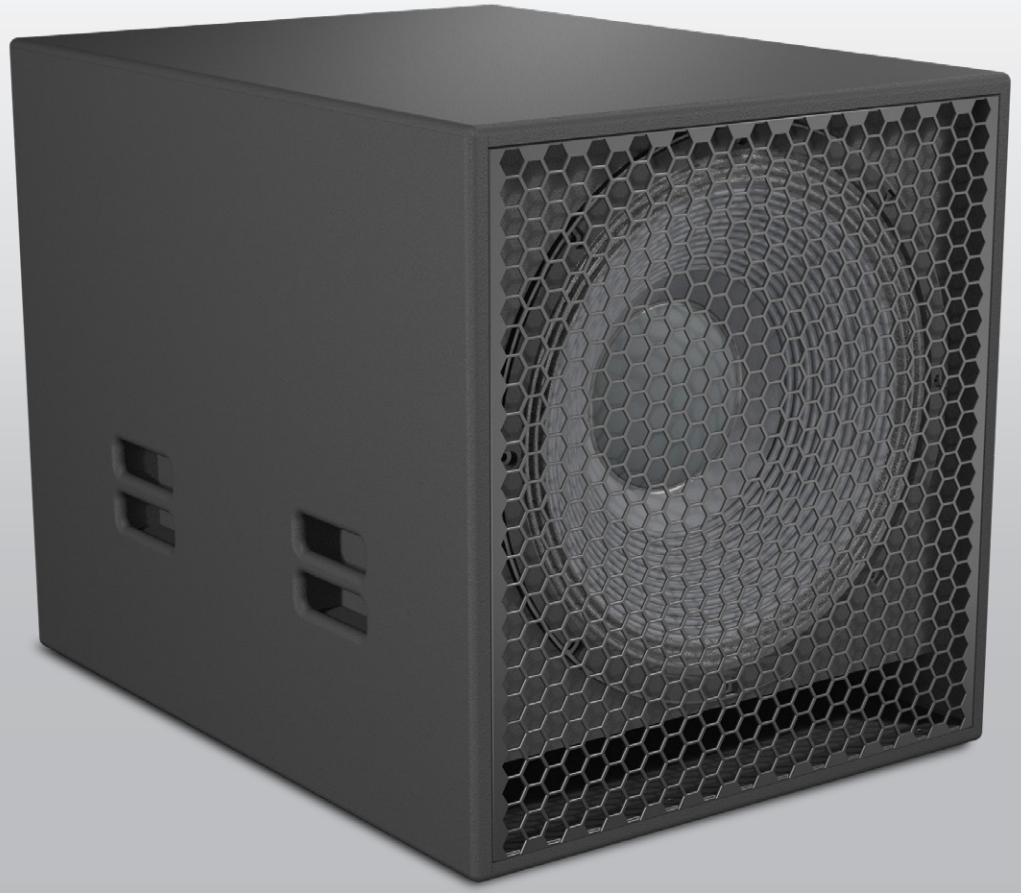


FANE

FANE 121XS - 260 LTR, 21” BASS REFLEX ENCLOSURE

DESIGNED FOR USE WITH COLOSSUS PRIME 21XS & COLOSSUS PRIME 21NDXL

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Email: info@fane-international.com
Website: www.fane-international.com

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PROJECT: **Legal Notice**	PART:			
NOTES:	REVISION:	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET:

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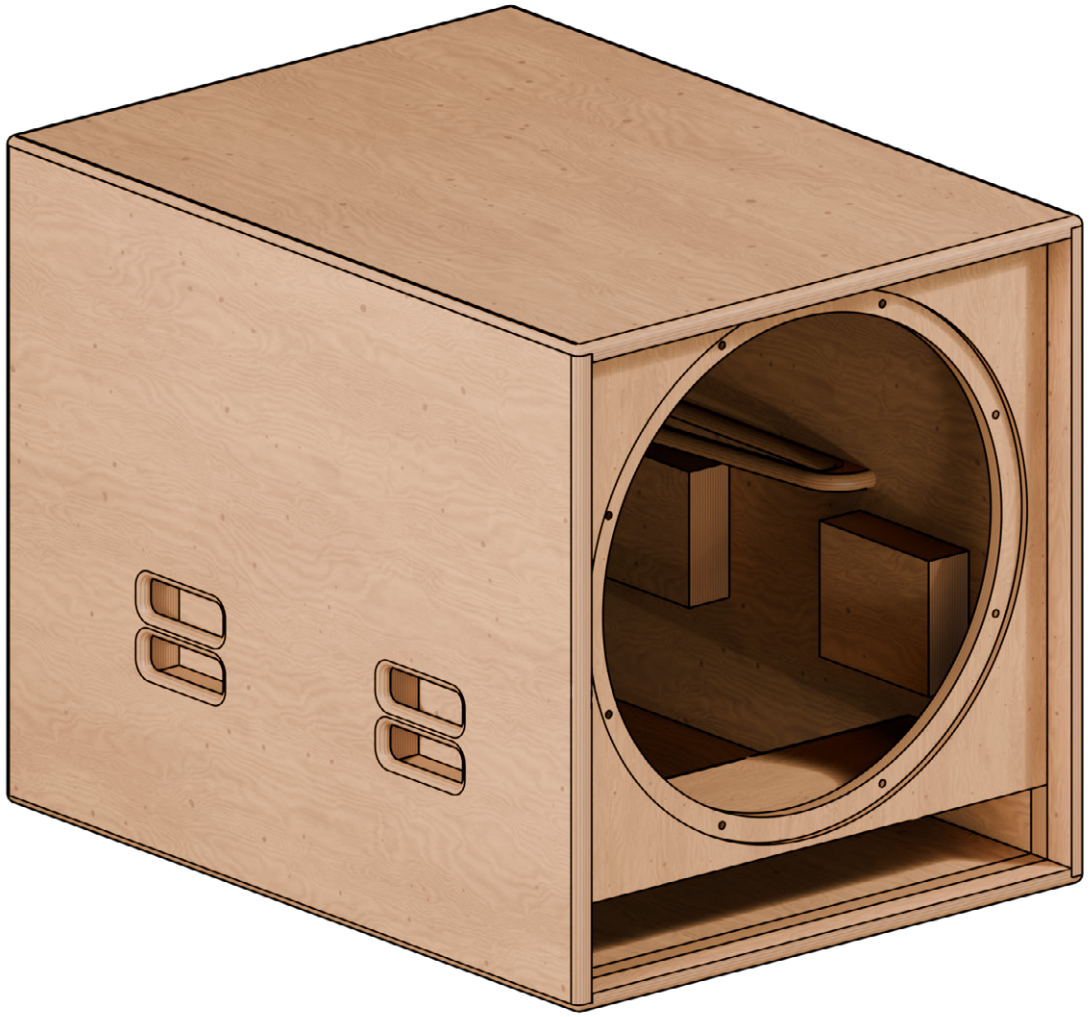


FANE

PROJECT:	PART:			
Fane 121XS - 260 Lt 21” Reflex Cab				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 3 OF 22

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PROJECT:	PART:				
Fane 121XS - 260 Lt 21” Reflex Cab	**Assembly Views**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 4 OF 22

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CHOICE OF TIMBER

We recommend multi-layer 18mm Birch plywood as the best material to withstand the rigours of intensive 'life on the road' or likely exposure to damp conditions. Alternatively, 18mm Medium Density Fibreboard (MDF) offers good acoustic properties with the advantage of being less expensive (although heavier), and may be used where the cabinet will be permanently installed in a dry environment. Both materials accept any type of paint finish extremely well.

CONSTRUCTION TECHNIQUE

All joints should be totally airtight, liberally glued with PVA adhesive and screwed at 200mm (8") centres with 4.2mm or 4.8mm (No.8 or No.10) x 50 mm (2") self-tapping screws. The bracing panels are designed to ensure rigidity of construction, making the cabinet as free as possible from panel resonances caused by the internal forces generated by the loudspeaker drive unit and resulting in unwanted vibration and colouration of the sound. Again, these joints should be glued and screwed using the same method.

PORTING

The length and area of the ports as specified in the drawing should be strictly adhered to.

ACOUSTIC INSULATION

To aid panel damping and prevent internal reflections and standing waves, all internal panels of the cabinet (with the exception of the front baffle) should be lagged with acoustically absorptive material. We recommend the use of acoustic foam wadding. This should be glued, stapled or tacked to the inside of the cabinet, taking care to ensure that port tubes are not obstructed

CROSSOVER NETWORK

This cabinet is designed as a passive unit, and adequate external signal processing arrangements should be made to filter out high-frequency signals.

INTERNAL WIRING

Wiring should be kept away from moving loudspeaker parts and fastened to internal panelling to avoid buzzing. We encourage the use of colour coded wiring to identify polarity (red for +ve and black for -ve), and recommend carrying out a phase check before first using the cabinet. This is achieved by applying the positive terminal of a battery to the positive cabinet input which should result in the speaker cone moving forwards if in phase (or by using a dedicated polarity checker).

DRIVE UNIT FIXING

The drive unit should be front mounted to the baffle using T-nuts and fixing bolts, and is supplied with a length of self adhesive foam sealing strip which should be fitted around the front edge of the speaker cut-outs to guarantee airtight conditions.

LOUDSPEAKER PROTECTION

The exposed front of all speaker drive units is of course vulnerable to damage, necessitating some means of protection which must be robust but acoustically transparent. Cloth/foam type grilles are feasible for fixed cabinets, but a metal mesh grille is certainly the preferred and superior option. It is recommended that a foam gasket material is used between the wooden cabinet and the metal grille to prevent any unwanted resonances.

CABINET HARDWARE

We specify hardware products as recommend components in the construction of FANE-loaded cabinets.

CABINET FINISHING

Cabinet finishing is largely a matter of personal preference and as such, detail of this is omitted from the drawing. Generally cabinets are either painted or covered in carpet or vinyl material. If a carpet material is chosen it is recommended that a very dense tight pile type is used and that metal corner protectors are fitted. Corner protectors will have a defined radius that the edges of the cabinet should be finished to. The cabinet shown on the first page of this document has all the external edges routed with a 13mm radius and coated in a hard wearing textured epoxy paint. Two steel carrying handles have been fitted. There are various types of handles and terminal panels available and again details of these have been omitted. It is recommended that these be purchased and cutouts be made in an appropriate position in the panels before final build. Be aware that handles and terminals are not necessarily airtight, which will be detrimental to performance but can be easily remedied using a silicone sealant or polyurethane mastic to seal all joints. Contact Penn Elcom at www.penn-elcom.com to discuss their spray coating, carpet and vinyl options

! WARNING !

