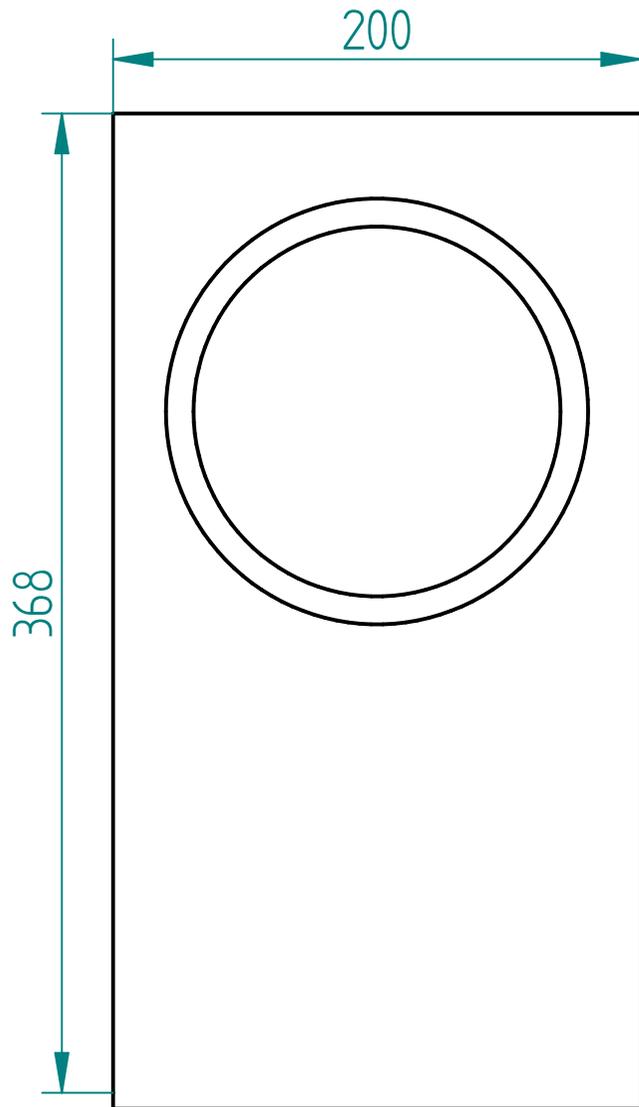


	NAME	DATE	Westvloamsche DIY nerds				
DRAWN BY	Anna	02/07/20					
DESIGNED BY	Ruben	/	TITLE				
			Mark Audio Alpair 10M Slot ported box				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE	DWG NO	REV		
			A4	2	2		
			FILE NAME: Official Drawings.dft				
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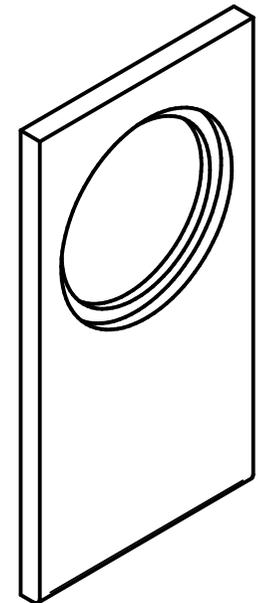


		NAME	DATE	Westvloamsche DIY nerds			
DRAWN BY	Anna	02/07/20	TITLE Mark Audio Alpair 10M Slot ported box				
DESIGNED BY	Ruben	/					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX			SIZE	DWG NO	REV		
			A4	2	2		
			FILE NAME: Official Drawings.dft				
			SCALE:	WEIGHT:	SHEET 2 OF 14		

