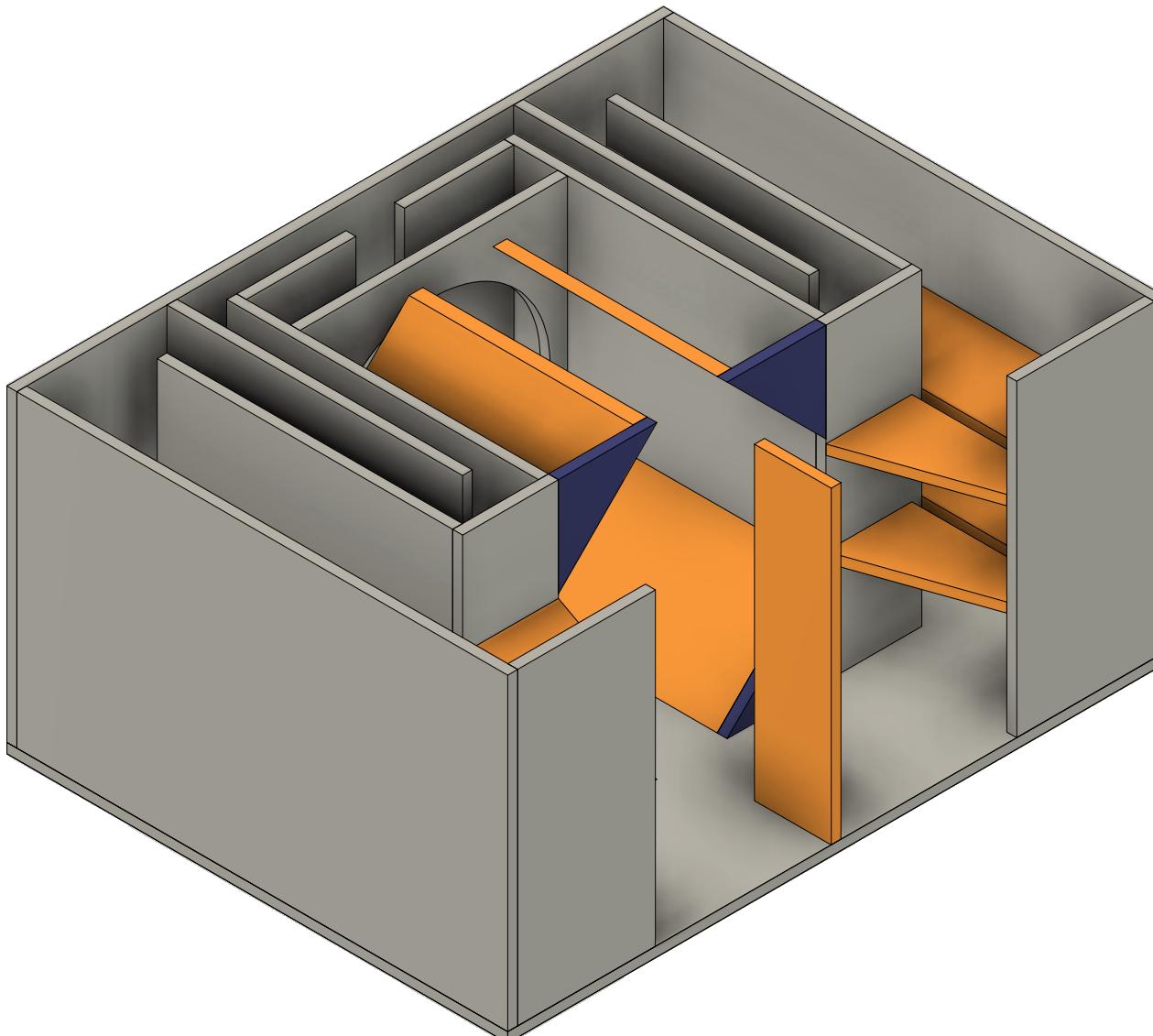


8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

# GOLDEN FORMULA PARAFLEX C-2E 1x18" SUBWOOFER UPDATED



RECOMMENDED DRIVERS HIGH POWER HANDLING		
B&C iPAL 18	B&C 18DS115-4	B&C 18SW115-4
18SOUND 18NLW9601	18S 18NTLW5000-4	OBERTON 18NXB1601
OBERTON 18XB1500	RCF LF18N451	RCF LF18X451

