



# **PS112 4015**

**12" Point Source**

1 x 12NTLW3500 + ND3T





# PS112 4015 | SPEAKERS

## 12NTLW3500 8Ω

### SPECIFICATIONS

Nominal Diameter	300 mm (12.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	5.8 Ω
Nominal Power Handling <sup>1</sup>	900 W
Continuous Power Handling <sup>2</sup>	1800 W
Sensitivity <sup>3</sup>	97.0 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)

### KEY FEATURES

- 97 dB SPL 1W / 1m average sensitivity
- 88 mm (3") ISV voice coil
- 900 W AES power handling
- Extremely balanced BL shape for maximum SPL
- Optimized thermal conductivity
- Maximum linearity and inductance symmetry for extended mid-band clarity
- Ideal for two-ways and line array applications



### PARAMETERS<sup>4</sup>

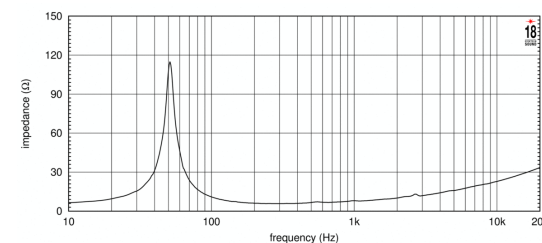
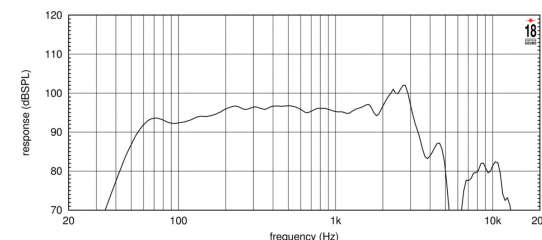
Resonance Frequency	53 Hz
Re	5.1 Ω
Qes	0.35
Qms	8.0
Qts	0.33
Vas	45.0 dm <sup>3</sup> (1.59 ft <sup>3</sup> )
Sd	531.0 cm <sup>2</sup> (82.31 in <sup>2</sup> )
η <sub>o</sub>	1.8 %
Xmax	8.3 mm
Mms	80.0 g
Bl	19.5 Txm
Le	0.46 mH
EBP	151 Hz

### DESIGN

Surround Shape	Triple roll
Cone Shape	Curvilinear
Magnet Material	Neo
Recommended Enclosure	50.0 dm <sup>3</sup> (1.77 ft <sup>3</sup> )
Recommended Tuning	58 Hz

### MOUNTING AND SHIPPING INFO

Overall Diameter	310 mm (12.2 in)
Bolt Circle Diameter	295 mm (11.61 in)
Baffle Cutout Diameter	282.0 mm (11.1 in)
Depth	193 mm (7.6 in)
Flange and Gasket Thickness	13 mm (0.53 in)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	5.5 kg (12.13 lb)



1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.  
 2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.  
 3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.  
 4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



# PS112 4015 | SPEAKERS

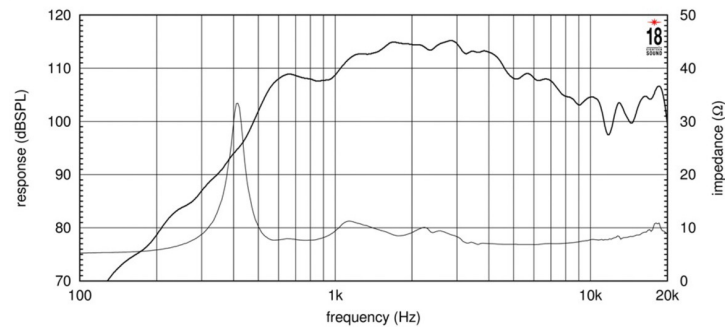
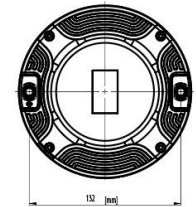
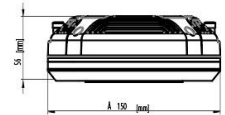
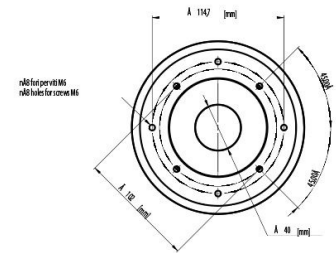
## ND4015Ti2 8Ω

### SPECIFICATIONS

Throat Diameter	40 mm (1.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.9 Ω
Nominal Power Handling <sup>1</sup>	160 W
Continuous Power Handling <sup>2</sup>	320 W
Sensitivity <sup>3</sup>	113.0 dB
Frequency Range	0.8 - 20.0 kHz
Recommended Crossover <sup>4</sup>	0.8 kHz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminum
Diaphragm Material	Titanium
Flux Density	2.0 T
Magnet Material	Neodymium

### KEY FEATURES

- Next Gen Titanium diaphragm for higher sensitivity and extended high frequency
- 113 dB 1W / 1m average sensitivity
- 1.5 inch throat exit
- 4 inch edgewound aluminium voice coil
- 320W max. program power handling
- HF copper sleeve for reduced distortion and increased output
- BEM optimized 4-slot metal alloy phase plug
- Available also in 1.4" and 2" exit version



### MOUNTING AND SHIPPING INFO

Overall Diameter	150 mm (5.91 in)
Depth	57 mm (2.24 in)
Net Weight	3.2 kg (7.05 lb)
Shipping Weight	3.35 kg (7.39 lb)
Shipping Box	170 x 170 x 80 mm (6.69x6.69x3.15 in)

1. 2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated nominal impedance.  
 2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.  
 3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.  
 4. 12 dB/oct. or higher slope high-pass filter.



# PS112 4015 | HORNS

## XR1496C 8Ω

90° (h) x 60° (v) constant coverage

### KEY FEATURES

- 1.4 inch throat entry
- High damping composite structure
- Uniform on-axis and off-axis frequency response
- 90° x 60° horizontal and vertical constant coverage
- Very low distortion at high sound pressure
- Optimized weight thanks to composite material structure

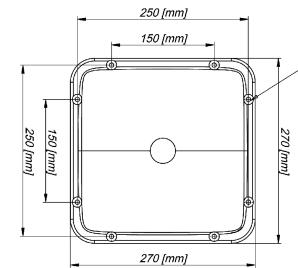
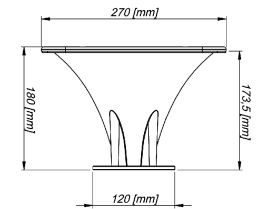
### MOUNTING AND SHIPPING INFO

Throat Diameter	35,5 mm (1,4 in)
Horizontal Coverage -6db	90° (15-10) avg range (1,25kHz - 12,5kHz)
Vertical Coverage -6db	60° (18-12) avg range (1,25kHz - 12,5kHz)
Directivity Index	9dB (1.8-1,2) average range (1,25kHz - 12,5kHz)
Usable Frequency Range	Above 800 Hz
Recomm. Xover Frequency	800 Hz or more
Material	Composite material



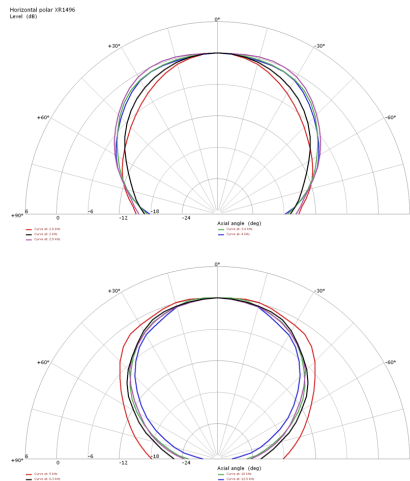
### MOUNTING AND SHIPPING INFO

Baffle Cutout Dimension 240x240x180 mm (9.45x9.45x7.09 in)  
 Net Weight 1.4 kg (3.09 lb)