Front panel

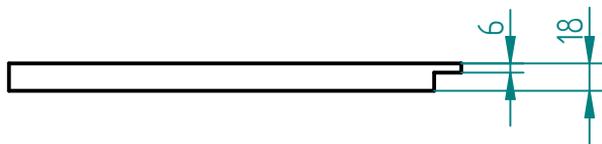
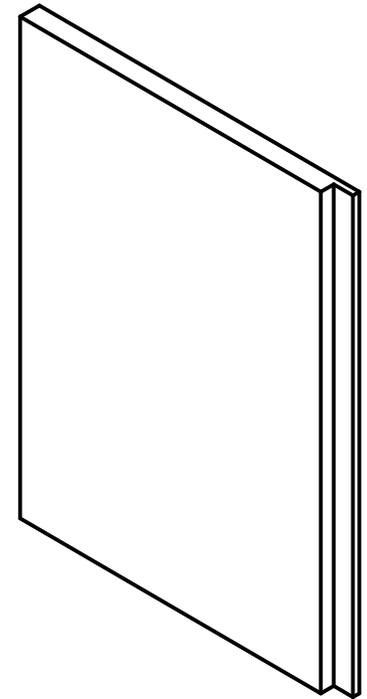
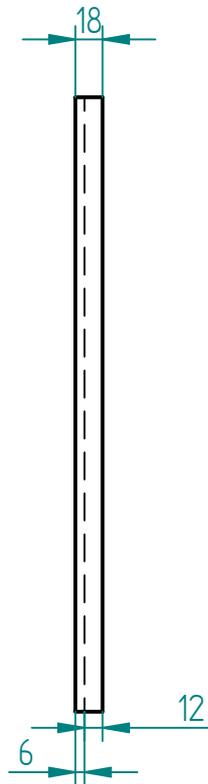
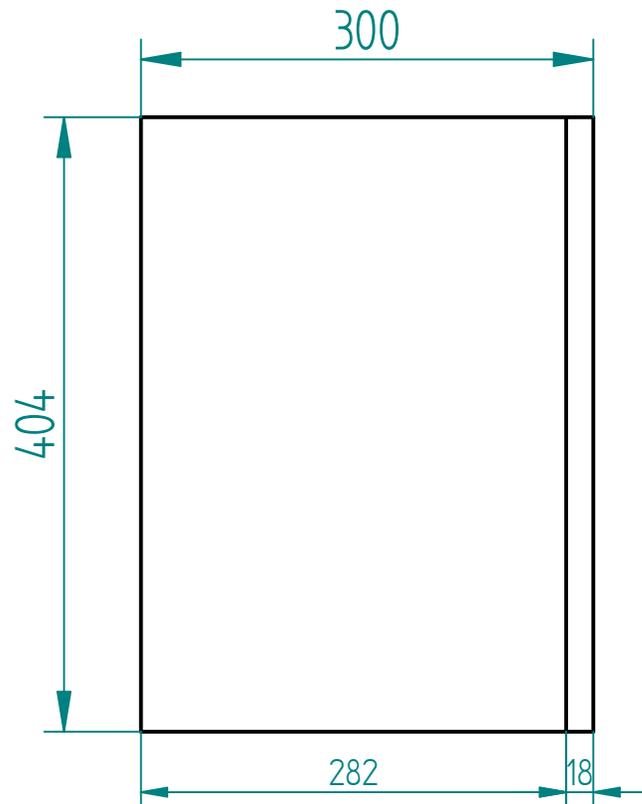