ENTRY LEVEL DRIVERS LOWER POWER HANDLING		
PD 185N02	PD 1850	PD 1851
PD 1852	B&C 18NW100	LaVoce SAN184.50
FaitalPro 18XL1600-4	FaitalPro 18HW1070-4	VOID V18-1000
Beyma 18PW1400FE	BEYMA 18QLEX16000FE	CELESTION CF18VJD

REGIONAL DRIVERS	
SB ACOUSTICS NERO 18SW1100D AUSTRALIA/NEW ZEALAND (LOWER POWER HANDLING)	NEXUS EVO 18SW ("The Sound Guy") SOUTH AFRICA (HIGHER POWER HANDLING)

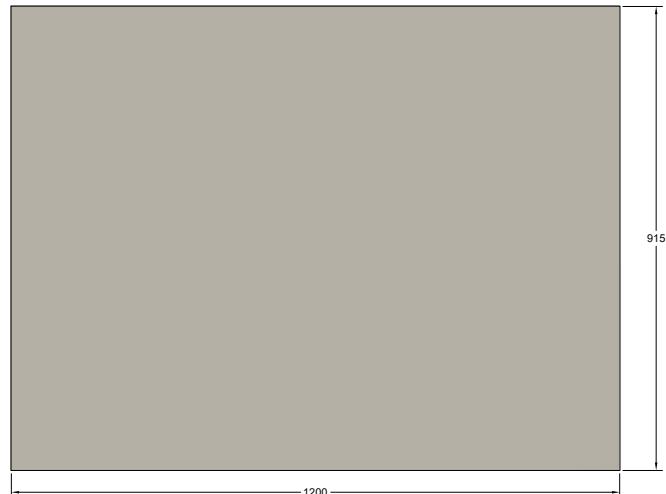
## NOTES:

Frequency Range: 30Hz - 180Hz (Single)  
 Crossover: 24db/BW HPF: 26-29Hz  
 LPF: within 90-180Hz (Application specific)  
 Sensitivity @ 1M: 106dB SPL (35Hz-180Hz) (Avg) 108dB (50Hz-90Hz)  
 Dimensions / Volume: 1200mm x 915mm x 600mm / 658 Litres Gross  
 Weight: 97Kg / 213Lbs (Calculated, unloaded)

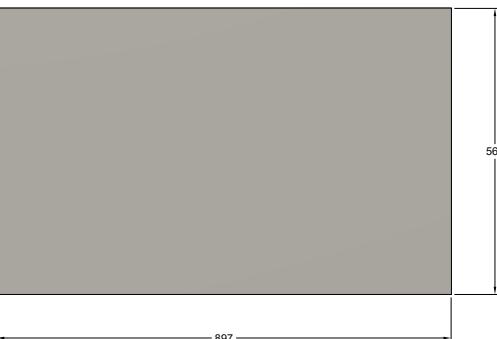
PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	2	TOP/BOTTOM PANEL	1200MM X 915MM X 18MM	BIRCH PLY
2	2	SIDE PANEL	897MM X 564MM X 18MM	BIRCH PLY
3	1	BACK PANEL	1200MM X 564MM X 18MM	BIRCH PLY
4	4	PATH PANEL A	540MM X 564MM X 18MM	BIRCH PLY
5	2	PATH PANEL B	175MM X 564MM X 18MM	BIRCH PLY
6	2	PATH PANEL C	570MM X 564MM X 18MM	BIRCH PLY
7	2	PATH PANEL D	200MM X 564MM X 18MM	BIRCH PLY
8	1	BAFFLE	489MM X 564MM X 18MM	BIRCH PLY
9	4	BRACE B	162.5MM X 879MM X 18MM	BIRCH PLY
10	4	BRACE C	45MM X 616MM X 18MM	BIRCH PLY
11	4	BRACE D	200MM X 46MM X 18MM	BIRCH PLY
12	4	45 DEGREE BRACE	410MM X 255MM X 18MM	BIRCH PLY
13	4	45 DEGREE END CAPS	180.3MM X 180.3MM X 18MM	BIRCH PLY
14	2	FRONT PANELS	252MM X 564MM X 18MM	BIRCH PLY
15	4	BRACE A	157MM X 245MM X 18MM	BIRCH PLY
19	1	MOUTH BRACE	140MM X 564MM X 18MM	BIRCH PLY

