



FANE

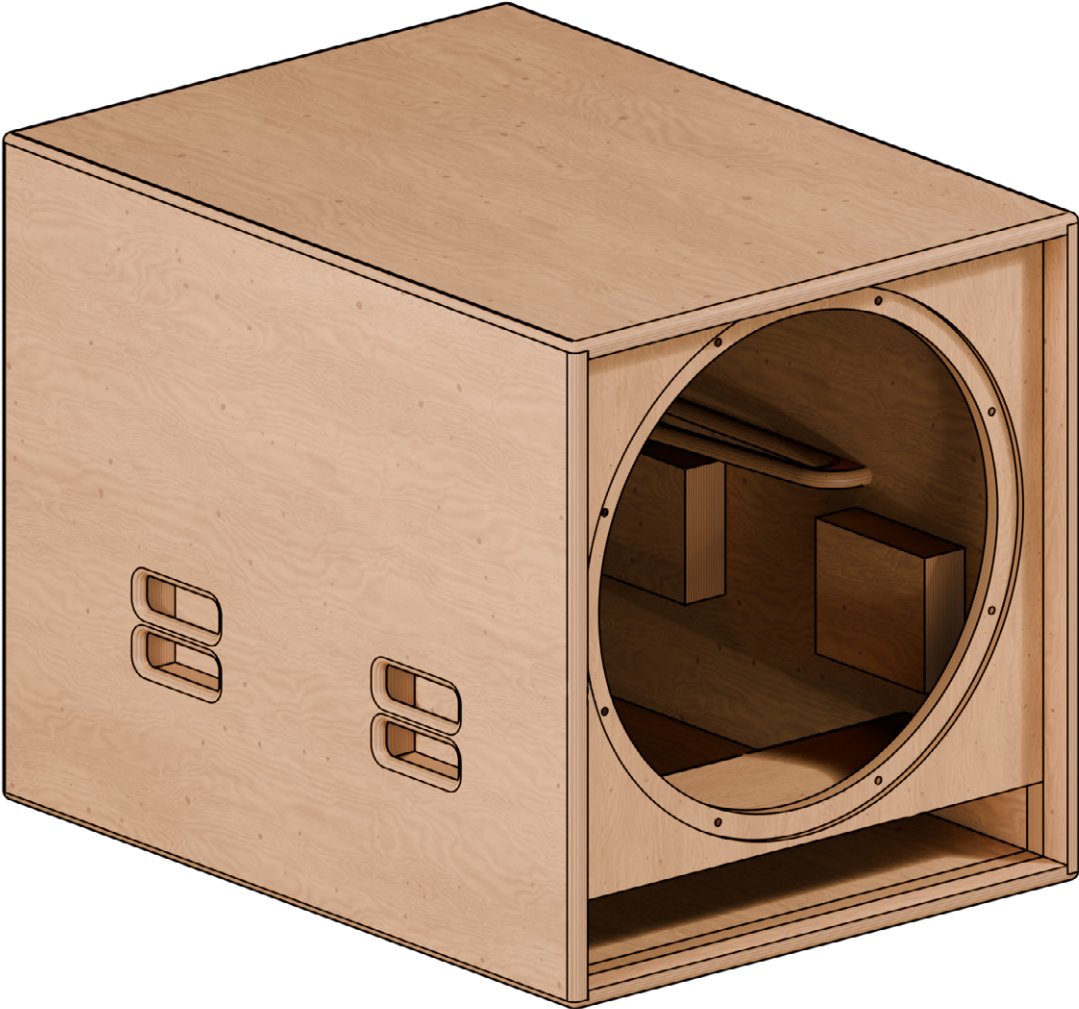
FANE 121XS - 260 LTR, 21" BASS REFLEX ENCLOSURE

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

WWW.FANE-INTERNATIONAL.COM



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|--|--|---------------------|--------|---|-------------------|
| 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: 2 OF 25 |



| | | | | |
|--|--|-------------------------|--------|---|
| 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: 3 OF 25 |

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>



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|--|--|--|--------|--|
| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: Enclosure Construction Hints and Tips | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | SHEET: 4 OF 25 | | |

COLOSSUS PRIME 21XS

21" FERRITE SUB BASS DRIVER

21" / 530 mm

CHASSIS DIAMETER

1500 W

AES POWER HANDLING

30 Hz - 300 Hz

FREQUENCY RESPONSE

5.5" / 138.7 mm

VOICE COIL DIAMETER

97.5 dB

SENSITIVITY (1W/ 1m)

11 mm Xmax

MAX. LINEAR EXCURSION

The Colossus Prime 21XS is a highly dynamic driver with exceptionally low distortion, ideal for hybrid horn-loaded and bass reflex cabinet designs. The 21XS delivers a sensitivity of 97.5 dB across its operating range and can handle up to 3000 W of continuous program power.

The driver is equipped with a ceramic magnetic assembly that generates an impressive force factor of 31.3 T/m and supports

linear excursion. Its design includes an optimised suspension system and a ribbed paper cone, offering outstanding mechanical stability and control. This results in extremely low distortion and allows for a peak-to-peak excursion of 60 mm before damage.



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Instagram.com/FaneLoudspeakers



linkedin.com/company/faneinternational



COLOSSUS PRIME 21XS

21" FERRITE SUB BASS DRIVER

1500 W

AES POWER HANDLING

5.5" / 138.7 mm

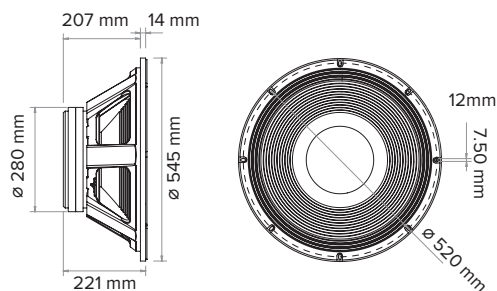
VOICE COIL DIAMETER

97.5 dB

SENSITIVITY (1W/ 1m)

FANE

- ▶ Rigid cone membrane ensures tight, accurate bass at high excursion and SPL.
- ▶ 5.5" Inside/ Outside windings, copper voice coil.
- ▶ Optimised forced air cooling offers effective power compression reduction.
- ▶ Silicone damped suspension system with optimised compliance.
- ▶ Suitable for hybrid horn-loaded and bass reflex enclosure designs.



GENERAL SPECIFICATIONS

| | |
|--|----------------------------|
| Nominal Chassis Diameter | 21" / 530 mm |
| Nominal Impedance ⁽¹⁾ | 8 Ohm |
| Minimum Impedance ^(2min) | 6.5 Ω |
| AES Power Handling ⁽²⁾ | 1500 W (A.E.S.) |
| Program Power | 3000 W |
| Peak Power ^(6dB Crest Factor) | 6000 W |
| Frequency Range ^(-6dB) | 30 Hz - 300 Hz |
| Sensitivity ^(1W/1m) | 97.5 dB |
| Magnet Material | Ferrite |
| Magnet Weight | - |
| Magnetic Gap Depth | 0.47" / 12 mm |
| Flux Density | 1.2 Tesla |
| Former Material | Glass Fibre |
| Voice Coil Material | Copper - Inside/ Outside |
| Coil Winding Height | 1.26" / 32 mm |
| Voice Coil Diameter | 5.5" / 138.7 mm |
| Cone/ Dust Dome Material | Fibre Loaded Paper / Paper |
| Surround / Edge Termination | Fabric |

TECHNICAL & THIELE SMALL PARAMETERS

| | |
|---------------------------|----------------------|
| Fs | 35 Hz |
| Re | 5.1 Ω |
| Qms | 7.88 |
| Qes | 0.354 |
| Qts | 0.339 |
| Vas | 266 Litres |
| Vd | 1.67 Litres |
| Cms | 65.5 μm/N |
| Bl | 31.3 T/m |
| Mms | 304 g |
| Xmax | 14 mm |
| Sd | 1520 cm ² |
| Efficiency | 3.1 % |
| Le ^(tk Hz) | 1.48 mH |
| EBP | 88.24 Hz |
| Effective Piston Diameter | 455 mm |
| Rec. Enclosure Volume | 150 - 200 Litres |

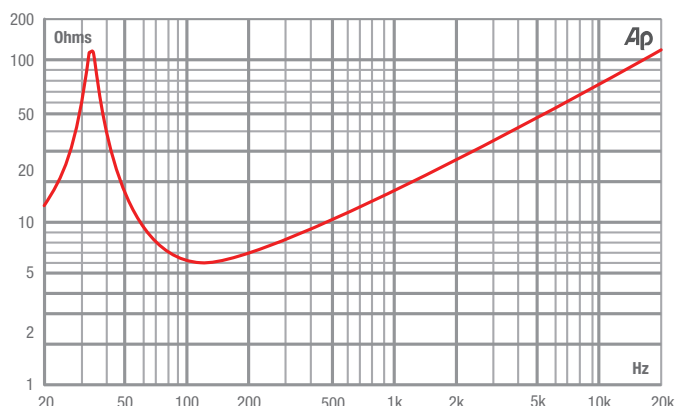
MOUNTING / SHIPPING INFORMATION

| | |
|-------------------------------------|-------------------------------------|
| Overall Diameter | 545 mm |
| Width Across Flats | N/A |
| Depth | 8.78" / 223 mm |
| Flange Height | 0.55" / 14 mm |
| Baffle Hole Diameter F/M | 495 mm |
| Baffle Hole Diameter R/M | 493 mm |
| Chassis Material | Die-cast Aluminium |
| Gasket Supplied | Front and Rear |
| Outer Fixing Holes | 6x 12 mm x 7 mm slots on 520 mm PCD |
| Inner Fixing Holes | N/a |
| Connectors ⁽⁴⁾ | Push-button Spring Terminals |
| Weight | approx 26.5 Kg |
| Shipping Weight | 30.5 Kg |
| Packing Carton Size ^(mm) | (W) 591 (D) 591 (H) 265 |



(1) Please enquire about alternative impedances.

(2) A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 35 Hz and 350 Hz. Driver mounted in free air, test signal applied at rated power for two hours.



(3) Half space response measured in a 975 Litre sealed box. Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

(4) Positive voltage at red terminal causes forward motion of cone.

