

VIETA

Re 12



Re-12

2-way speaker

The Re-12 is a 2-way speaker with multi angle trapezoid shaped enclosure. Thanks to this shape is easy to group them with an axis division from the minimum 20° to the maximum 50°.

The Re-12 is a bass reflex enclosure with a 12" LF driver and a 1" HF compressor neodymium driver comprising an aluminium alloy rotary horn of constant directivity.

This speaker works in passive way thanks to 12/18 dB asymmetric filters, impedance adapters and, the main thing, a phase correcting circuit. With all this components it is possible to get a flat response from 100 Hz to the 20 kHz.

It is specially indicated for rent companies or installations like pubs or night clubs.

The Re-12 is made of multilayer birch plywood, internally reinforced by wood rings, this avoids enclosure vibration and gives it an excellent strength. It could be installed horizontally or vertically thanks to M8 rigging fittings or fast hooking rings. It has also a pole mount socket 35 mm and one handle.

It is black vitrodur painted finish with a 1,5 mm perforated coated steel black finish.

It is recommended to be used with a VDC-1 or VDC-2 controller in order to get high dynamic and a best control over the speaker.

Specifications

(1) Frequency Response (± 3 dB)	80 Hz - 17 KHz
(2) Frequency Range (-10 dB)	55 Hz - 18,5 KHz
Recommended High Pass Filter	50 Hz 24 dB / octave Butt or Linky
(3) Nominal Beamwidth (-6 dB)	Horizontal 80° / Vertical 60° (Rotary)
Crossover Mode	2-way Pasive
Crossover Frequency	1,6 KHz
Nominal Impedance	8 ohms
Minimum Impedance	6,2 ohms @ 161 Hz
(4) Axial Sensitivity	SPL 94 dB (1W @ 1m)
Power Rating (Continuous, Program, Peak)	250 W / 500 W / 1000 W
(5) Calculated Axial Output Limit	Average 121 dB / Peak 127 dB
Components	1 x 12" Driver + 1 x 1" Neo HF driver
Voice Coil Diameter	Driver 64 mm / HF driver 44,4 mm
Enclosure	Birch board
Rigging Points	M8x4 for fly restraint plates M6x4 for bracket Vieta WB-90
Finish	Black textured
Grill	1,5 mm perforated steel, Black finish
Connectors	Neutrik Speakon NL-4 x 2
Dimensions (H x W x D)	600 x 375 x 415 mm
Net Weight	21 Kg

Measuring conditions

(1) Frequency response

This is the measured SPL as a function of frequency, from 20 Hz to 24 kHz, referenced to a distance of 1m and to a Nominal 1 W input. Environment: Anechoic

(2) Operating range

The Operating Range is intended to define the useful range of frequencies over which the loudspeaker can be used to reproduce quality sound. Industry experience has shown that if the output level at the frequency extremes of a loudspeaker is within 10 db of the flat or linear portion of the frequency response, it can be audibly significant and useful for reproduction.