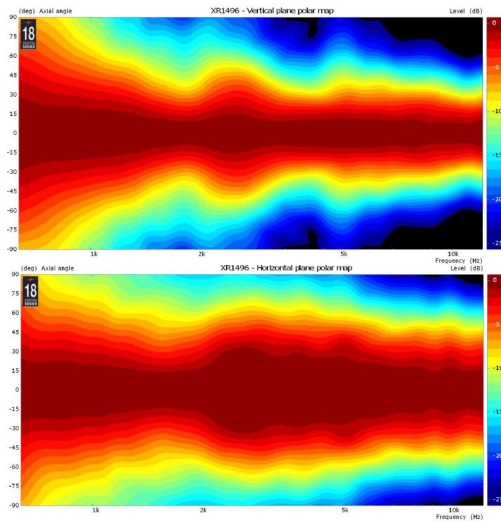
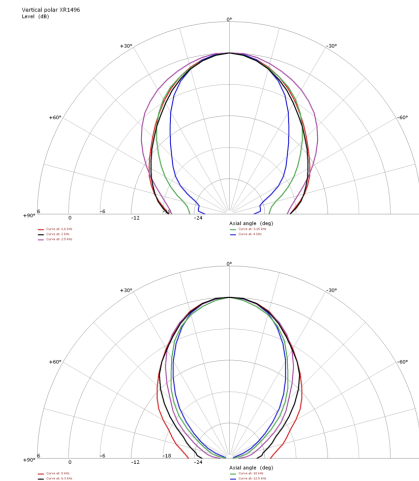


nr 8 holes for railhead screws M8

### HORIZONTAL 1/3 OCTAVE POLAR PLOTS



### VERTICAL 1/3 OCTAVE POLAR PLOTS





# PS112 4015 | HORNS

## XR1464C 8Ω

60° (h) x 40° (v) constant coverage

### KEY FEATURES

- 1.4 inch throat entry
- High damping composite structure
- Uniform on-axis and off-axis frequency response
- 60° x 40° horizontal and vertical constant coverage
- Very low distortion at high sound pressure
- Optimized weight thanks to composite material structure

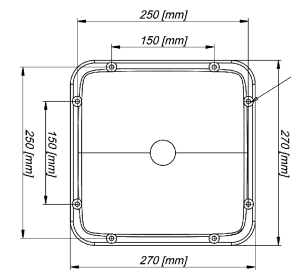
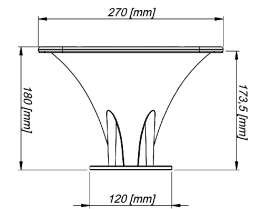
### MOUNTING AND SHIPPING INFO

Throat Diameter	35,5 mm (1,4 in)
Horizontal Coverage	-6db 60° (10-2) avg range (1,25kHz - 12,5kHz)
Vertical Coverage	-6db 40° (25-0) avg range (1,25kHz - 12,5kHz)
Directivity Index	11dB (2-1) average range (1,25kHz - 12,5kHz)
Usable Frequency Range	Above 800 Hz
Recomm. Xover Frequency	800 Hz or more
Material	Composite material

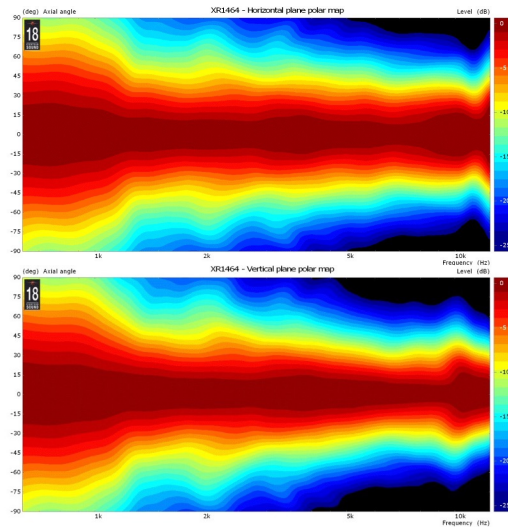


### MOUNTING AND SHIPPING INFO

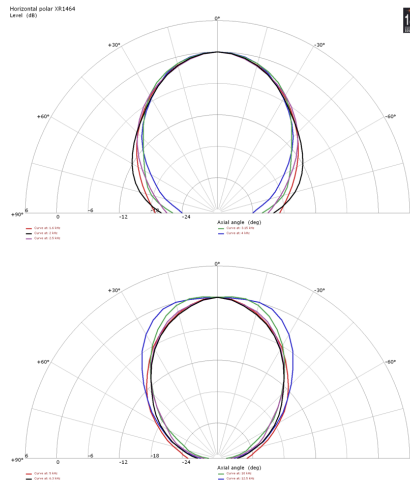
Baffle Cutout Dimension 240x240x180 mm (9.45x9.45x7.09 in)  
 Net Weight 1.4 kg (3.09 lb)



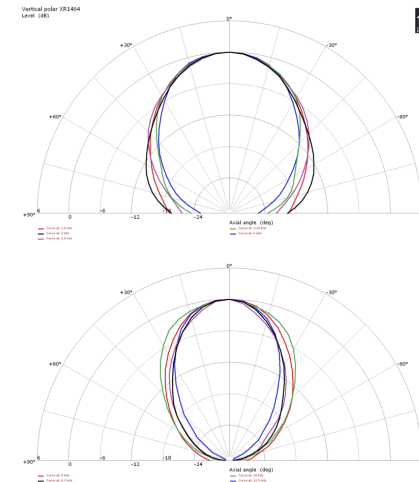
nr 8 holes for railhead screws M4



### HORIZONTAL 1/3 OCTAVE POLAR PLOTS



### VERTICAL 1/3 OCTAVE POLAR PLOTS





# **PS112 4015** | BILL OF MATERIALS

- 1x 12NTLW3500 – 8 ohm
- 1x ND4015Ti2 – 8 ohm
- 1x XR1496C or XR1464
- 1x Adattatore 1.4 - 1.5
- 16x M5 Wood T-Nuts
- 8x M5 Hex socket head ISO 4762 with washer and grower
- 8x M5 Hex sochet CTSK head ISO 10642
- 2x Neutrik NL4MP
- Edilfiber damping material 30mm - 30kg/m<sup>3</sup>
- Wood: 15mm Birch plywood