COLOSSUS PRIME 21NDXL

21" NEODYMIUM SUB BASS DRIVER

21" / 530 mm

CHASSIS DIAMETER

1500 W

AES POWER HANDLING

30 Hz - 300 Hz

FREQUENCY RESPONSE

5.5" / 138.7 mm

VOICE COIL DIAMETER

98 dB

SENSITIVITY (1W/ 1m)

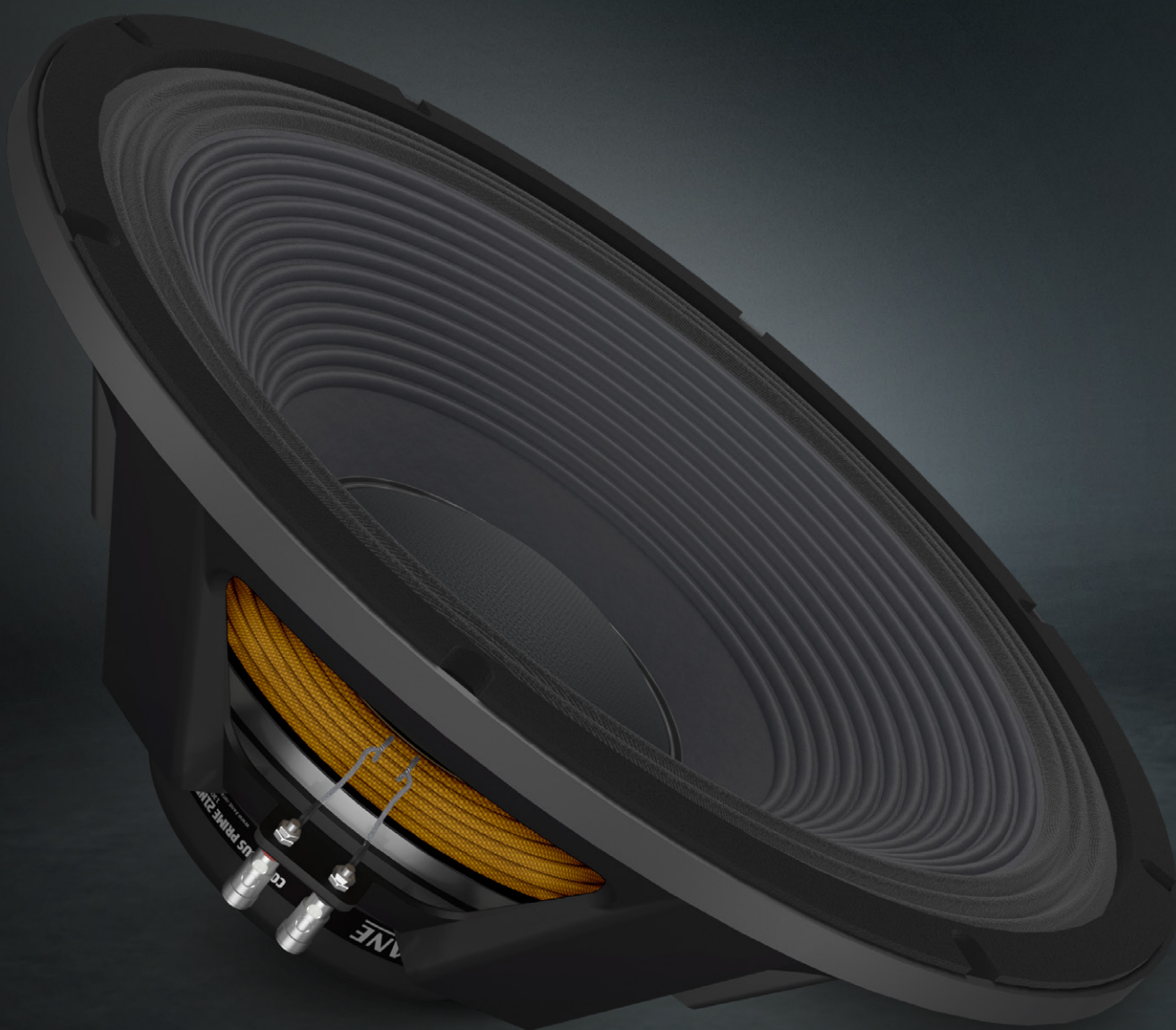
11 mm Xmax

MAX. LINEAR EXCURSION

The Colossus Prime 21NDXL surpasses expectations as an incredibly high-performing, low-distortion driver that is ideal for hybrid horn-loaded and bass reflex cabinet designs. With a sensitivity of 98 dB across its working band and an ability to handle 3000 W of continuous program power, to meet the demands of high-powered applications.

Equipped with a neodymium magnetic assembly, the Colossus Prime 21NDXL generates a remarkable force factor of 30 T/m,

enabling linear excursion for unparalleled performance. In addition, its optimised suspension system and ribbed paper cone provide exceptional mechanical stability and control. This design ensures extremely low distortion and allows for an impressive 60 mm of peak-to-peak excursion before reaching the damage threshold, guaranteeing consistent and reliable performance.



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linkedin.com/company/faneinternational



COLOSSUS PRIME 21NDXL

21" NEODYMIUM SUB BASS DRIVER

1500 W

AES POWER HANDLING

5.5" / 138.7 mm

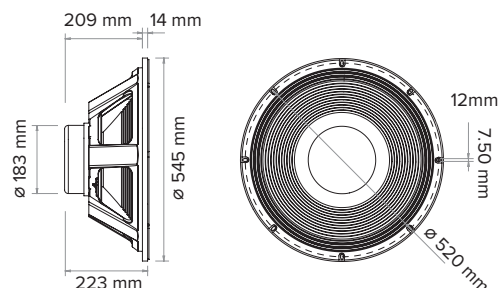
VOICE COIL DIAMETER

98 dB

SENSITIVITY (1W/ 1m)

FANE

- ▶ Rigid cone membrane ensures tight, accurate bass at high excursion and SPL.
- ▶ 5.5" Inside/ Outside windings, copper voice coil.
- ▶ Optimised, forced air cooling of the neodymium motor system offers effective power compression reduction.
- ▶ Silicone damped suspension system with optimised compliance.
- ▶ Suitable for hybrid horn-loaded and bass reflex enclosure designs.



GENERAL SPECIFICATIONS

| | |
|--|----------------------------|
| Nominal Chassis Diameter | 21" / 530 mm |
| Nominal Impedance ⁽¹⁾ | 8 Ohm |
| Minimum Impedance ^(2min) | -- Ω |
| AES Power Handling ⁽²⁾ | 1500 W (A.E.S.) |
| Program Power | 3000 W |
| Peak Power ^(6dB Crest Factor) | 6000 W |
| Frequency Range ^(-6dB) | 30 Hz - 300 Hz |
| Sensitivity ^(1W/ 1m) | 98 dB |
| Magnet Material | Neodymium |
| Magnet Weight | - |
| Magnetic Gap Depth | 0.47" / 12 mm |
| Flux Density | 1.45 Tesla |
| Former Material | Glass Fibre |
| Voice Coil Material | Copper - Inside/ Outside |
| Coil Winding Height | 1.26" / 32 mm |
| Voice Coil Diameter | 5.5" / 138.7 mm |
| Cone/ Dust Dome Material | Fibre Loaded Paper / Paper |
| Surround / Edge Termination | Fabric |

TECHNICAL & THIELE SMALL PARAMETERS

| | |
|---------------------------|----------------------|
| Fs | 33 Hz |
| Re | 5.1 Ω |
| Qms | 9.8 |
| Qes | 0.374 |
| Qts | 0.36 |
| Vas | 241 Litres |
| Vd | 1.67 Litres |
| Cms | 73.4 μm/N |
| Bl | 30 T/m |
| Mms | 320 g |
| Xmax | 14 mm |
| Sd | 1520 cm ² |
| Efficiency | 2.2 % |
| Le ^(1k Hz) | 2.4 mH |
| EBP | 88.24 Hz |
| Effective Piston Diameter | 455 mm |
| Rec. Enclosure Volume | 150 - 200 Litres |

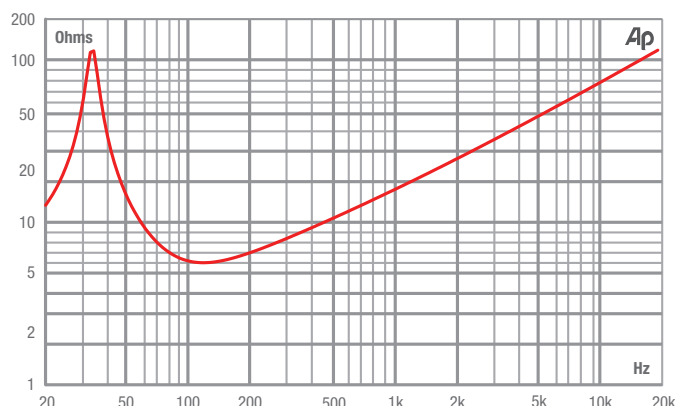
MOUNTING / SHIPPING INFORMATION

| | |
|-------------------------------------|-------------------------------------|
| Overall Diameter | 545 mm |
| Width Across Flats | N/A |
| Depth | 8.85" / 225 mm |
| Flange Height | 0.55" / 14 mm |
| Baffle Hole Diameter F/M | 495 mm |
| Baffle Hole Diameter R/M | 493 mm |
| Chassis Material | Die-cast Aluminium |
| Gasket Supplied | Front and Rear |
| Outer Fixing Holes | 6x 12 mm x 7 mm slots on 520 mm PCD |
| Inner Fixing Holes | N/a |
| Connectors ⁽⁴⁾ | Push-button Spring Terminals |
| Weight | approx 12.5 Kg |
| Shipping Weight | approx 16.5 Kg |
| Packing Carton Size ^(mm) | (W) 591 (D) 591 (H) 265 |



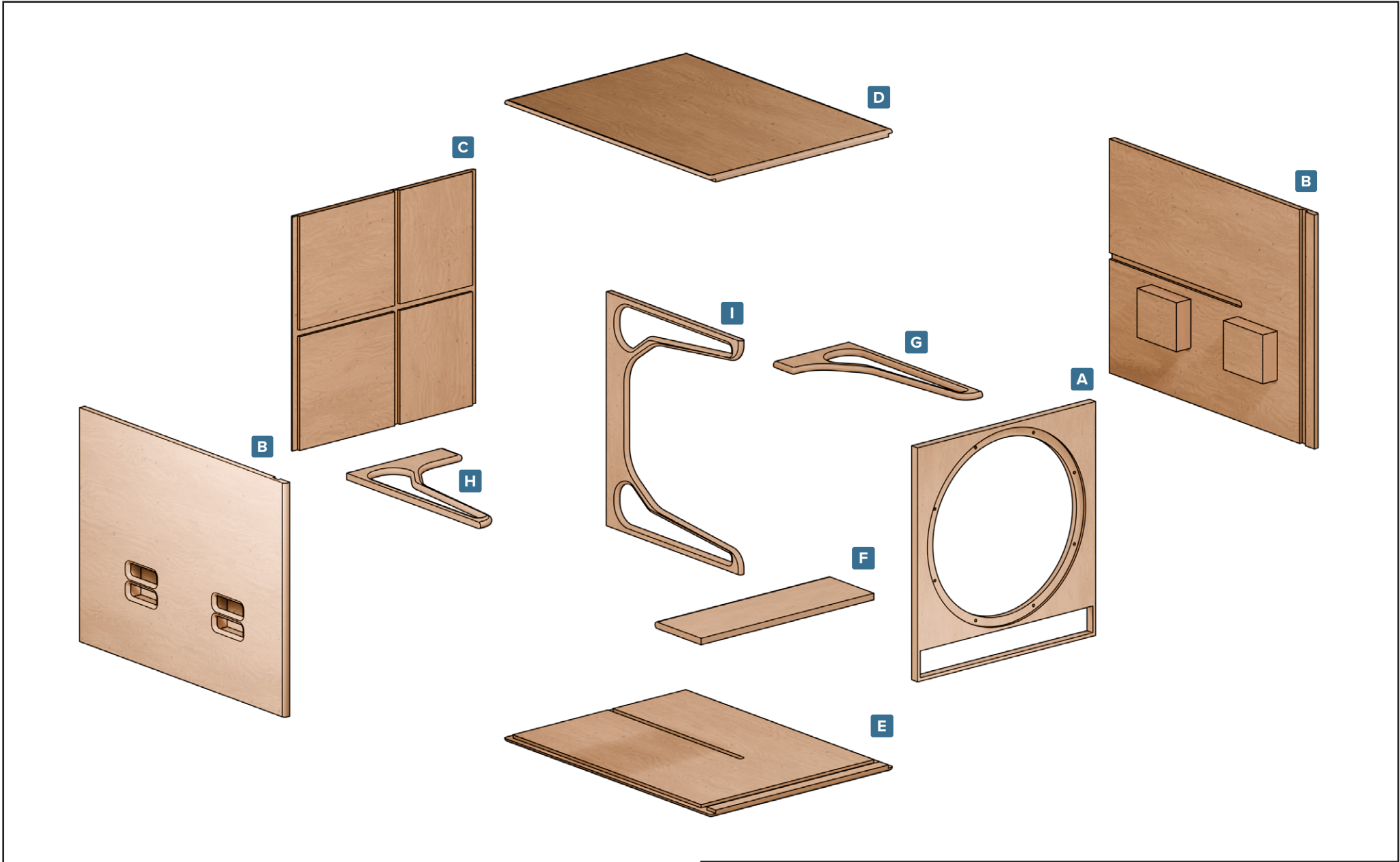
(1) Please enquire about alternative impedances.