(3) Nominal Beamwidth

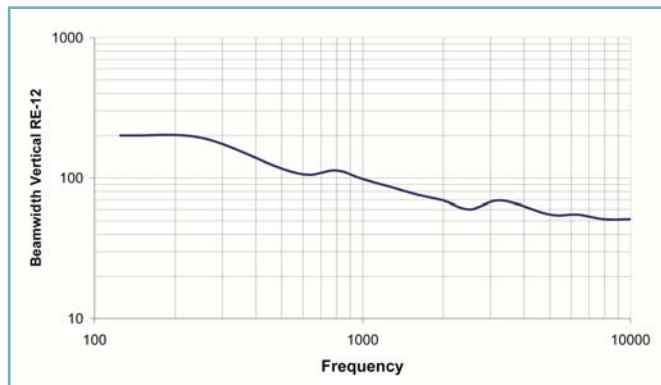
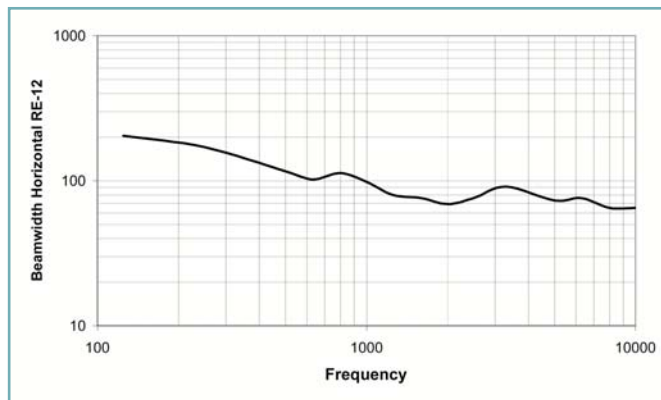
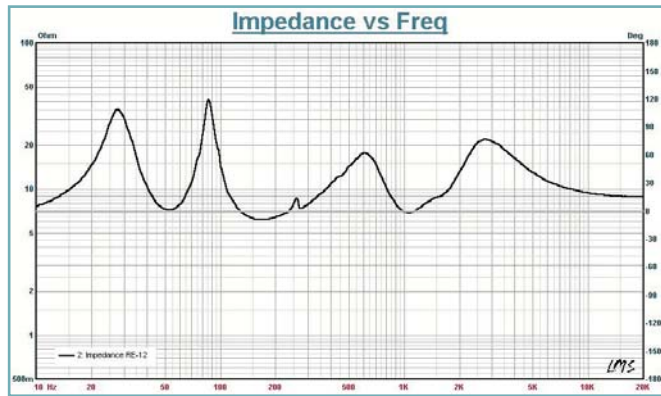
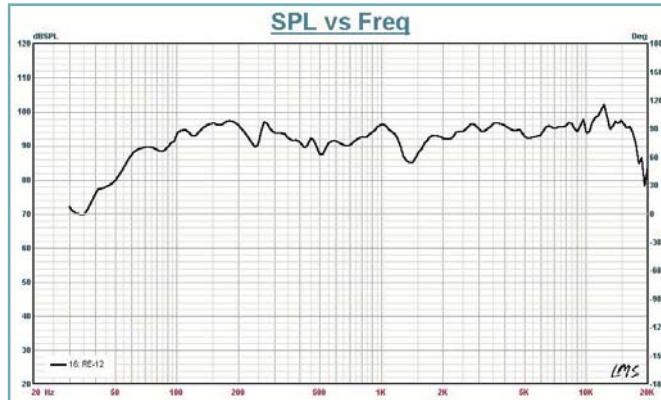
This is calculated included angle between the measured first -6 dB SPL points on each side of the loudspeaker axis, from front to rear, relative to highest SPL point for each frequency band from 100 Hz to 20 kHz, in the horizontal and vertical planes, referenced to a distance of 3 m. Environment :Anechoic.

(4) Axial sensitivity

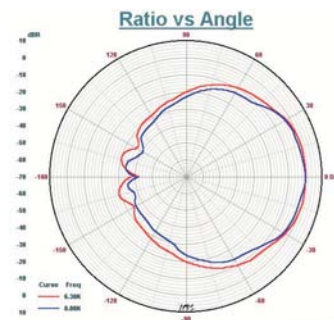
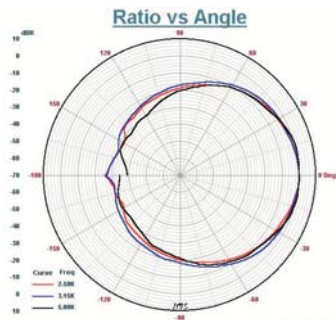
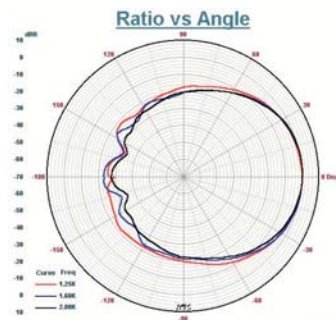
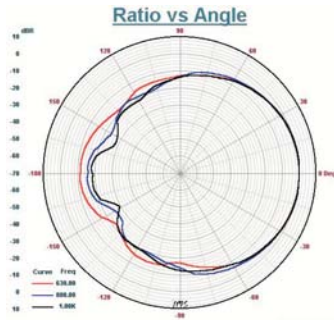
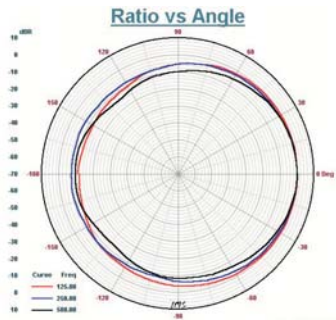
Standard audio industry measurement practice is to specify sensitivity as the SPL produced at 1m with an input level of 1 W. Environment: Anechoic for all. ½ space for subwoofers & stage monitors