		PROJECT	
		PARAFLEX C-2E Golden Formula	
<b>TITLE</b> <b>HIGH ORDER QUARTERWAVE SOCIETY</b>		CODE	
		REV	
APPROVED KAIRONEX		SIZE	DWG NO
CHECKED	KAIRONEX	10-May-21	T.CENTION
DRAWN	T.CENTION	07-Mar-20	TC2EGF-118
SCALE	1.3	WEIGHT	97Kg (Unloaded)
Revision	42.1	1/9	REV

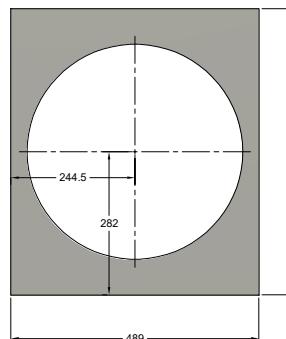
8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



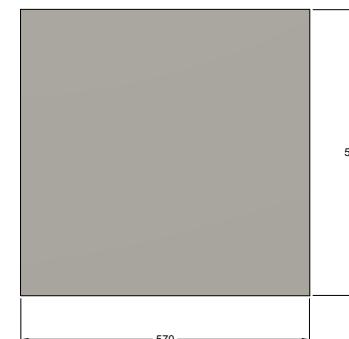
**TOP BOTTOM PANEL X 2**



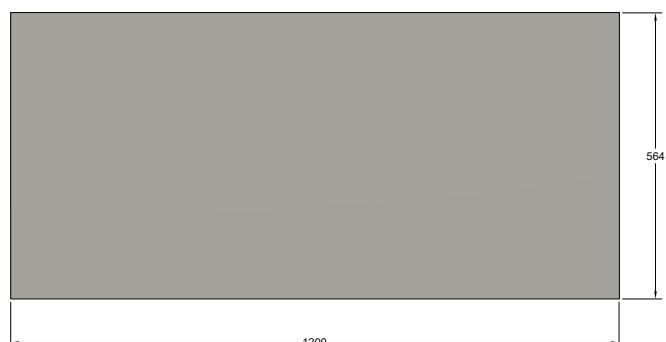
