

AC6

2-Way Full Range ADAPTive Column

- ▶ Adaptive Performance™ manages coverage and directivity via Resolution™ 2 software
- ▶ Suitable for outdoor installation when input/output weather protection covers are used
- ▶ Proven EAW acoustical design and DSP including Focusing™ and DynO™ provides a pristine impulse response at all output levels.
- ▶ Integrated Dante™ redundant networking including Analog redundancy capability.
- ▶ On-board diagnostics and Adaptive Healing continuously monitor and correct performance in real time

OVERVIEW

AC6 brings the highly sought-after ADAPTive tool kit to a column loudspeaker. In the same fashion as Anya and Anna speaker enclosures, AC6 offers all of the benefits of ADAPTive performance in a pillar enclosure.

AC6's 120° horizontal dispersion further extends the capabilities of ADAPTive Systems offering a dramatically smaller product in the ADAPTive family. An infinite amount columns of AC can be flown as mains in a wide variety of applications or integrate AC with the larger Anya and Anna modules within the same venue for endless coverage possibilities.



TECHNOLOGIES



ADAPTive Performance™ Adaptive Performance integrates nearly every aspect of a loudspeaker – mechanical, electrical and acoustical design – to one end: ideal three-dimensional coverage of every venue, every time.



Concentric Summation Array (CSA)™ A method of seamlessly integrating MF and HF components within a single horn. With CSA, multiple subsystems sum coherently, without interruption to either HF or MF wavefronts.



Beamwidth Matched Crossovers Introduced over a decade ago for our MK series loudspeakers, EAW Engineers use carefully-designed HF horns and crossovers to eliminate polar irregularities through the crossover point.



Focusing™ Use of advanced digital signal processing to perfect the impulse response of a loudspeaker in the time domain. Eliminating horn "honk" and splashiness, this makes the loudspeaker sound like a studio monitor instead of a "PA" speaker.



DynO™ Dynamic Optimization actively tracks input spectrum and power delivery, continually wicking maximizing output and fidelity at any drive level.



PHYSICAL

Color	Black or White
Material	Aluminum Housing with Stainless Steel
Dimensions (H×W×D)*	38.7 x 9.4 x 10.4in (983 x 239 x 264mm)
Net Weight*	70lbs (32kg)
Shipping Weight*	85lbs (36kg)

ORDERING DATA

Part Numbers:	Black
AC6	2070185-90
Accessories	
EAW AC6 WALL BRACKET BLACK (PAN)	2071359-90
EAW AC6 WALL BRACKET WHITE (PAN)	2071372-90
EAW AC6 FLUSH MOUNT BRACKET BLACK	2071383-90
EAW AC6 FLUSH MOUNT BRACKET WHITE	2071637-90
EAW AC6 CONNECTING PLATES ACCESSORY	2072137-90
EAW AC6 SUBWOOFER STACK PLATE KIT	2072167-90
EAW AC6 STINGER KIT	2072166-90
EAW AC6 MOHAWK KIT	2072165-90

TECHNICAL SPECIFICATIONS

2-WAY FULL RANGE ADAPTIVE COLUMN

PERFORMANCE

Max SPL (Peak 1m), unadapted¹	143dB
Operating Range² (-10db)	65Hz – 20kHz
Nominal Beamwidth³	120 ° Horizontal x Adaptive Vertical

CONFIGURATION

LF Transducer, Loading	6 x 6 in cone, 1.7 in voice coil vented (w/ CSA)
HF Transducer, Loading	30 x 19mm dome tweeter, horn loaded
Operating Mode	6 x LF, 30 x HF
Amplifier Channels	
Signal Processing	DSP with EAW Focusing™ and Adaptive Performance™