There are safety regulations regarding the installation of loudspeaker systems. This document is intended as a guide to construct a suitable acoustic enclosure for our components. Fane Acoustics can hold no responsibility for the structural integrity of the finished system. The system will be no stronger than the material it is made from and the joinery techniques used to assemble it. Suspending the finished system will require additional hanging hardware. There are companies who specialise in the manufacture and correct use of this hardware. They are experts and must be consulted if overhead suspension of the finished system is intended.

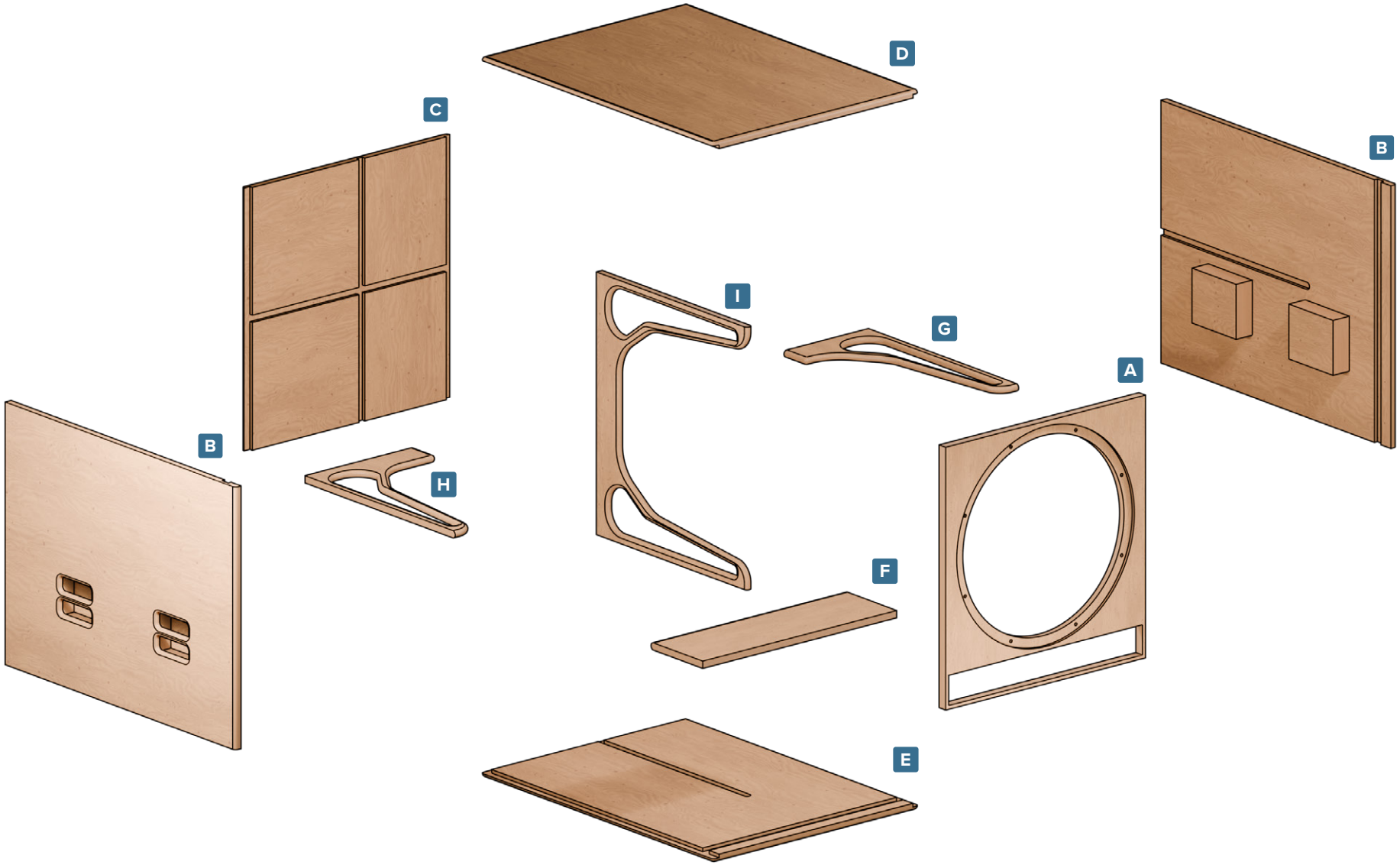
Further information about our drive units and more enclosure designs can be found at **http://www.fane-international.com**

FANE

PROJECT:	PART:			
Fane 121XS - 260 Lt 21" Reflex Cab	**Enclosure Construction Hints and Tips**			
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 5 OF 22

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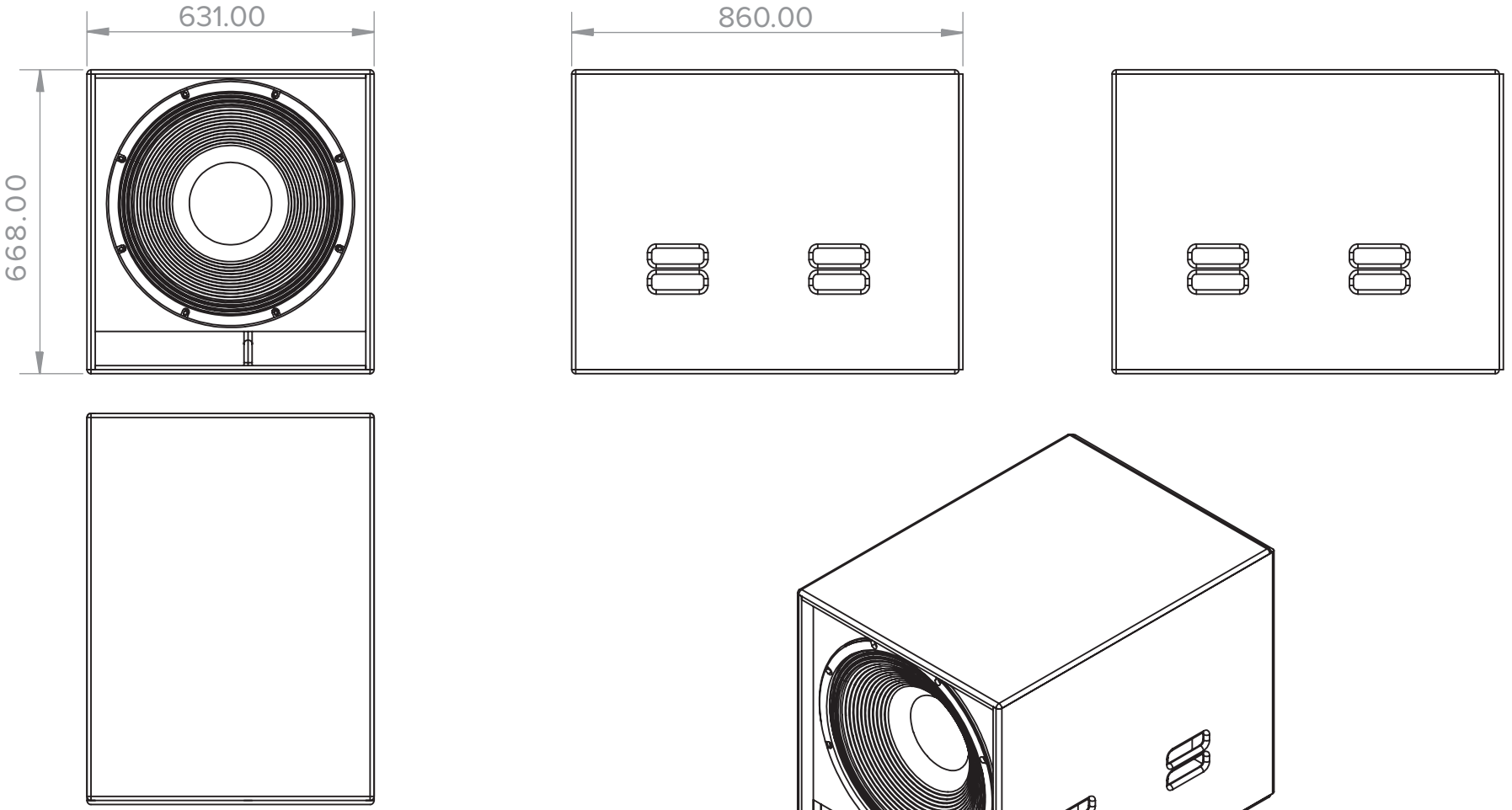


FANE

PROJECT:	PART:				
Fane 121XS - 260 Lt 21” Reflex Cab	Parts Exploded View				
NOTES:	REVISION: Rev.1A	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 6 OF 22	

