DU 60EN

UNIVERSAL WALL AND CEILING STEEL SPEAKER

DESCRIPTION

DU 60EN is a universal speaker designed for wall and ceiling installation. It is especially suitable for broadcasting alarm messages thanks to the highly intelligible sound reproduction and its resistance to high temperatures reached during fires. The terminal connection blocks, for input and output flameproof cables, are made of ceramic material. A thermal fuse protects the integrity of the line in case of heat affecting the speaker. Ground screw available (if needed). Cables inside speaker made using flameproof leads.

FEATURES

- 5" fullrange transducer.
- Power selectable (100 V): 6 W – 3 W – 1.5 W – 0.75 W.
- 94 dB sensitivity.
- Colour white RAL 9016.
- Steel body and grille.
- In/out ceramic terminal block.
- Thermal fuse protection.

TECHNICAL SPECIFICATIONS

Acoustical specifications	Frequency Response (-10dB):	100 Hz ÷ 20000 Hz
	Max SPL @ 1m:	100 dB
	Max SPL @ 4m:	88 dB
	Coverage angle:	180°
	System Sensitivity:	94 dB
	System Sensitivity 1W @ 4m:	82 dB
Power section	Power Handling:	6 W
	Peak Power Handling:	24 W PEAK
	Protections:	Thermal fuse
	Recommended Amplifiers:	DXT 3000, DXT 4000, DXT 7000
Transducers	Fullrange:	5.0"
Input/Output section	Input connectors:	Ceramic screw terminals
	Output connectors:	Ceramic screw terminals
	Constant Voltage Transformer:	100 V
	Power selection 1:	6 W - 1667 ohm
	Power selection 2:	3 W - 3333 ohm
	Power selection 3:	1.5 W - 6667 ohm
	Power selection 4:	0.75 W - 13333 ohm
Standard compliance	Safety agency:	CE compliant
	EN54-24 certified:	Yes
	CPR number:	1488-CPR-0488/W
Physical specifications	Color:	White - RAL 9016
Size	Depth:	75 mm / 2.95 inches
	Diameter:	195 mm / 7.68 inches
	Weight:	1.61 kg / 3.55 lbs
Shipping information	Package Height:	120 mm / 4.72 inches
	Package Width:	230 mm / 9.06 inches
	Package Depth:	230 mm / 9.06 inches
	Package Weight:	1.84 kg / 4.06 lbs