ELECTRICAL

Input Type	Electronically Balanced
Max Input Level	25dBu
Impedance	20kOhm (balanced)
Wiring	2x XLRf, Pin 1 chassis, pin 2+, pin 3- 2x Separate Loop through XLRM (for analog signal only)
Dry Contact Interface	Input override, preset recall, fault status Separate loop through & 6x pass through pins
Voltage	5V nominal, 12V maximum
Power Draw	600W
Input & Loop Type	Analog/AES/Dante®
Amplifier Type	Class D
Amplifier	6 x 150W LF 30 x 75W HF
Max Output LF / HF (Peak)	
Driver Protection	Integral DSP Limiting
AC Mains (nominal)	Connector Neutrik PowerCON® True1 Top Input 100V to 240V Frequency 50Hz to 60Hz

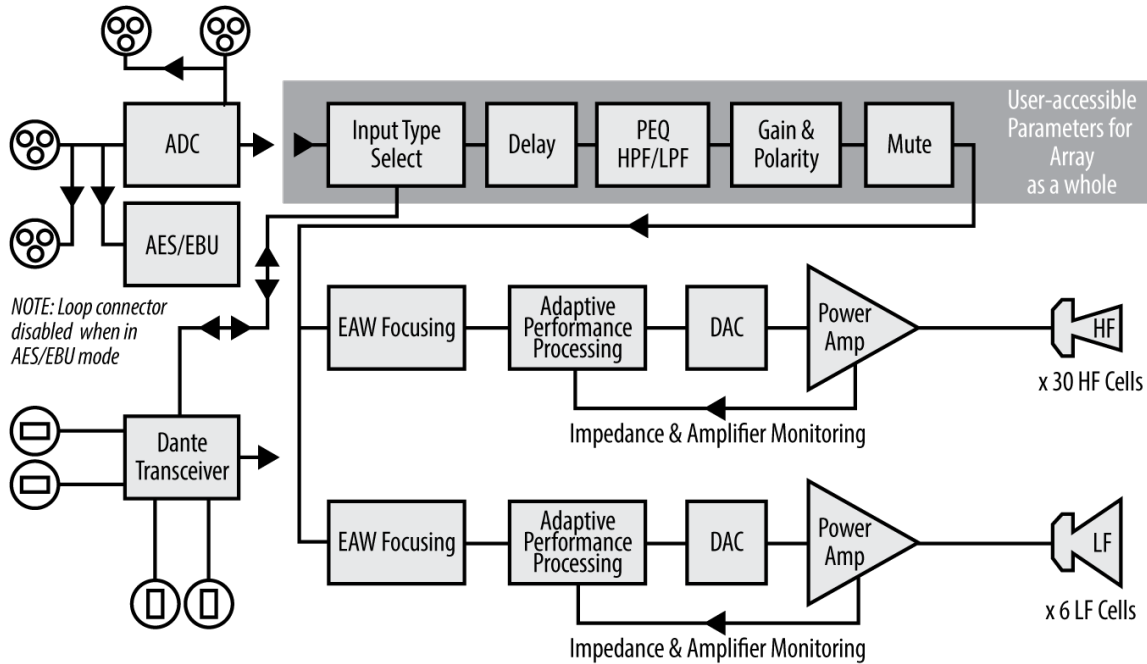
POWER CONSUMPTION

Full	600W
1/3rd	380W
1/8th	180W
Idle	120W

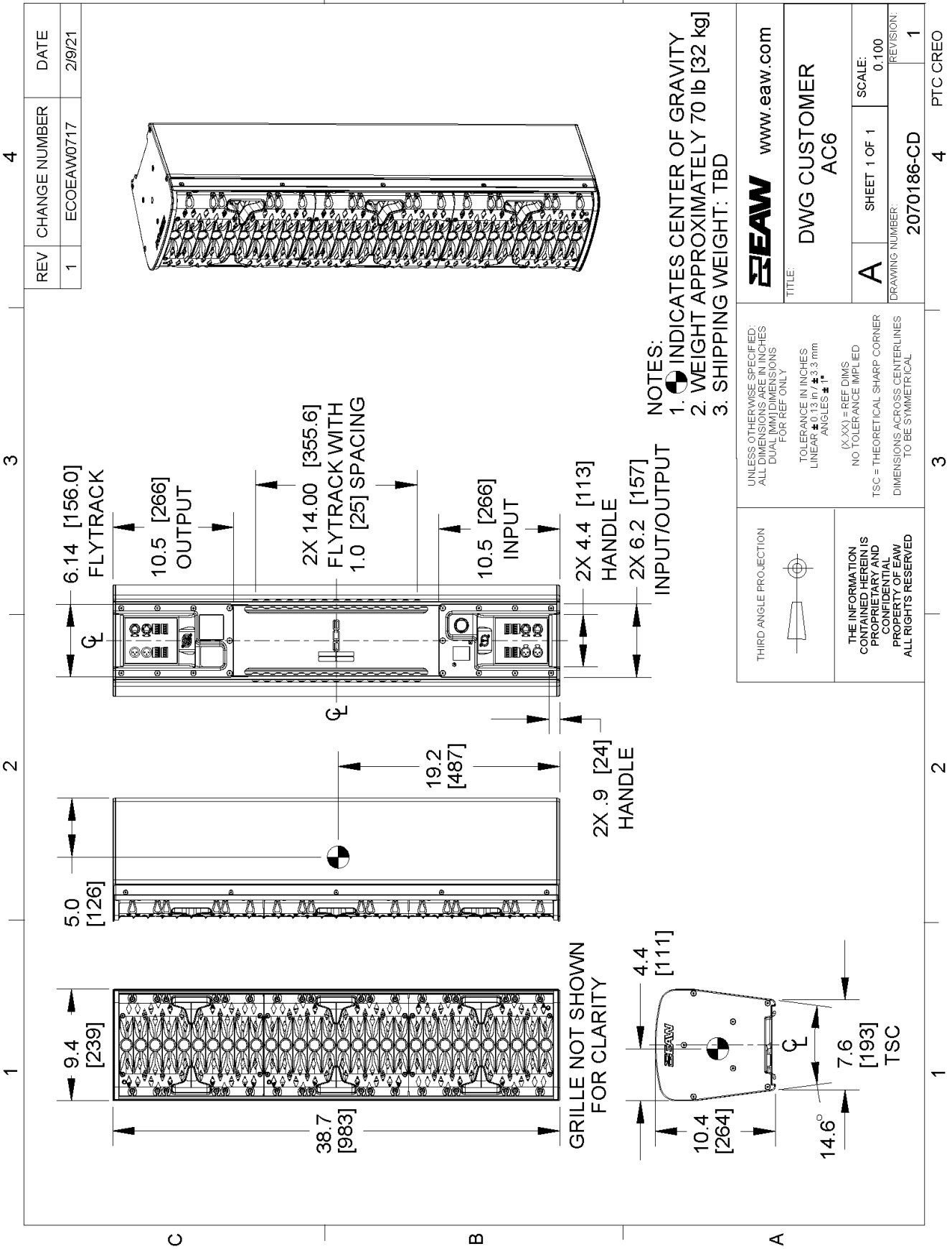
1 Calculated max SPL at 1m with 4:1 (12dB) crest factor pink noise. Specified as whole space (free field) for full range loudspeakers, half space for subwoofers.

2 Operating Range: Range where the processed Frequency Response stays within -10 dB SPL of the power averaged SPL within this range; measured on the geometric axis. Narrow band dips are excepted.

