

Lay-in Tile Packaged Speaker System (music / paging, 8" speaker)

Description:

The LT-series speaker assembly provides easy installation in suspended tile ceilings. A selection of speakers, transformers and backboxes provides various performance levels for music or commercial paging in restaurants, lobbies, stores and similar venues. The LT is shipped ready-to-install and does not require speaker cut-outs in ceiling tile. **1'x2' Assembly:** is supported by the T-Bar grid and includes an integral T-Bar support (US patent no's. 7,120,269; D467,579 and 7,643,647) for fast installation when replacing half of a non-regular 2'x2' ceiling tile or one-fourth of a non-regular 2'x4' ceiling tile. Includes speaker assembly (optional transformer) mounted to 1'x2' subplate with fine-perforation pattern grille, integral T-Bar, and optional backbox. **2'x2' Assembly:** replaces a standard 2'x2' ceiling tile and is supported by the T-bar grid. Includes factory-wired speaker (optional transformer) mounted to 2'x2' subplate with fine-perforation pattern grille and optional backbox.

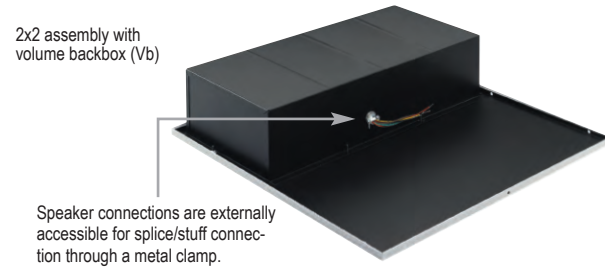
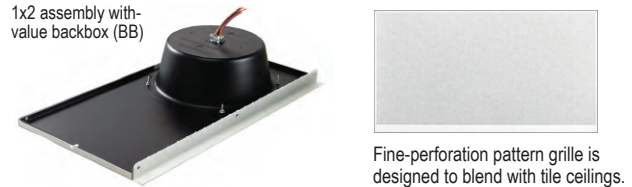
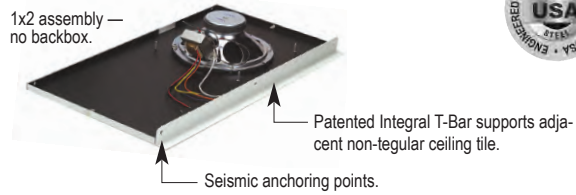
Features:

- Speaker: 3 options.
 - 805: 12W dual cone speaker with 5 oz. magnet, for background music and commercial paging.
 - 810: 15W dual cone speaker with 10 oz. magnet, for background music and commercial paging.
 - CT830: 20W coaxial speaker with 10 oz. LF and 2.1 oz. HF magnets, for background music and commercial paging or for musical performance applications when used with a backbox.
- Transformer: optional transformer available in three models:
 - TLM572: 70/25V transformer with taps at 0.25, 0.5, 1, 2, 5 W
 - TLM870: 70V transformer with taps at 1, 2, 4, 8 W
 - TLM1670A: 70V transformer with taps at 4, 8, 16 W
- Grille: fine-perforation pattern grille, designed to provide maximum free-air space for excellent sound transmission. The 1'x2' grille includes an integral two-foot T-bar to support neighboring non-regular tile. The 2'x2' grille replaces a single 2'x2' tile. White powder epoxy finish.
- Backbox: 3 options:
 - No backbox: for infinite baffle applications.
 - Value backbox (BB): 0.147 cu.ft. backbox protects speaker assembly. Black powder epoxy finish. Speaker leads exit through a metal clamp for fast connection. (Splice connecting wires, push them inside the enclosure and tighten the clamp.)
 - Volume backbox (Vb): 0.8 cu.ft. backbox with acoustic lining enhances audio performance. Black powder epoxy finish. Speaker leads exit through a metal clamp for fast connection. (Splice connecting wires, push them inside the enclosure and tighten the clamp.)