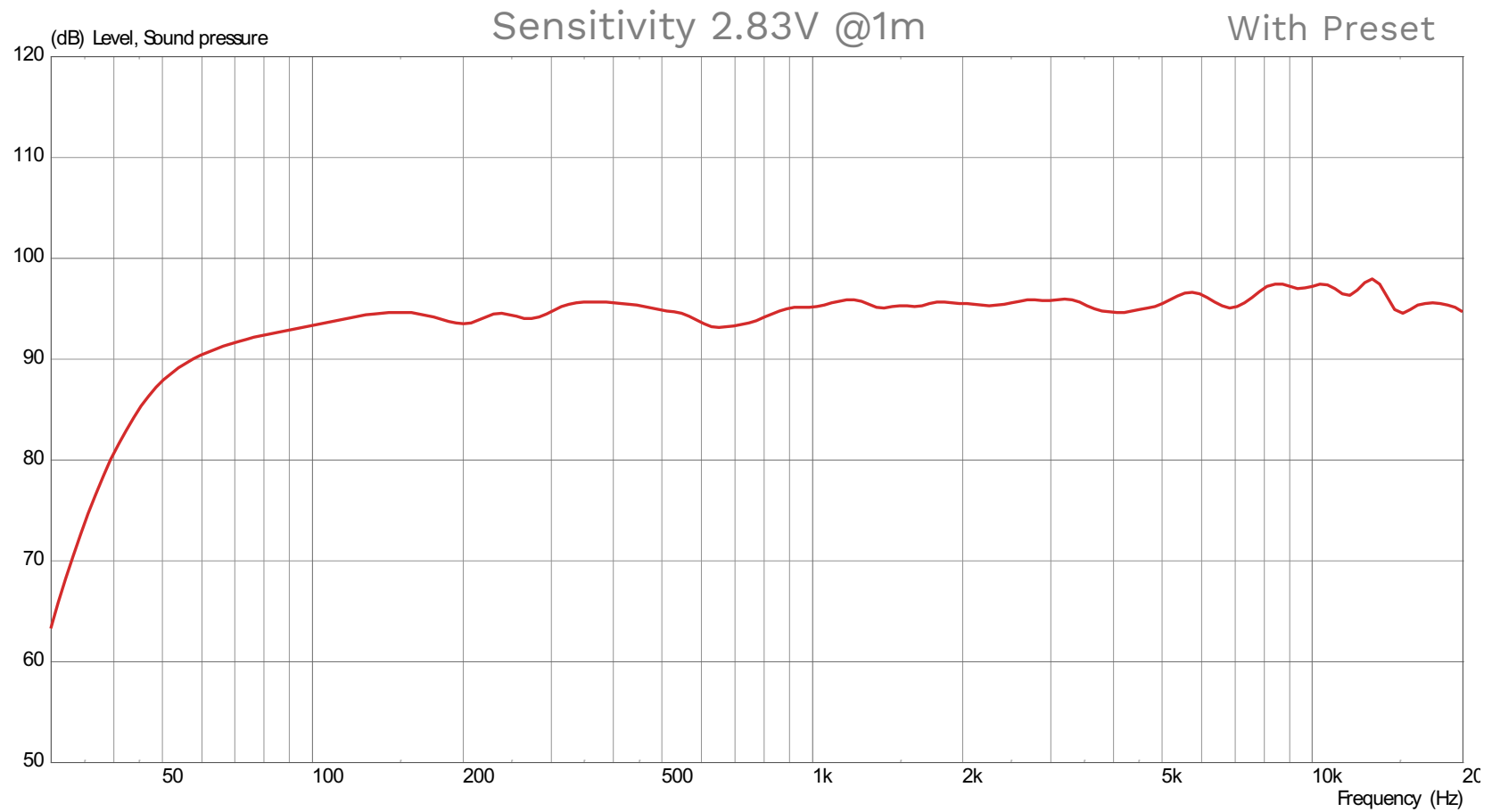


# **PS112 4015**

Version with XR1496C Horn



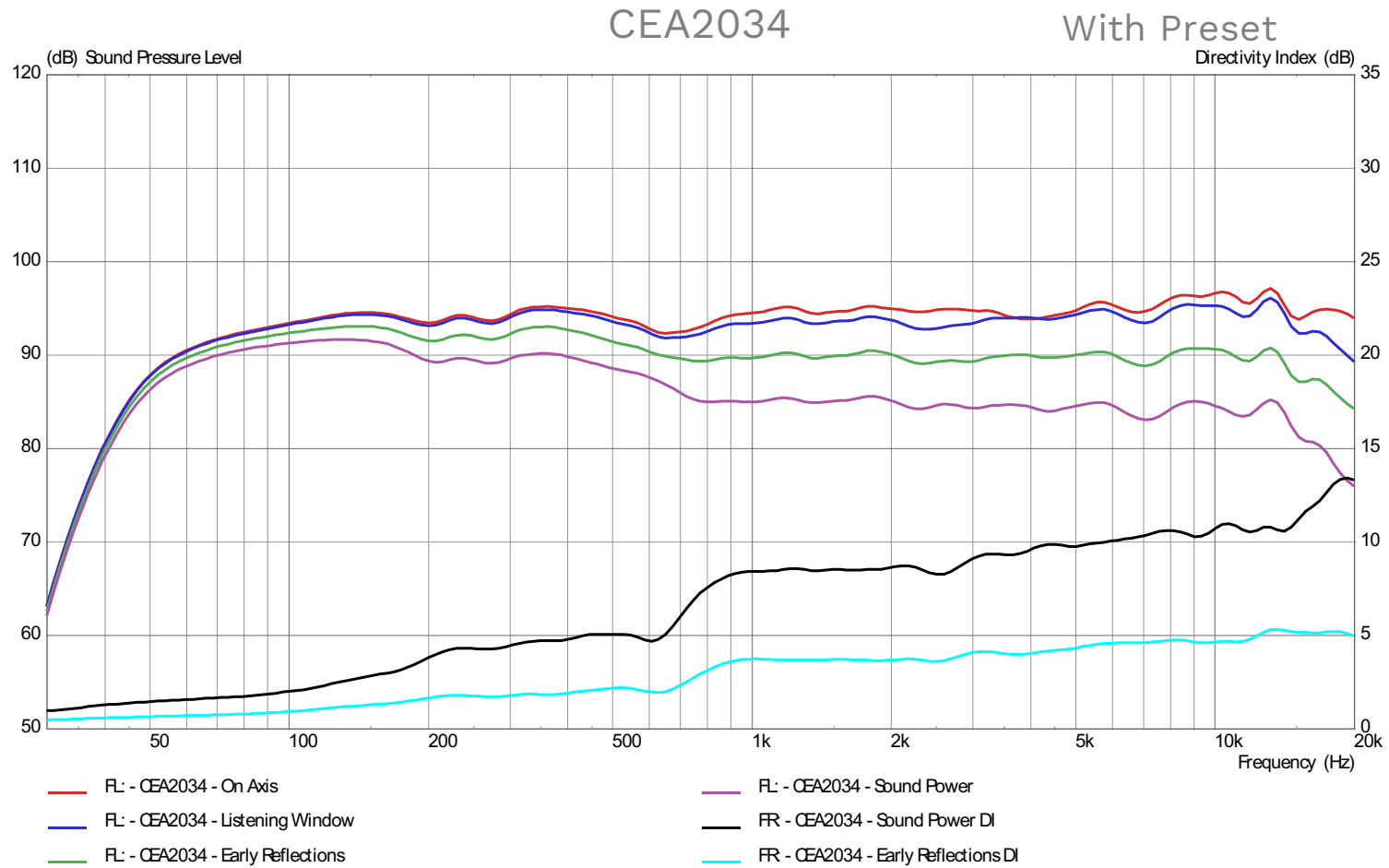
# PS112 4015 | MEASUREMENTS







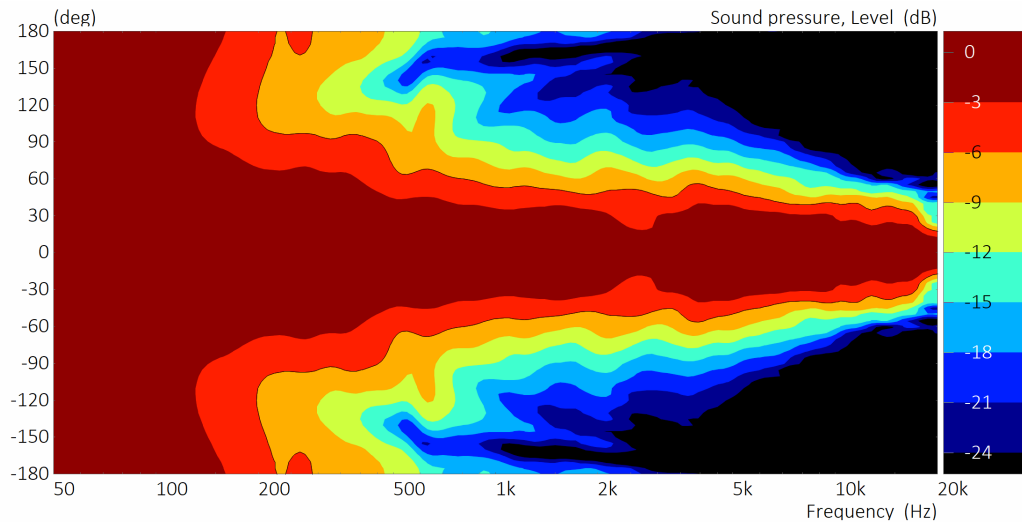
# PS112 4015 | MEASUREMENTS



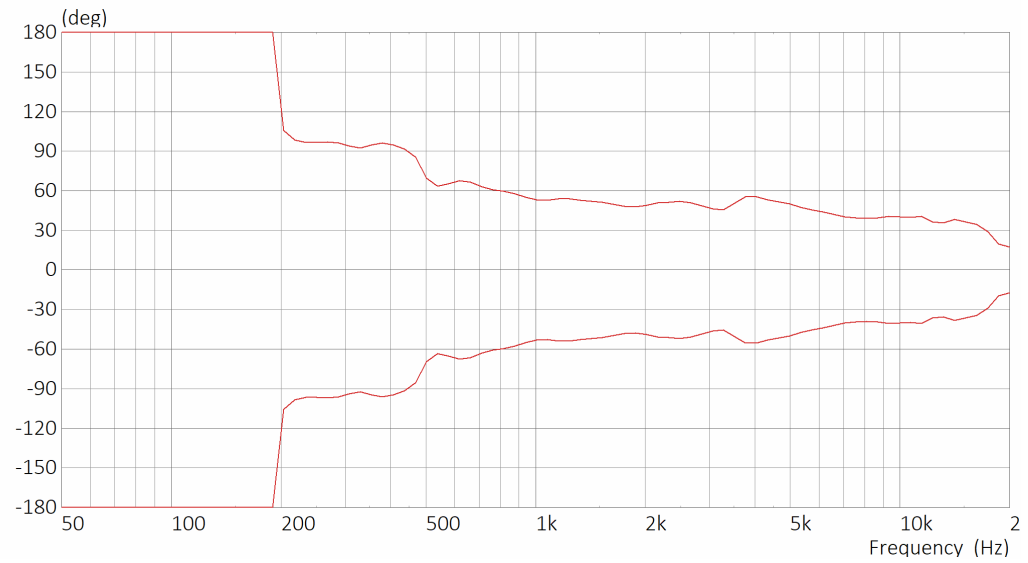