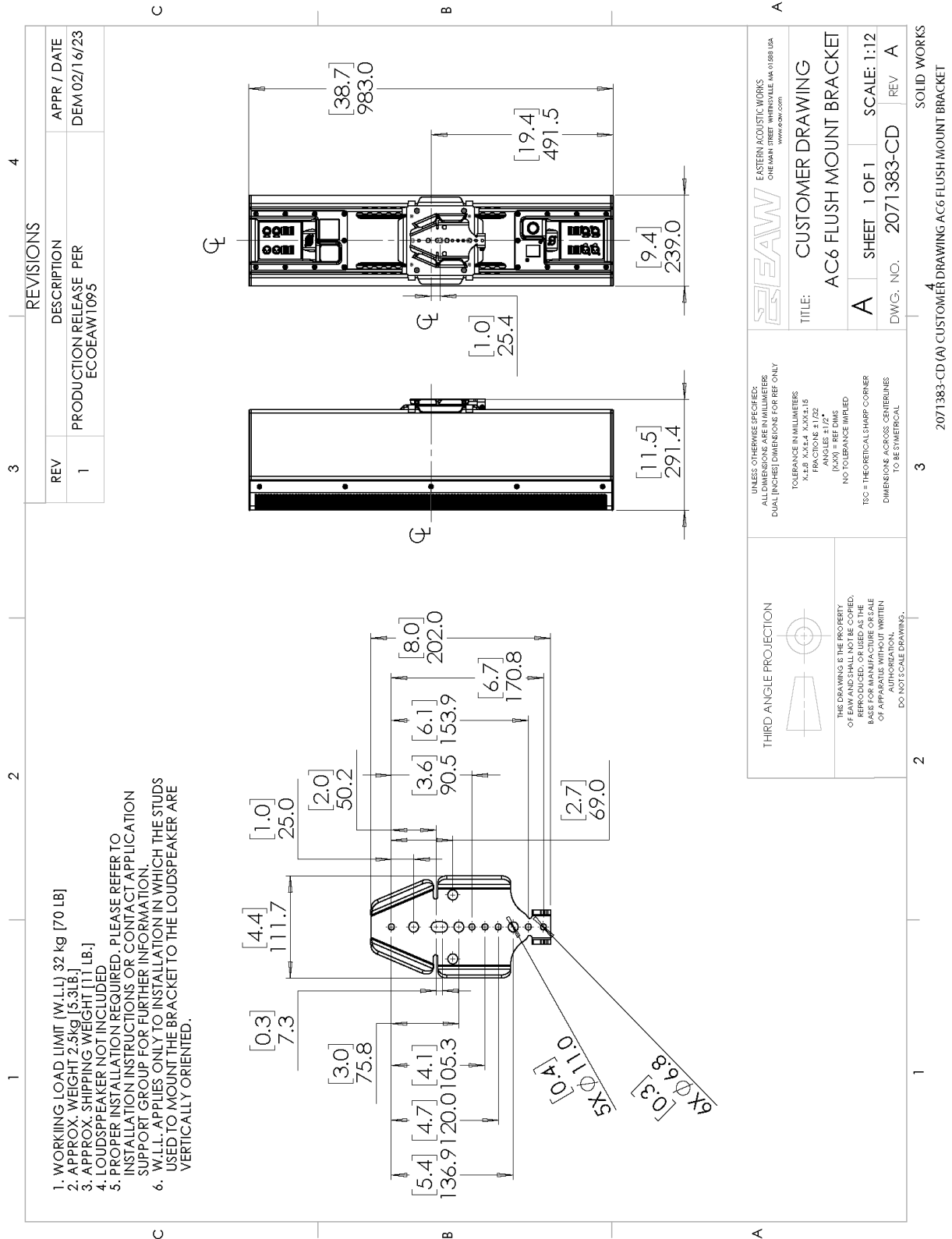
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