PART NUMBER

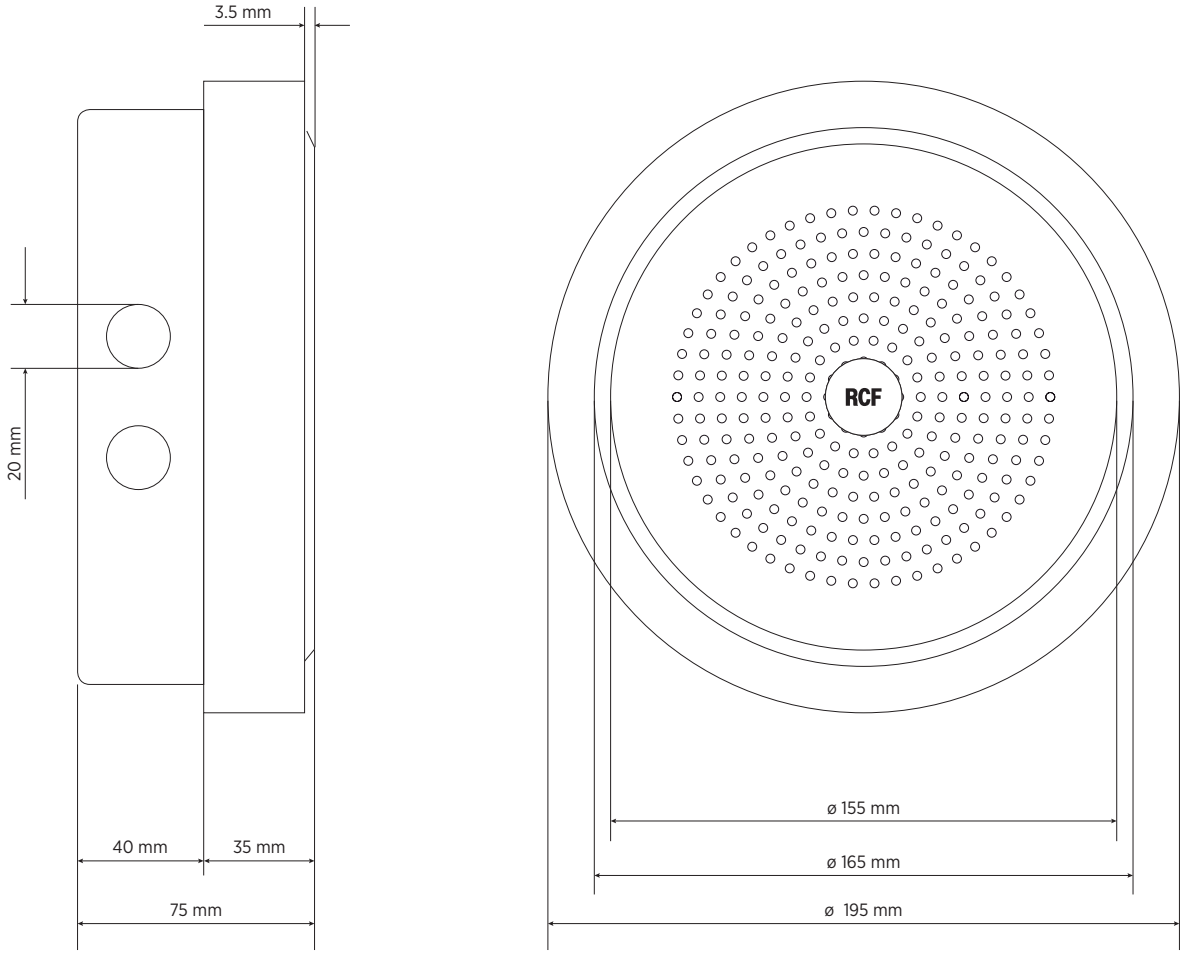
- **13133083**

  DU 60EN

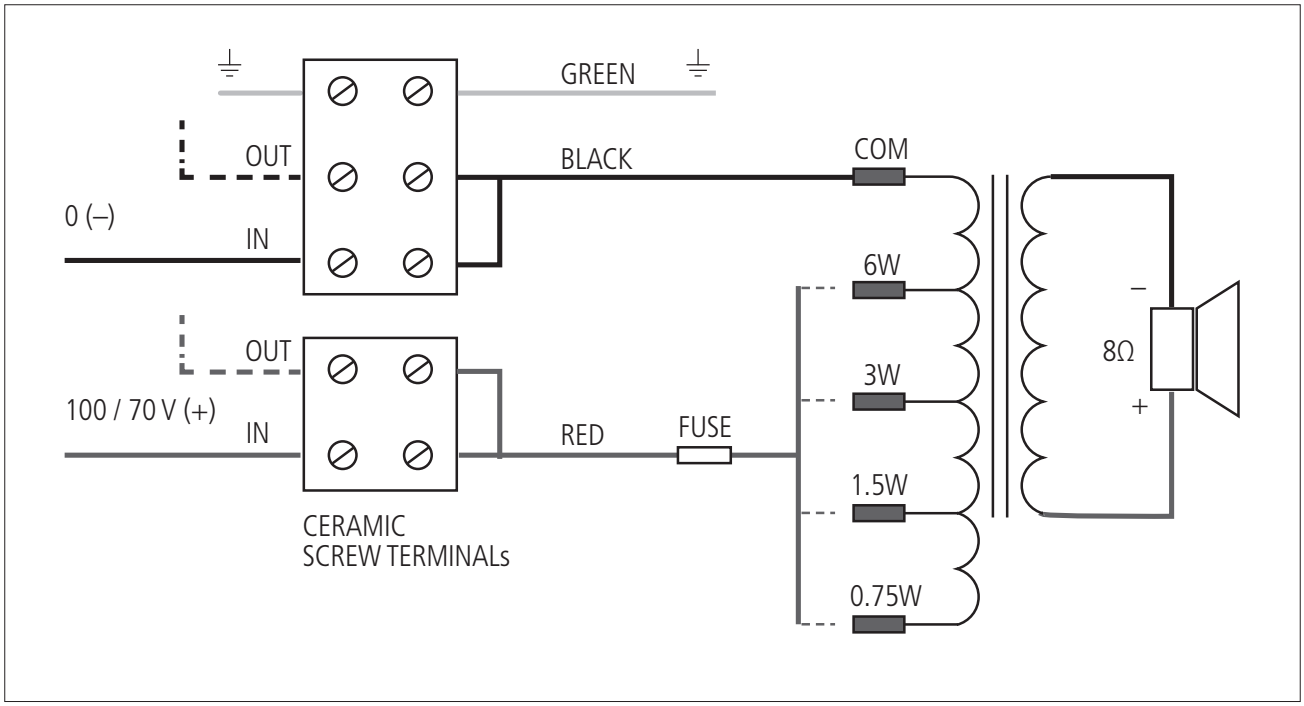
  EAN 8024530012571

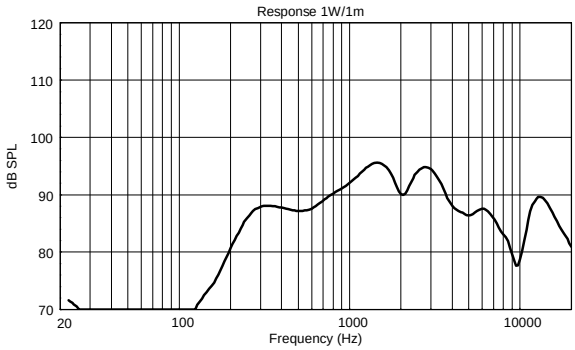
RCF products are continually improved. All specifications are therefore subject to change without notice.