# PS112 4015 | MEASUREMENTS

### Horizontal Contour



### -6dB Beamwidth

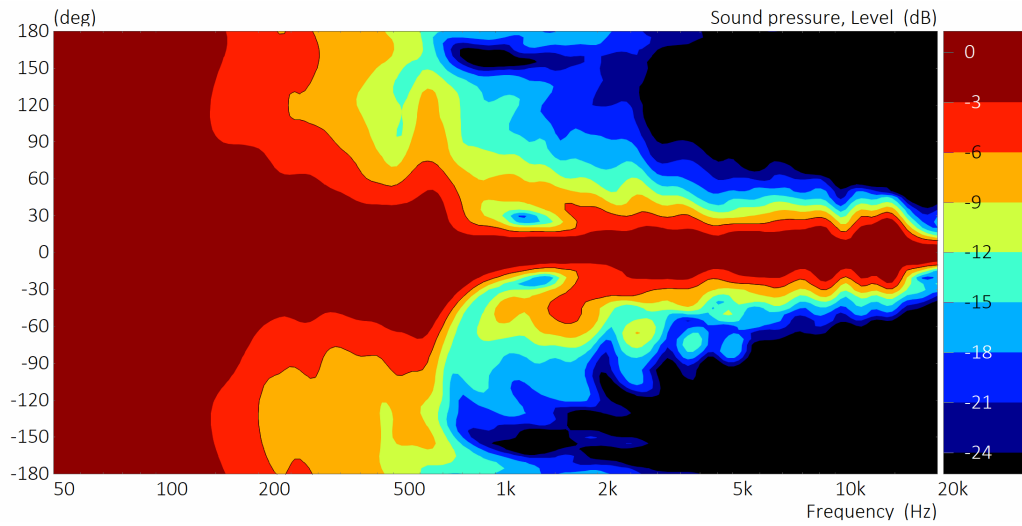


With Preset

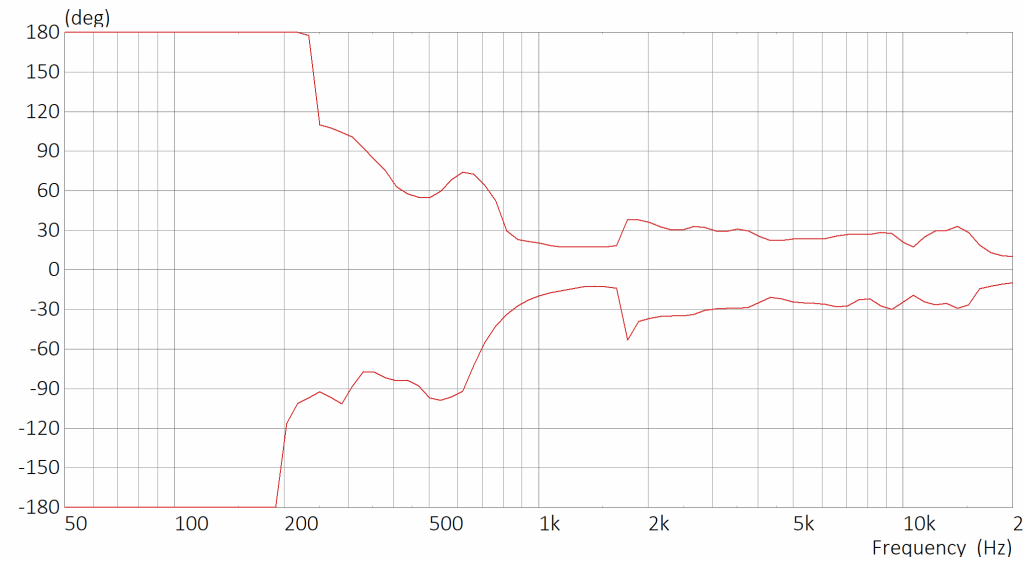


# PS112 4015 | MEASUREMENTS

### Vertical Contour



### -6dB Beamwidth

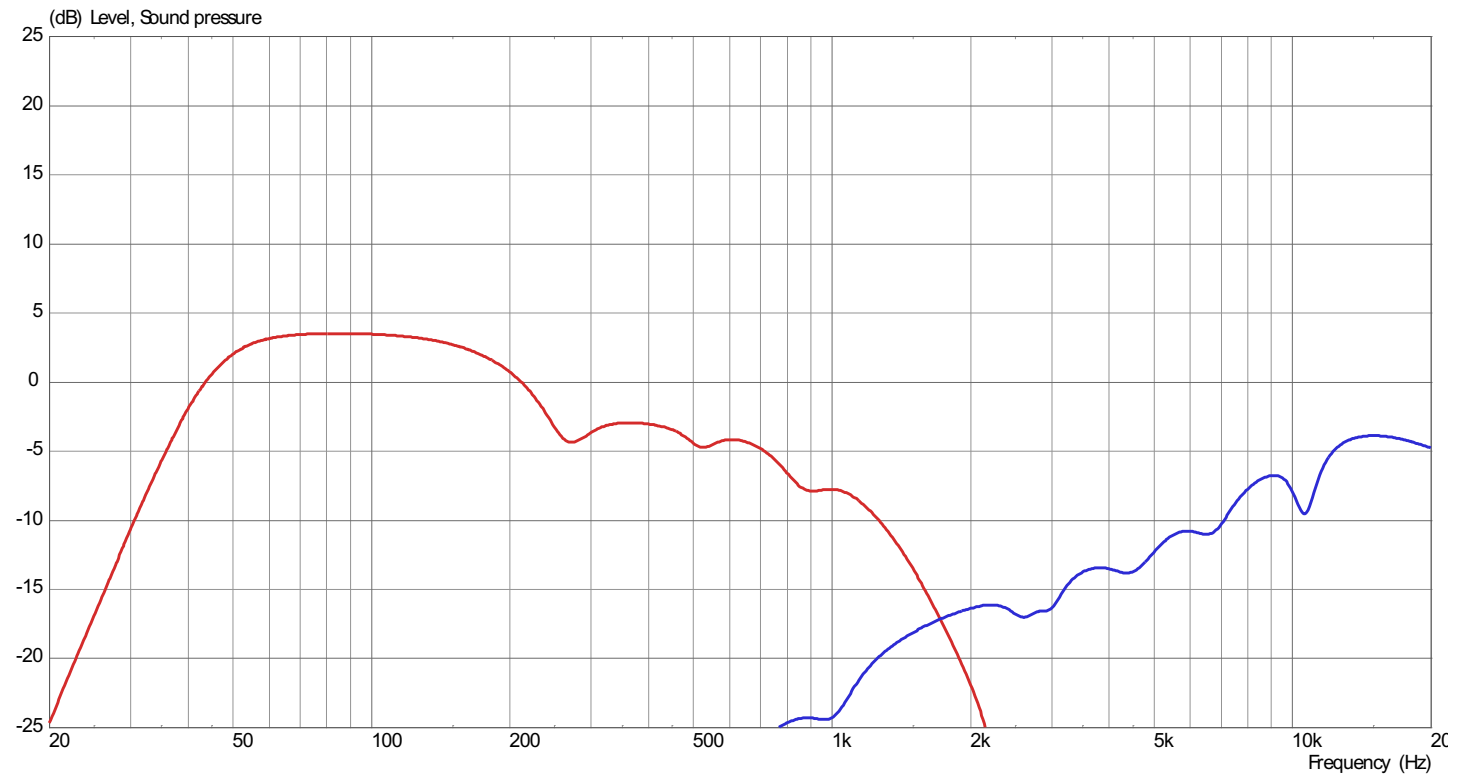


With Preset



# PS112 4015 | PROCESSING

LF & HF



Transfer Function