SIGNAL DIAGRAM**LEGEND**

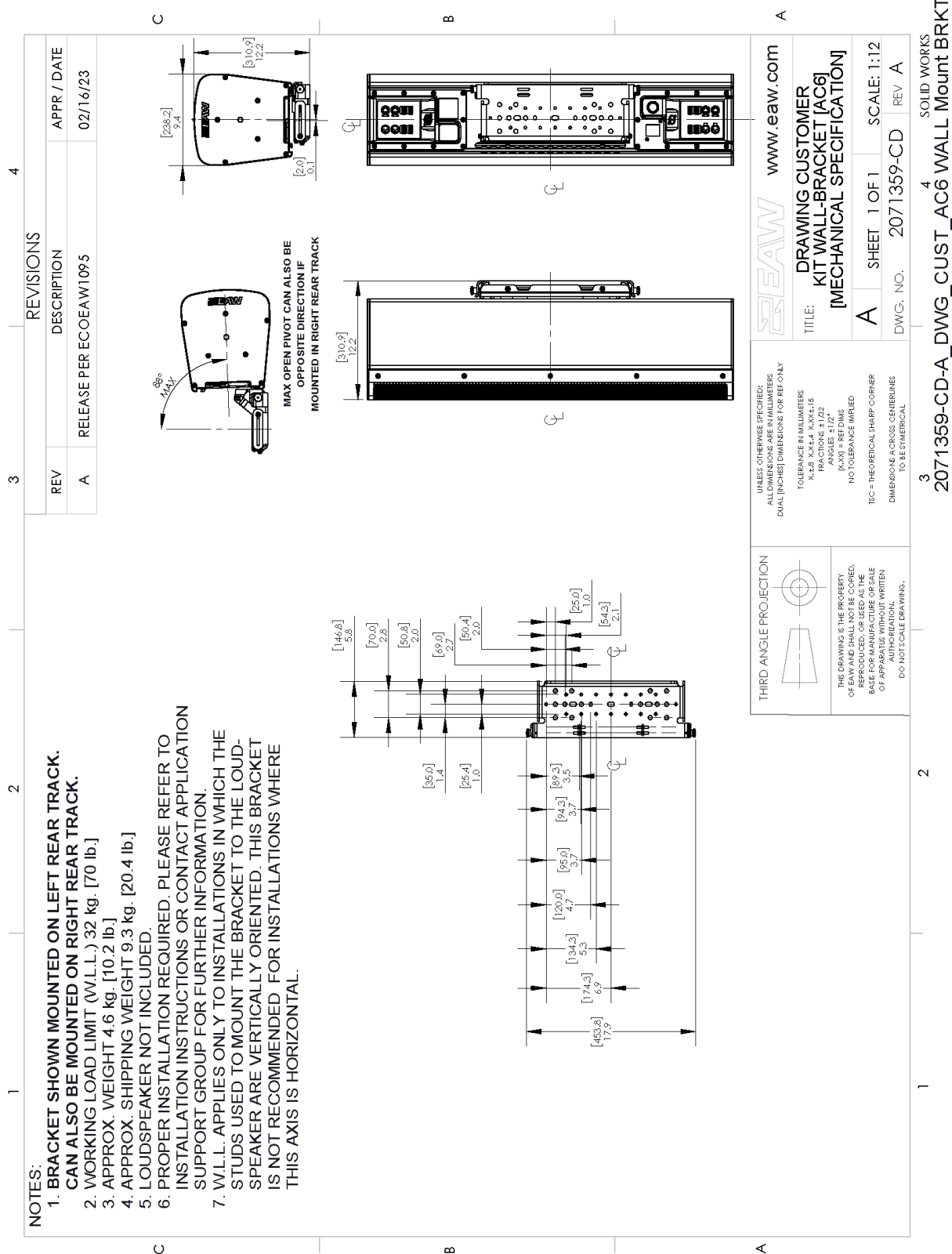
HPF:	High Pass Filter for crossover –or– Recommended High Pass Filter.
LPF:	Low Pass Filter for crossover.
LF/MF/HF:	Low Frequency / Mid Frequency / High Frequency.
AMP:	User Supplied Power Amplifier –or– Integral Amplifier for NT products.
XVR:	Passive LPFs, HPFs, and EQ integral to the loudspeaker.
EAW Focusing:	Digital Signal Processor capable of implementing EAW Focusing.