**SIDE PANEL  
X 2**



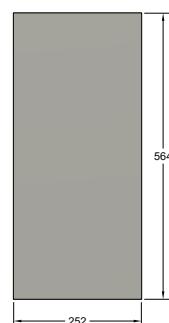
**BAFFLE  
X 1**



**PATH PANEL C  
X 2**



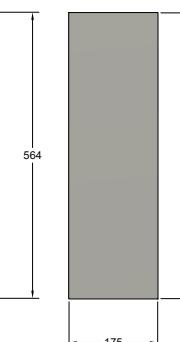
**BACK PANEL  
X 1**



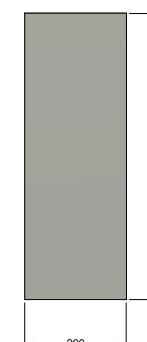
**FRONT PANEL  
X 2**



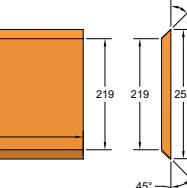
**PATH PANEL A  
X 4**



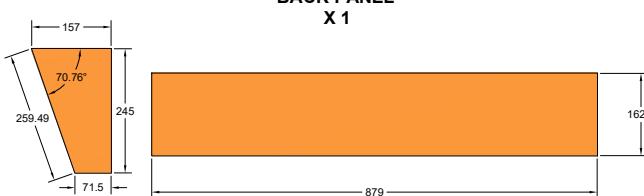
**PATH PANEL B  
X 2**



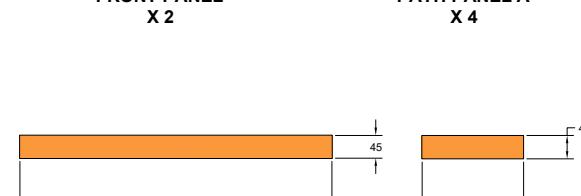
**PATH  
PANEL D  