DETAIL A



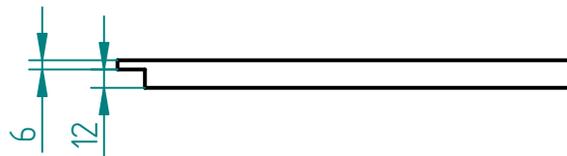
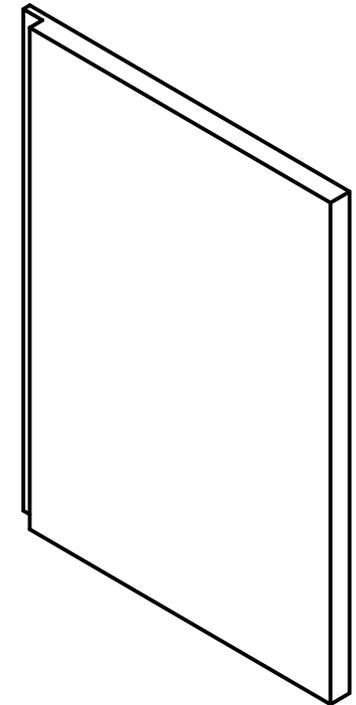
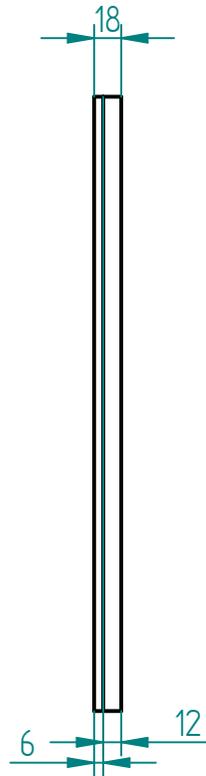
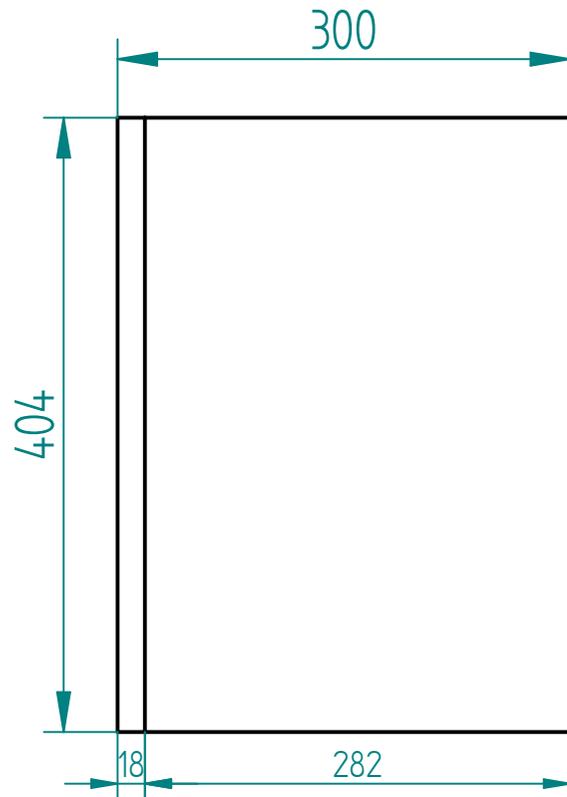
	NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20	TITLE		
DESIGNED BY	Ruben	/	Mark Audio Alpair 10M Slot ported box		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX			SIZE	DWG NO	REV
			A4	2	2
			FILE NAME: Official Drawings.dft		
			SCALE:	WEIGHT:	SHEET 3 OF 14

Left panel



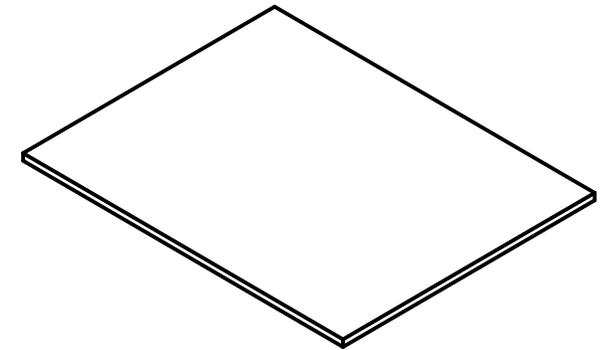
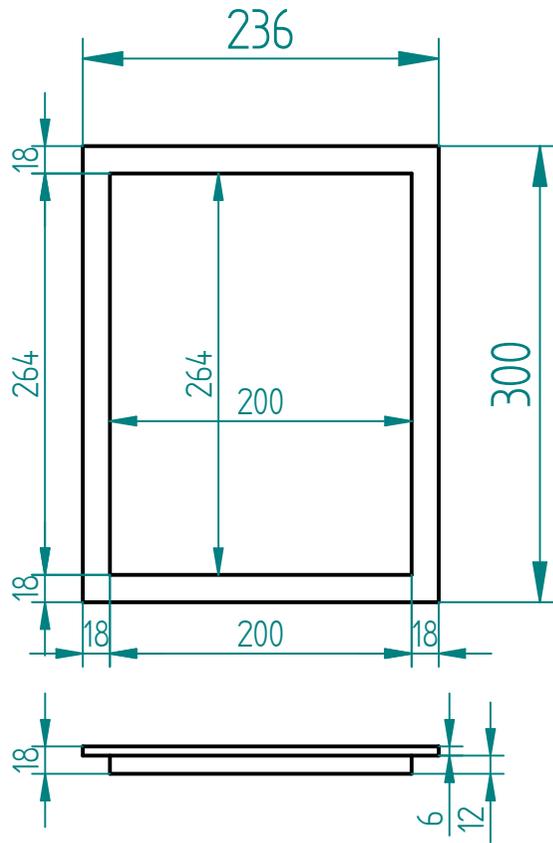
	NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20	Mark Audio Alpair 10M Slot ported box		
DESIGNED BY	Ruben	/			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE	DWG NO	REV
			A4	2	2
			FILE NAME: Official Drawings.dft		
			SCALE:	WEIGHT:	SHEET 4 OF 14

