

Lay-in Tile Packaged Speaker System (music / paging / soundmasking)

Description:

The LT speaker assembly is easy to install and provides an unobtrusive appearance in suspended ceilings. System includes two speakers — a paging speaker fires down for clear voice transmission; a masking speaker fires up to shape background sound levels for improved privacy/productivity in open environments with drop ceilings. The LT system is shipped ready-to-install and doesn't require speaker cut-outs in ceiling tile. **The 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; 7,643,647 and 6,950,526) 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. System includes two speakers, two transformers (mounted to 1'x2' subplate with fine-perforation grille), integral T-Bar, and backbox. Optional volume adjustment control available for the masking speaker only. **The 2'x2' Assembly:** is designed to replace a standard 2'x2' ceiling tile and is supported by the T-bar grid. The system includes a two speakers, two transformers mounted to a 2'x2' subplate with a fine-perforation pattern grille and backbox. Optional volume adjustment control available for the masking speaker only.

Features:

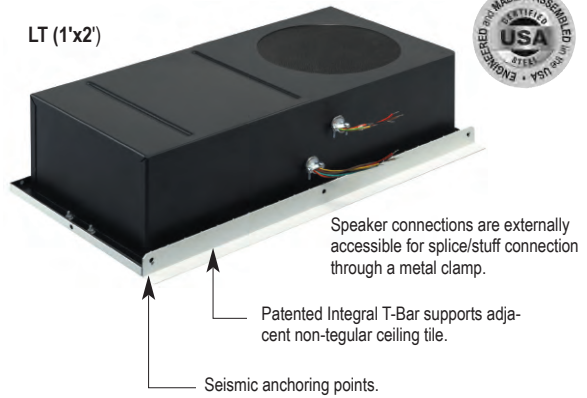
- (2) 15W dual-cone speakers (one fires up, one fires down).
- (2) modified TLM572 transformers (only 70V leads available)
- (1) black steel backbox—23.75"L x 10.5"W x 6"H partitioned to provide 700 cu.in. volume for each speaker and lined with 1.5" thick fiberglass.
- (1) white grille—fine-perforation pattern designed to provide maximum free-air space for excellent sound transmission, while maintaining an unobtrusive appearance in new or existing tile ceilings (1'x2' grille includes integral 2-ft. T-bar to support neighboring non-regular ceiling tile; 2'x2' grille replaces single 2'x2' ceiling tile).

Optional:

- **Volume Adjustment Control:** useful near bleed-through areas like air returns or light fixtures. Two options:
 - Rotary Switch (RS): transformer tap selector with knob control located on masking speaker.
 - Volume Control (VL): 50 ohm potentiometer, shaft-adjust control located on masking speaker.

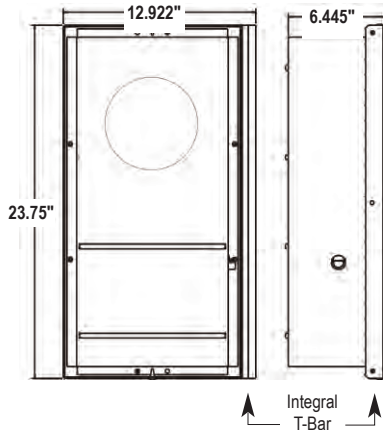
A&E Specifications:

The speaker system for suspended tile ceilings shall be Lowell 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 ceiling tile. The 2'x2' system shall directly replace a 2'x2' tile. Each LT shall include two factory-mounted speakers with transformers mounted to a subplate with a fine perforation pattern steel grille finished in white powder epoxy. One speaker shall fire up; the other speaker shall fire down. Both speakers shall be 8" with a power rating of _____. They shall have a magnet weight of _____, frequency response of _____ and a sensitivity of _____ measured 1W/1M. The system shall include a factory-mounted steel backbox with a volume of _____ and be finished in black powder epoxy.

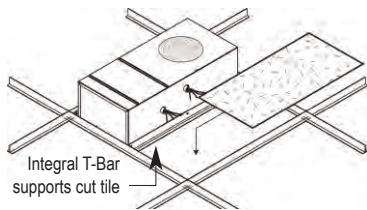


Model No.	Description	Speaker	Transformer	Taps	Backbox	Grille	Vol. Control
LT-810-SM810	1x2 LT Music/Paging/Masking Speaker	(2) 810	(2) TLM572	0.25, 0.5, 1, 2, 5W (70V)	700 cu.in.	White	none
LT-810-SM810-RS	1x2 LT Music/Paging/Masking Speaker	(2) 810	(2) TLM572	0.25, 0.5, 1, 2, 5W (70V)	700 cu.in.	White	Rotary Switch
LT-810-SM810-VL	1x2 LT Music/Paging/Masking Speaker	(2) 810	(2) TLM572	0.25, 0.5, 1, 2, 5W (70V)	700 cu.in.	White	Volume Control
LT2-810-SM810	2x2 LT Music/Paging/Masking Speaker	(2) 810	(2) TLM572	0.25, 0.5, 1, 2, 5W (70V)	700 cu.in.	White	none
LT2-810-SM810-RS	2x2 LT Music/Paging/Masking Speaker	(2) 810	(2) TLM572	0.25, 0.5, 1, 2, 5W (70V)	700 cu.in.	White	Rotary Switch
LT2-810-SM810-VL	2x2 LT Music/Paging/Masking Speaker	(2) 810	(2) TLM572	0.25, 0.5, 1, 2, 5W (70V)	700 cu.in.	White	Volume Control

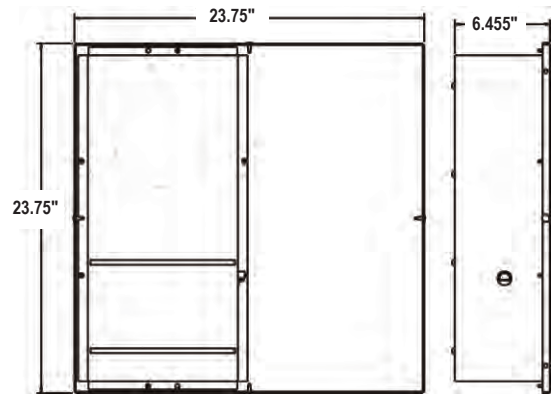
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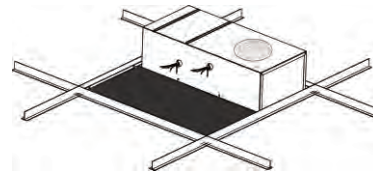
Dimensions: LT Series 1'x2' System with 700 cu.in. backbox per speaker.



1'x2' installation: Replaces half of a non-regular 2' x 2' ceiling tile or one-fourth of a non-regular 2' x 4' ceiling tile. Integral T-Bar supports neighboring non-regular tile that was cut.



Dimensions: LT Series 2'x2' System with 700 cu.in. backbox per speaker.



2'x2' installation: Replaces a 2'x2' ceiling tile. Backbox is mounted to one side for positioning around plenum obstructions.

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)
810	8"	15W	Dual cone	10 oz.	47Hz - 20kHz ±6dB	120° @ 2000Hz -6dB	8 Ohms	1"	95dB Avg	107dB	2.84"	2.0 lbs

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