X 2**



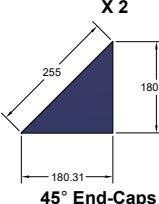
**45° BRACE  
X 4**



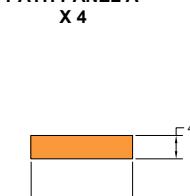
**BRACE A  
X 4**



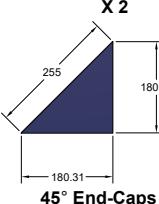
**BRACE B  
X 4**



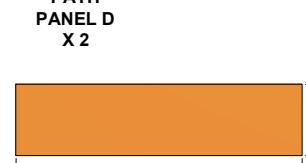
**BRACE C  
X 4**



**BRACE D  
X 4**

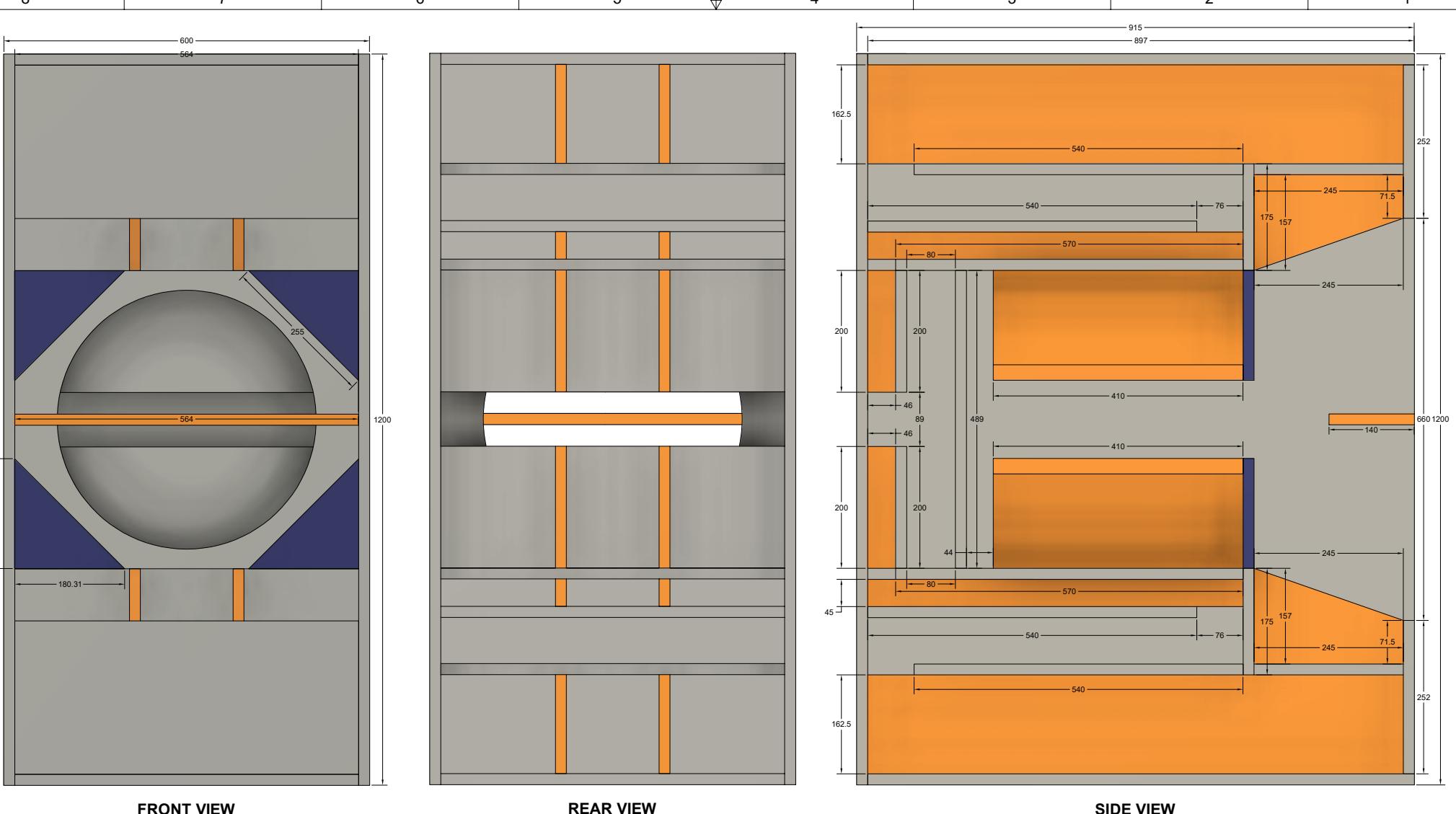


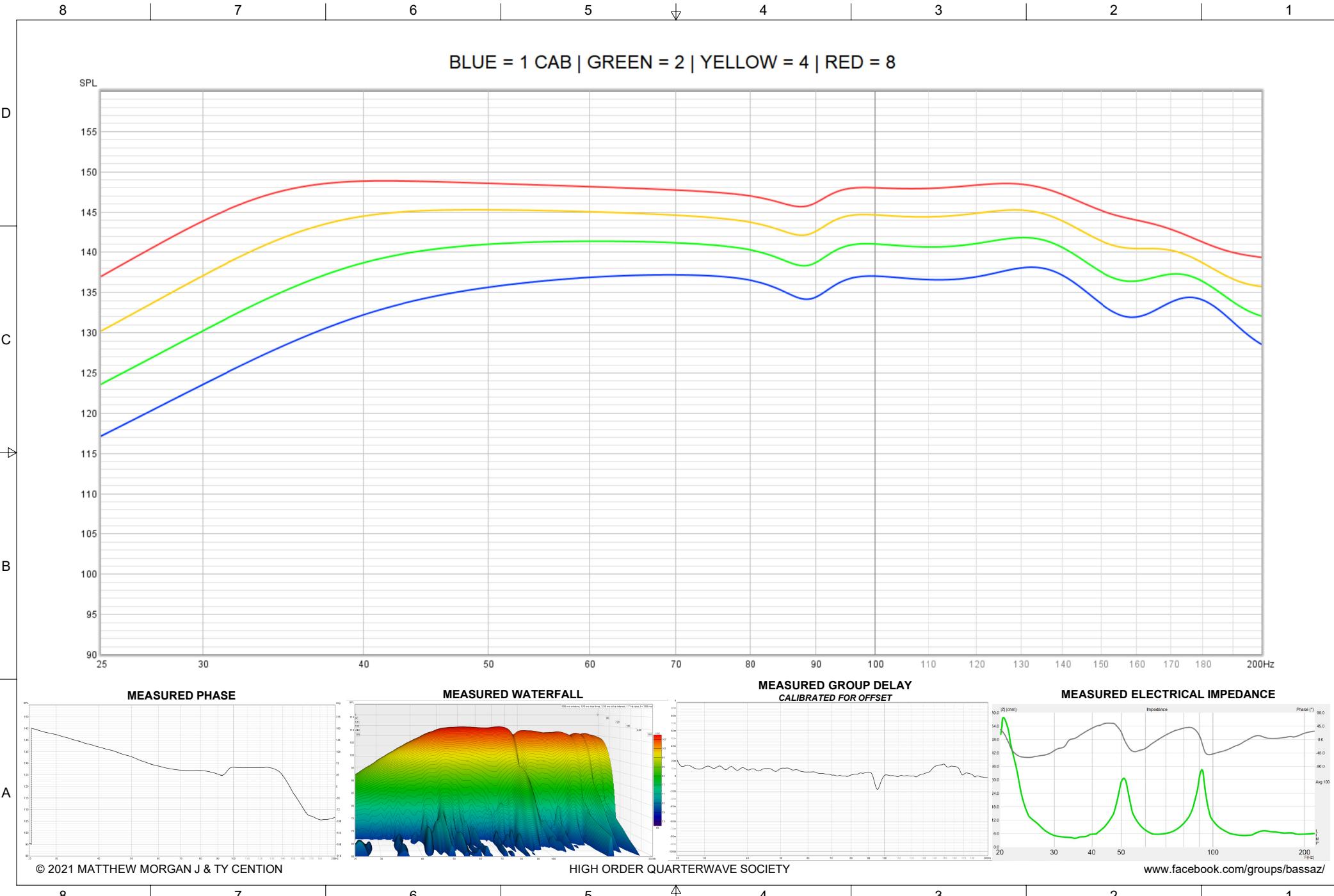
**45° End-Caps  
X 4**



**Mouth Brace X 1**

PROJECT PARAFLEX C-2E Golden Formula					