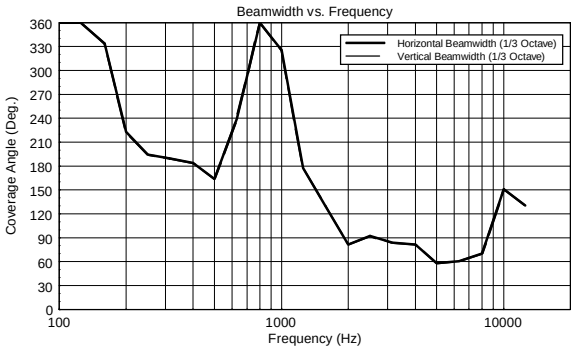
DRAWINGS

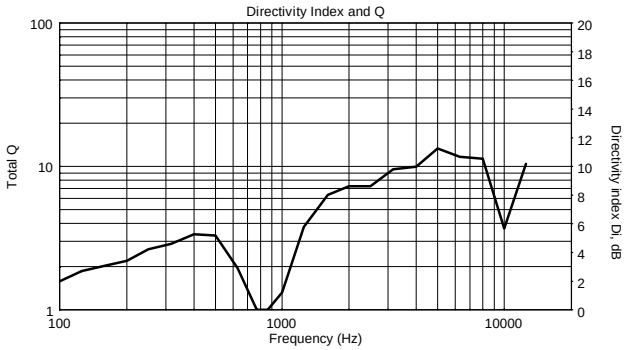


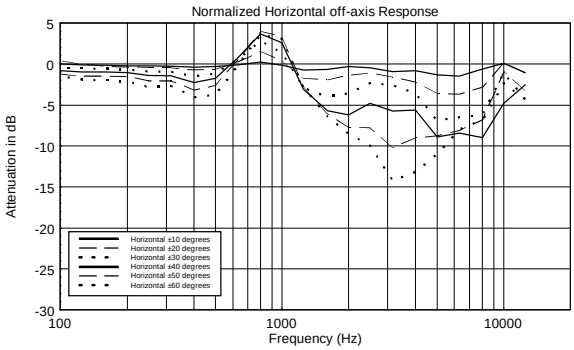
SCHEMATICS

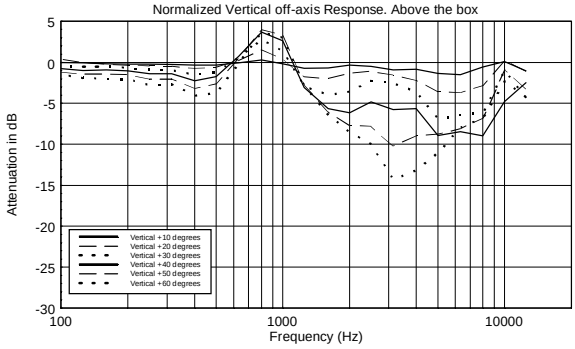

GREEN
OUT
BLACK
COM
0 (–)
IN
6W
OUT
8Ω
3W
100 / 70 V (+)
IN
RED
FUSE
1.5W
CERAMIC
SCREW TERMINALs
0.75W

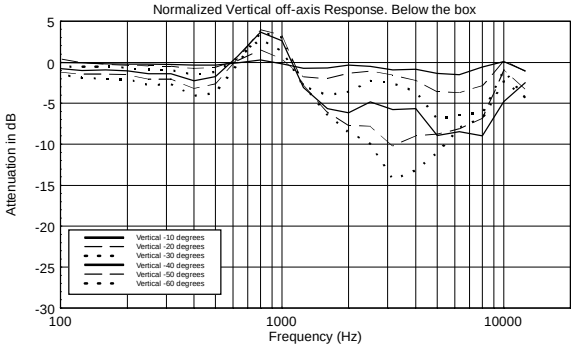

Response 1W/1m
dB SPL
120
110
100
90
80
70
20
100
1000
10000
Frequency (Hz)

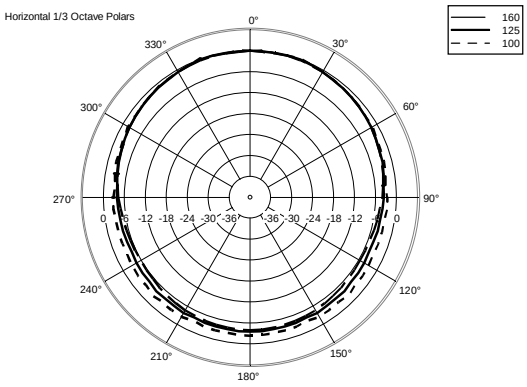

Beamwidth vs. Frequency
Coverage Angle (Deg.)
360
330
300
270
240
210
180
150
120
90
60
30
0
100
1000
10000
Frequency (Hz)
Horizontal Beamwidth (1/3 Octave)
Vertical Beamwidth (1/3 Octave)

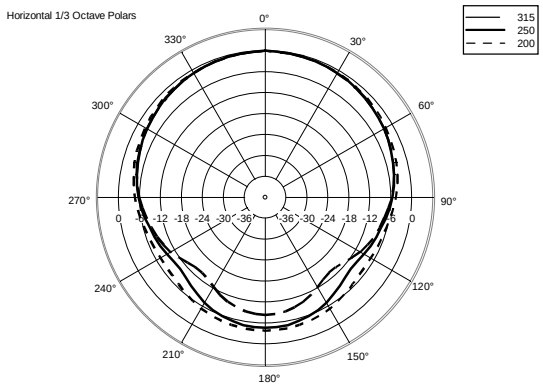

Directivity Index and Q
Total Q
Directivity index DI, dB
100
10
1
20
18
16
14
12
10
8
6
4
2
0
100
1000
10000
Frequency (Hz)