(2) A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 35 Hz and 350 Hz. Driver mounted in free air, test signal applied at rated power for two hours.

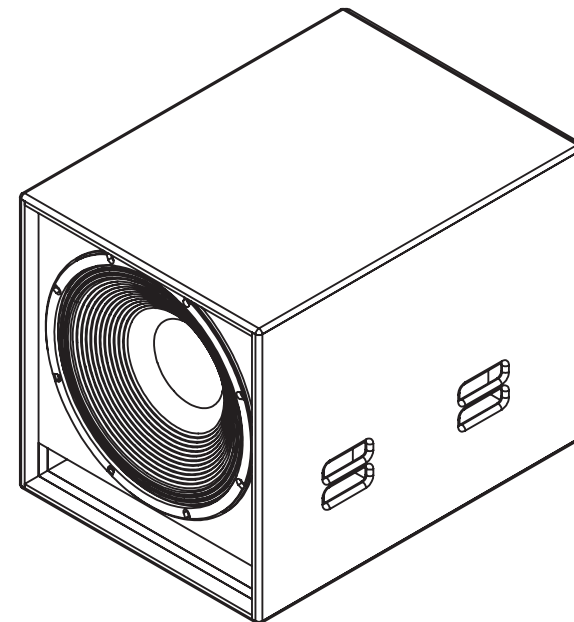
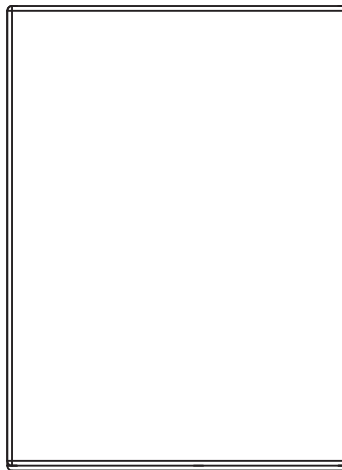
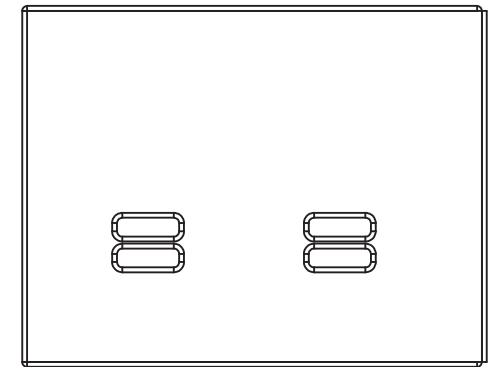
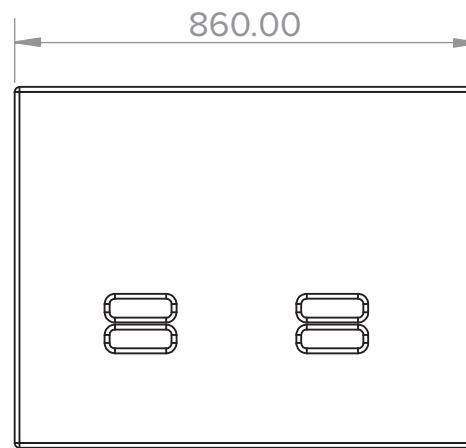
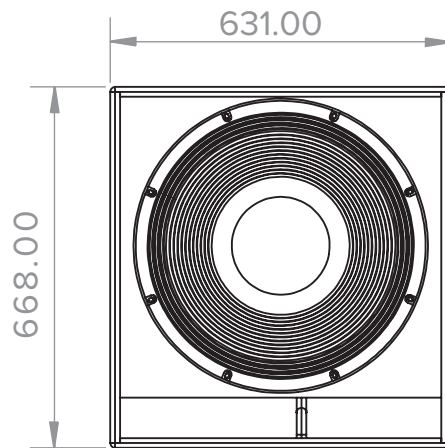


(3) Half space response measured in a 975 Litre sealed box. Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

(4) Positive voltage at red terminal causes forward motion of cone.



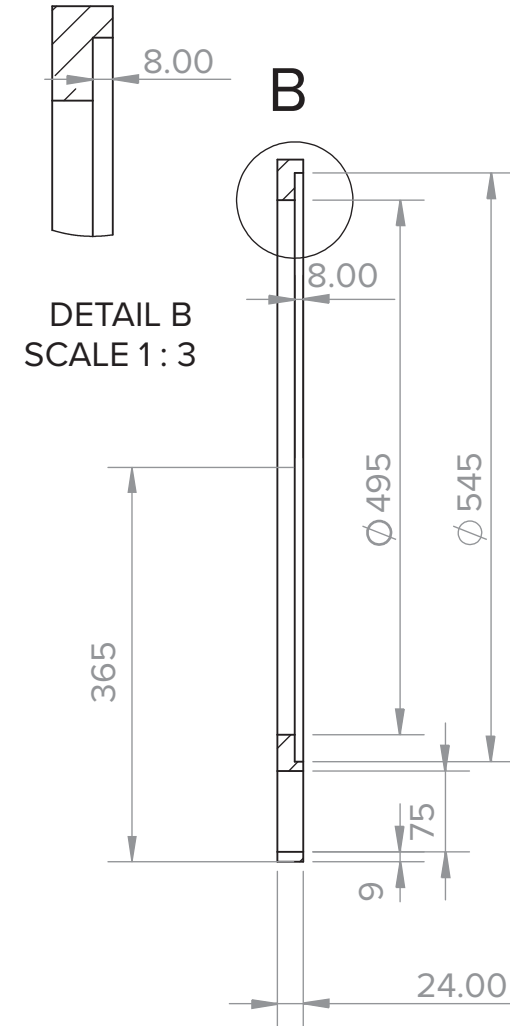
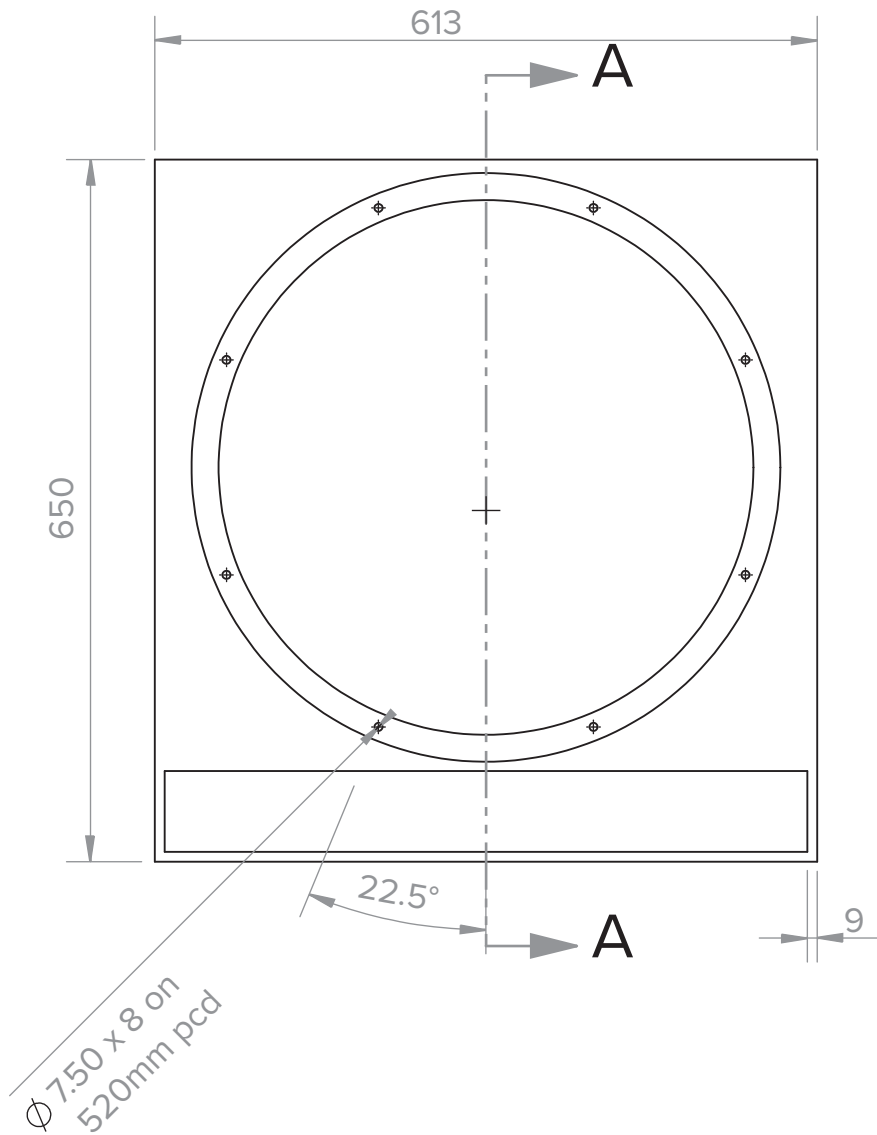
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|--|--|------------------------------|--------|---|
| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: Parts Exploded View | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 9 OF 25 |