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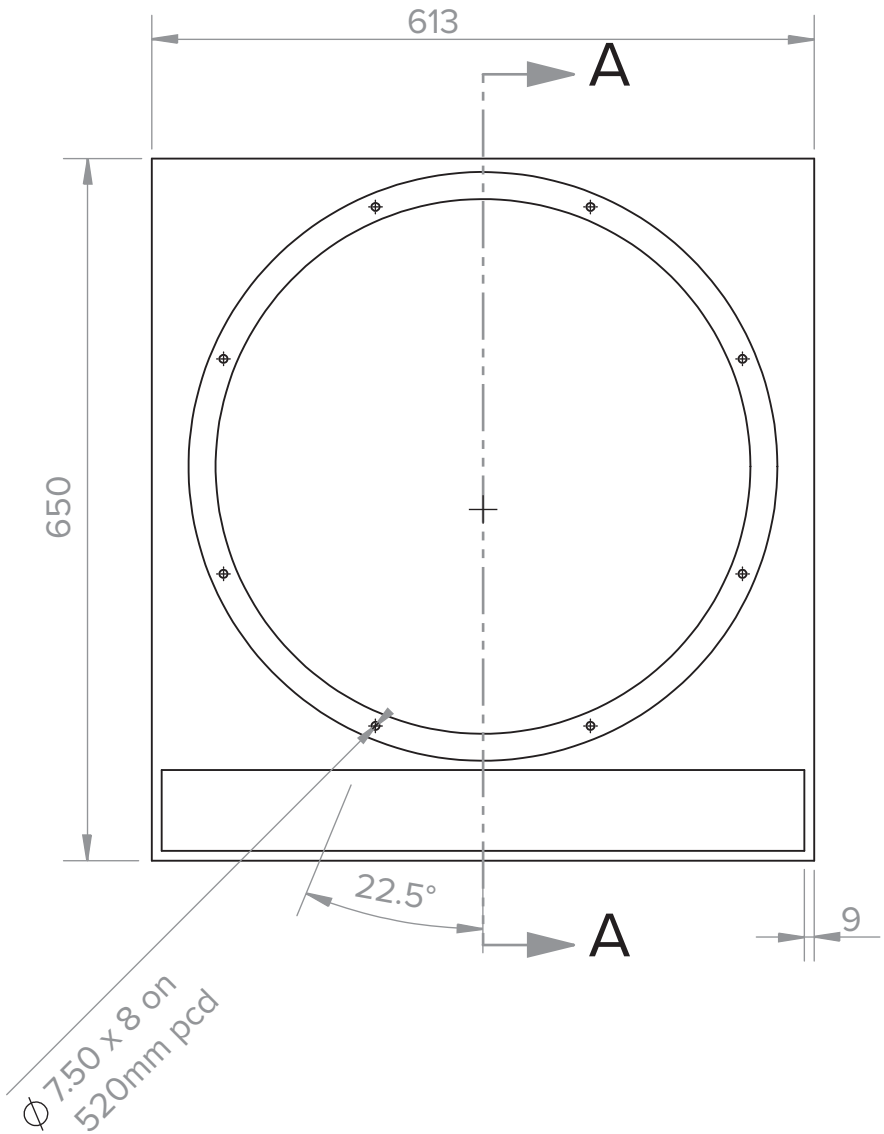


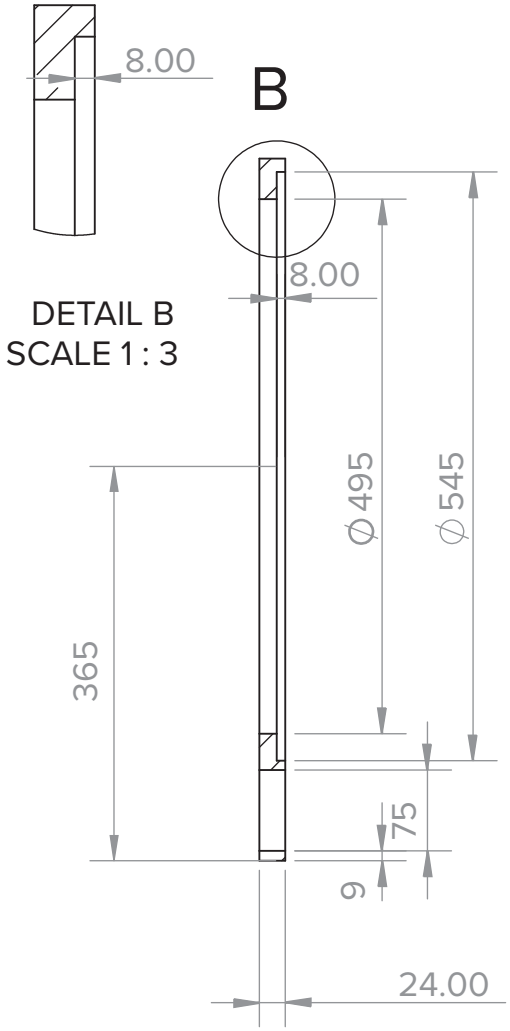
Net Volume 260 ltr - Tuning 35Hz
HPF: Butterworth 24 dB/oct @29Hz
LPF: Butterworth 12 dB/Oct @95 Hz
129dB Maximum SPL
1400 watts with 8 Ohm Load

FANE

PROJECT: **Fane 121XS - 260 Lt 21" Reflex Cab**	PART:			
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 7 OF 22

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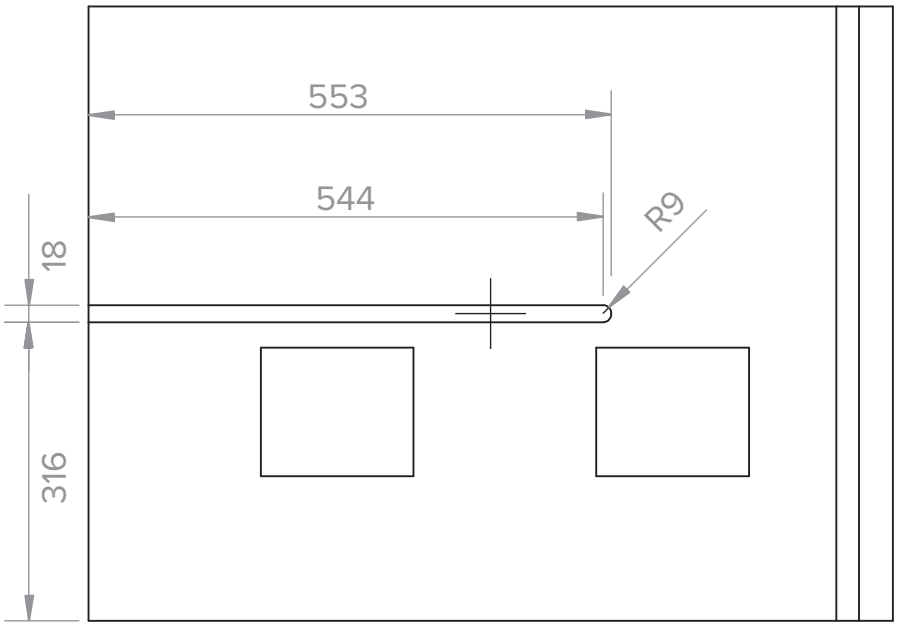
DETAIL B
SCALE 1 : 3

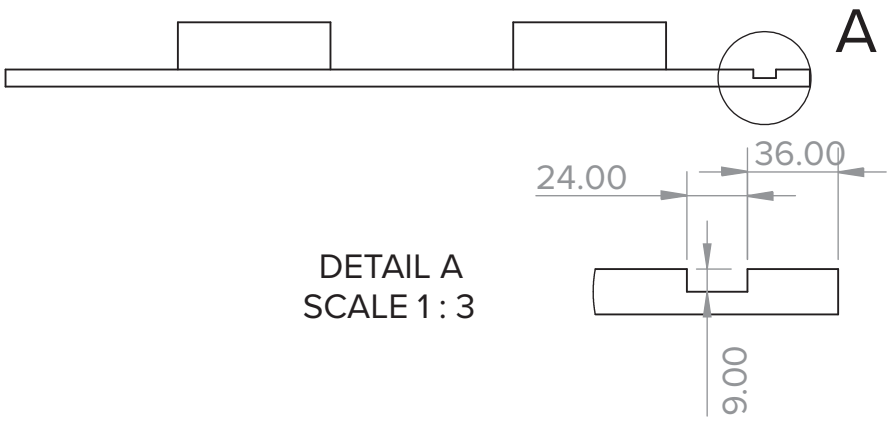
SECTION A-A
SCALE 1 : 7

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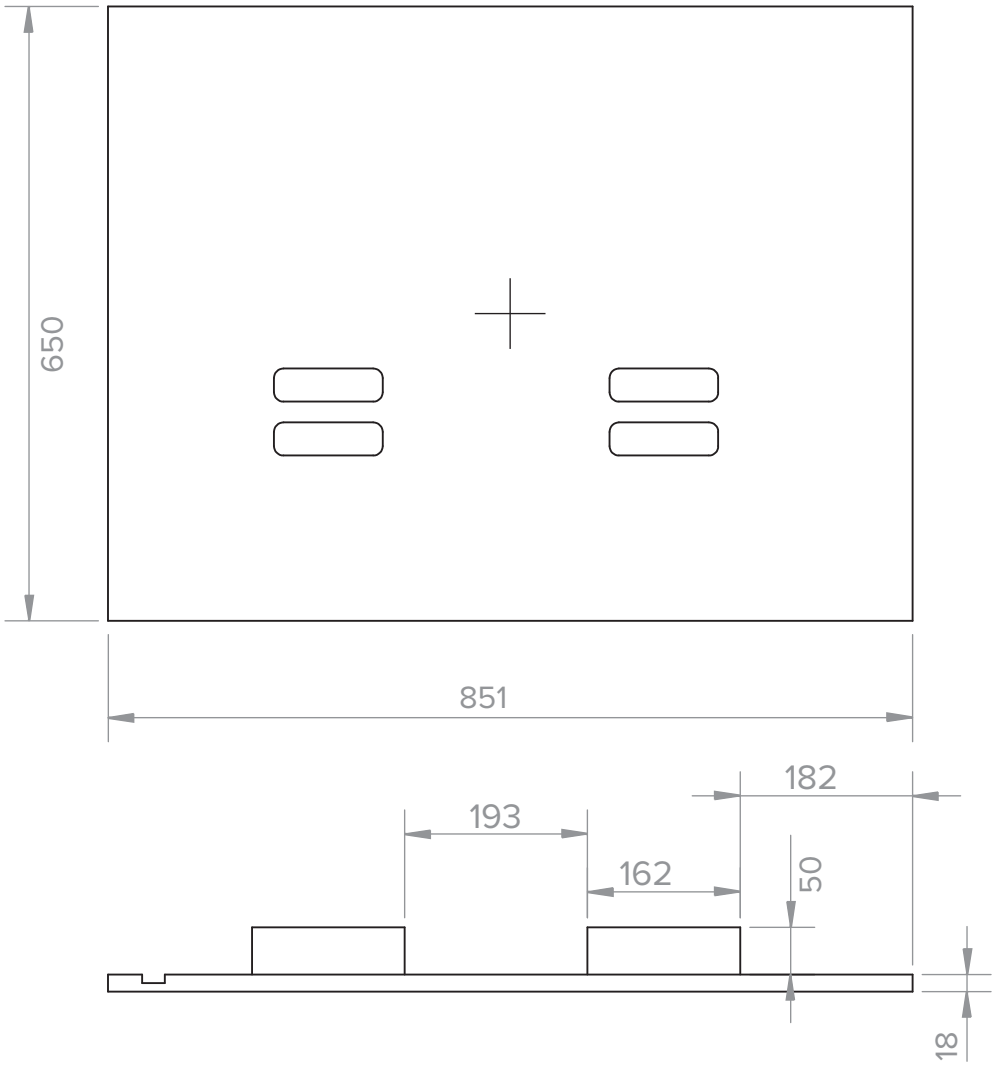
PROJECT: **Fane 121XS - 260 Lt 21" Reflex Cab**	PART: **A. Baffle Construction**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 8 OF 22	