(5) Calculated Axial Output Limit

This is called "Output Limit" because it is calculated as the theoretical SPL produced at the limit program power rating.
Calculate Average SPL limit: (10 log. W program + axial sensitivity)
Calculate Peak SPL limit: (average SPL limit + 6 dB)

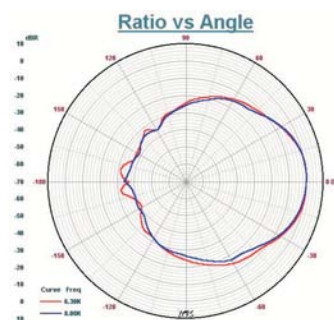
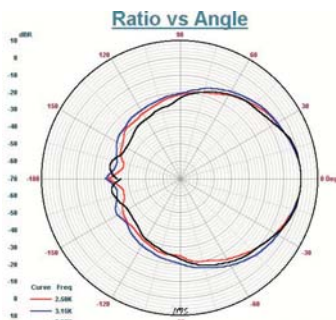
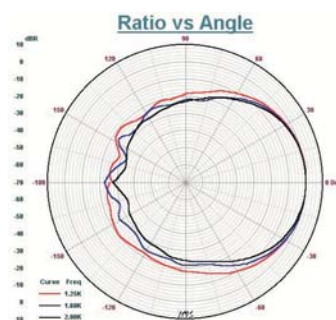
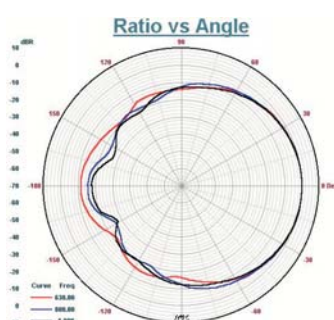
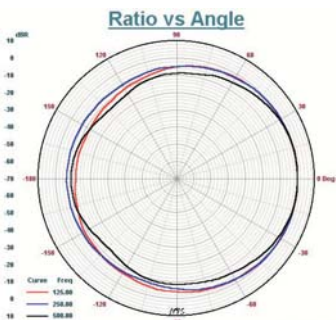


Horizontal Polar Curve



Freq	BW	Q	DI
125.00	204	1.8	2.5
250.00	171	2.1	3.2
500.00	116	3.1	4.9
630.00	102	3.5	5.5
800.00	113	3.2	5.0
1.00K	98	3.7	5.6
1.25K	80	4.5	6.5
1.60K	76	4.7	6.7
2.00K	69	5.2	7.2
2.50K	76	4.7	6.7
3.15K	91	4.0	6.0
5.00K	73	5.0	6.9
6.30K	76	4.7	6.7
8.00K	65	5.5	7.4

Vertical Polar Curve



Freq	BW	Q	DI
125.00	200	1.8	2.6
250.00	193	1.9	2.7
500.00	116	3.1	4.9
630.00	105	3.4	5.3
800.00	113	3.2	5.0
1.00K	98	3.7	5.6
1.25K	87	4.1	6.2
1.60K	76	4.7	6.7
2.00K	69	5.2	7.2
2.50K	58	6.2	7.9
3.15K	69	5.2	7.2
5.00K	55	6.6	8.2
6.30K	55	6.6	8.2
8.00K	51	7.1	8.5

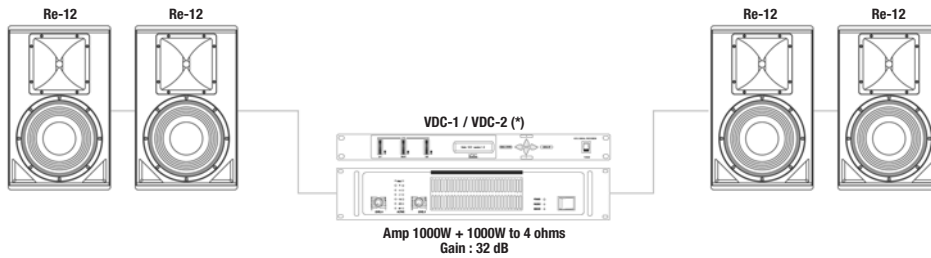
Applications

Public Address System and Background Music
 Pubs and Night Clubs
 Theaters, Auditoriums and Discotheques