Right panel



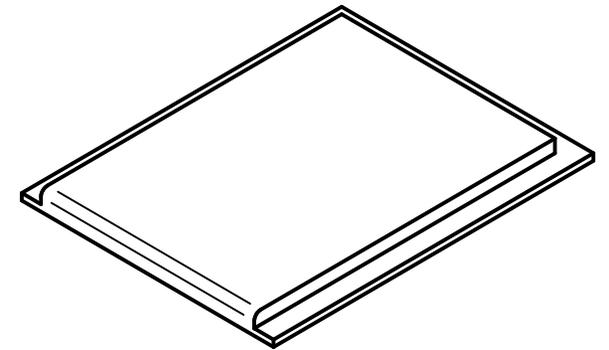
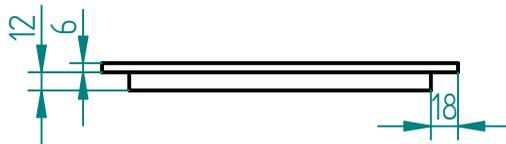
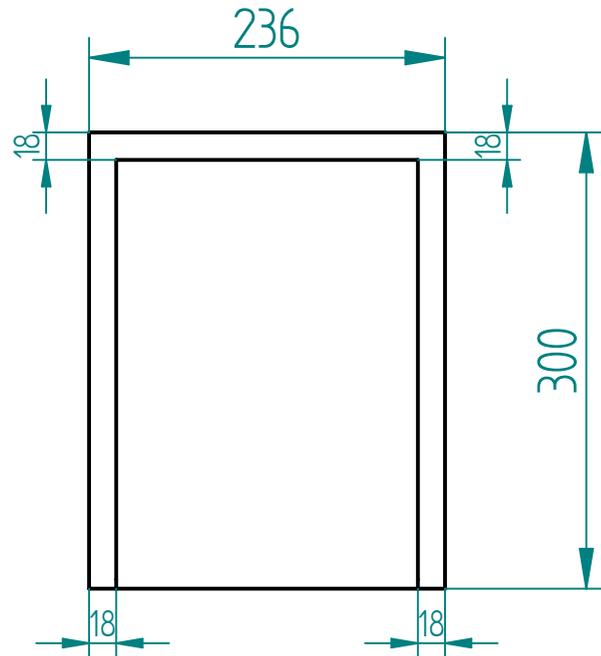
		NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY		Anna	02/07/20	TITLE Mark Audio Alpair 10M Slot ported box		
DESIGNED BY		Ruben	/			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX				SIZE	DWG NO	REV
				A4	2	2
				FILE NAME: Official Drawings.dft		
SCALE:		WEIGHT:		SHEET 5 OF 14		

Top panel



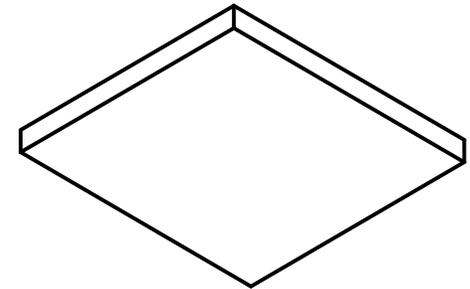
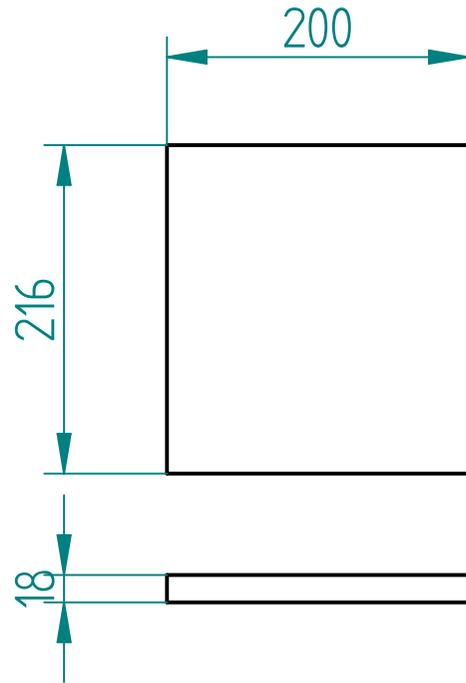
		NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20	Mark Audio Alpair 10M Slot ported box			
DESIGNED BY	Ruben	/				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE A4	DWG NO 2	REV 2	FILE NAME: Official Drawings.dft
			SCALE:	WEIGHT:	SHEET 6 OF 14	