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DETAIL A
SCALE 1 : 3

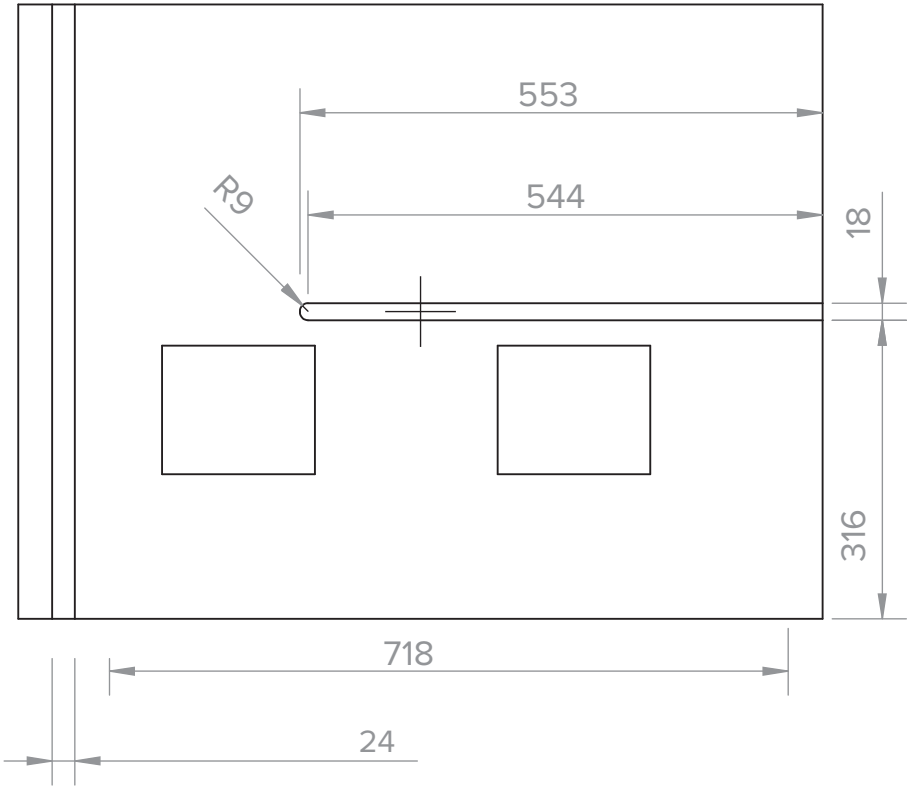


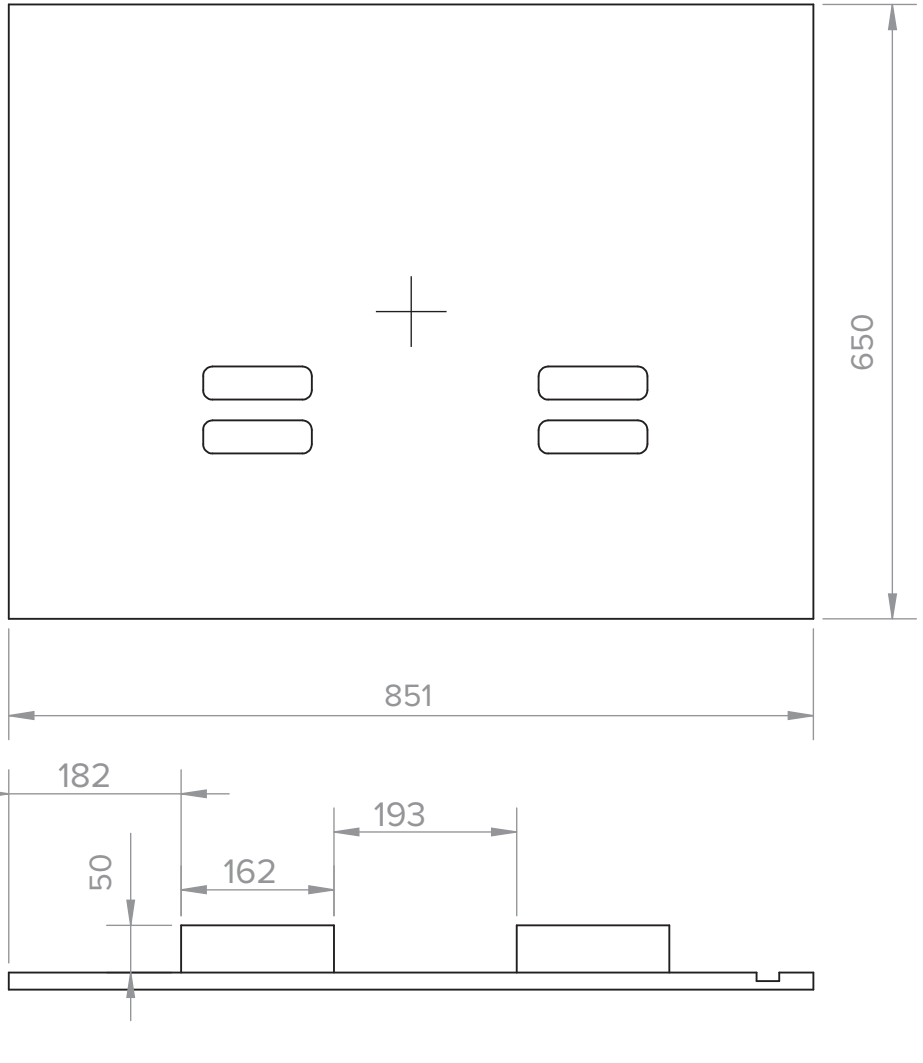
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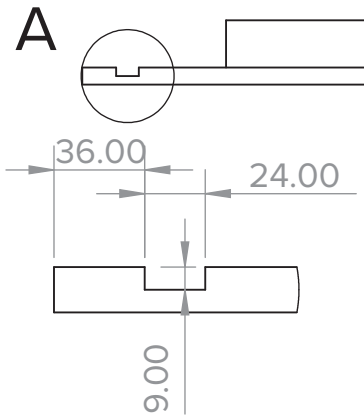
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PROJECT: **Fane 121XS - 260 Lt 21" Reflex Cab**	PART: **B. Right Side Panel**			
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 9 OF 22

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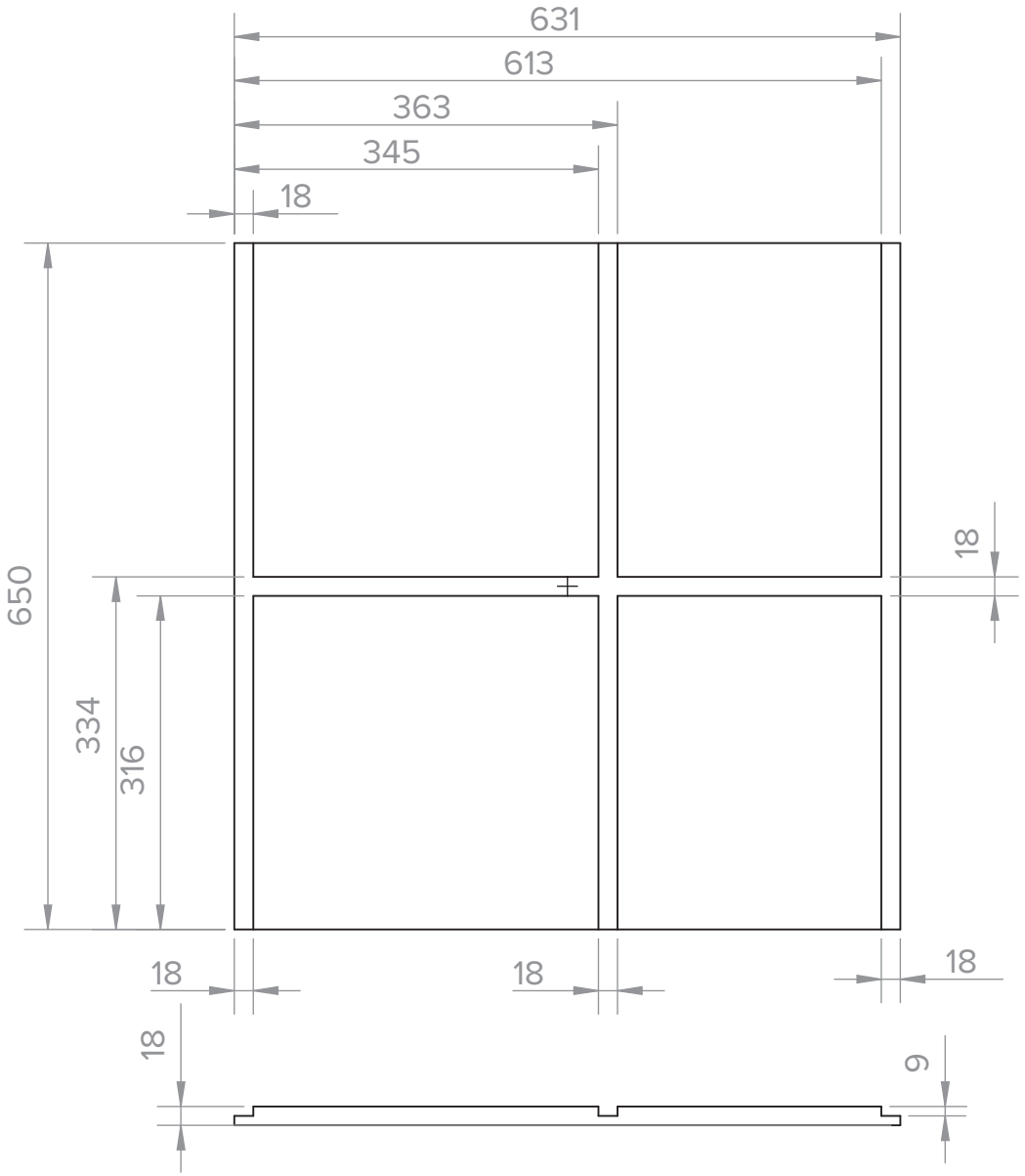
DETAIL A
SCALE 1 : 3