# **PS112 4015**

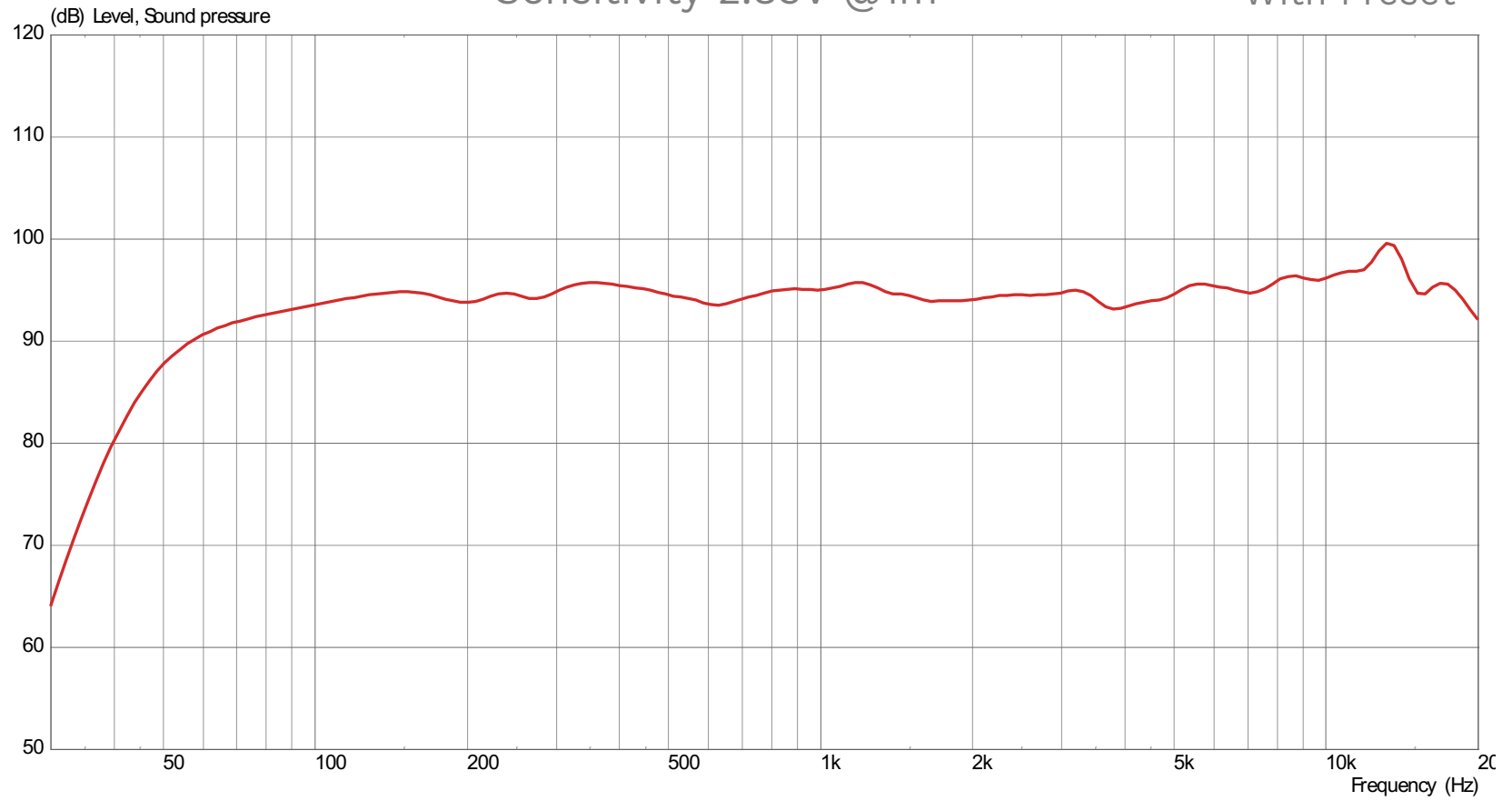
Version with XR1464C Horn



# PS112 4015 | MEASUREMENTS

Sensitivity 2.83V @1m

With Preset

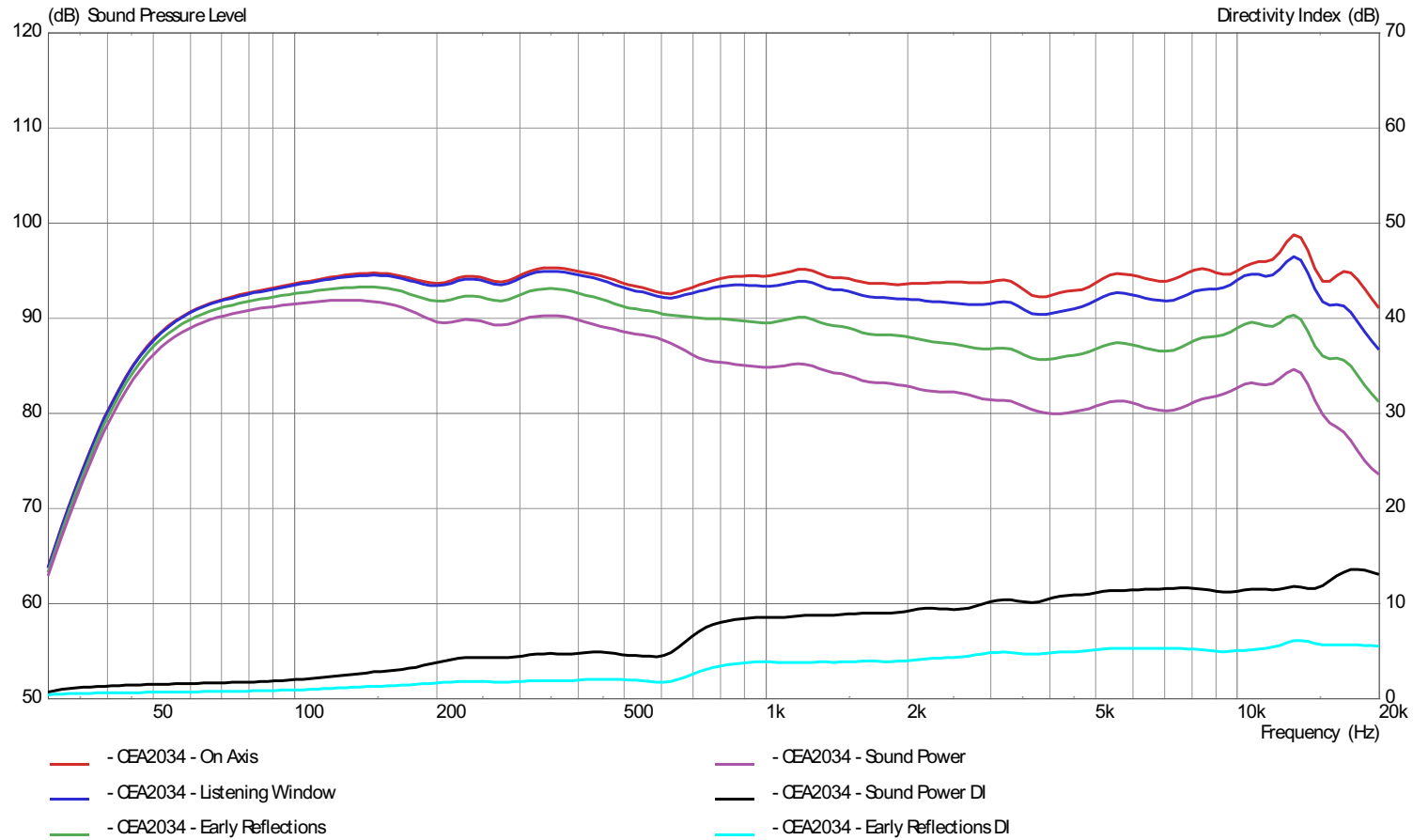




# PS112 4015 | MEASUREMENTS

CEA2034

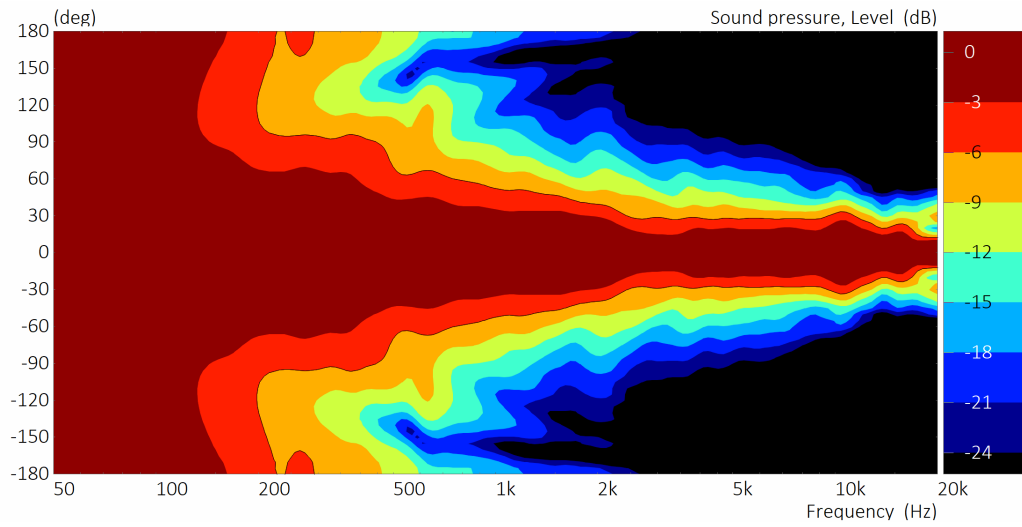
With Preset



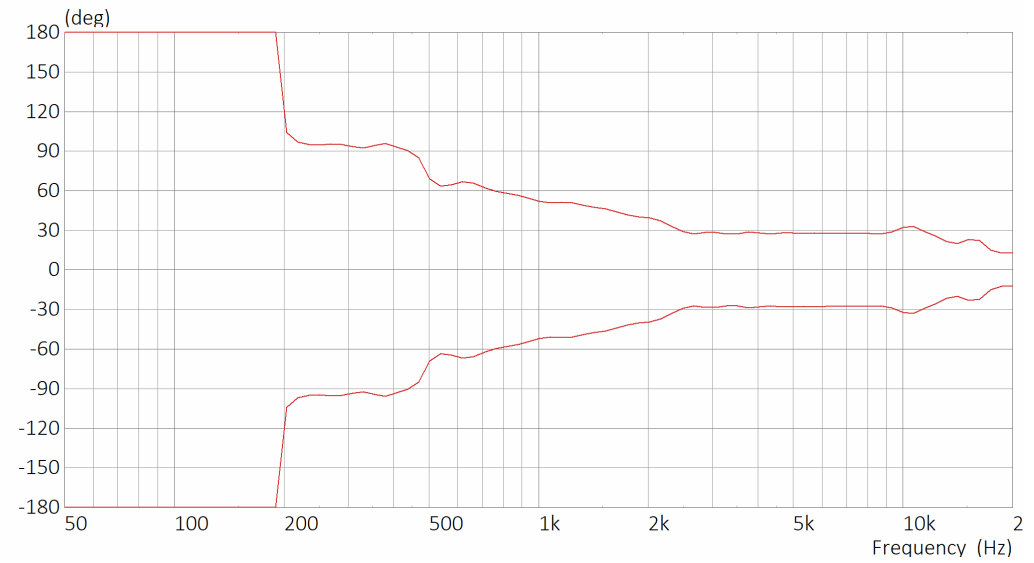