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



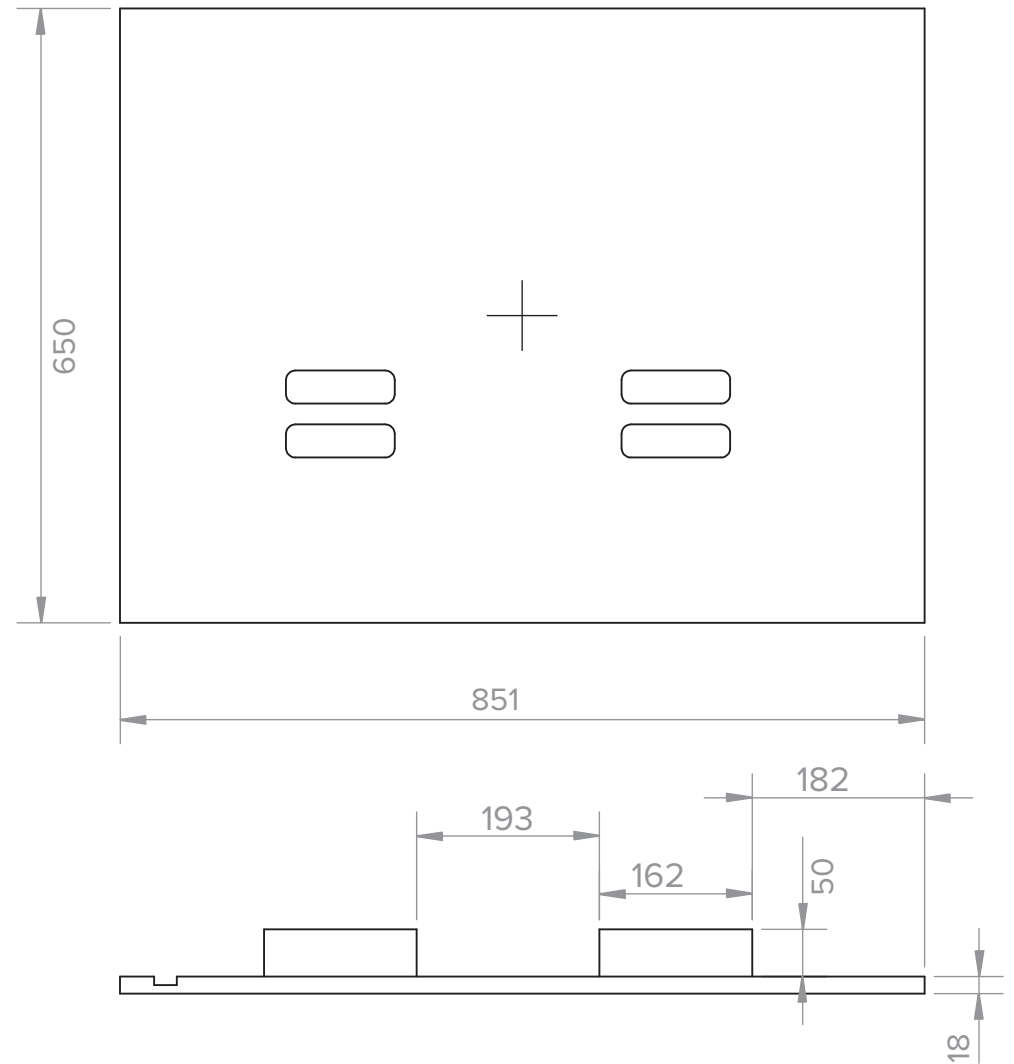
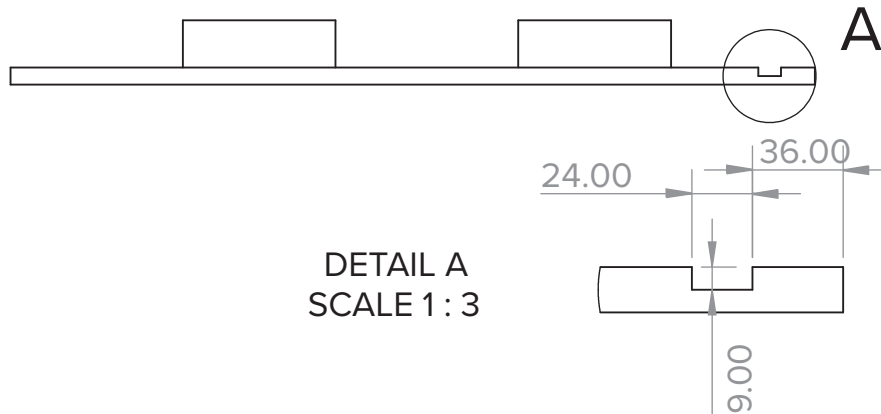
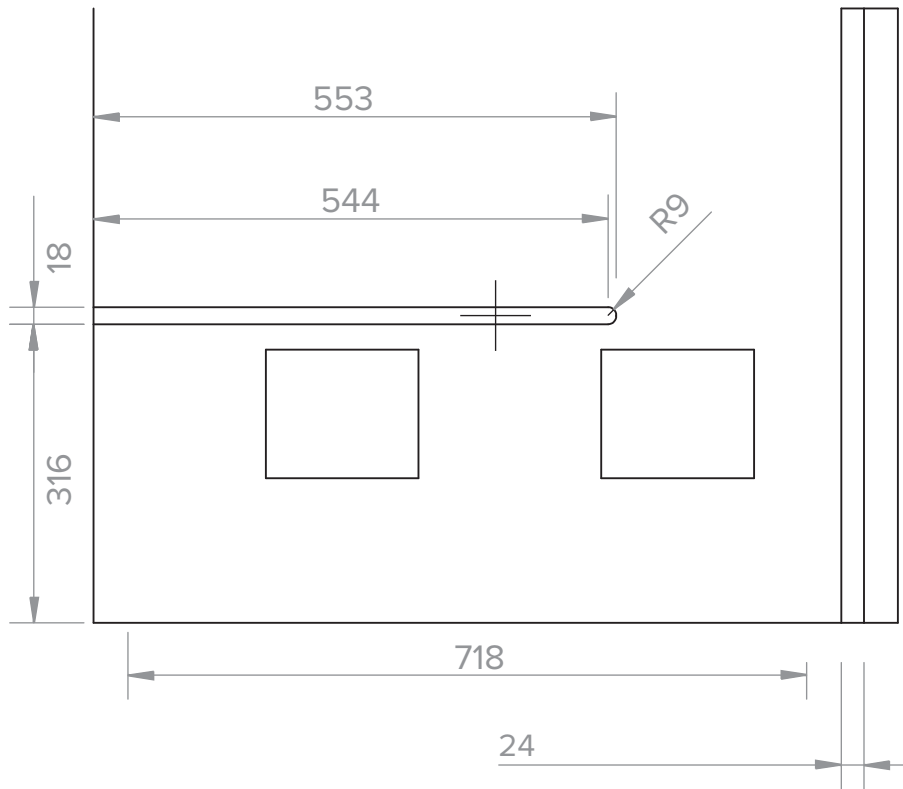
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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 10 OF 25 |



SECTION A-A
SCALE 1 : 7

FANE

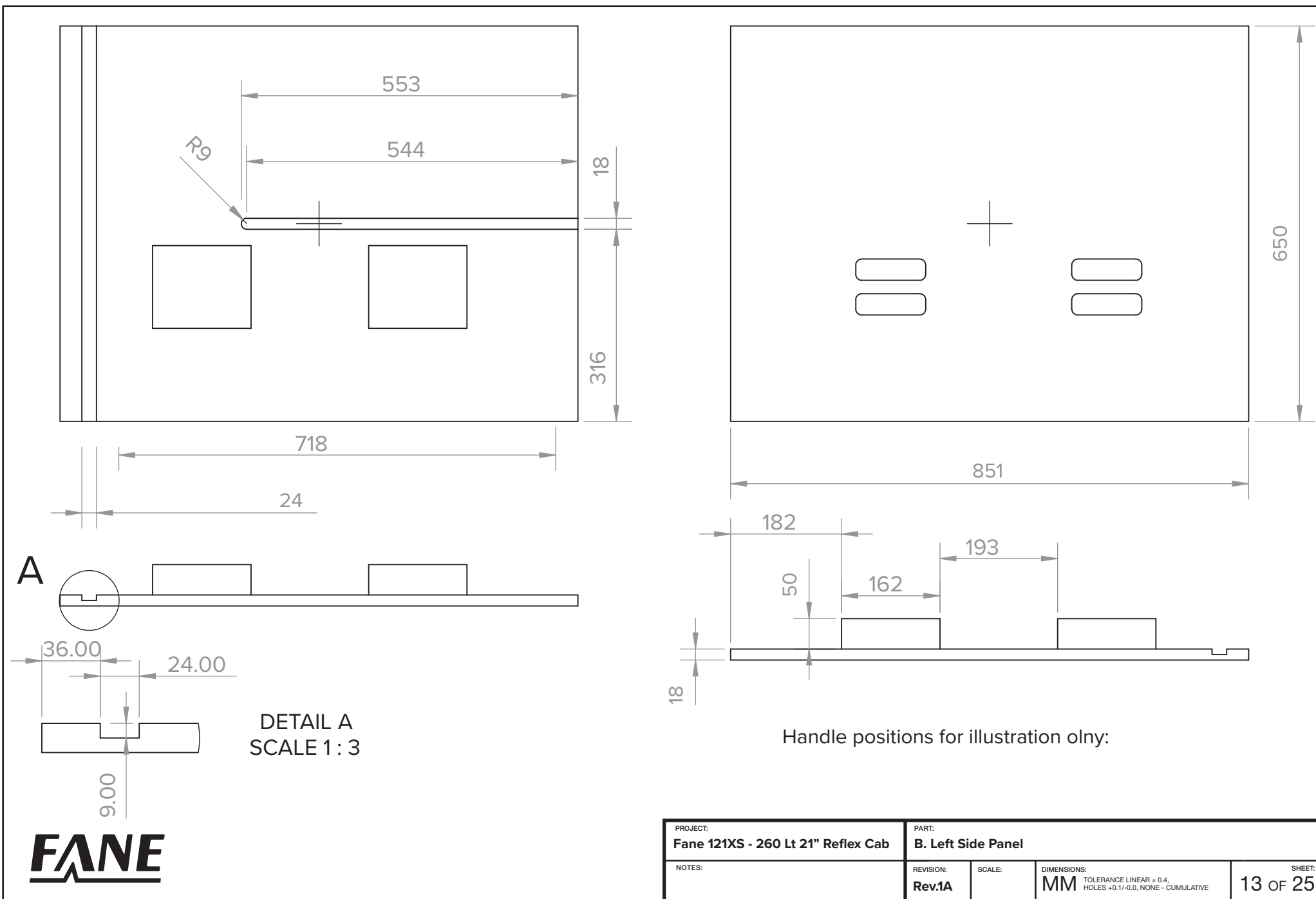
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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: A. Baffle Construction | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 11 OF 25 |



Handle positions for illustration only:

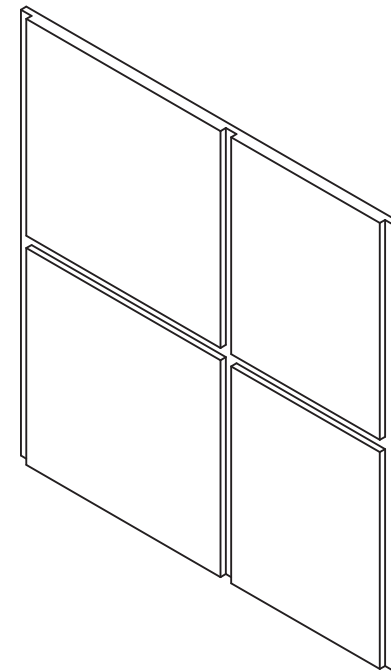
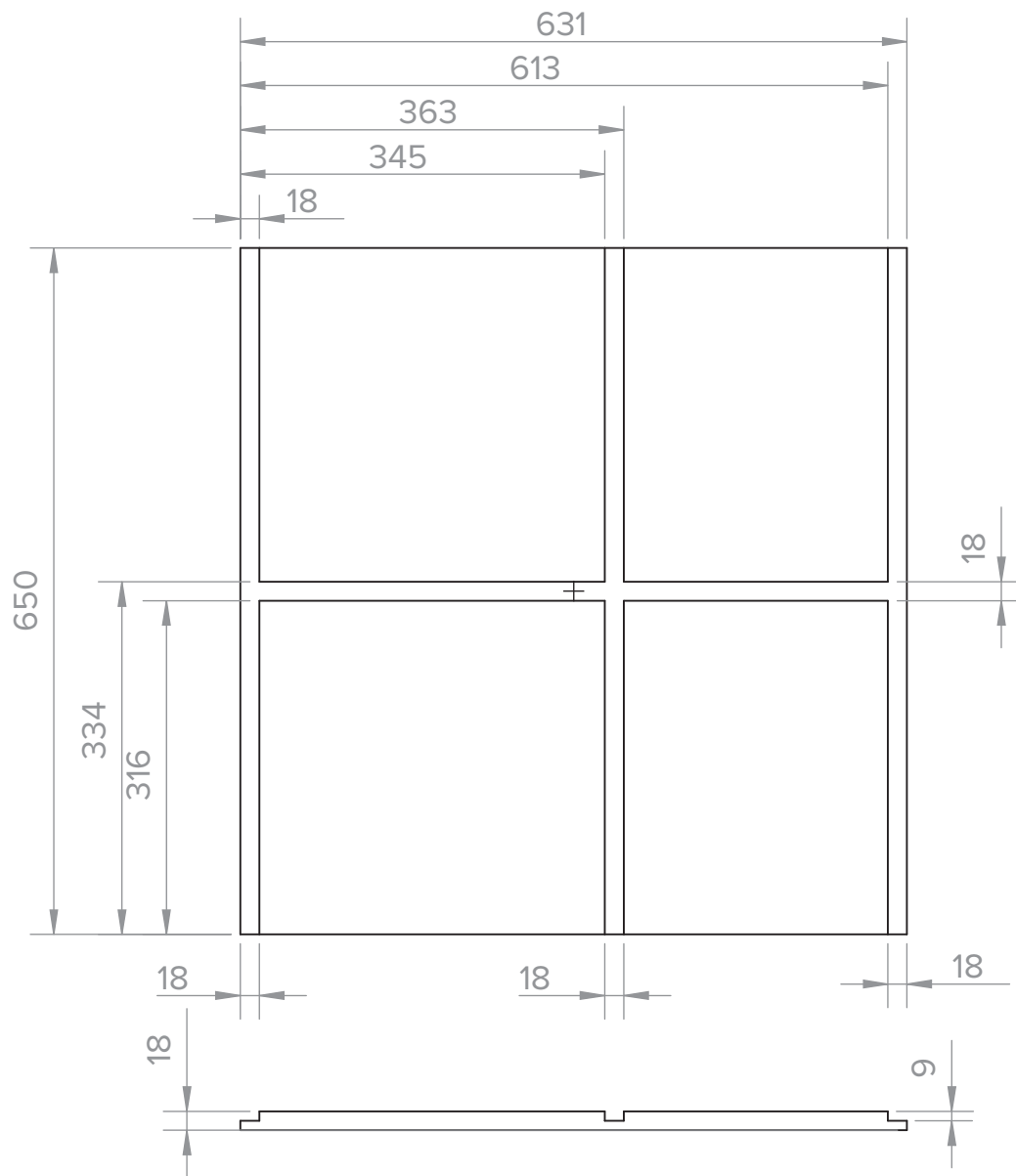
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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: B. Right Side Panel | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 12 OF 25 |

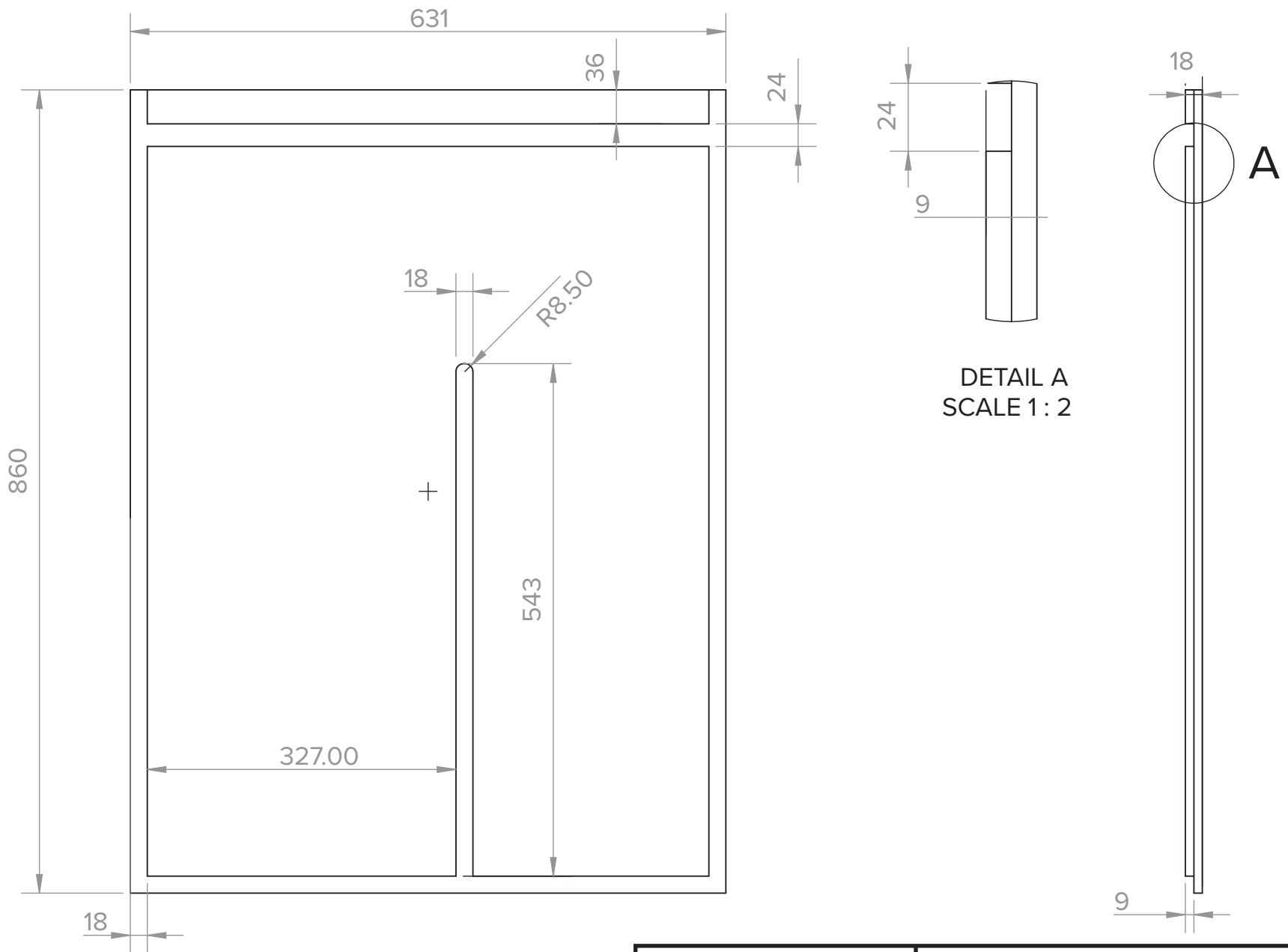


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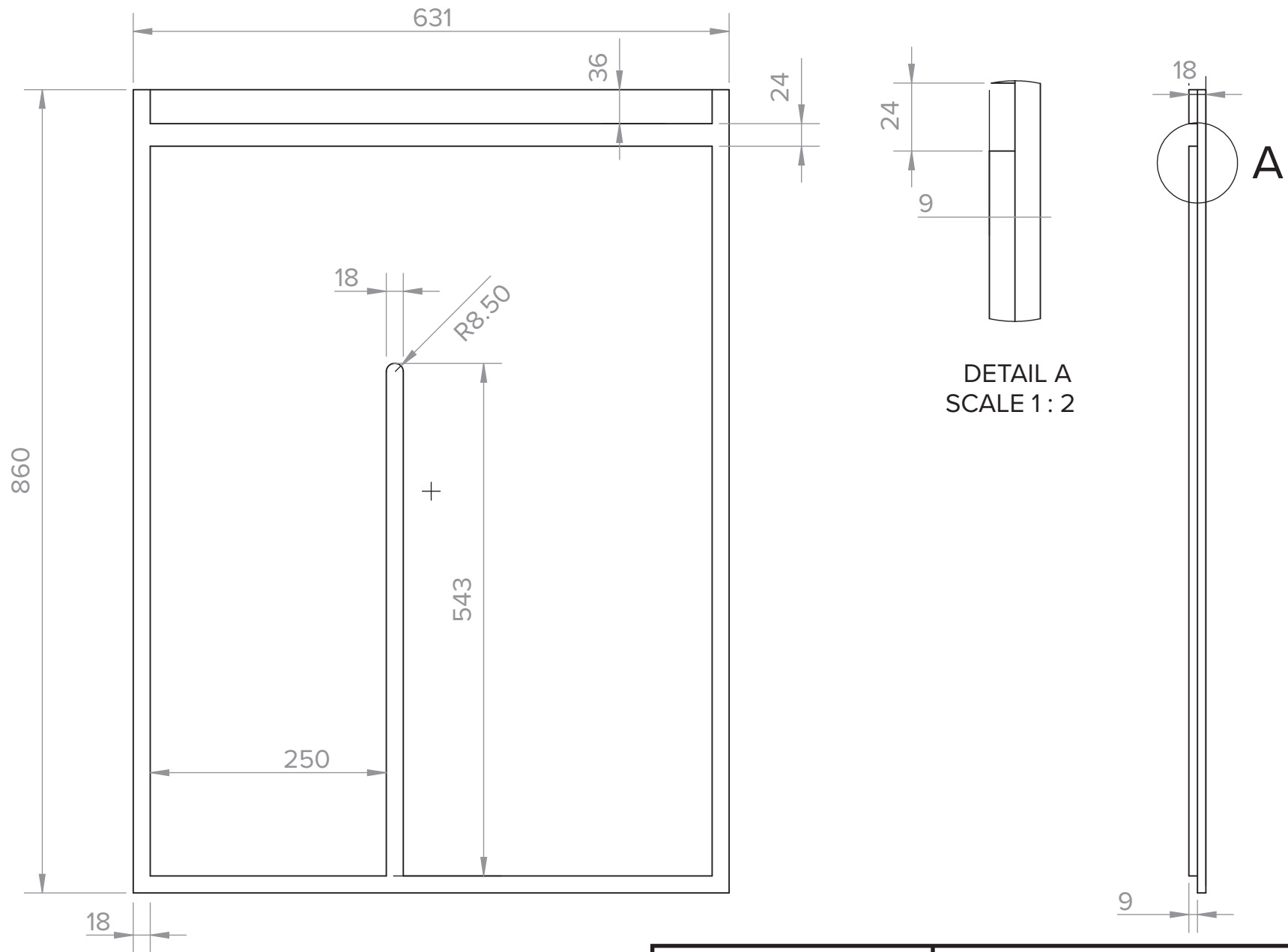
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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: B. Left Side Panel | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 13 OF 25 |



| | | | | |
|--|--|------------------------|--------|---|
| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: C. Back Panel | | |
| NOTES: 2 Ports Required | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 14 OF 25 |