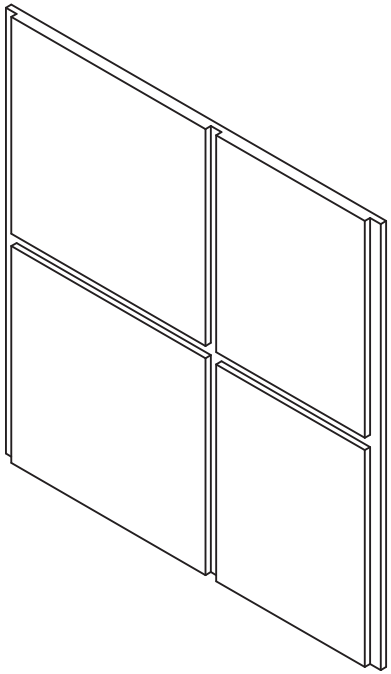
Handle positions for illustration olny:

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PROJECT: **Fane 121XS - 260 Lt 21" Reflex Cab**	PART: **B. Left Side Panel**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 10 OF 22	

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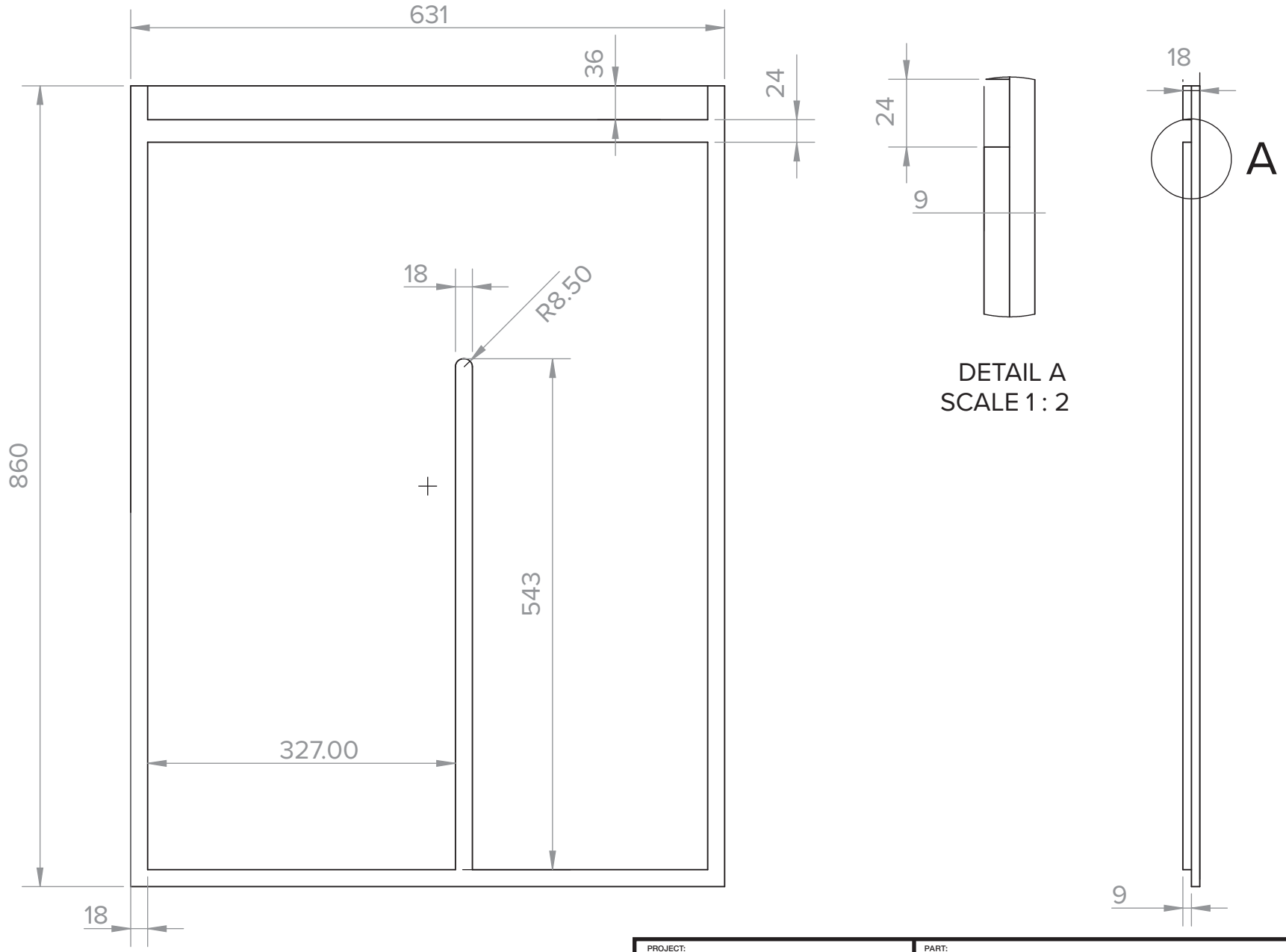




PROJECT:	PART:				
Fane 121XS - 260 Lt 21” Reflex Cab	C. Back Panel				
NOTES:	REVISION:	SCALE:	DIMENSIONS:		SHEET:
2 Ports Required	Rev.1A		MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE		11 OF 22

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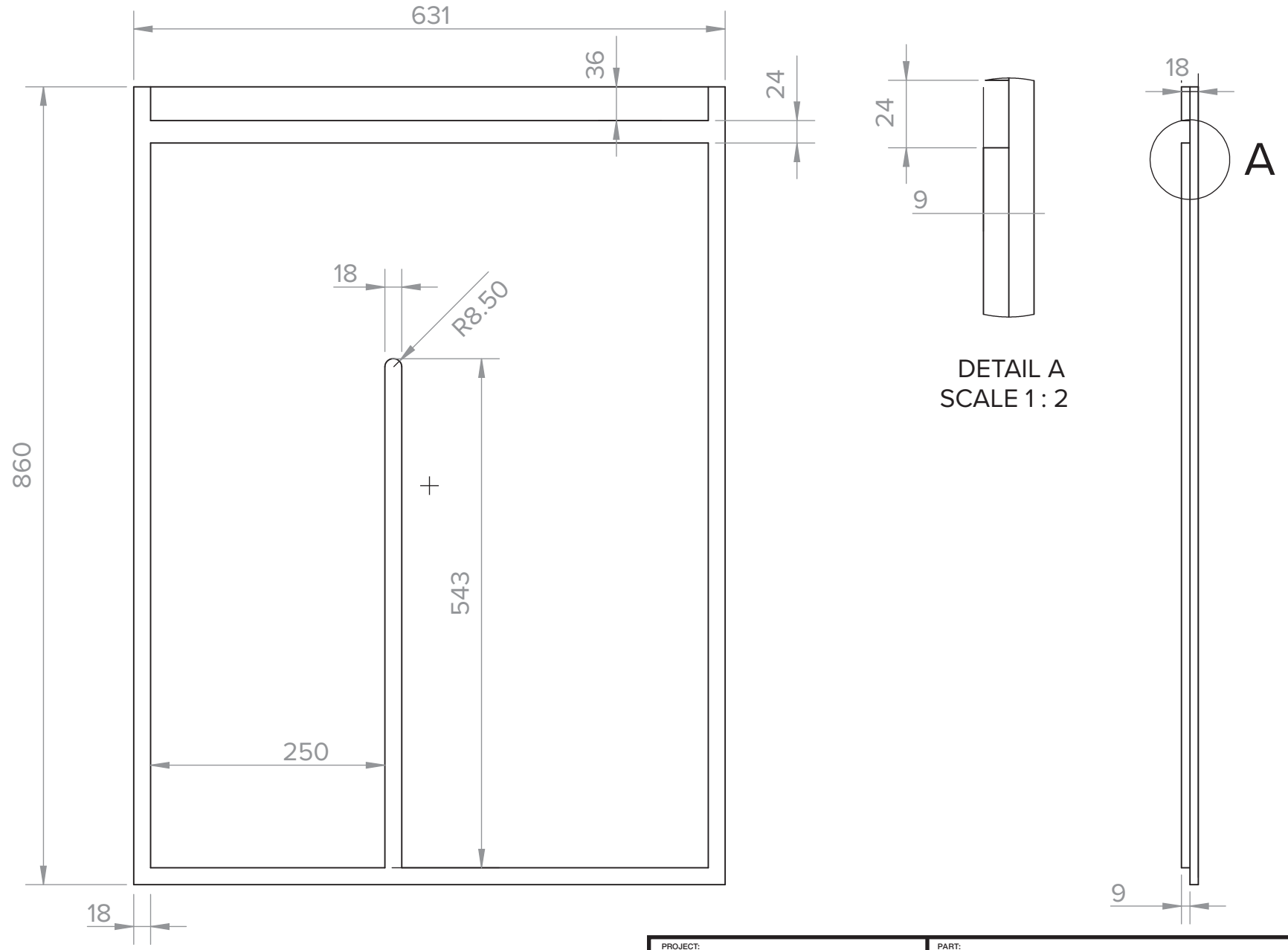


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PROJECT:	PART:				
Fane 121XS - 260 Lt 21" Reflex Cab	**D. Top Panel**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 12 OF 22	

