EMISON acoustique

# LINEFLEX Série15

**This series is the result of many years of research, solving various problems bound to the acoustic coupling of the surround wall sound systems.**

The reserved technical solutions are purely acoustic and allow it to realize a coupling without any creation of interference. The use of such a concept offers flexibility and maximum efficiency.

The **LINEFLEX 15** system consists of 3 different modules:

**Basic module**: from 1 to 20 units, suspended in column (assembly of type line array)
**Module of nearness**: cover the zone of nearness, only one module suspended under the last basic module is necessary.
**Sub**: is useful as additional grave in the frequency band 30-60Hz.
Can be integrated into the column (dimensions identical to the basic module)

## NEW CONCEPT CONCERT

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# *LINEFLEX series 15*

The concept LINEFLEX série15 benefits from several important innovations both at the acoustic level and at the ergonomics level.

## The **PMT** technology or multi-detached flag transducers

This configuration allows obtaining a coaxial source with controlled horizontal and vertical dispersal.

### What advantages in practice?

The constant horizontal directivity from 150 to 18 kHz:

-Increase of the directivity and the efficiency of the frequencies 150-1000Hz –
-Bandwidth homogeny on a wide zone (90 °)
-Facilitated by horizontal coupling of several columns with a minimum of interferences bas medium, and an optimal cover in height-medium.

The greater vertical directivity from 150 to 1000 Hz:

-The use of columns of a reduced height will preserve an impact, the same as being a great distance away.
-Distance of comprehensibility widely increased with regard to a column of the same height without PMT.

## The system of acoustic coupling **PRC**

This principle of time distribution constantly respects the phase of the harmonics, and insures an acoustic coupling close to the theoretical maximum of 1 kHz in 18 kHz. -

### What advantages in practice?

-Natural restoration of the sound image
-No comb effect
-Normal shortening of the acoustic pressure according to the distance (no limit of reach)

## The module of nearness **PROXI** 15

Placed under the last LINEFLEX base15, he assures a double function:

-Its acoustic characteristics are optimized to maintain the balance of the bandwidth in the zone of nearness which is not totally covered by the base15.
-System stand 2x6U into which can be integrated the development and the remote management of all the column (up to 16 modules base15)

### What advantages in practice?

-Easy installation and regulation
-General aesthetics always kept on the column
-Easy exploitation and maintenance (real-time control of the impedances, temperatures of loudspeakers, etc…)
-Flexibility with in the various choices of the power electronics.

# LINEFLEX series 15

**LF sub 15**

**LF base 15**

**LF proxi 15**

## LF base 15

Modulates wide band 3 way 60°
typy PMT*
LxHxW 110x44x62 cms
weight 70 kg

LF:2x15" neodymium drivers 65-200Hz 2x1000W AES/8ohms 100dB/1W/1m
MF:2x8"drivers200-1100Hz 500W AES/4ohms 106dB/1W/1m horizontal directivity-6dB in 60°
HF:3xPRC*0.8" neodymium 1100-18000Hz 90W AES/24 ohms 116dB/1W/1m horizontal directivity -6dB in 60°

## LF sub 15

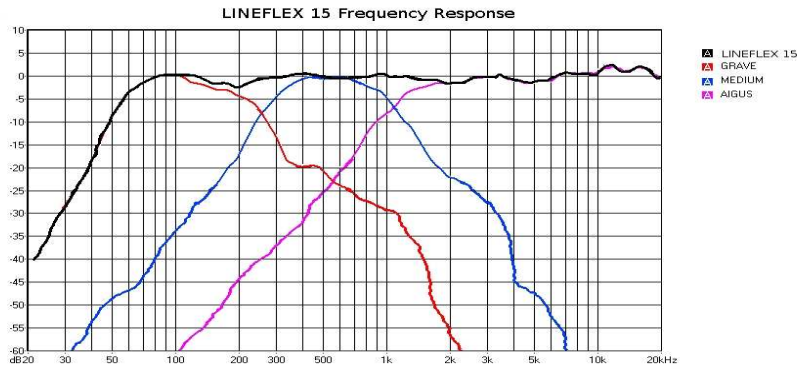
Subwoofer bass reflex
2x 15" long excursions drivers
LxHxW 110x44x62 cms
Weight 65 kg

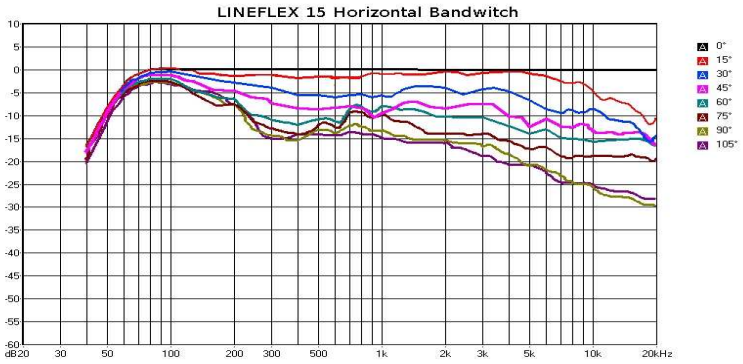
45-150Hz (27Hz in -10dB) 2400W AES/4ohms 95dB/1W/1m/40Hz