A&E Specifications:

The speaker system for suspended tile ceilings shall be Lowell LT-series Model _____ (1'x2' or 2'x2'). The 1'x2' system shall replace half of a non-regular 2'x2' ceiling tile or one-fourth of a non-regular 2'x4' ceiling tile and shall include an integral T-Bar to support the adjacent non-regular tile. The 2'x2' system shall directly replace a 2'x2' tile. Each system shall include a factory-mounted speaker mounted to a subplate with a fine perforation pattern steel grille finished in white powder epoxy. The speaker shall be 8" with a power rating of _____. It shall have a magnet weight of _____, frequency response of _____ and a sensitivity of _____ measured 1W/1M.

(Optional: System shall include a factory-mounted steel backbox with a volume of _____ and finished in black powder epoxy. System shall include a _____ W transformer with primary taps at _____.)



Model No.	Description	Speaker	Transformer	Taps	Backbox	Grille
LT-805-BB	1x2 LT Speaker System	805 (12W)	-----	-----	8XD4 (0.147 cu.ft.)	White
LT-805-72-BB	1x2 LT Speaker System	805 (12W)	TLM572	0.25, 0.5, 1, 2, 5 W (70/25)	8XD4 (0.147 cu.ft.)	White
LT-810	1x2 LT Speaker System	810 (15W)	-----	-----	-----	White
LT-810-BB	1x2 LT Speaker System	810 (15W)	-----	-----	8XD4 (0.147 cu.ft.)	White
LT-810-72	1x2 LT Speaker System	810 (15W)	TLM572	0.25, 0.5, 1, 2, 5 W (70/25)	-----	White
LT-810-72-BB	1x2 LT Speaker System	810 (15W)	TLM572	0.25, 0.5, 1, 2, 5 W (70/25)	8XD4 (0.147 cu.ft.)	White
LT-830-BB	1x2 LT Speaker System	CT830 (20W)	-----	-----	8XD4 (0.147 cu.ft.)	White
LT-830-870	1x2 LT Speaker System	CT830 (20W)	TLM870	1, 2, 4, 8 W (70V)	-----	White
LT-830-870-BB	1x2 LT Speaker System	CT830 (20W)	TLM870	1, 2, 4, 8 W (70V)	8XD4 (0.147 cu.ft.)	White
LT2-810-BB	2x2 LT Speaker System	810 (15W)	-----	-----	8XD4 (0.147 cu.ft.)	White
LT2-810-72BB	2x2 LT Speaker System	810 (15W)	TLM572	0.25, 0.5, 1, 2, 5 W (70/25)	8XD4 (0.147 cu.ft.)	White
LT2-830-T870-Vb	2x2 LT Speaker System	CT830 (20W)	TLM870	1, 2, 4, 8 W (70V)	Vb (0.8 cu.ft.)	White
LT2-830-TM16-Vb	2x2 LT Speaker System	CT830 (20W)	TLM1670A	4, 8, 16 W (70V)	Vb (0.8 cu.ft.)	White

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(rev. 12.07.10)
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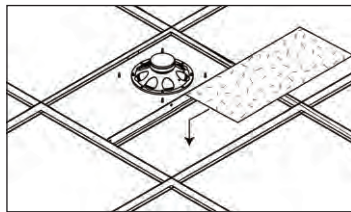
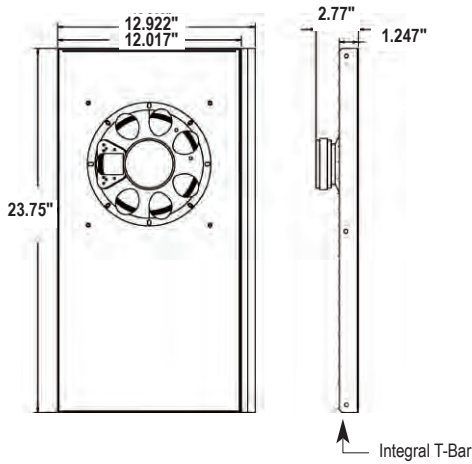
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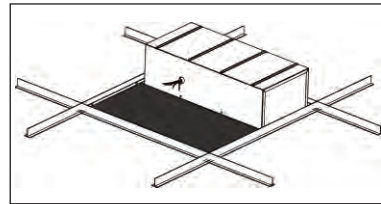
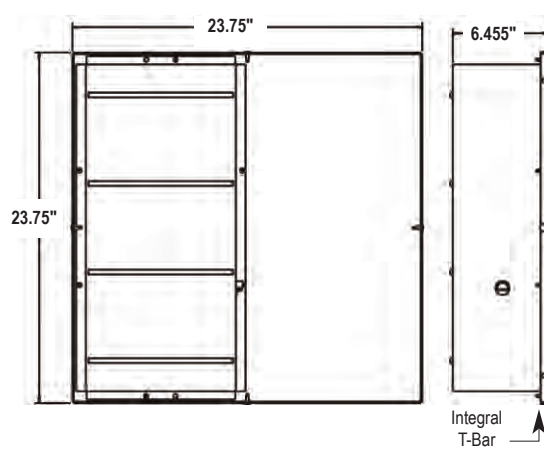
The LT system includes provisions to wire-tie the assembly to the building structure where required by code.