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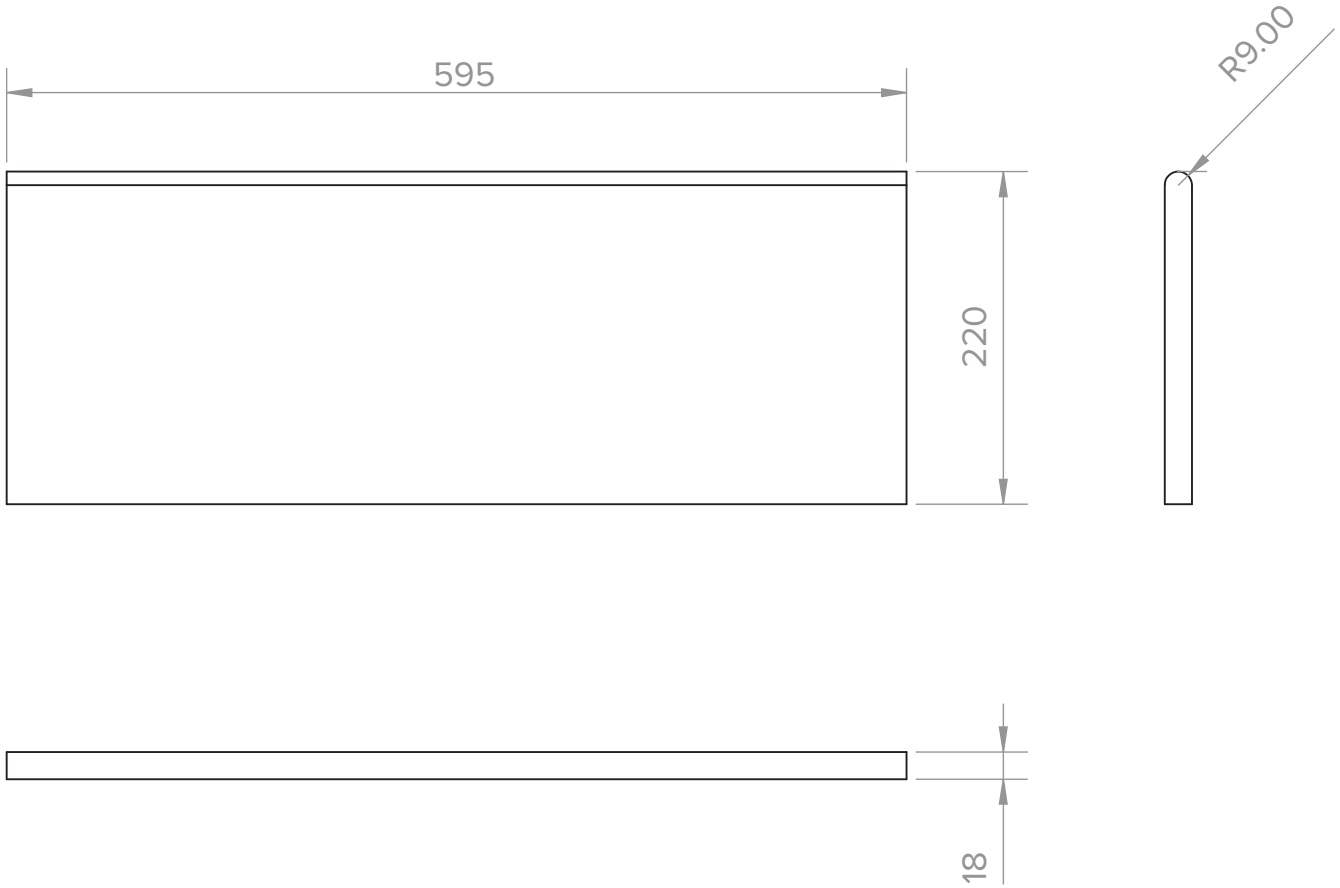


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PROJECT:	PART:				
Fane 121XS - 260 Lt 21” Reflex Cab	**E. Bottom Panel**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 13 OF 22	

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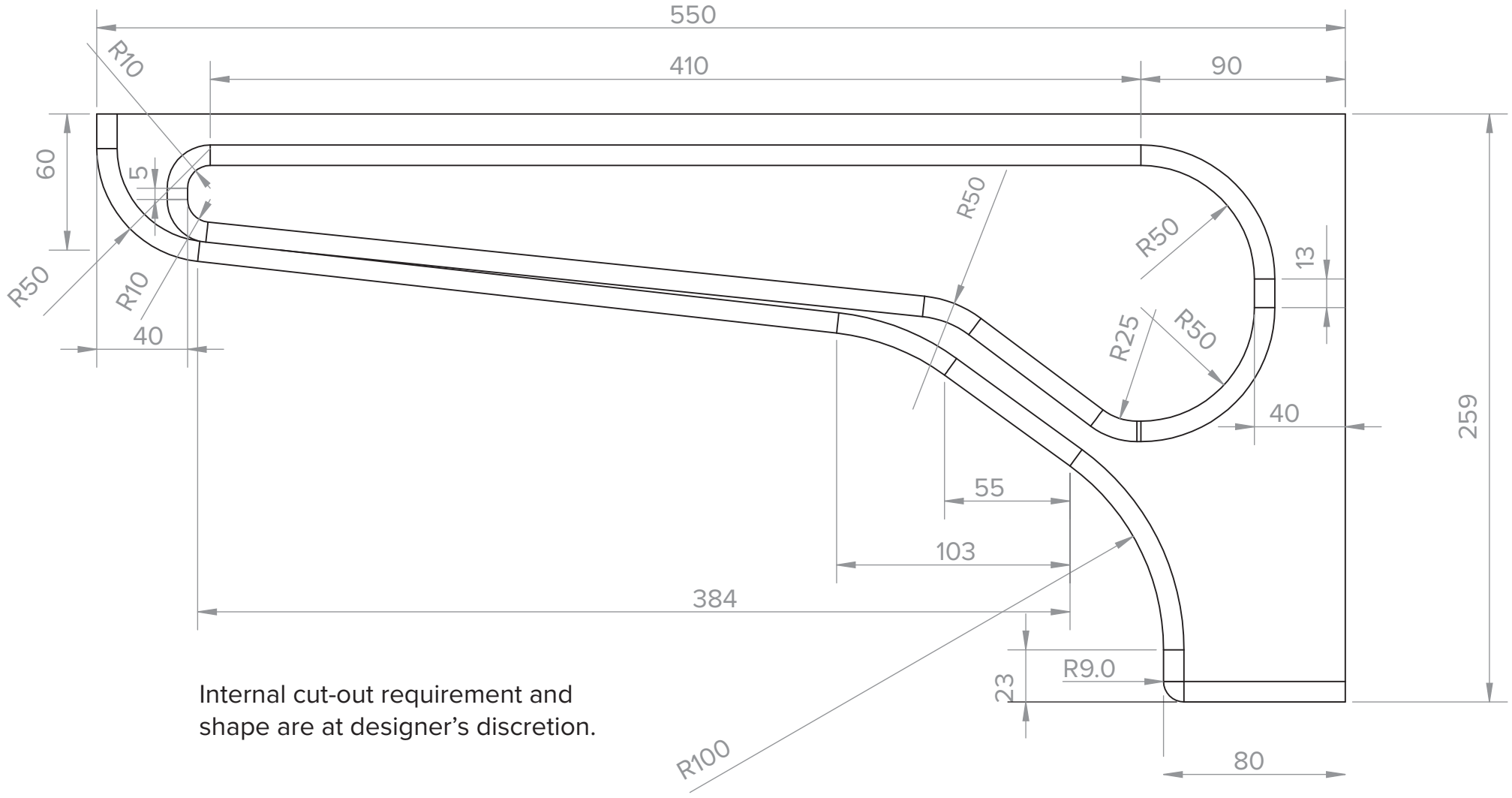


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PROJECT:	PART:				
Fane 121XS - 260 Lt 21” Reflex Cab	**F. Port Panel**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 14 OF 22	

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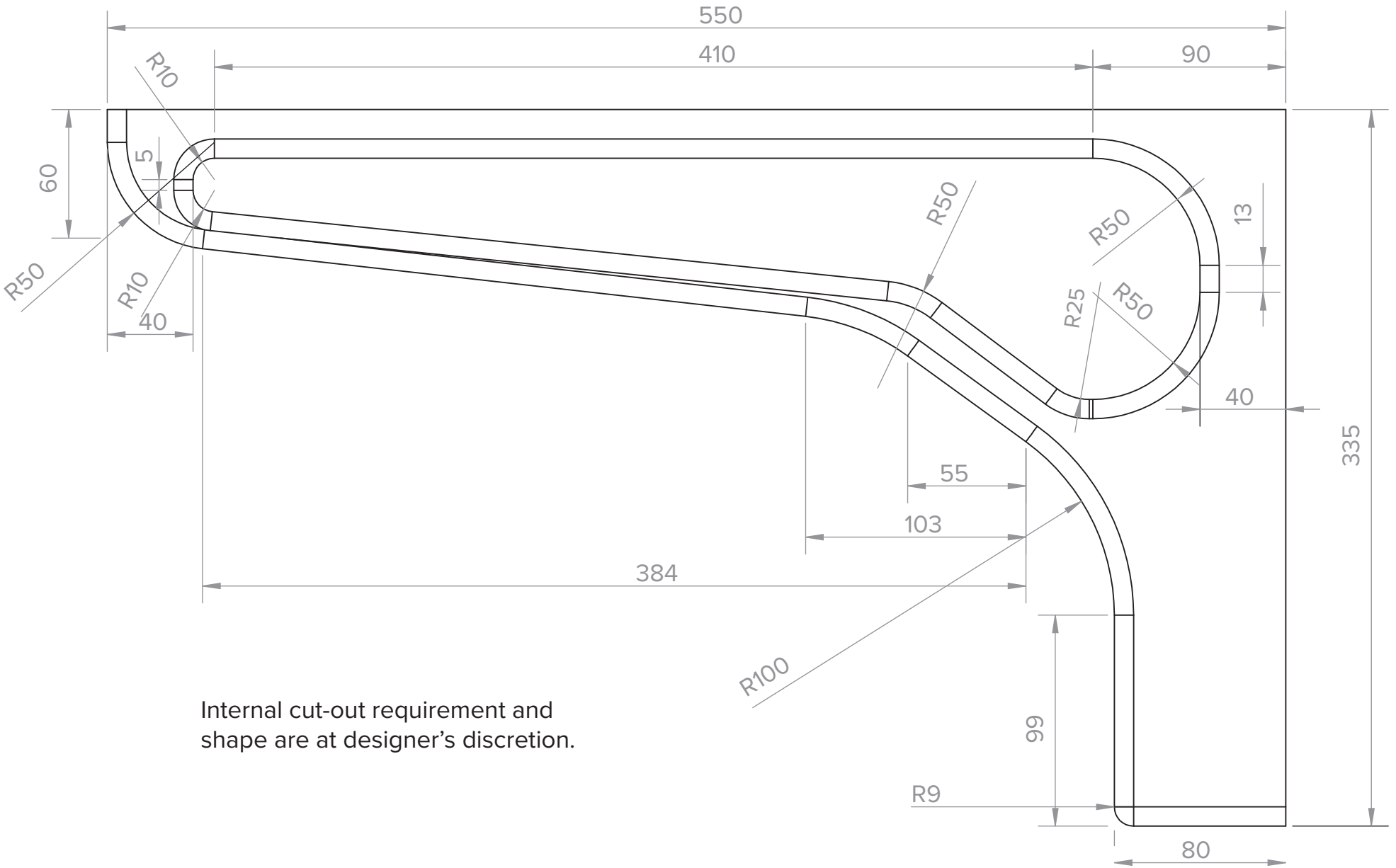
Internal cut-out requirement and shape are at designer's discretion.