Instalations

Individual rigging
 Multiple rigging
 Wall mount

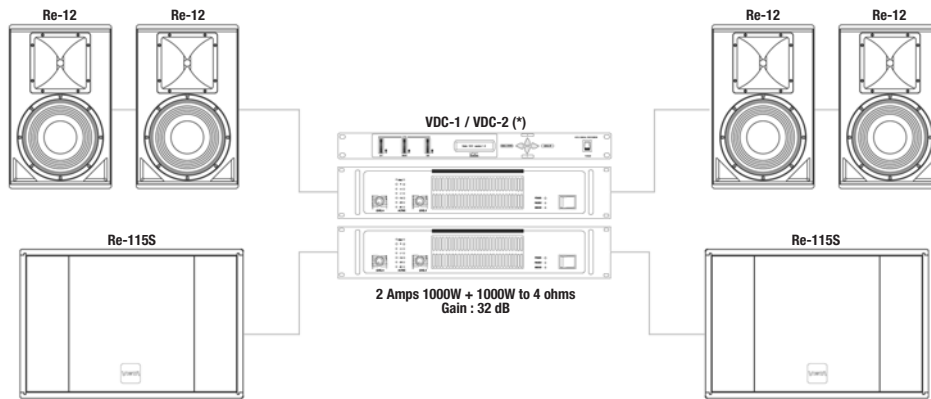
Recommended Passive Configuration num. 1



System :	Re-12 x 4	S.P.L. Max / Peak :	129 dB / 135 dB
Recommended Amp :	Min. 600W / Max.1000W	Frequency Response :	55 Hz - 19 Khz
Controller :	VDC-2 memory 23	Power RMS :	2000W
Controller :	VDC-2 setup Re-12		

(*) **OPTIONAL** : Vieta recommends the use of the VDC-1or VDC-2 processor in order to optimize your frequency and dynamic response and thus to control the maximum power application for the system.

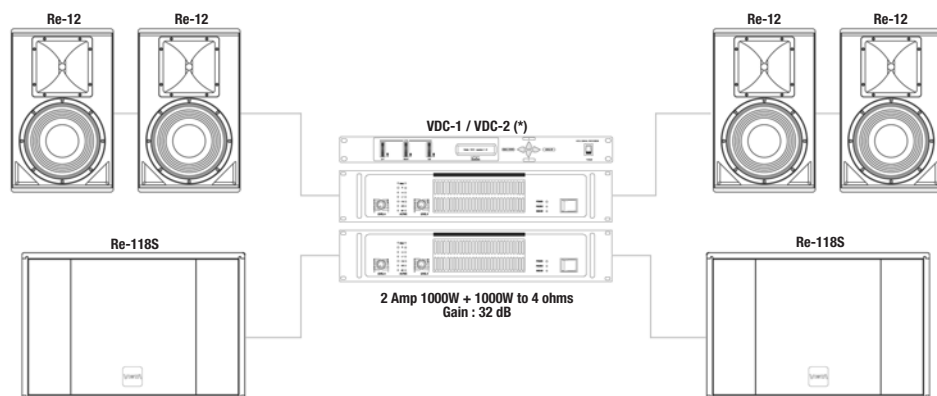
Recommended Active Configuration num. 2



System :	Re-12 x 4 + Re-115S x 2	S.P.L. Max / Peak :	131 dB / 137 dB
Recommended Amp :	Min. 600W / Max.1000W	Frequency Response :	35 Hz - 19 Khz
Controller :	VDC-2 memory 24	Power RMS :	3200W
Controller :	VDC-2 setup Re-12 + Re-115S		

(*) **OPTIONAL** : Vieta recommends the use of the VDC-1or VDC-2 processor in order to optimize your frequency and dynamic response and thus to control the maximum power application for the system.