Bottom panel



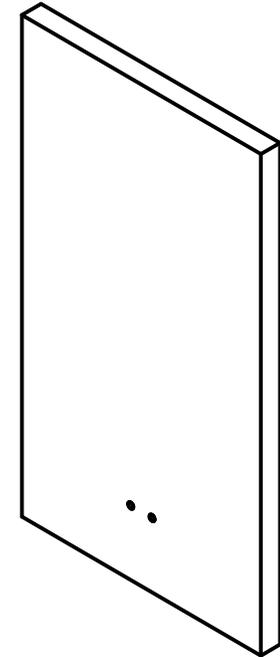
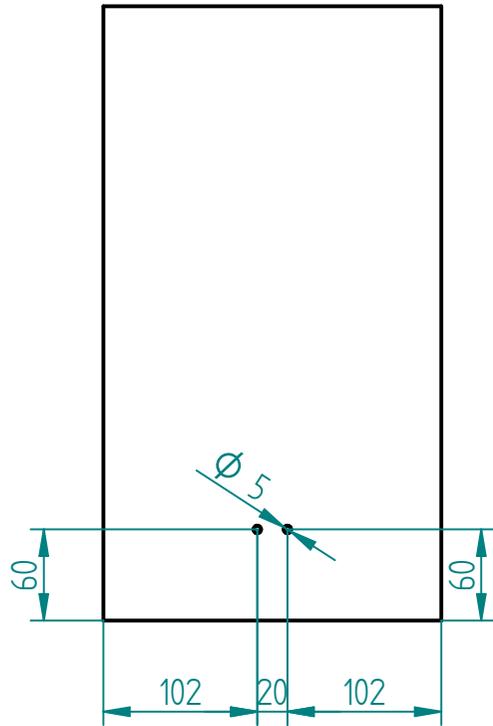
		NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20	TITLE Mark Audio Alpair 10M Slot ported box			
DESIGNED BY	Ruben	/				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE	DWG NO	REV	
			A4	2	2	
			FILE NAME: Official Drawings.dft			
			SCALE:	WEIGHT:	SHEET 7 OF 14	

Port piece



		NAME	DATE		
DRAWN BY	Anna	02/07/20	Westvloamsche DIY nerds		
DESIGNED BY	Ruben	/			
			TITLE		
			Mark Audio Alpair 10M Slot ported box		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE	DWG NO	REV
			A4	2	2
			FILE NAME: Official Drawings.dft		
SCALE:		WEIGHT:	SHEET 8 OF 14		

Back panel



	NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20	TITLE Mark Audio Alpair 10M Slot ported box		
DESIGNED BY	Ruben	/			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE A4	DWG NO 2	REV 2
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SCALE:			WEIGHT:	SHEET 9 OF 14	