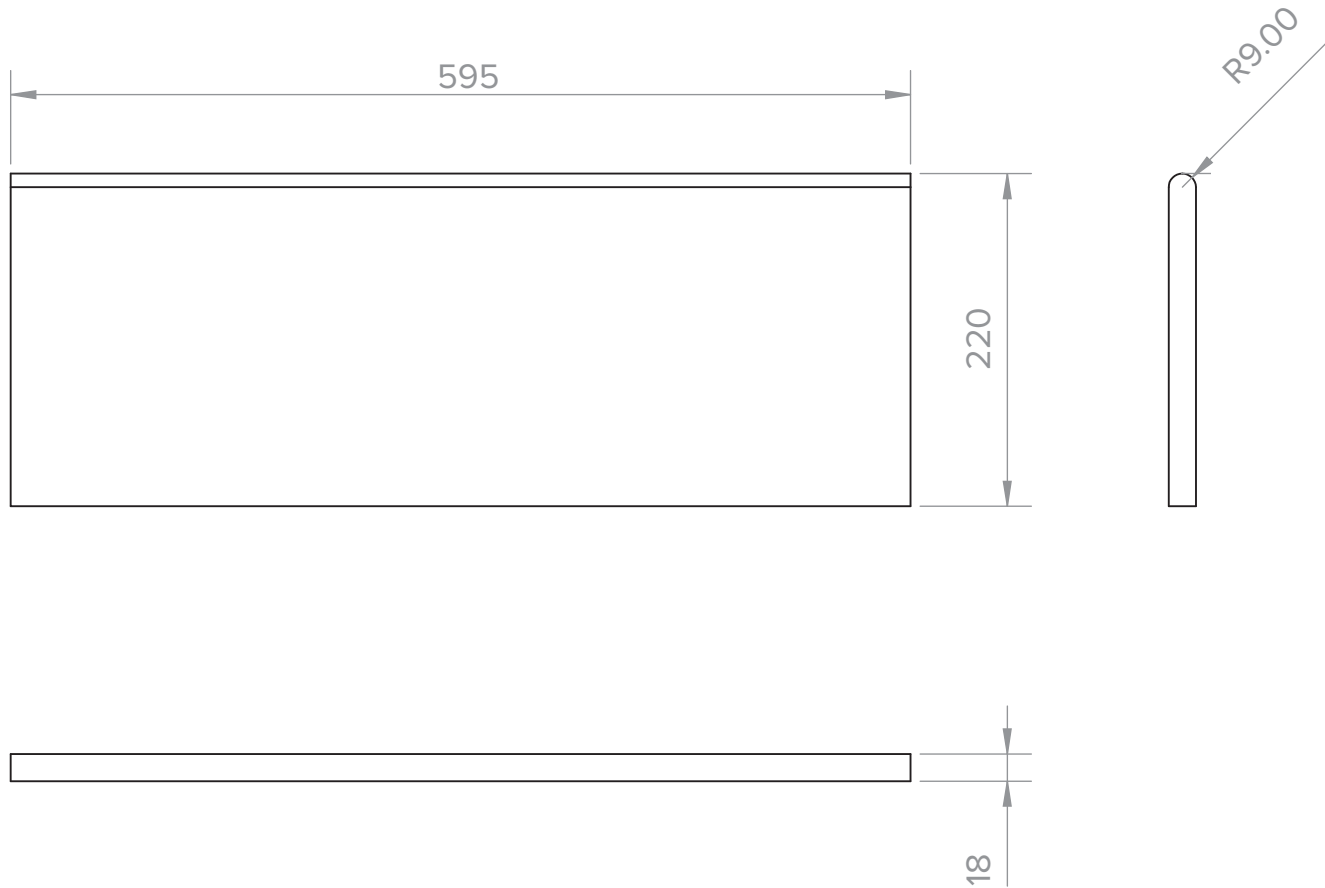
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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: D. Top Panel | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 15 OF 25 |



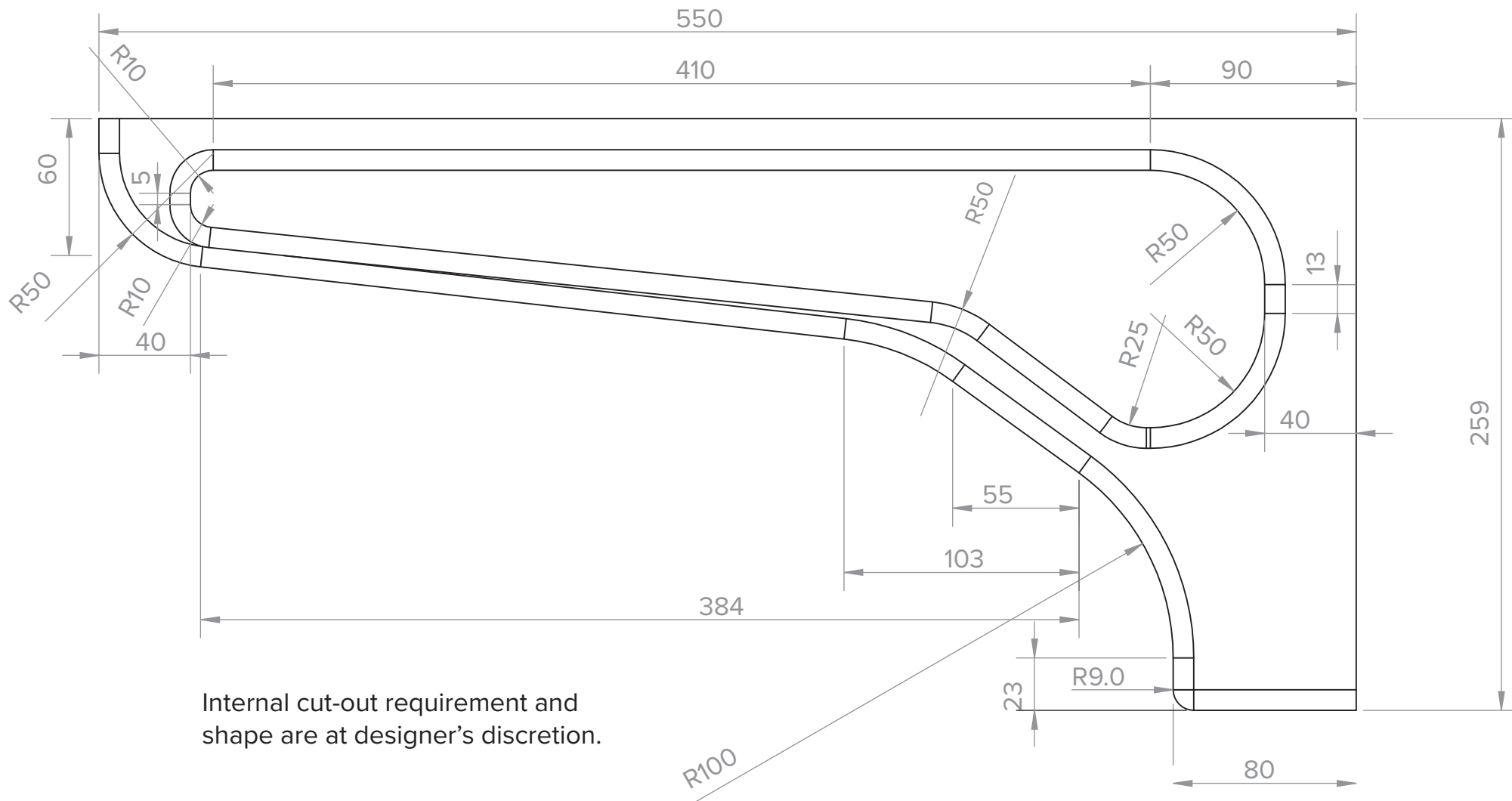
DETAIL A
SCALE 1 : 2



| | | | | |
|---|--|---------------------------------|--------|--|
| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: E. Bottom Panel | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 16 OF 25 |

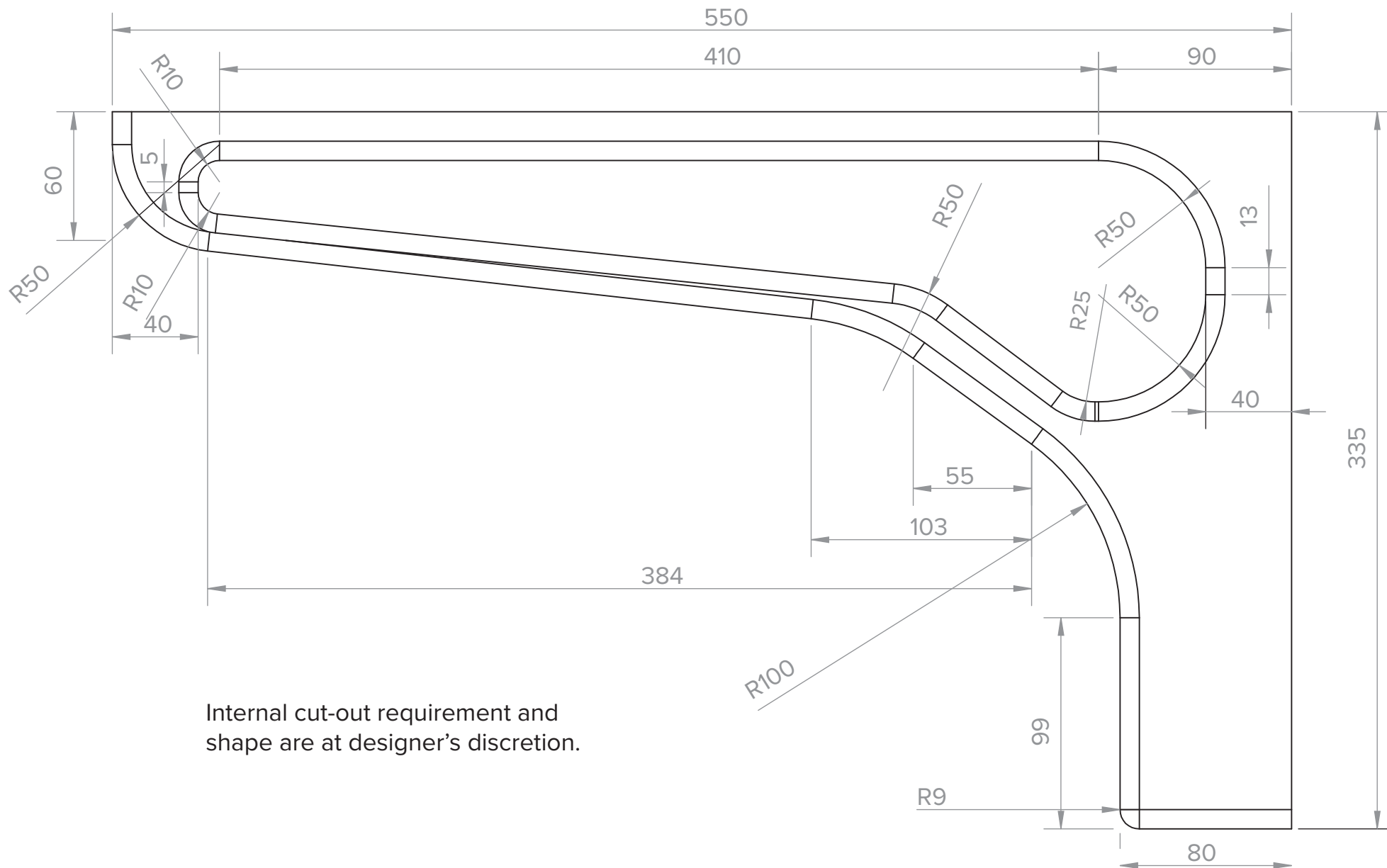


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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: F. Port Panel | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 17 OF 25 |