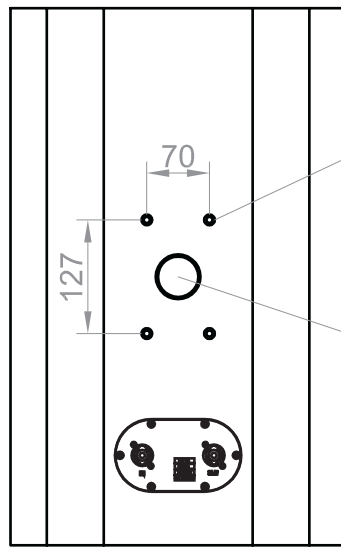
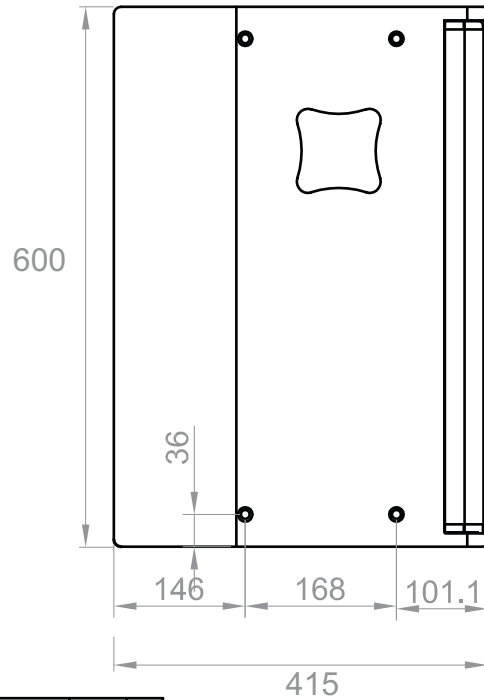
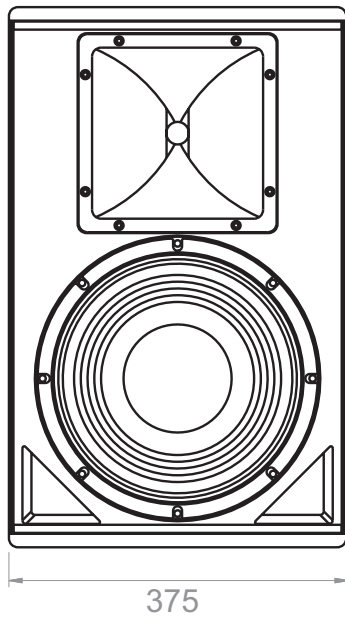
■ Recommended Active Configuration num. 3



System :	Re-12 x 4 + Re-118S x 2	S.P.L. Max / Peak :	131 dB / 137 dB
Recommended Amp :	Min. 600W / Max.1000W	Frequency Response :	30 Hz - 19 Khz
Controller :	VDC-2 memory 25	Power RMS :	3200W
Controller :	VDC-2 setup Re-12 + Re-118S		

(*) **OPTIONAL** : Vieta recommends the use of the VDC-1or VDC-2 processor in order to optimize your frequency and dynamic response and thus to control the maximum power application for the system.

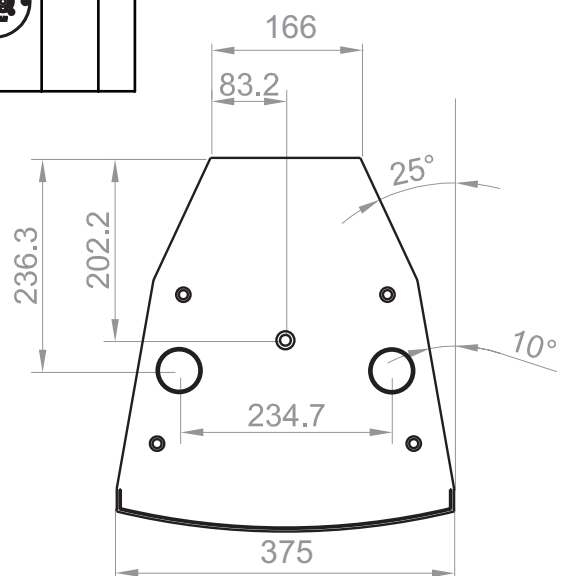
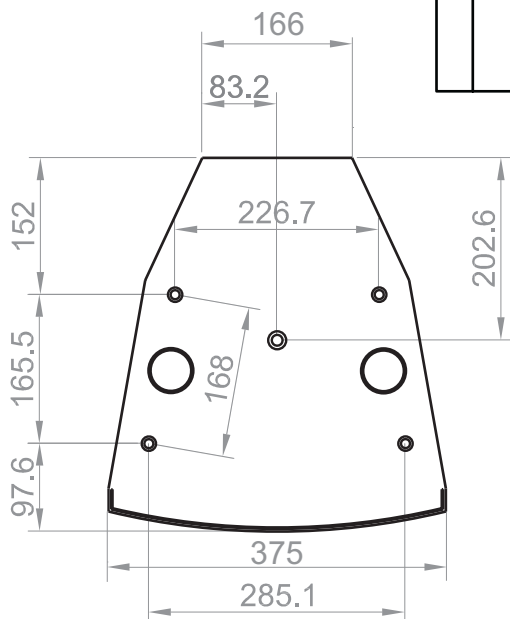
■ Dimensions in mm