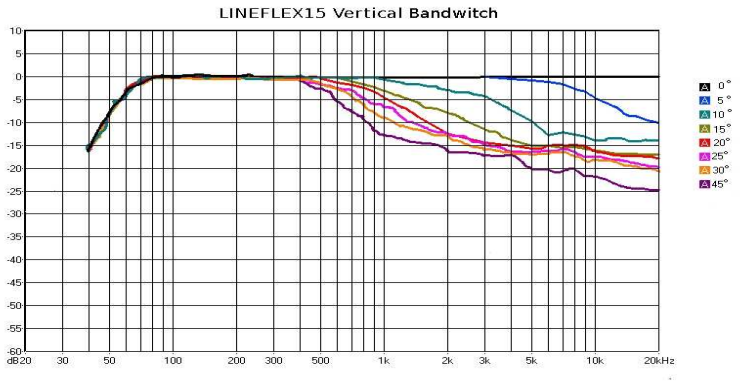
## LF proxi 15

LxHxW 110x33x62 cms
Weight 30 kg (without amplis)

Bandwitch compensation under column and system stand 2x6U for amplifiers

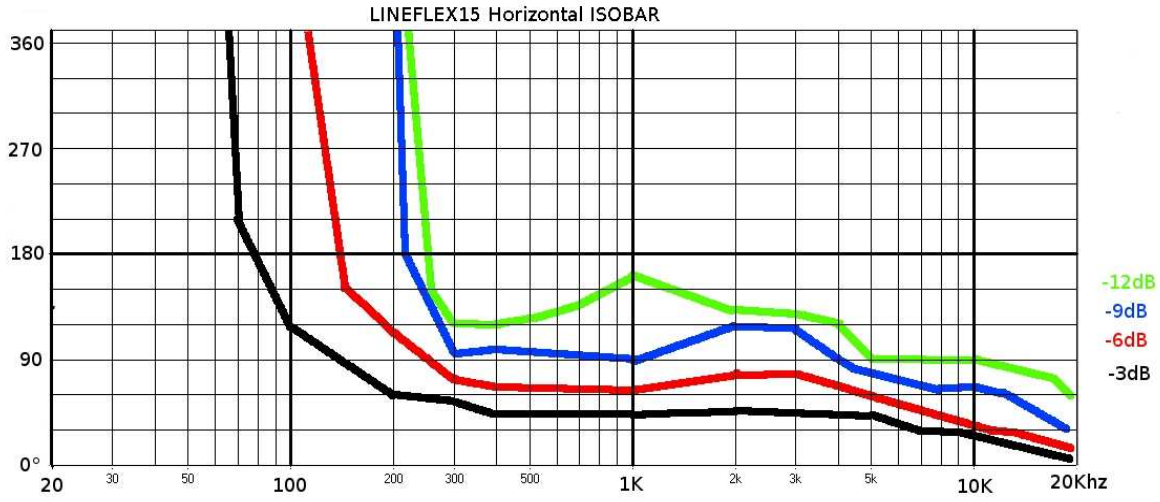


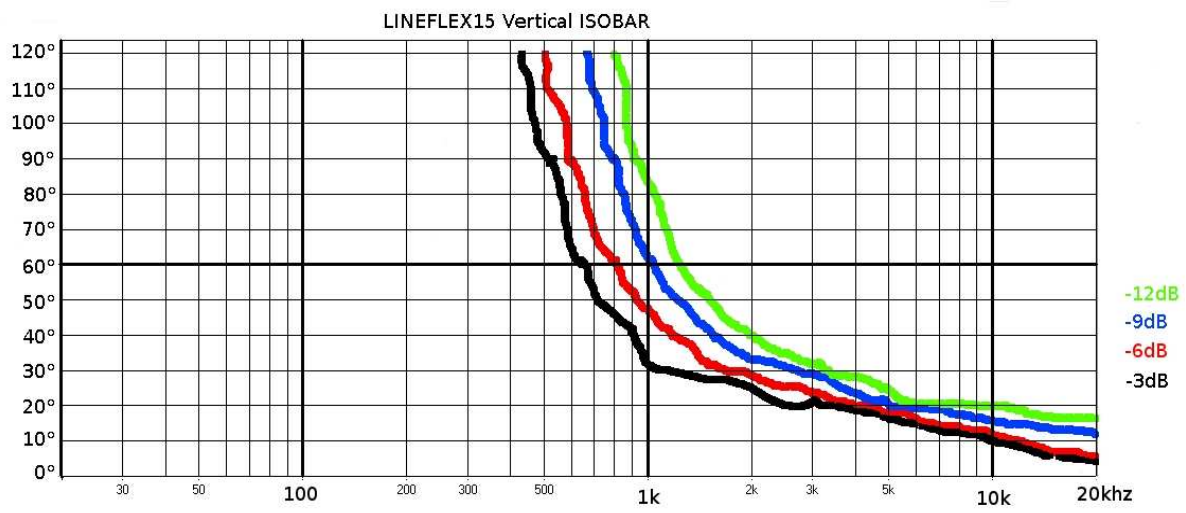




***Acoustical Measurements***

The frequency response measurement shows individual bandpass responses with composite response overlay.The horizontal and vertical bandwitch from a single box measurements are derived from data gathered with a calibrated microphone centered on axis of the box, with polar bandpass around the measurement axis.




***Acoustical Measurements***

The horizontal and vertical beamwidth from a single box measurements are derived from data gathered with a calibrated microphone centered on axis of the box, with data points taken symetrically around the measurement axis.