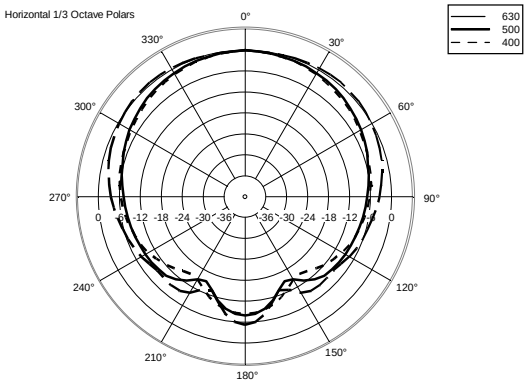

Normalized Horizontal off-axis Response
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000
Frequency (Hz)
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees

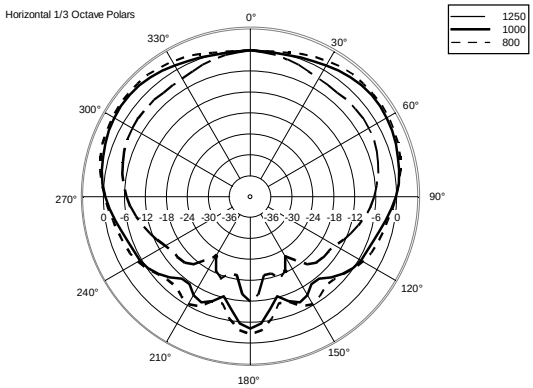

Normalized Vertical off-axis Response. Above the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000
Frequency (Hz)
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees

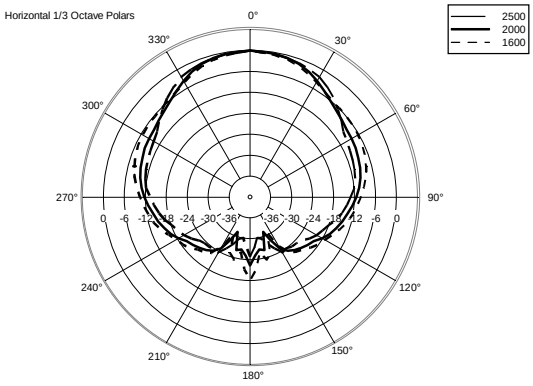

Normalized Vertical off-axis Response. Below the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000
Frequency (Hz)
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees

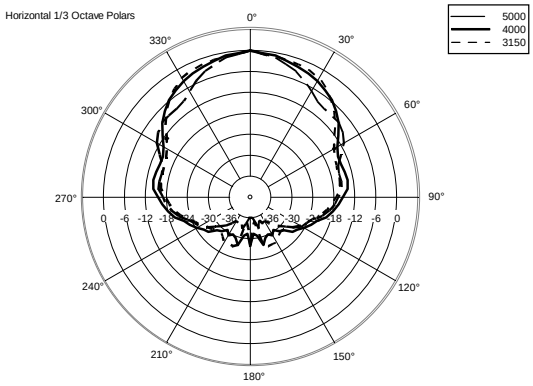

Horizontal 1/3 Octave Polars
160
125
100

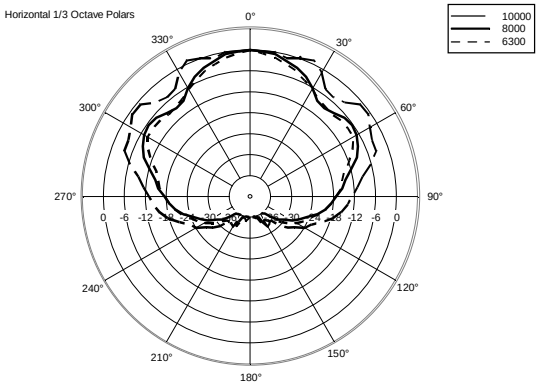

Horizontal 1/3 Octave Polars
315
250
200

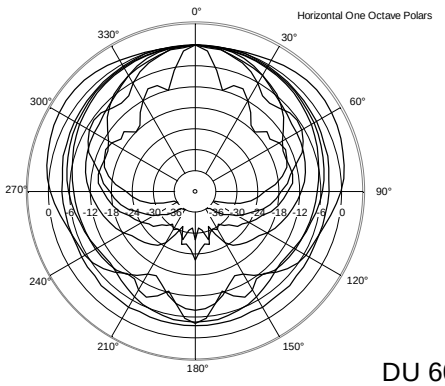

Horizontal 1/3 Octave Polars
630
500
400

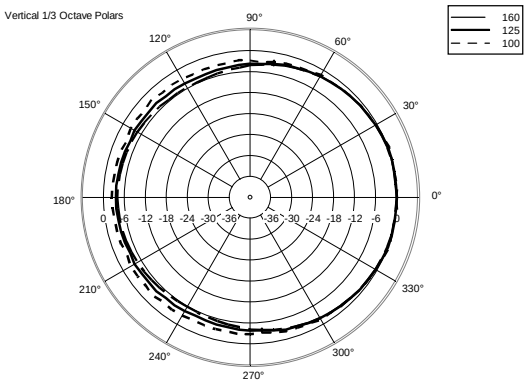

Horizontal 1/3 Octave Polars
1250
1000
800

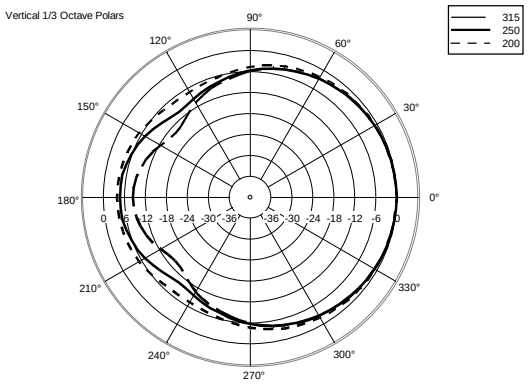

Horizontal 1/3 Octave Polars
2500
2000
1600

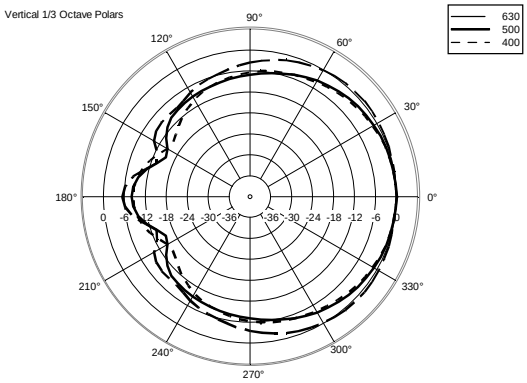

Horizontal 1/3 Octave Polars
5000
4000
3150

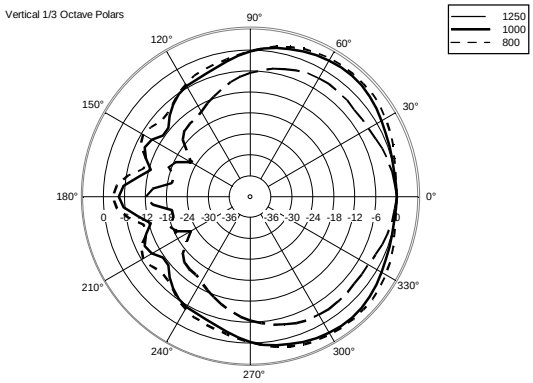

Horizontal 1/3 Octave Polars
10000
8000
6300

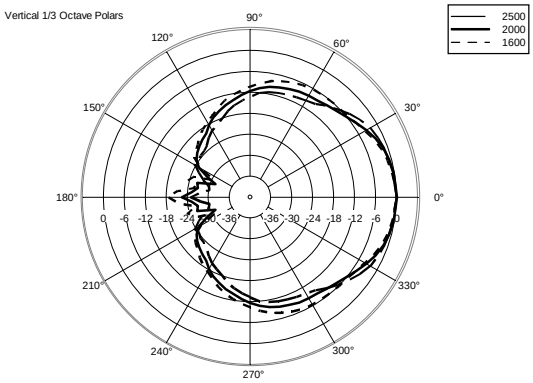

Horizontal One Octave Polars

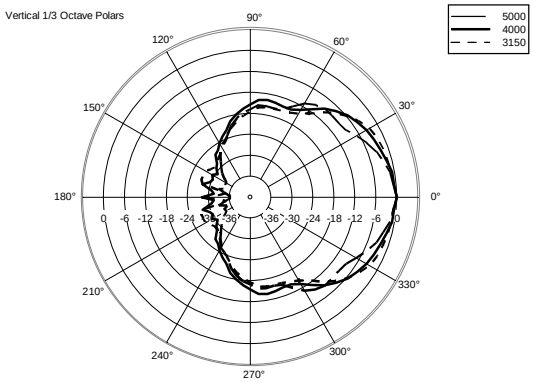

Vertical 1/3 Octave Polars
160
125
100

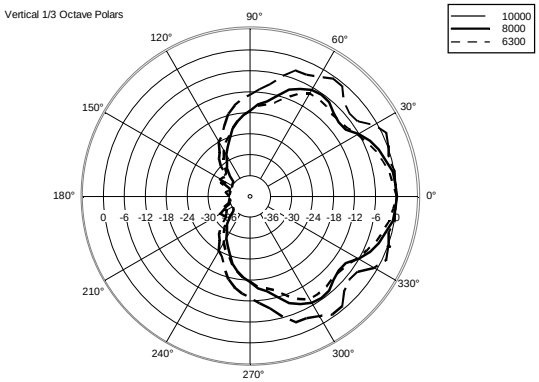

Vertical 1/3 Octave Polars
315
250
200

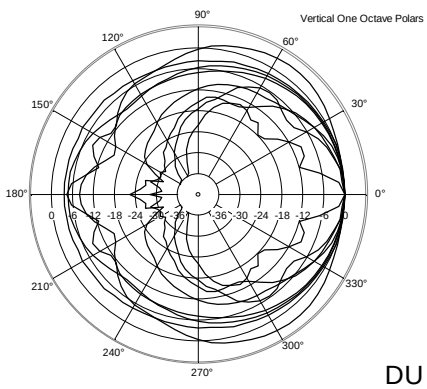

Vertical 1/3 Octave Polars
630
500
400


Vertical 1/3 Octave Polars
1250
1000
800


Vertical 1/3 Octave Polars
2500
2000
1600


Vertical 1/3 Octave Polars
5000
4000
3150


Vertical 1/3 Octave Polars
10000
8000
6300


Vertical One Octave Polars

ACCESSORIES

A&E SPECIFICATIONS

The product shall be an universal speaker designed for both wall and ceiling installation, suitable for broadcasting background music into commercial spaces, but also alarm messages, thanks to the highly intelligible voice reproduction and the EN 54-24 certification.
The terminal connection blocks, for input and output flameproof cables, shall be made of ceramic material. A thermal fuse shall protect the line integrity in case of heat affecting the speaker.

NOTES

NO CAUTION is NECESSARY in case of ALERTED PERSON for AUDIO voltages up to 120V, when warning symbols are present near the connection terminals. In the case of AUDIO voltages up to 71V, it is not even necessary to put warning symbols.
No need of linking to earth metal parts of speakers equipped with transformers and connected to 70.7 V / 100 V outputs of power amplifiers that do not have any reference to earth (ref. EN 62368-1 item 4.3.2.2), unless specific local requirements.