# PS112 4015 | MEASUREMENTS

Horizontal Contour



-6dB Beamwidth



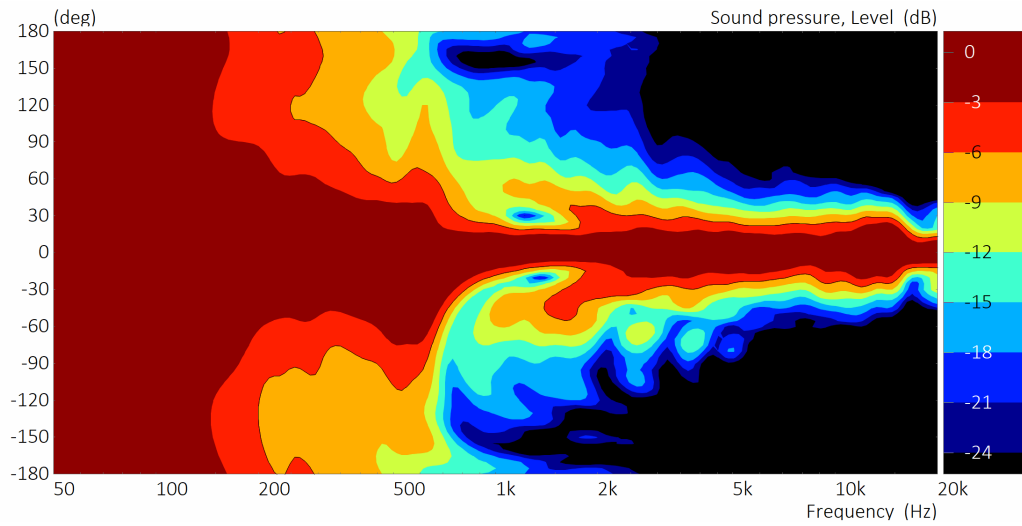
With Preset



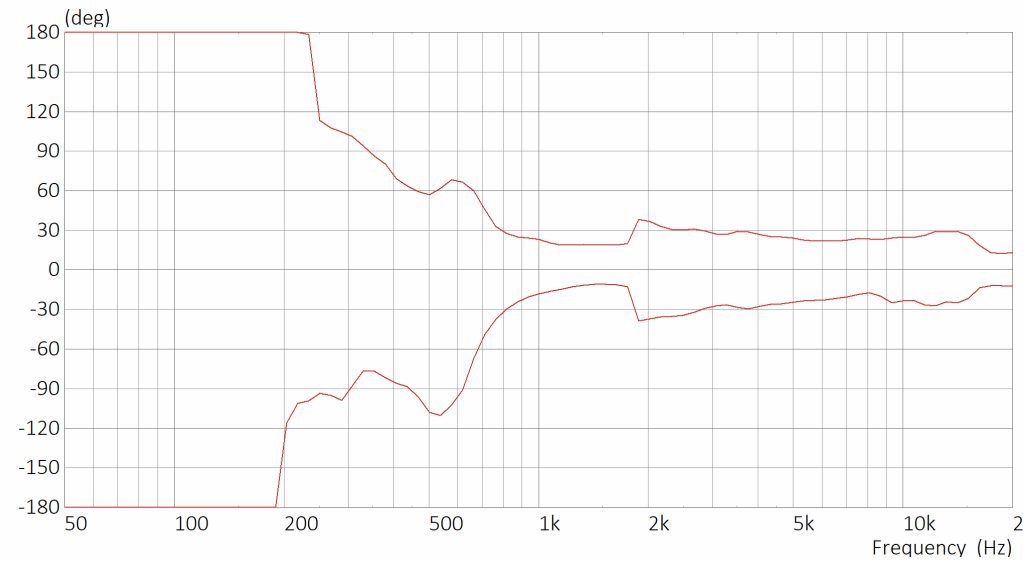


# PS112 4015 | MEASUREMENTS

Vertical Contour



-6dB Beamwidth

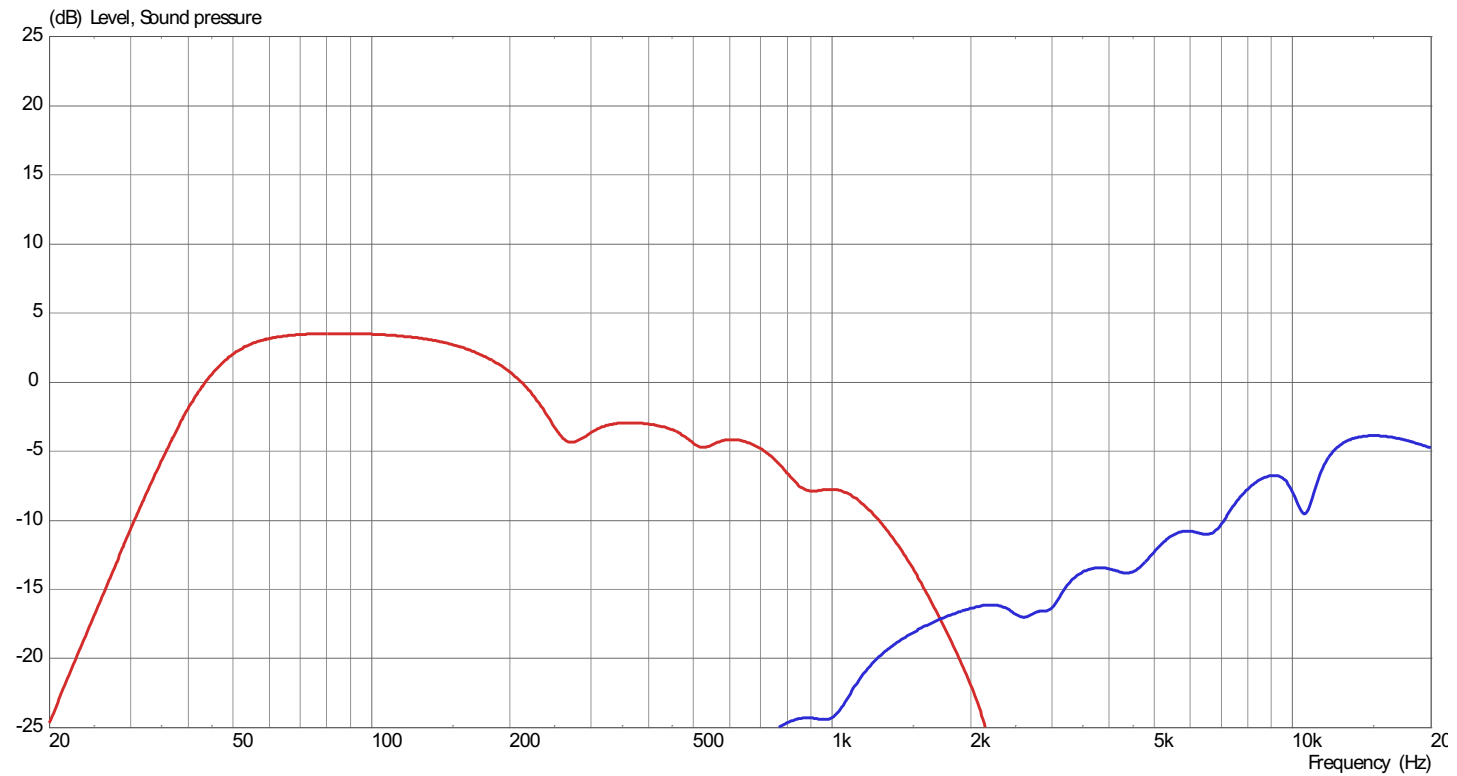


With Preset



# PS112 4015 | PROCESSING

LF & HF