Brace pieces

Figure 8 Brace

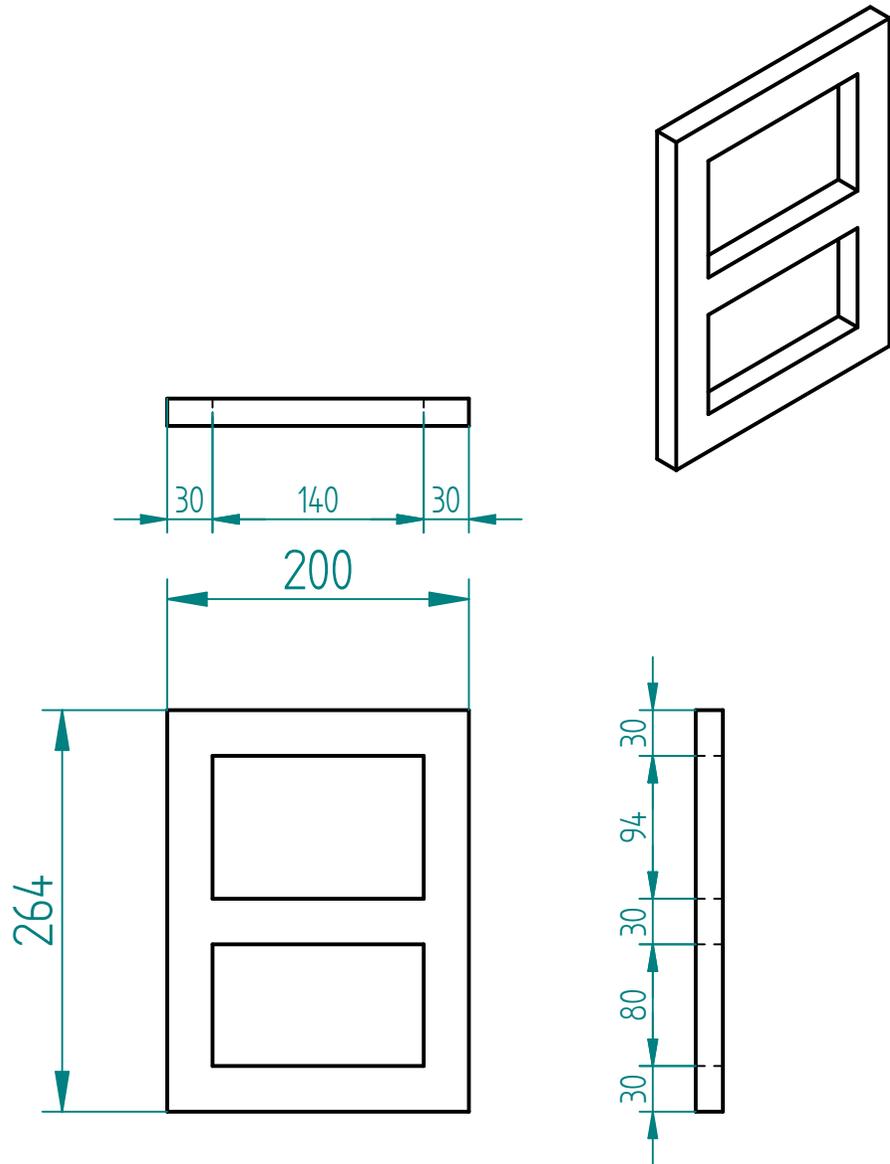
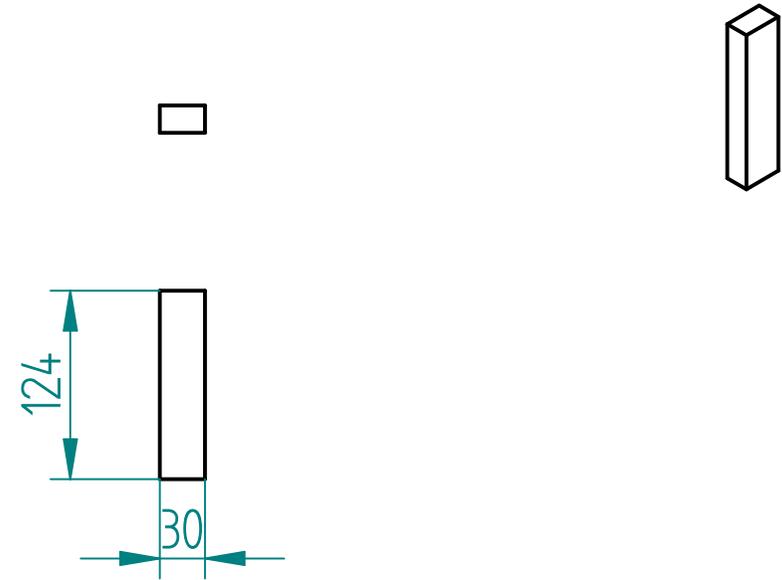


Figure 1 brace



		NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20				
DESIGNED BY	Ruben	/				
			TITLE			
			Mark Audio Alpair 10M Slot ported box			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$		SIZE A4	DWG NO 2	REV 2	FILE NAME: Official Drawings.dft	
SCALE:		WEIGHT:		SHEET 10 OF 14		