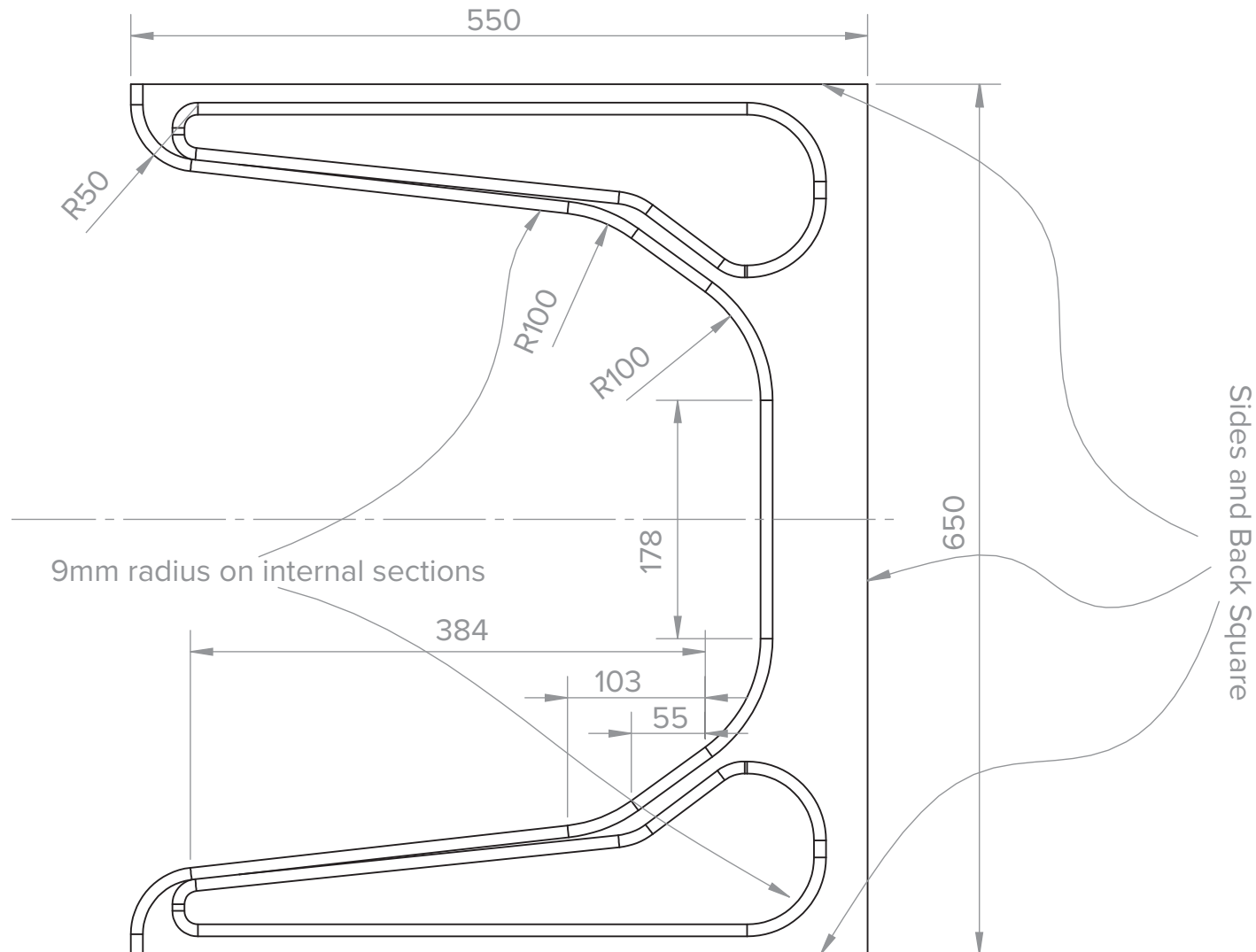


FANE

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|---|--|--|--------|---|
| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: 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: 18 OF 25 |



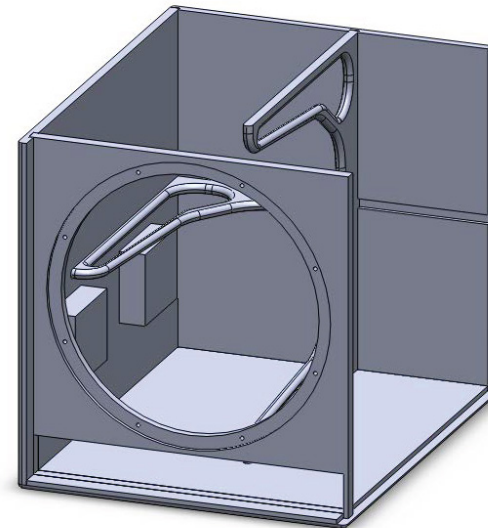
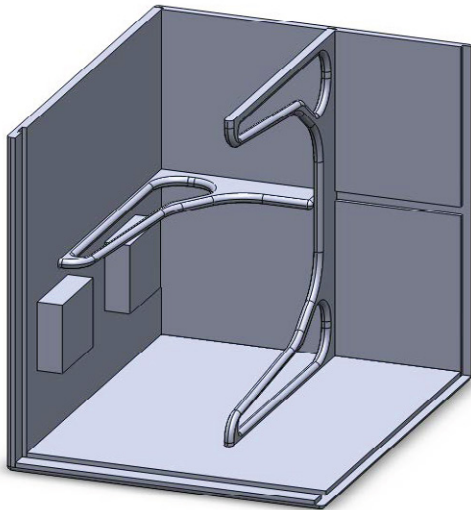
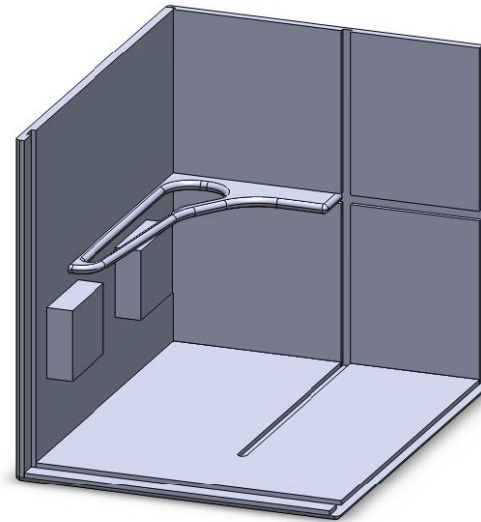
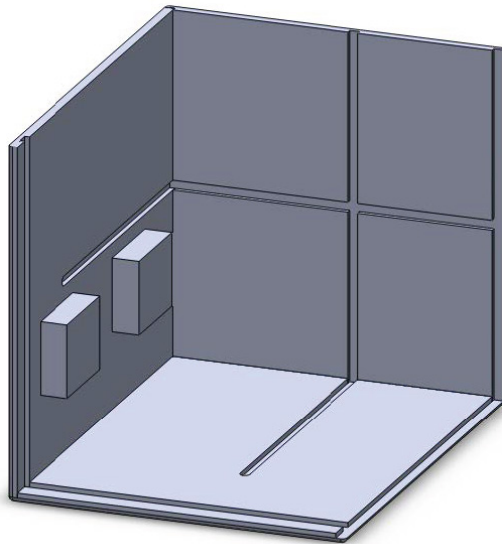
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|---|--|---|--------|---|
| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: H. Left Side Internal Brace Panel | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 19 OF 25 |



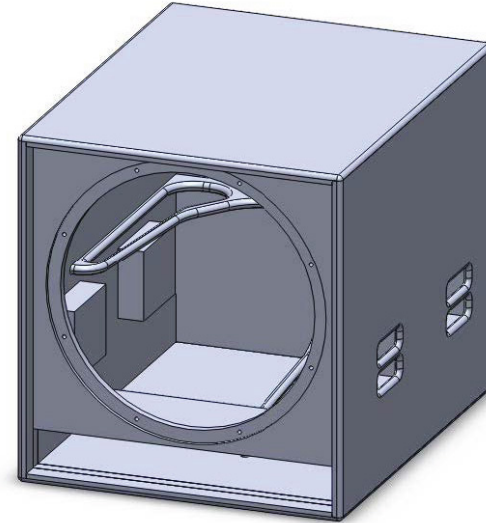
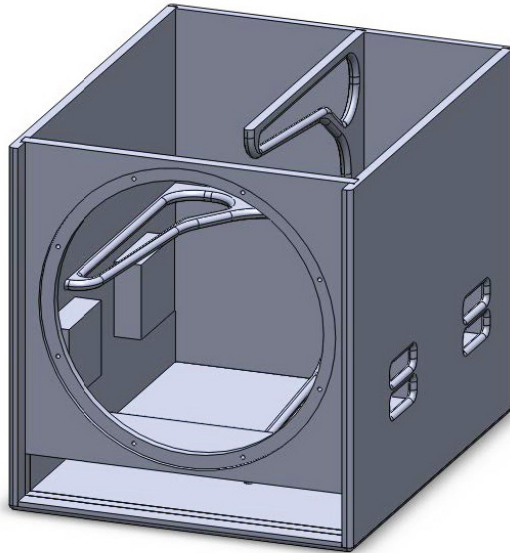
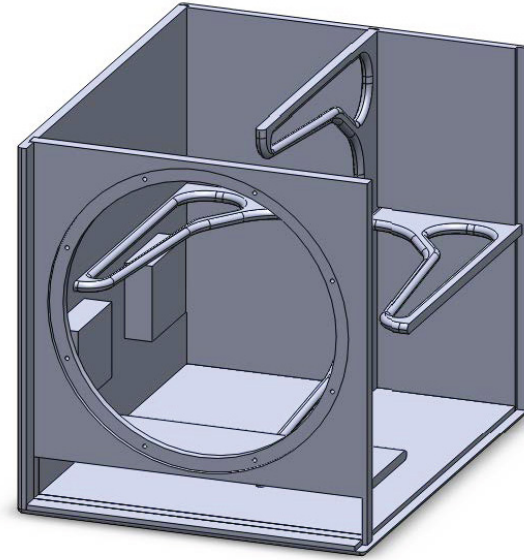
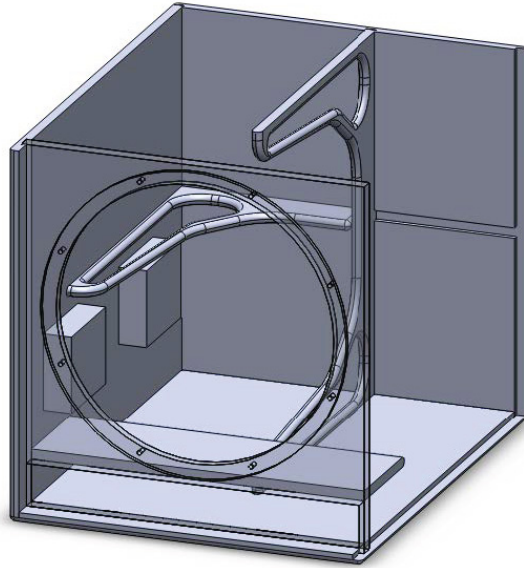
Internal cut-out requirement and shape are at designer's discretion. Refer to Internal Side Brace for cut-out details if required.