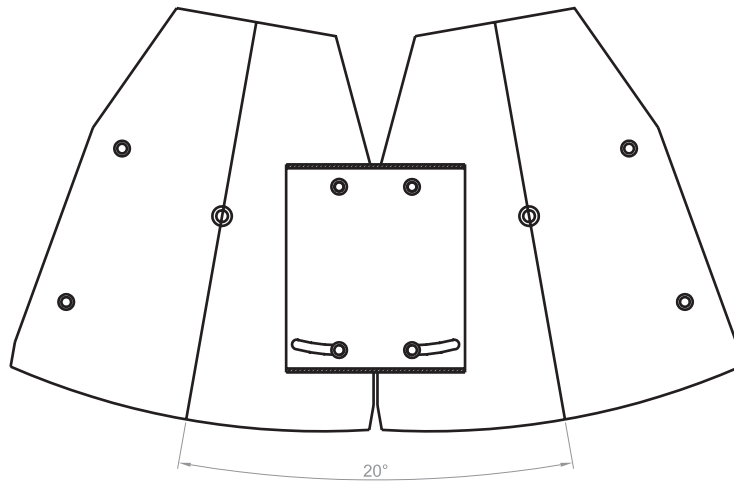


Tornillos M6

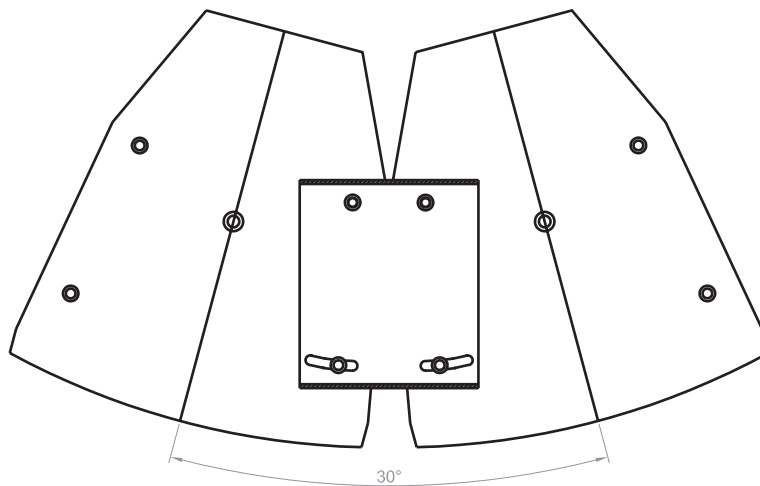
Omimount series 60 27 Kg.
Vieta WB-90

Base y anilla de enganche rapido ó
Cancamo cerrado de M8

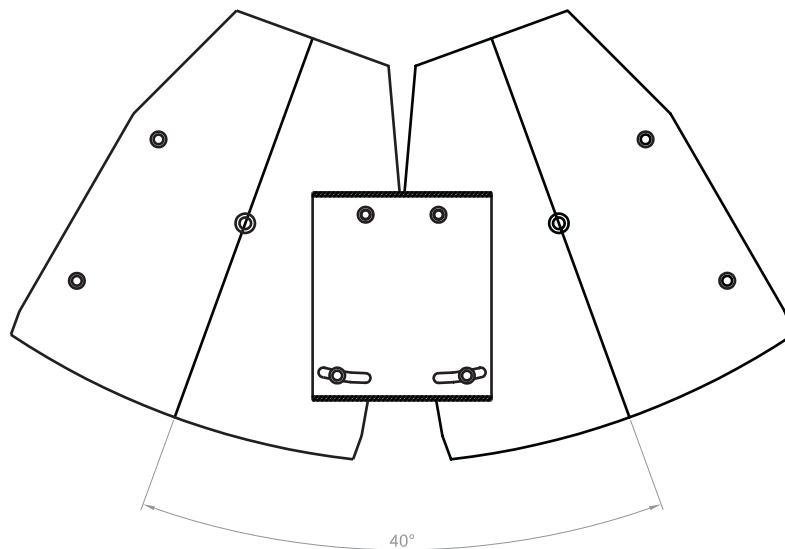