Inner brace assembly

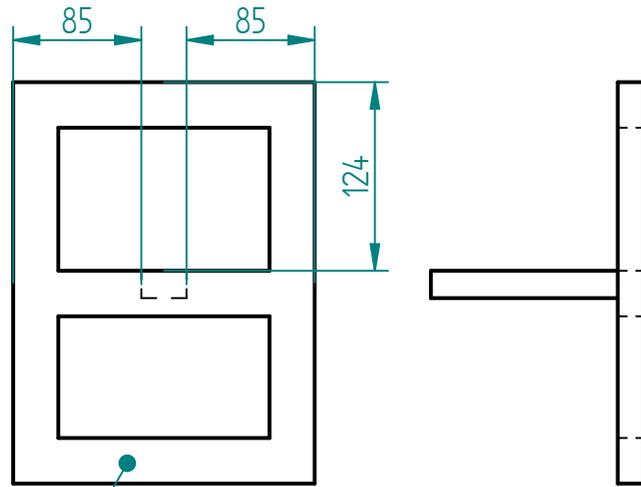


Figure 8 Brace

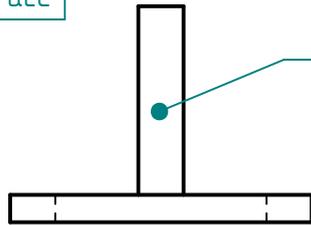
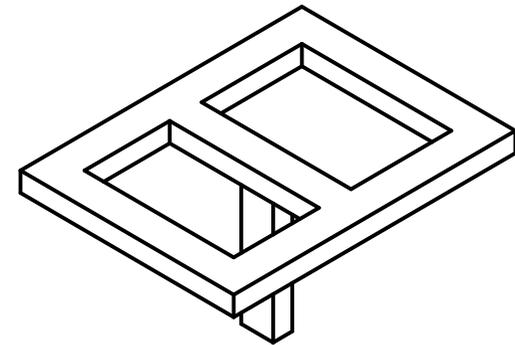


Figure 1 Brace



		NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20	TITLE Mark Audio Alpair 10M Slot ported box			
DESIGNED BY	Ruben	/				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE	DWG NO	REV	
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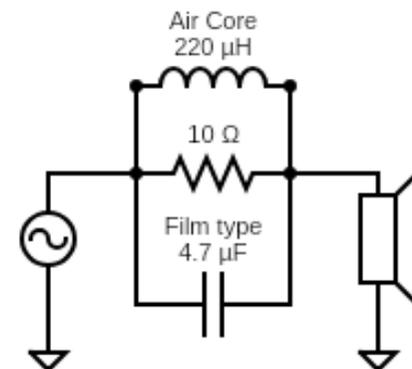
Crossover Diagram

Crossover Components (one speaker)	
Film capacitor	4.7 μ F
Air core coil	220 μ H
Ceramic resistor	10 ohm

The crossover runs in series with the speaker, functioning as a notch filter. Connect the crossover in series with one of the speaker's leads, and keep it identical on both speakers.

Recommended parts are Jantzen Audio for the Air core coil, Jantzen Audio CrossCap for the film capacitor and a good generic brand for the resistor

The speaker used in this build is a Mark Audio Alpair 10M



		NAME	DATE	Westvloamsche DIY nerds	
DRAWN BY		Anna	02/07/20	TITLE Mark Audio Alpair 10M Slot ported box	
DESIGNED BY		Ruben	/		
				SIZE A4	DWG NO 2
					REV 2
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES \pm X.X° 2 PL \pm X.XX 3 PL \pm X.XXX				FILE NAME: Official Drawings.dft	
				SCALE:	WEIGHT:

Table of requirements

Please take note that this design uses rabbeted edges. When making this build, you will need a router to cut these routed edges.

The panel sizes are the size you need with the the rabbet already on it. After cutting the panels, the router work is subtractive from this.

If you would rather work with straight butt joints, we have a butt jointed version like this file coming up soon.

Required panels for one speaker		
Panel	Size	Amount
Front	374 * 200	1
Back	404 * 224	1
Port piece	216 * 200	1
Side panel	404 * 300	2
Bottom	300 * 236	1
Top	300 * 236	1
Fig 8 brace	264 * 200	1
Fig 1 brace	124 * 30	1

Tools needed for this build	
Chisels & Sandpaper	Wood glue
Big clamps	Some extra speaker wire
Table saw	Router table

Required components for crossover (one speaker)	
Air core coil	220 μ H
Ceramic resistor	10 ohm
Film capacitor	4.7 μ F

	NAME	DATE	Westvloamsche DIY nerds		
DRAWN BY	Anna	02/07/20	TITLE Mark Audio Alpair 10M Slot ported box		
DESIGNED BY	Ruben	/			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES \pm X.X° 2 PL \pm X.XX 3 PL \pm X.XXX			SIZE	DWG NO	REV
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			SCALE:	WEIGHT:	SHEET 13 OF 14