TITLE HIGH ORDER QUARTERWAVE SOCIETY					
APPROVED KAIRONEX	10-May-21	SIZE	CODE	DWG NO	REV
CHECKED KAIRONEX	10-May-21	D	TC2EGF-118		42.1
DRAWN T.CENTION	07-Mar-20	SCALE	1.5	WEIGHT 97Kg (Unloaded)	SHEET 2/9





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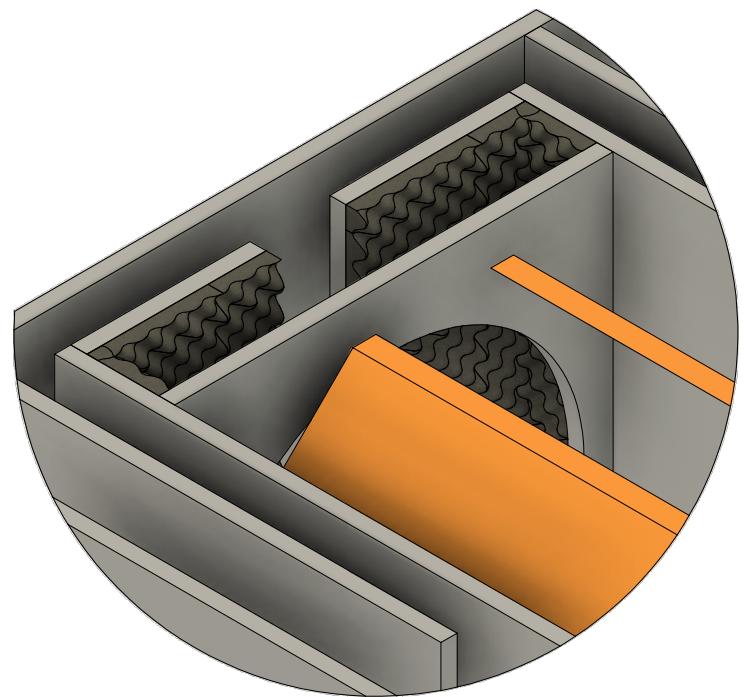
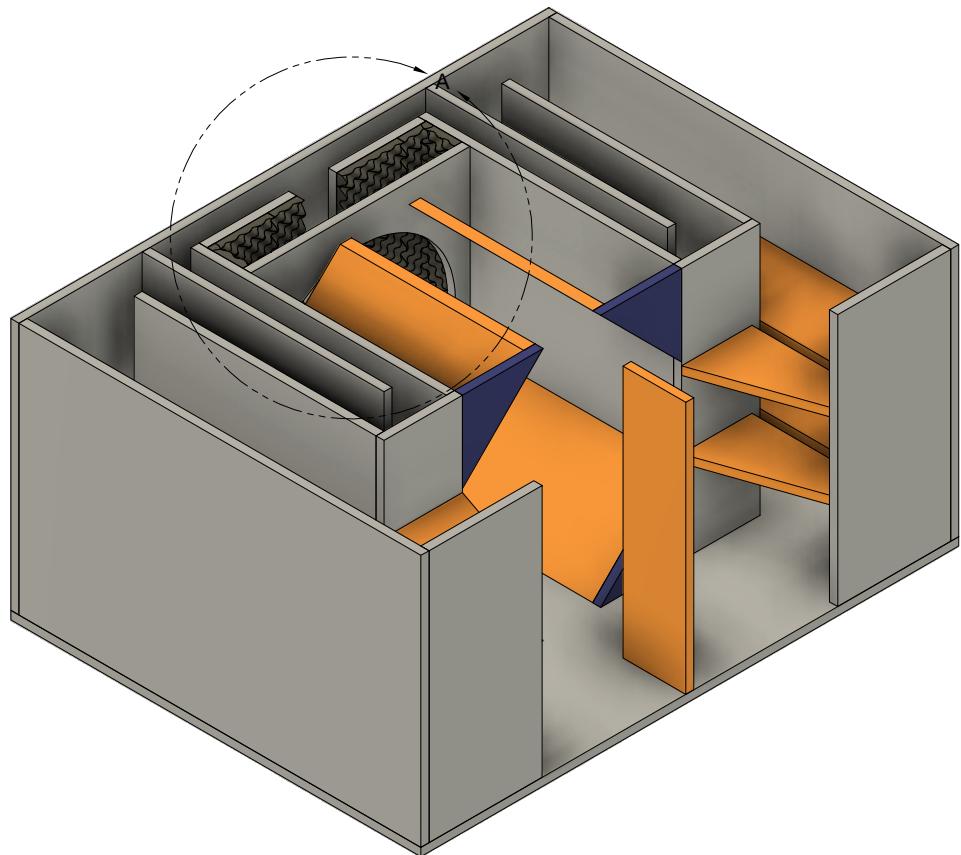
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## IT IS RECOMMENDED TO ADD DAMPING MATERIAL TO THE THROAT CHAMBER