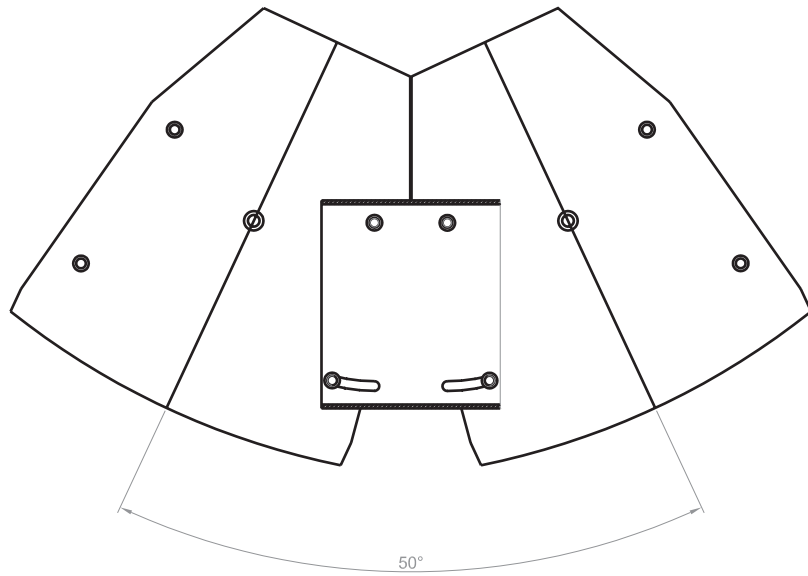
CB-120
80° dispersion



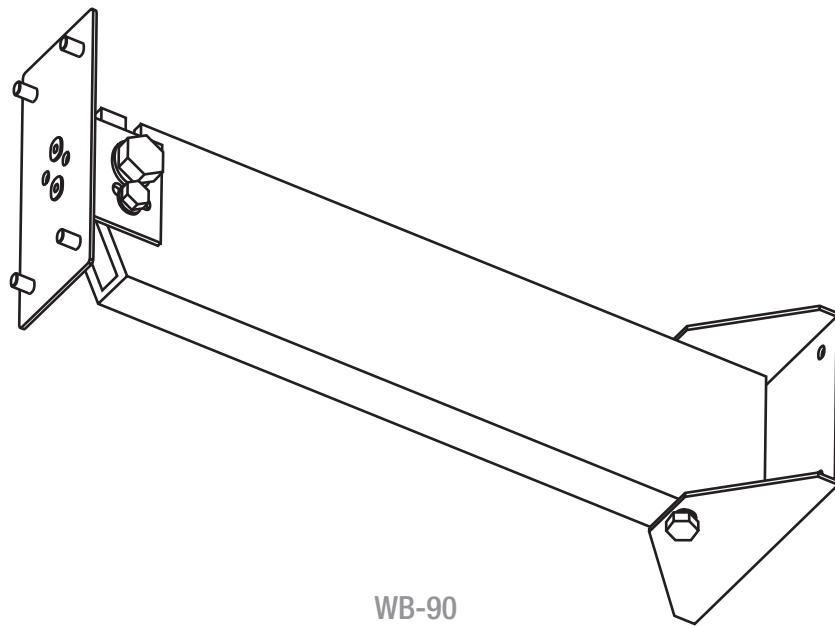
CB-120
90° dispersión



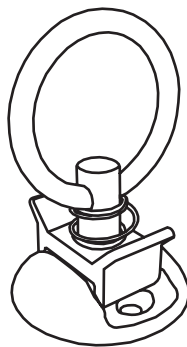
CB-120
100° dispersión



CB-120
110° dispersión



WB-90



FLY RESTRAINT PLATES
(Optional)