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PROJECT:	PART:				
Fane 121XS - 260 Lt 21" Reflex Cab	**G. Right Side Internal Brace Panel**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 15 OF 22	

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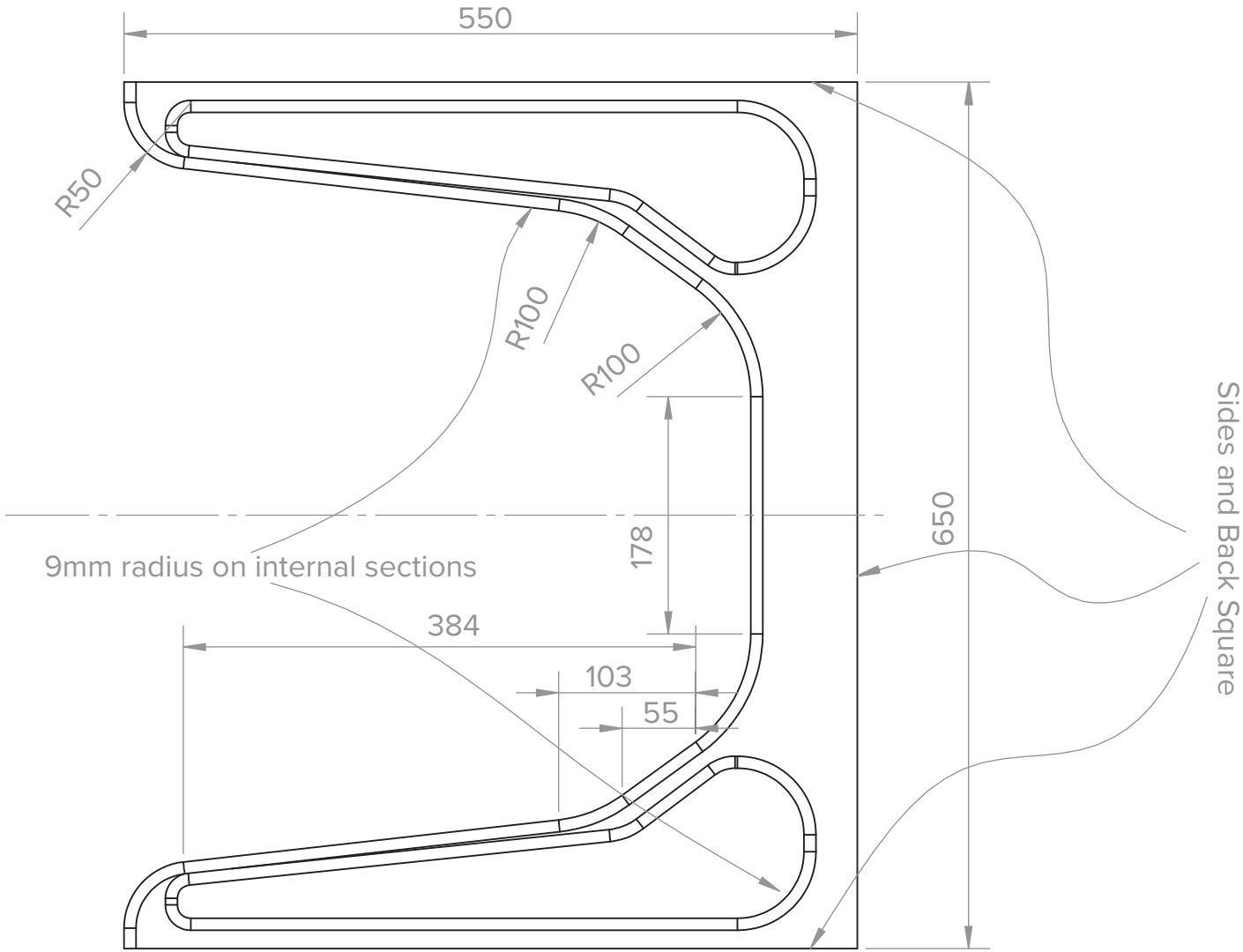
Internal cut-out requirement and shape are at designer’s discretion.

FANE

PROJECT:	PART:				
Fane 121XS - 260 Lt 21” Reflex Cab	**H. Left Side Internal Brace Panel**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 16 OF 22	

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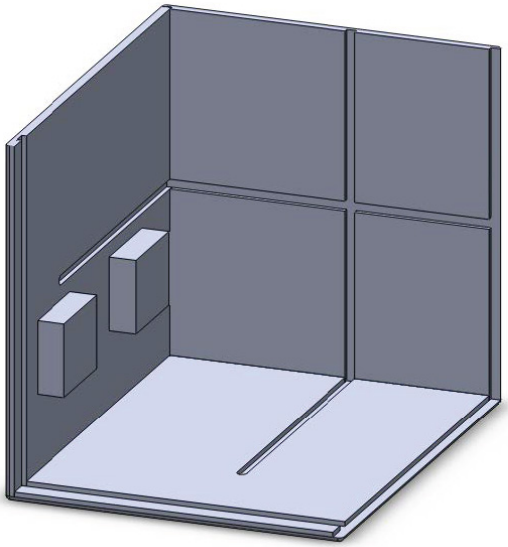
Internal cut-out requirement and shape are at designer's discretion. Refer to Internal Side Brace for cut-out details if required.

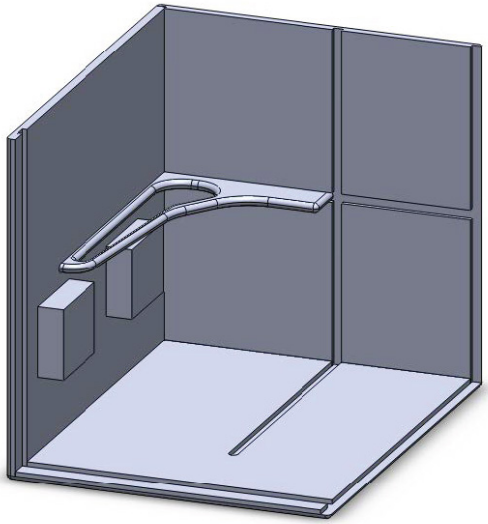
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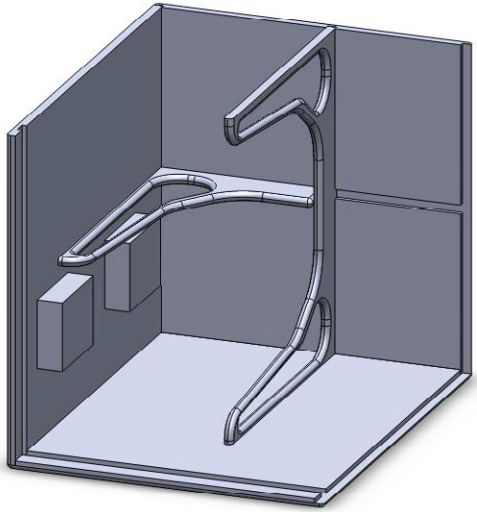
PROJECT: **Fane 121XS - 260 Lt 21" Reflex Cab**	PART: **I. Vertical Cross-brace Panel**				
NOTES: **4 Required**	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 17 OF 22	

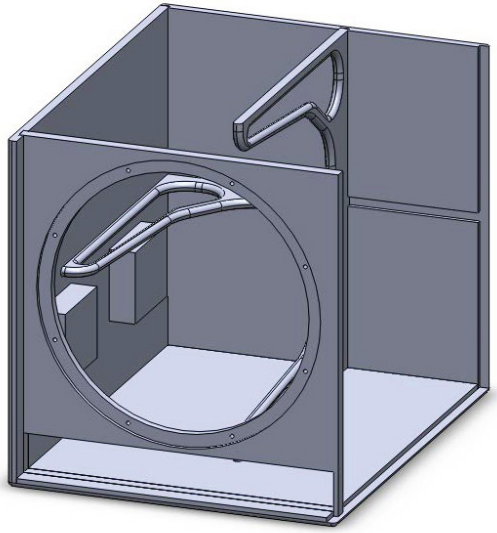
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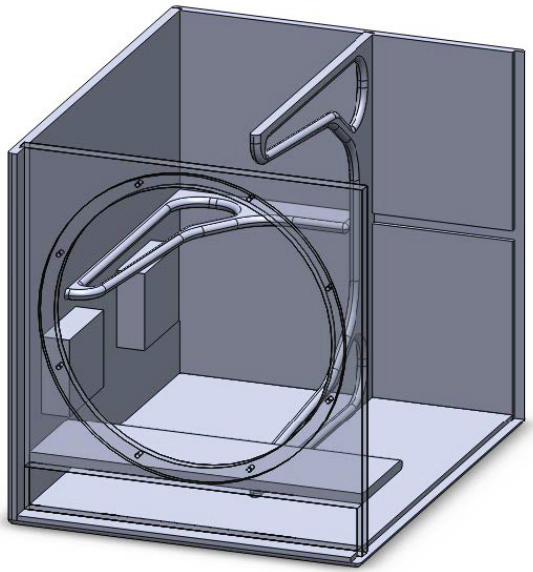


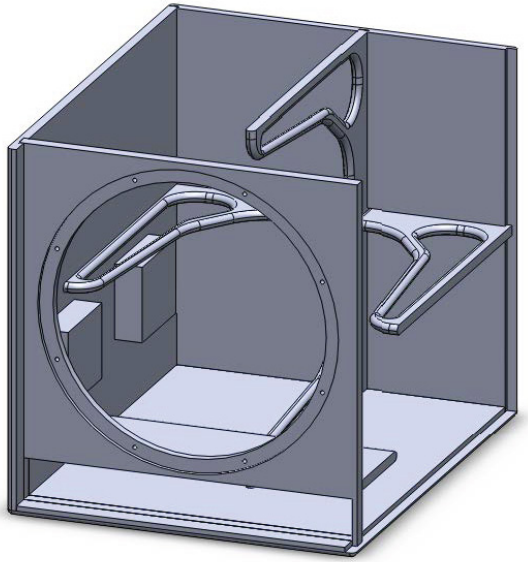
FANE

PROJECT:	PART:				
Fane 121XS - 260 Lt 21” Reflex Cab	Assembly Views				
NOTES:	REVISION:	SCALE:	DIMENSIONS:		SHEET:
	Rev.1A		MM	TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	18 OF 22