SUCH AS OPEN-CELL ACOUSTIC FOAM OR THICK POLY-FIBERFILL SHEETS OR BATTING SECURED INTO PLACE



DETAIL A  
DAMPING MATERIAL

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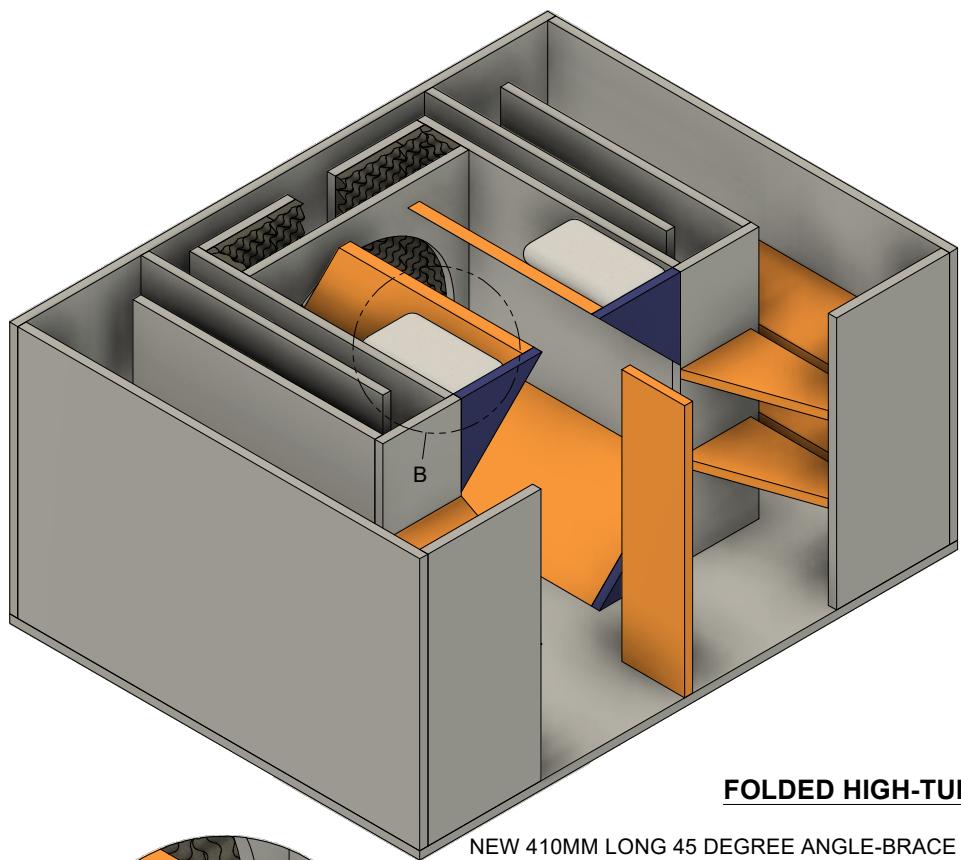
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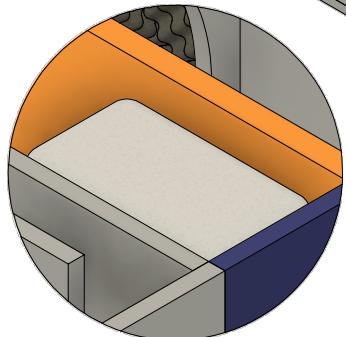
1