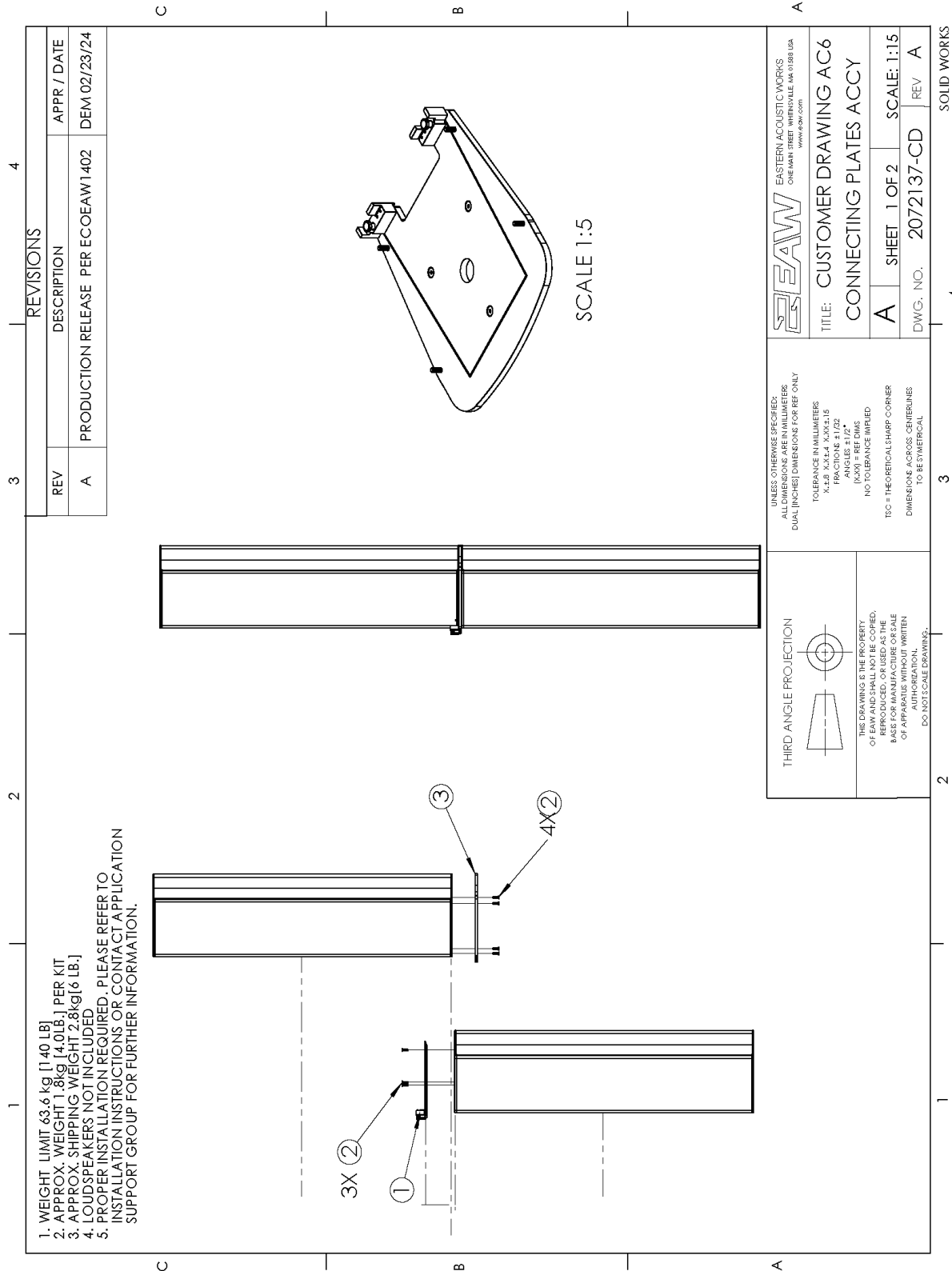
AC6 FLUSH MOUNT



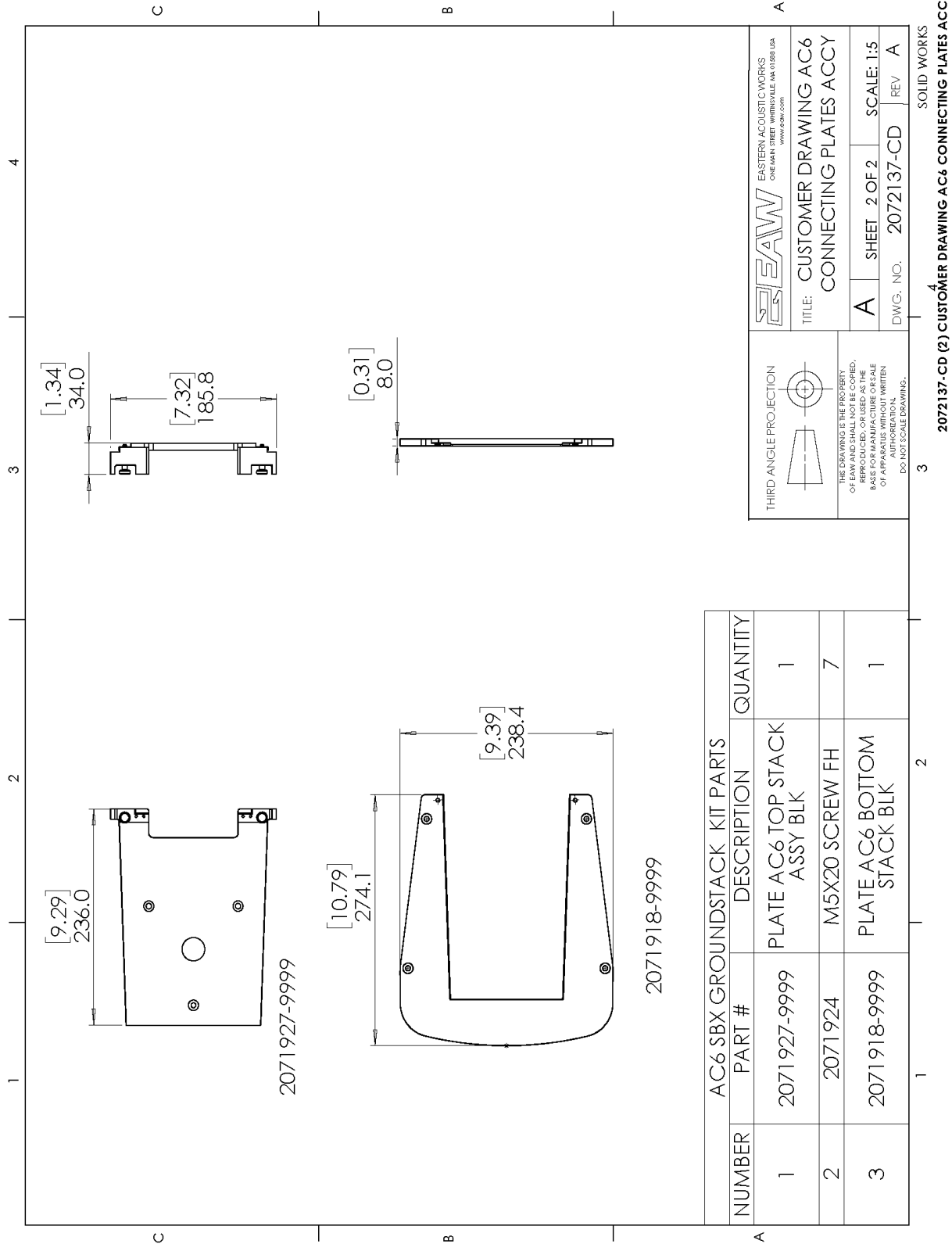
AC6 WALL BRACKET



AC6 CONNECTING PLATES

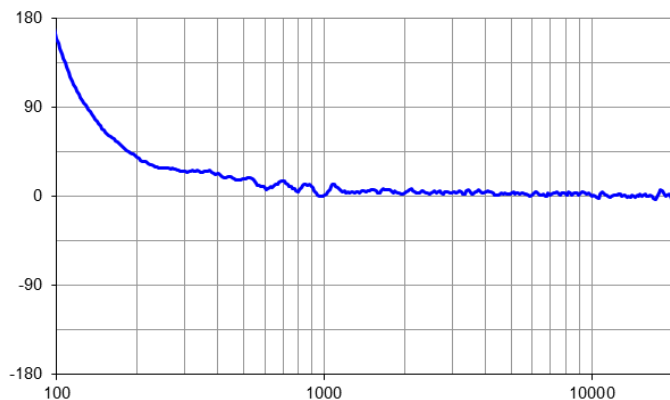


AC6 CONNECTING PLATES

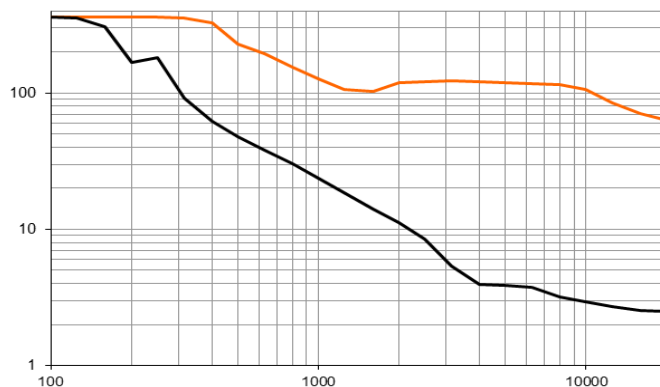


PERFORMANCE GRAPHS

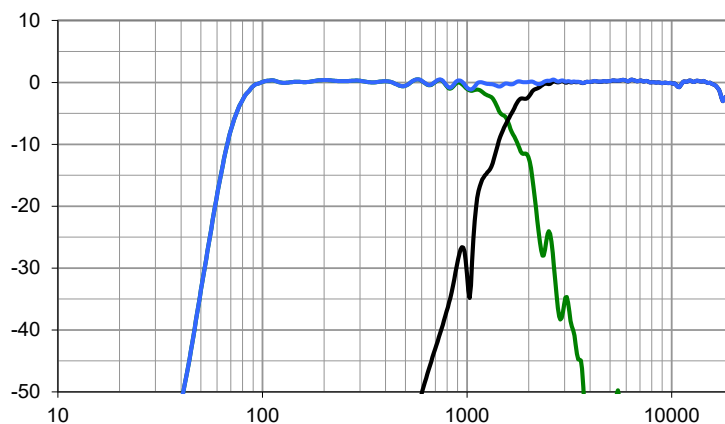
Phase Linearity



Beamwidth (Unadapted)¹ ■=Horizontal ■=Vertical



Frequency Response² ■=LF Processed ■=HF Processed ■=Overall Processed



1 Average angle for each 1/3 octave frequency band where, starting from the rear of the loudspeaker, the output first reaches -6 dB SPL referenced to 0 dB SPL as the highest level. This method means the output may drop below -6 dB SPL within the beamwidth angle.

2 Variation in acoustic output level with frequency for a constant input signal. Processed: normalized to 0 dB SPL. Unprocessed inputs: 2 V (4 ohm nominal impedance), 2.83 V (8ohm nominal impedance), or 4 V (16 ohm nominal impedance) referenced to a distance of 1 m.

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