Transfer Function



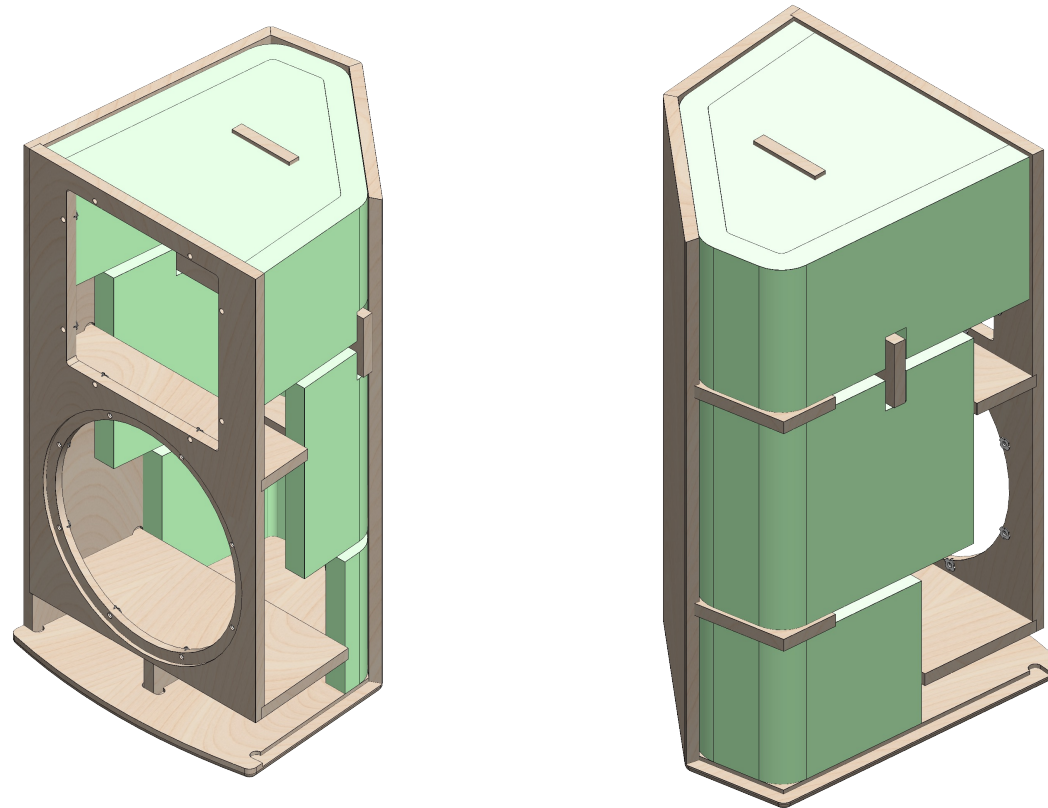
# **PS112 4015**

Assembly Information



# PS112 4015 | DAMPING MATERIAL

Edilfiber (Polyester) 30kg/m<sup>3</sup> – 30mm thick

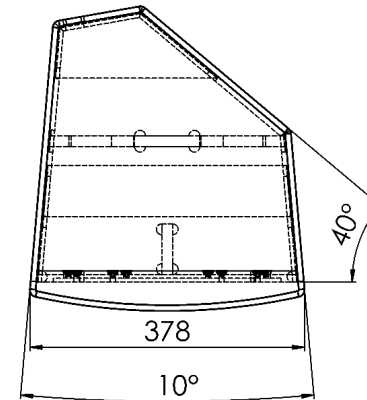
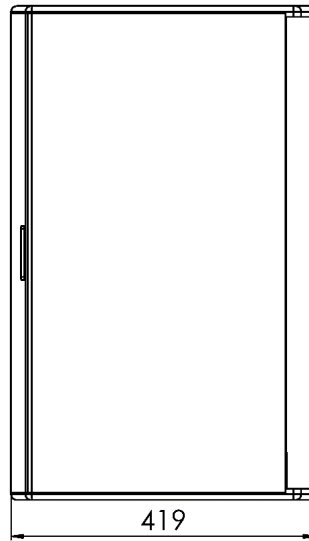
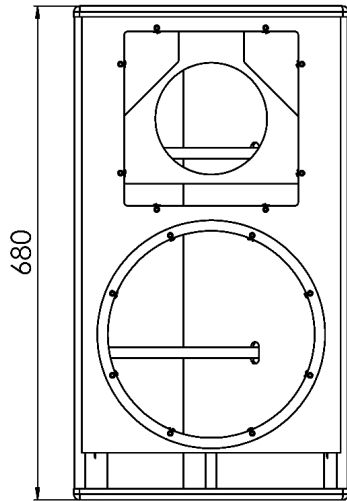