No Backbox 1x2 Assembly:



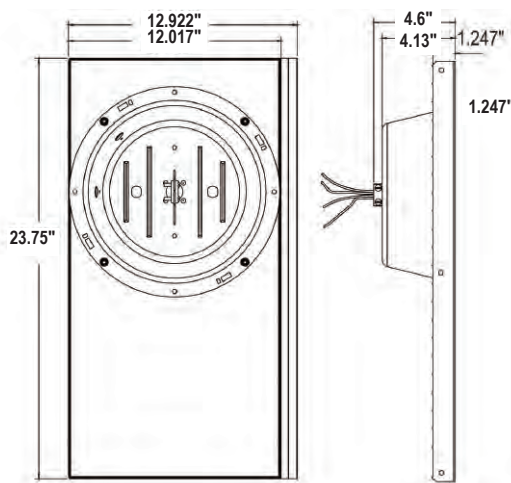
1'x2' installation: Replaces half of a non-regular 2'x2' tile. Integral T-Bar supports non-regular tile that was cut.

Volume Backbox (Vb) 2x2 Assembly:

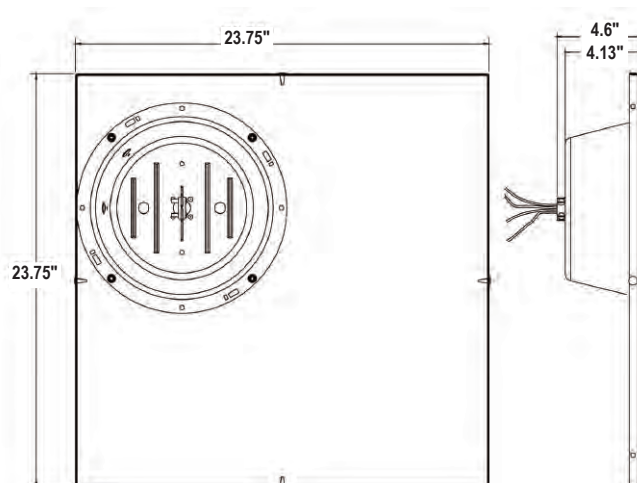


2'x2' installation: Replaces 2' x 2' tile. Backbox is offset for positioning around plenum obstructions.

Value Backbox (BB) 1x2 Assembly:



Value Backbox (BB) 2x2 Assembly:



Speaker Specs (measured half space)												
Speaker Model No.	Size	Power Rating	Type	Ceramic Magnet	Frequency Response	Dispersion (octave avg.)	Voice Coil Impedance	Voice Coil Diameter	Sensitivity 1W / 1M	Max SPL*	Depth (w/o xfmr)	Weight (w/o xfmr)
805	8"	12W	Dual Cone	5 oz.	47Hz - 20kHz +6dB	120° @ 2000Hz -6dB	8 Ohms	1"	93dB Avg	104dB	2.68"	1.3 lbs.
810	8"	15W	Dual Cone	10 oz.	47Hz - 20kHz +6dB	120° @ 2000Hz -6dB	8 Ohms	1"	95dB Avg	107dB	2.84"	2.0 lbs
CT830	8"	20W	Coaxial	10 oz. LF 2.1 oz. HF	50Hz - 17.5kHz +6dB 50Hz - 19kHz Nominal	85° @ 2000Hz -6dB	8 Ohms	1" LF 0.57" HF	96dB Avg 109dB	109dB	3.0"	2.4 lbs.

*Calculated value 1M @ speaker maximum power. Complete information including frequency and polar data is available on the speaker spec sheet.