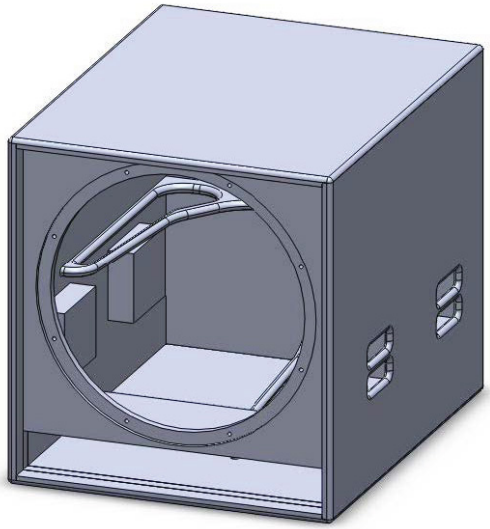
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PROJECT: **Fane 121XS - 260 Lt 21” Reflex Cab**	PART: **Assembly Views**				
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 19 OF 22	

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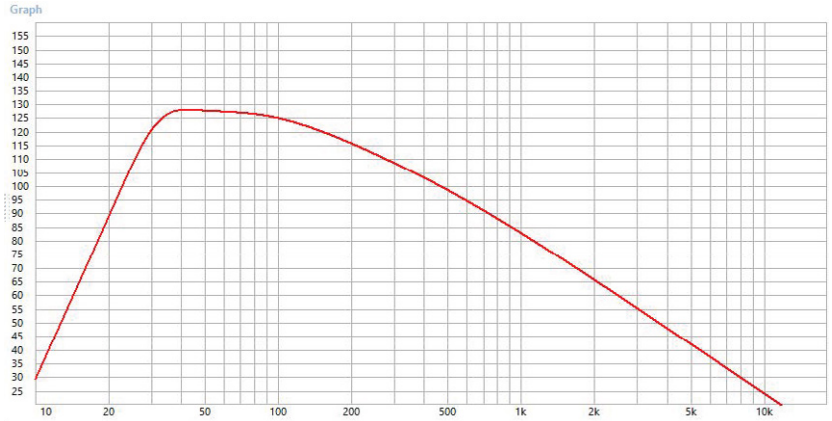
FANE

PROJECT:	PART:			
Fane 121XS - 260 Lt 21” Reflex Cab	**Assembly Views**			
NOTES:	REVISION: **Rev.1A**	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 20 OF 22

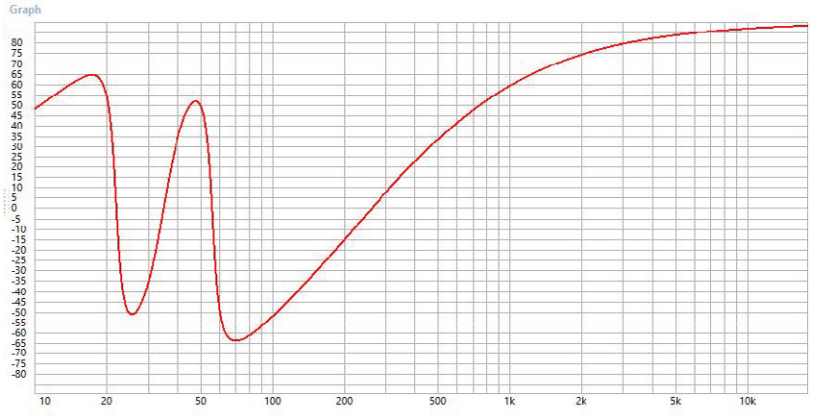
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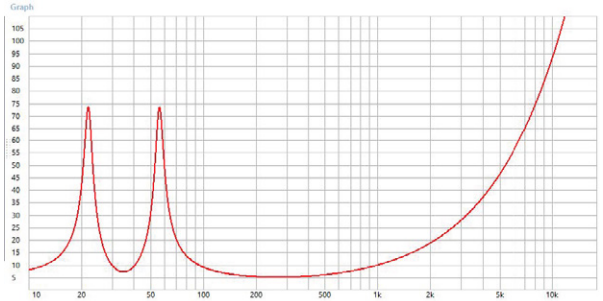
Predicted Bass Response (Colossus Prime 21XS)



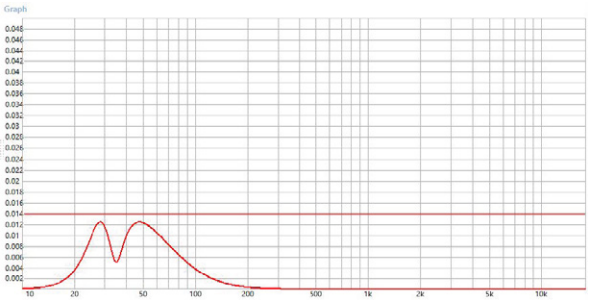
Phase Chart (Colossus Prime 21XS)



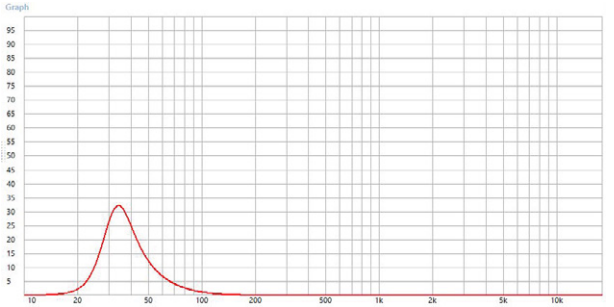
Impedance (Colossus Prime 21XS)



Cone Displacement (Colossus Prime 21XS)



Vent Air Velocity (Colossus Prime 21XS)

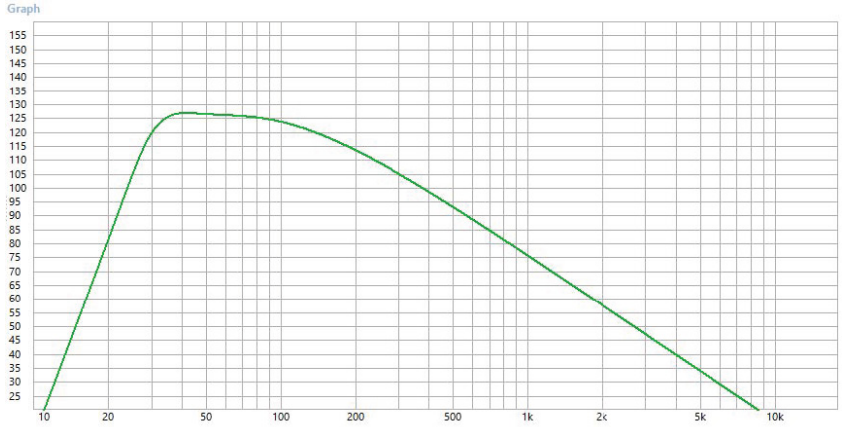


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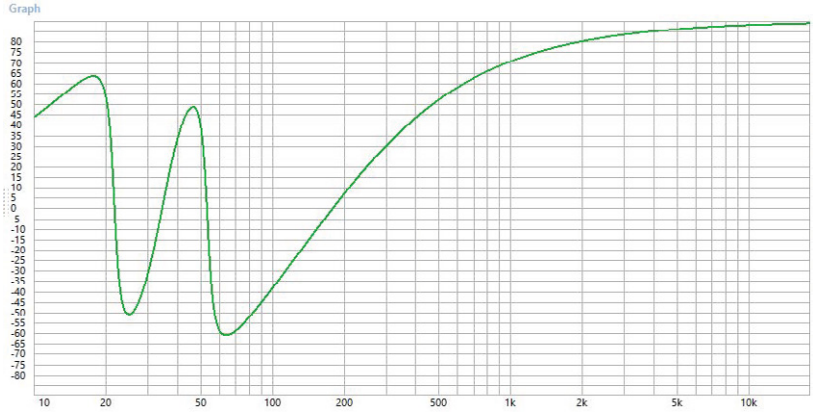
PROJECT: Fane 121XS - 260 Lt 21” Reflex Cab	PART: Measurements			
NOTES:	REVISION: Rev.1A	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 21 OF 22

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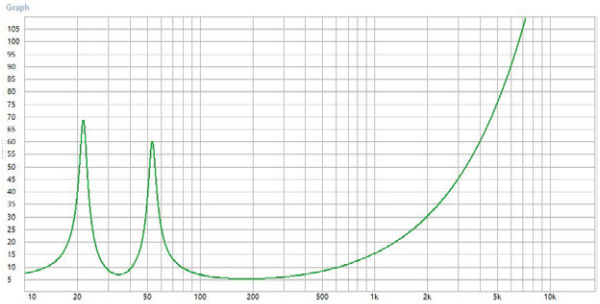
Predicted Bass Response (Colossus Prime 21NDXL)



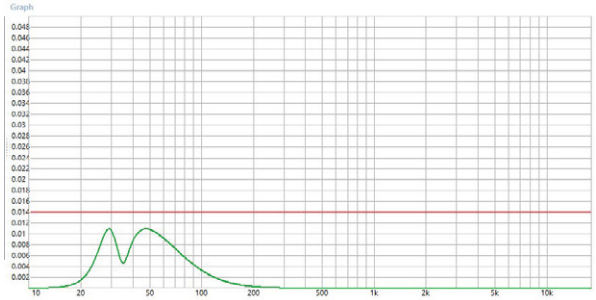
Phase Chart (Colossus Prime 21NDXL)



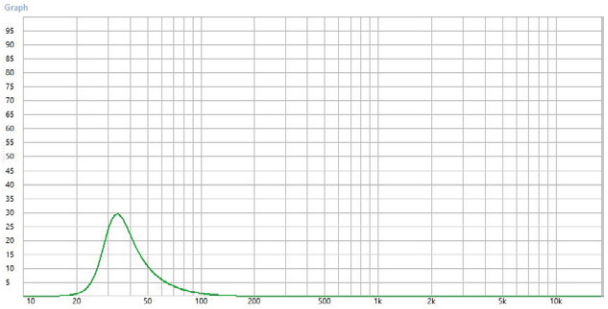
Impedance (Colossus Prime 21NDXL)



Cone Displacement (Colossus Prime 21NDXL)



Vent Air Velocity (Colossus Prime 21NDXL)



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PROJECT: Fane 121XS - 260 Lt 21” Reflex Cab	PART: Measurements			
NOTES:	REVISION: Rev.1A	SCALE:	DIMENSIONS: MM TOLERANCE LINEAR ± 0.4, HOLES +0.1/-0.0, NONE - CUMULATIVE	SHEET: 22 OF 22

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