Follow carefully the quantity and positioning



# PS112 4015 | DIMENSIONS

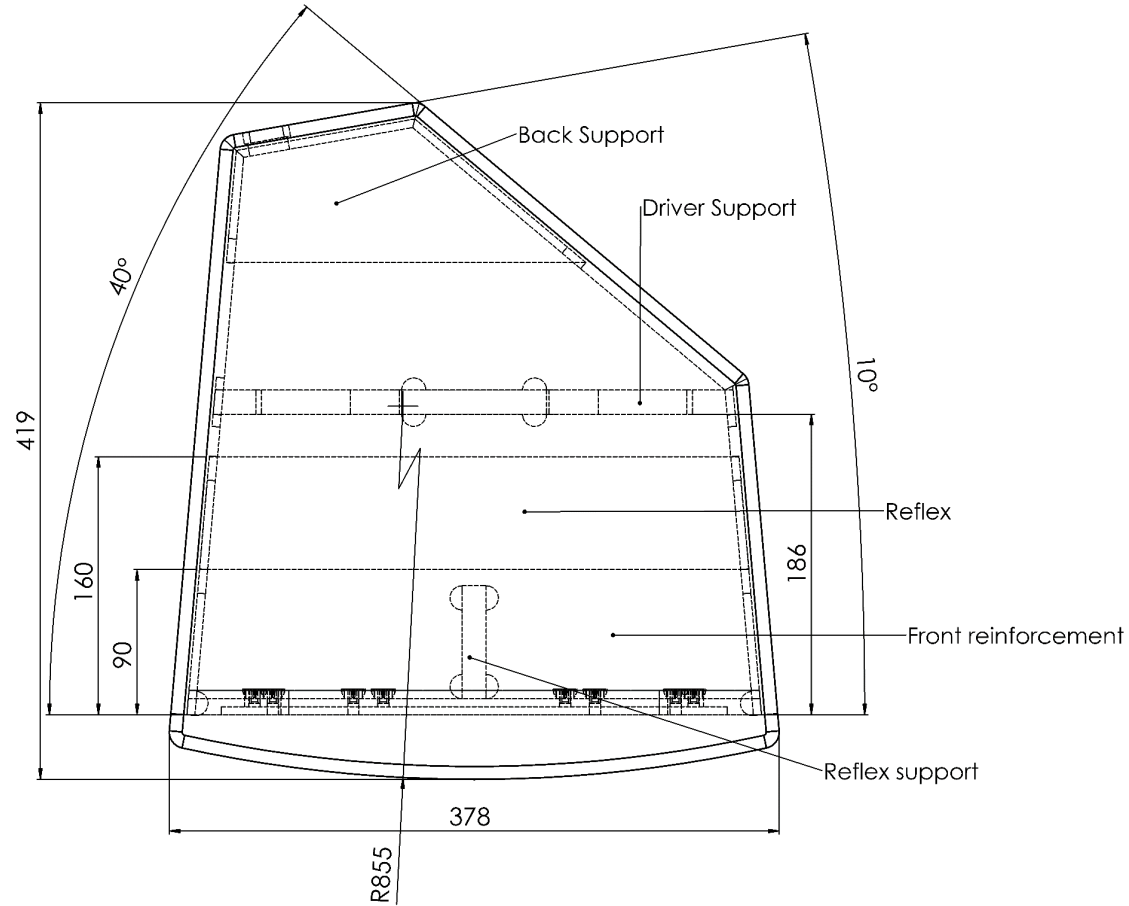
Total dimensions





# PS112 4015 | DIMENSIONS

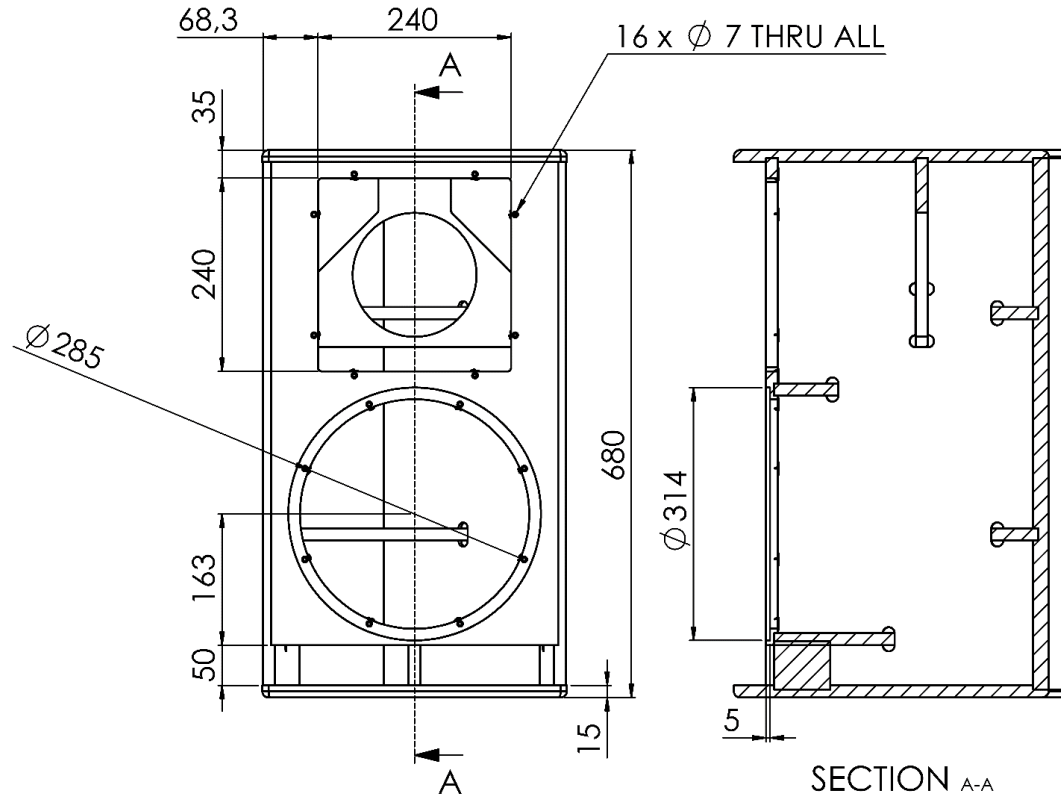
Top view





# PS112 4015 | DIMENSIONS

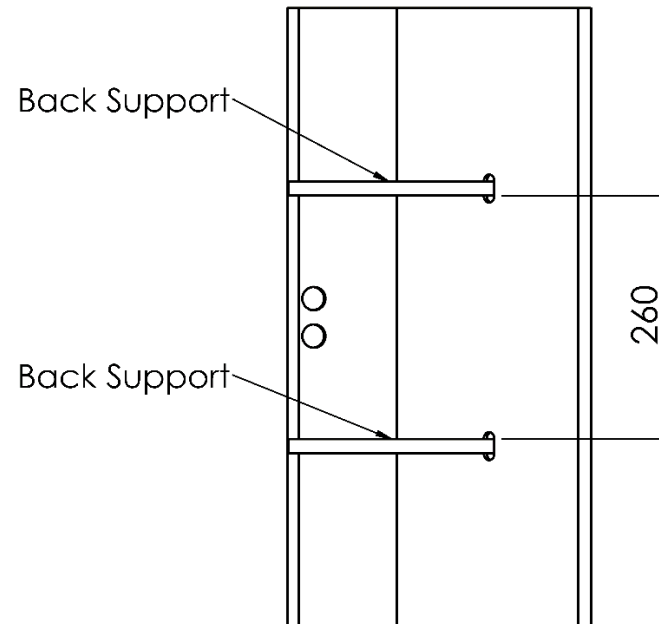
Front view





# PS112 4015 | DIMENSIONS

Back view

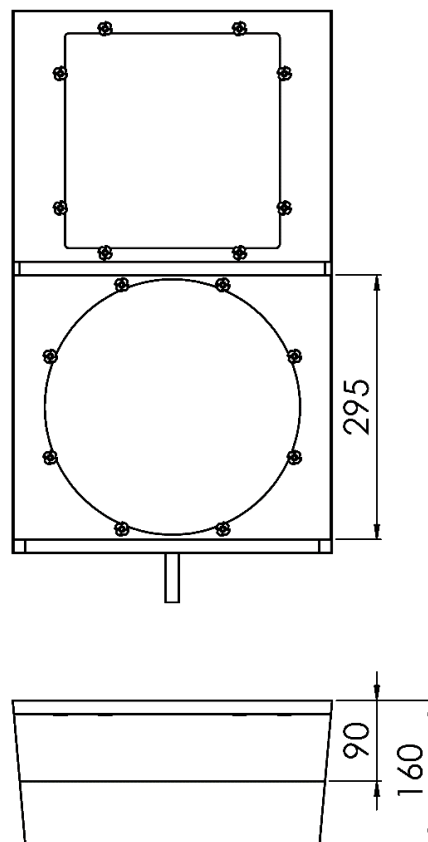






# PS112 4015 | DIMENSIONS

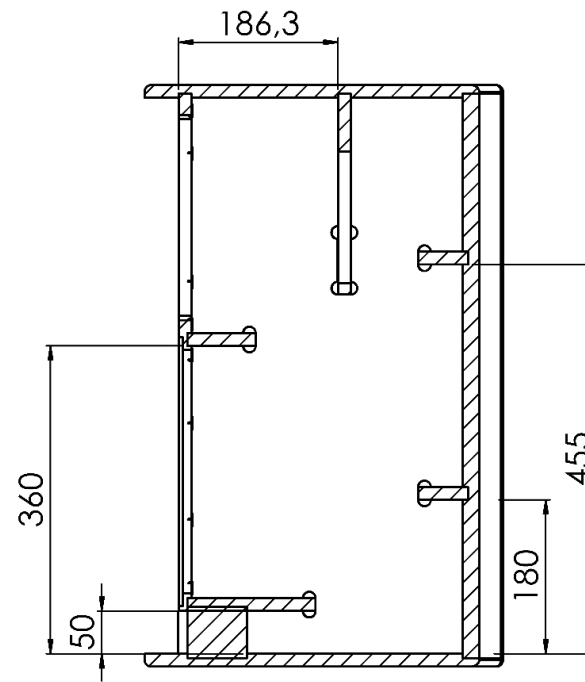
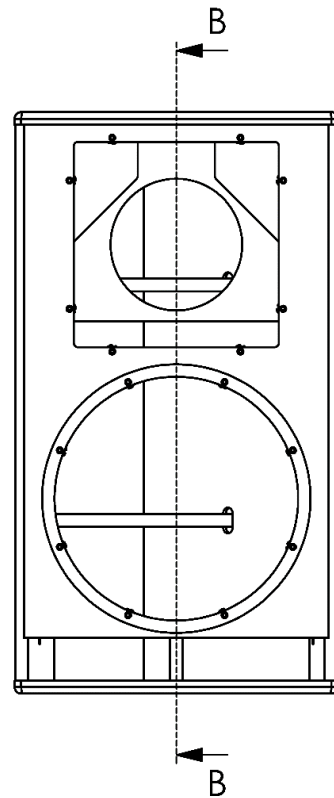
Baffle





# PS112 4015 | DIMENSIONS

Side view

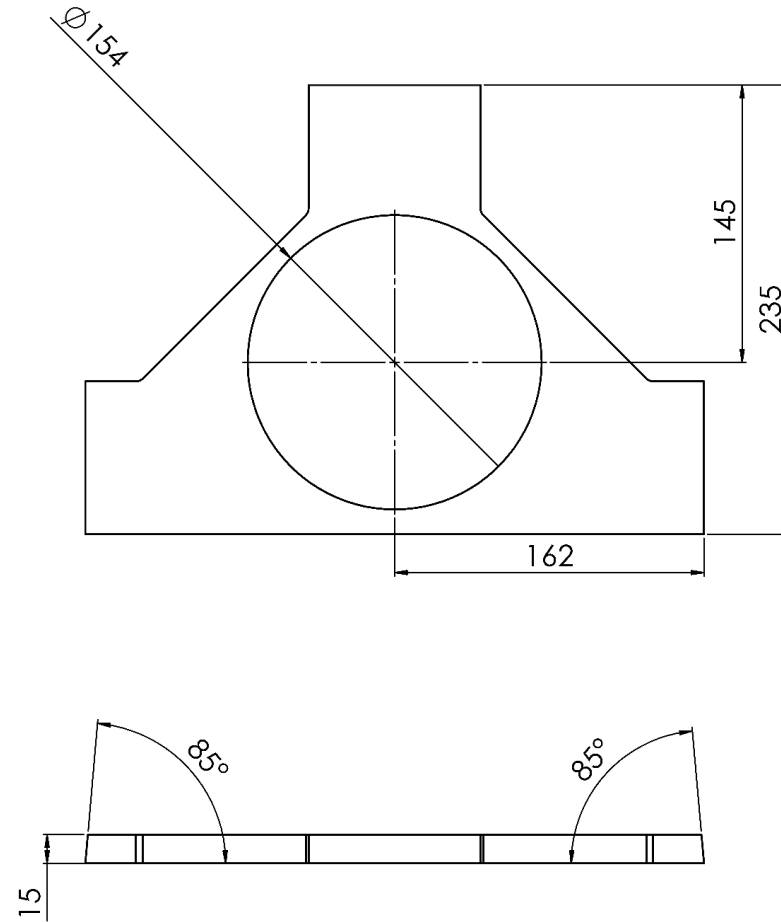


SECTION B-B



# PS112 4015 | DIMENSIONS

Driver support





# **PS112 4015** | NOTES