

# n.FORM™ – Emerald

## PRODUCT SHEET & SPECIFICATIONS

# TANDEM EMERALD CEILING PLATE AND UPWARD FIRING SPEAKER (MODEL 2XLE032- G655)



### FUNCTION

When a direct fired or indirect fired speaker is required due to site conditions or application need, this system uses a unique construction of both upward and downward facing speakers in one single unit. The n.Form system provides the highest level of sound quality and adjustability.

Emerald Technology speakers are designed to be an integrated part of Lencore n.Form engineered system solutions. Each speaker, when used with the Emerald Operating Platform (EOP), produces nearly twice the sound level of other systems.

In addition, the Emerald speakers enable sound masking to be distributed uniformly throughout a space. Typically hung above the ceiling tile or gypsum ceiling, the speakers fill the plenum with sound that gently filters into the environment below to create speech privacy.

The Emerald Speaker, designed with Emerald Technology and as part of the n.Form system:

- Can detect speaker failure within any channel
- Designed to meet voice intelligibility requirements to provide the clearest audio

Speakers used in the n.FORM™ Emerald system are configured with integrated RJ45 connections for plug and play and ease of installation. The speakers feature an aluminum housing, 5-inch wide dispersion and weigh approximately three pounds each.

There are two speaker models available (6" & 4") to accommodate various plenum depths. Speakers distribute sound masking, paging and/or music.

Speakers are UL Listed for use in air handling spaces.

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Model

**2XLE032  
-G655**

## TANDEM EMERALD CEILING PLATE AND UPWARD FIRING SPEAKER

### - SPEAKER ENCLOSURE

- + Aluminum Housing
- + Galvanized Perforated Grill
- + Lightweight Mounting Chain
- + Two speaker models available – 6" & 4"

### - SPEAKER MODEL DIMENSIONS

Height – 6"	Height – 4"
Diameter – 6"	Diameter – 6"
Weight – 3lbs	Weight – 3lbs

### - LOUDSPEAKER

- + (2) 5-inch - wide dispersion upward & downward
- + Power Rating – 10 watts RMS
- + Frequency Response – 85–13,000 Hz
- + Impedance – 32 Ohms
- + Resonance – 85 Hz
- + Magnet Weight – 10 oz
- + Magnet Structure Weight – 26 oz
- + Cone – Formed Fiber
- + Cone Suspension – High Compliance Foam
- + Voice Coil – 1-inch diameter
- + Voice Coil Form – Anodized Aluminum

### - PAGING INPUT

- + Via OP and MPI

### - POWER REQUIREMENT

- + Powered by OP

### - OUTPUT ADJUSTMENT

- + N/A

### - WIRE REQUIREMENTS

- + All wire must be plenum rated and UL listed
- + Speakers use Cat 5e or equivalent, 4 twisted pair and RJ45 connectors
- + Straight cable – Pin 1 to Pin 1, Pin 2 to Pin 2, etc

### - OTHER SYSTEM WIRE REQUIREMENTS

- + 16 gauge, plenum rated, stranded, 2-conductor wire  
(for power supply to OP)

### - AGENCY LISTINGS (PENDING)

- + UL 2043: Approved for use in air handling spaces. US and Canada.
- + UL 6500 or ANSI/UL 60065: Approved for use as audio/video equipment. US & Canada.
- + UL 1480: Approved for use as speakers for use in fire alarm, emergency, and commercial and professional use. US and Canada.