Tremendous thanks to Patrick Sander for testing & refining this Folded High-Tuned Resonator feature



### FOLDED HIGH-TUNE RESONATOR

NEW 410MM LONG 45 DEGREE ANGLE-BRACE PANELS (which also serve as the folded & offset portion of the High-Tuned Resonator) HAVE INCREASED THE UPPER FREQUENCY EXTENSION (CUT-OFF) TO 180Hz AND IMPROVED THE CABINET'S PHASE RESPONSE, TRANSIENT RESPONSE, AND IMPULSE RESPONSE, WHILE REDUCING GD & DECAY TIMES IN THE CABINET'S UPPER WORKING RANGE ABOVE 80Hz.



DETAIL B  
POLYFILL



DETAIL C  
MOUTH BRACE GAP

**HIGH-TUNE RESONATOR FILLING**  
ACOUSTIC DAMPING MATERIAL SUCH AS **POLYESTER FIBERFILL** SHOULD BE ADDED TO THE ANGLE BRACES. INSERT THE DAMPING MATERIAL UNTIL IT FILLS UP 50% TO 60% OF THE ANGLE-BRACE'S INTERNAL VOLUME BEGINNING FROM THE END CAPS.

### **MOUTH BRACE UPDATE**

A MOUTH BRACE HAS NOW BEEN INCLUDED TO REDUCE FLEX IN THE MOUTH EXIT AREA, AND WITH THE UPDATED MERGE BRACING SHAPE; A B&C 18DS115 IS CAPABLE OF FITTING PAST ON AN ANGLE. LONGER DRIVERS WILL REQUIRE SHORTENING THE BRACE OR MAKING IT REMOVABLE.



PROJECT  
**PARAFLEX C-2E Golden Formula**

TITLE  
**HIGH ORDER QUARTERWAVE SOCIETY**

© TY CENTION & MATTHEW MORGAN J 2020

APPROVED	KAIRONEX	10-May-21	SIZE	CODE	DWG NO	REV
CHECKED	KAIRONEX	10-May-21	D	TC2EGF-118		42.1
DRAWN	T.CENTION	07-Mar-20	SCALE	1:4	WEIGHT 97Kg (Unloaded)	SHEET 6/9

With special thanks to the founders

**Matthew Morgan J  
Dustin Morgan  
and J.R Vansickle**

Additional thanks and contributions

**Philip Van Heijningen  
Patrick Sander  
Bradley Katz  
Casey Raynes  
Dap Kosmik  
Josh Mullins  
Altaph Mohammed  
Jason Geban  
and Phil Racki**

PROJECT PARAFLEX C-2E Golden Formula					
TITLE HIGH ORDER QUARTERWAVE SOCIETY					
KAIRONEX		CODE TC2EGF-118		DWG NO 42.1	
APPROVED KAIRONEX	10-May-21	SIZE D	CODE TC2EGF-118	DWG NO 42.1	REV
CHECKED KAIRONEX	10-May-21				
DRAWN T.CENTION	07-Mar-20	SCALE		WEIGHT 97Kg (Unloaded)	SHEET 7/9

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B

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PROJECT  
**PARAFLEX C-2E Golden Formula**TITLE  
**HIGH ORDER QUARTERWAVE SOCIETY**

	© TY CENTION & MATTHEW MORGAN J 2020	APPROVED KAIRONEX	10-May-21	SIZE	CODE	DWG NO	REV
CHECKED	KAIRONEX	10-May-21	D	TC2EGF-118		42.1	
DRAWN	T.CENTION	07-Mar-20	SCALE		WEIGHT 97Kg (Unloaded)		SHEET 8/9

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PROJECT		PARAFLEX C-2E Golden Formula		
TITLE		HIGH ORDER QUARTERWAVE SOCIETY		
KAIRONEX				
APPROVED KAIRONEX	10-May-21	SIZE	CODE	DWG NO
CHECKED KAIRONEX	10-May-21	D	TC2EGF-118	42.1
DRAWN T.CENTION	07-Mar-20	SCALE	WEIGHT 97Kg (Unloaded)	SHEET 9/9