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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: 20 OF 25 |

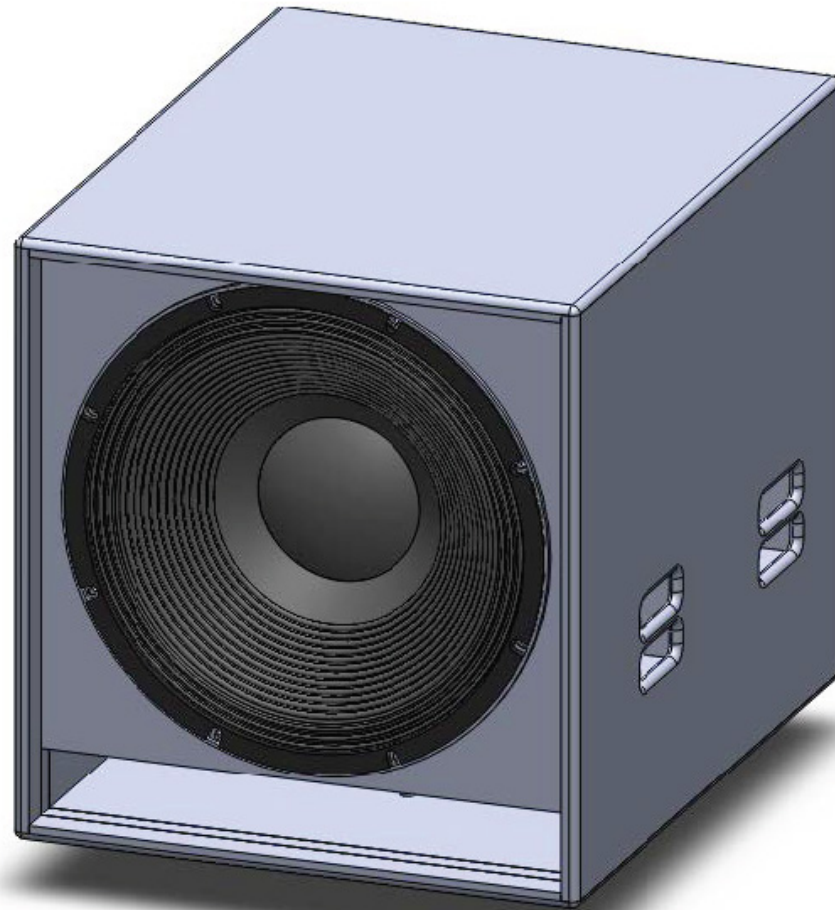


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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: Assembly Views | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 21 OF 25 |



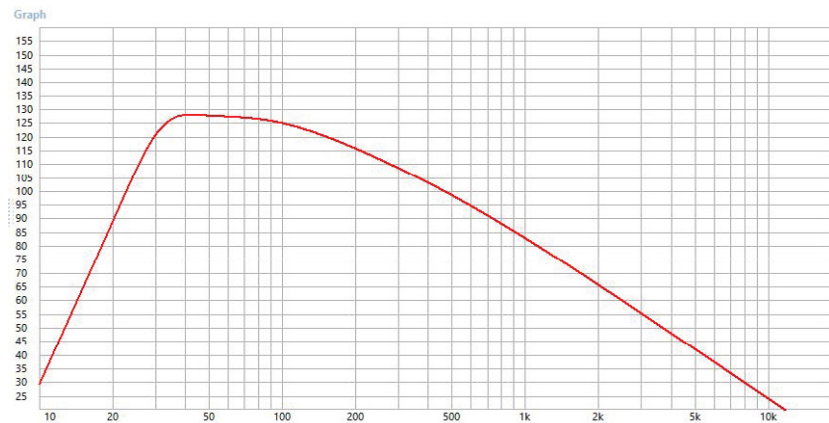
FANE

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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: 22 OF 25 |



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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: 23 OF 25 |

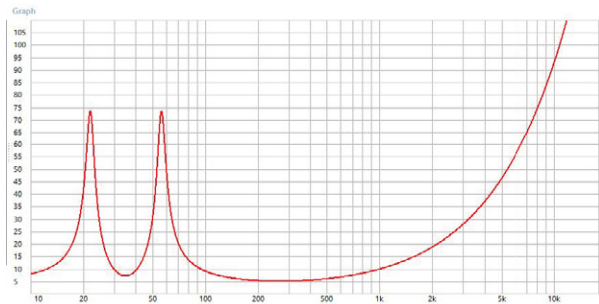
Predicted Bass Response (Colossus Prime 21XS)



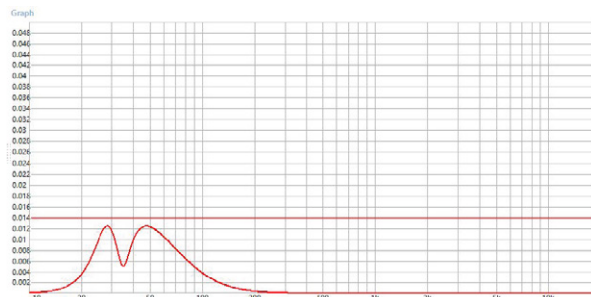
Phase Chart (Colossus Prime 21XS)



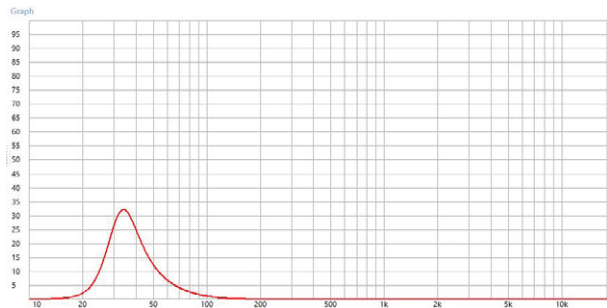
Impedance (Colossus Prime 21XS)



Cone Displacement (Colossus Prime 21XS)

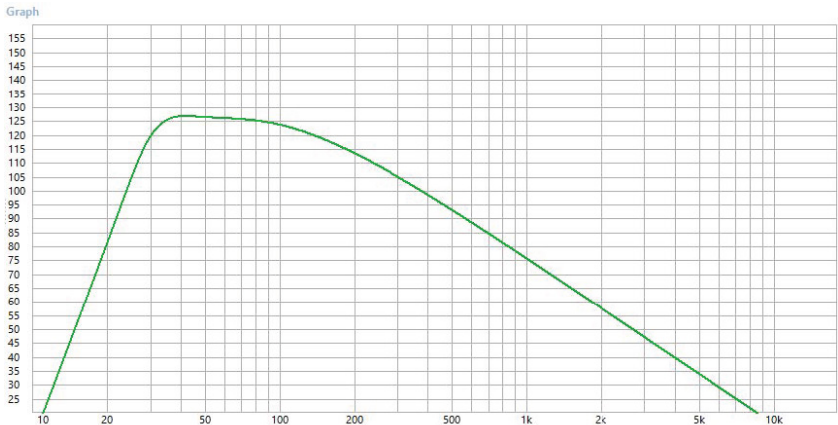


Vent Air Velocity (Colossus Prime 21XS)

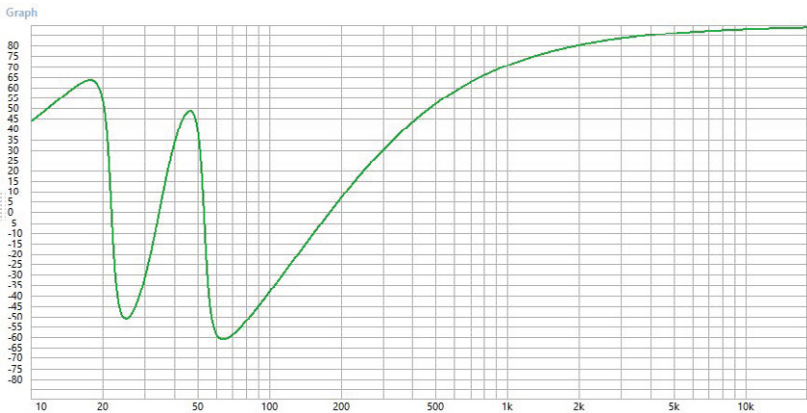


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| PROJECT: Fane 121XS - 260 Lt 21" Reflex Cab | | PART: Measurements | | |
| NOTES: | | REVISION: Rev.1A | SCALE: | DIMENSIONS: MM TOLERANCE LINEAR ± 0.4 , HOLES $+0.1/-0.0$, NONE - CUMULATIVE |
| | | | | SHEET: 24 OF 25 |

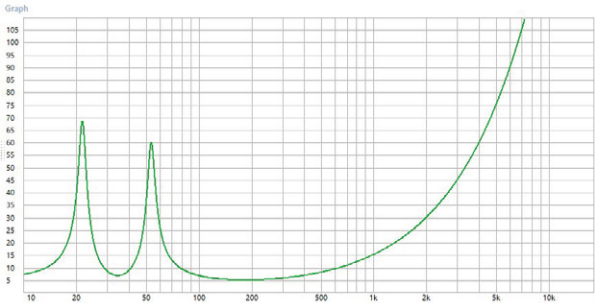
Predicted Bass Response (Colossus Prime 21NDXL)



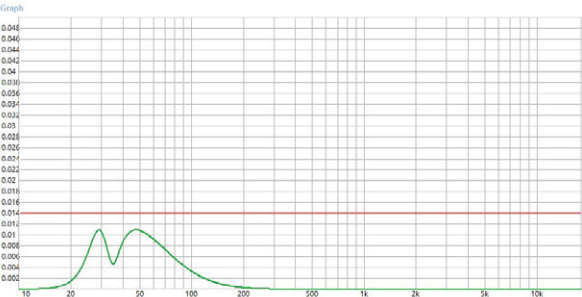
Phase Chart (Colossus Prime 21NDXL)



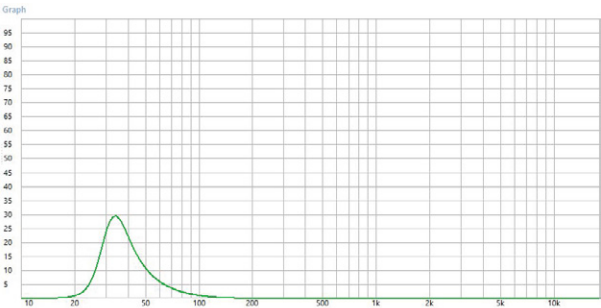
Impedance (Colossus Prime 21NDXL)



Cone Displacement (Colossus Prime 21NDXL)



Vent Air Velocity (Colossus Prime 21NDXL)



| | | | | |
|--|--|-----------------------|--------|---|
| 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: 25 OF 25 |