

# CustomSound Speakers

## In-Wall Speakers with Legendary PSB Sonics



### Real Sound for Real Homes

PSB speakers are cherished for their true-to-nature sound; a sound that is neither hyped up to sound momentarily impressive, nor dulled to blend into the ambience. Instead, PSB engineers use over 40 years of acoustic research and experience to create products that sound exactly right, speakers that disappear leaving only musical expression in their wake. With these new In-Wall designs, PSB has taken the advanced driver technology developed for the Imagine Series of bookshelf and floor standing speakers and adapted it for the unique requirements of custom installation. The result is a nearly invisible presence, both visually and sonically, that redefines how music can sound in the home.

### Performance without Compromise

The problem with many In-Wall speakers is that their performance is compromised by the very wall into which they are placed. Lacking support for a truly rigid speaker baffle, which is essential for resonance-free sound, and limited by the unpredictable acoustic chamber behind the speaker, makes it impossible to get a predictable high quality result. The new CustomSound speakers solve both of these problems by including a superbly engineered enclosure that ensures the acoustic integrity of the design in any installation.

### Ease of Installation

PSB recognizes the importance of simple, straightforward installation to the success and profitability of every project. Using the tried and true 'dog ear' mounting system makes for a familiar and trouble-free installation. The magnetic grille Seamless Integration.

### Stand Out by Blending In

Like all PSB Speakers, the new CustomSound models are individually tested to ensure they meet Paul Barton's stringent quality standards. All models include a white painted 'frameless' grille with a fabric scrim (to visually hide the drive units) that magnetically attaches to the back box assembly. Heavy duty steel and ABS doglegs make installation fast, easy and secure. Pre-construction templates and paint shields are also included. All models are packaged and sold individually to allow for maximum flexibility in speaker configuration. Nearly identical in voicing, the new CustomSound models can be mixed and matched in a single system.



The CustomSound Series of In-Wall and In-Ceiling Speakers.



### C-LCR In-Ceiling

The C-LCR In-Ceiling speaker uses the same driver complement but places the drivers on an angled baffle in a deeper box to allow proper dispersion required to create a nice three-dimensional sound stage when recessed into the ceiling. As expected from PSB, these are very musical sounding speakers.

### C-SUR In-Ceiling

The C-SUR In-Ceiling speaker uses two 5 1/4-inch (135mm) woofers and two 1-inch (25mm) tweeters in a unique 5.1/7.1 dual mode configuration that allows the installer an interesting option. Because each woofer/tweeter pair has its own crossover and input, a single CustomSound C-SUR can be used for both the surround and surround back channels providing an ideal solution for a 7.1 theater in smaller rooms. The CustomSound C-SUR is also an excellent "height channel" speaker because of its diffuse sound field characteristics. This is a speaker that helps pull the sound "off the walls" to create a really immersive experience.

### W-LCR In-Wall

The W-LCR In-Wall speaker is a smaller 2-way design employing two 5 1/4-inch (135mm) woofers along with the same 1-inch (25mm) titanium dome tweeter. This is the perfect speaker for the majority of installations, both as a 2-channel zone speaker and as part or all of a surround sound system.

### W-LCR2 In-Wall

The W-LCR2 In-Wall speaker is a true 3-way loudspeaker design employing two of the 5 1/4-inch (135mm) woofers along with a 4-inch (100mm) midrange speaker that seamlessly transitions to the 1-inch (25mm) titanium dome tweeter. The midrange and tweeter are on rotatable sub-assembly to allow for uniform dispersion whether the speaker is oriented vertically or horizontally. The W-LCR2 is fantastic sounding as a center channel with its highly developed midrange driver providing excellent speech intelligibility. The W-LCR2 is also amazingly musical and can easily substitute for a pair of floor-standers in a critical listening room.

	C-LCR In-Ceiling	C-SUR In-Ceiling	W-LCR2 In-Wall	W-LCR In-Wall
<b>Frequency Response</b>	(Anechoic Chamber)			
On Axis @ 0°±3dB	65-23,000Hz	70-23,000Hz	65-23,000Hz	70-23,000Hz
On Axis @ 0°±1 1/2dB	70-20,000Hz	75-20,000Hz	70-20,000Hz	75-20,000Hz
LF Cutoff -10dB	50Hz	65Hz	50Hz	62Hz
<b>Sensitivity</b>	(1W (2.83V) @ 1M, IEC-Filtered pink noise, C-weighted)			
Anechoic Chamber	88dB	89dB	87dB	89dB
Listening Room	90dB	91dB	89dB	91dB
<b>Impedance</b>				
Nominal	6 Ohms	6 Ohms	6 Ohms	6 Ohms
<b>Input Power/Amplifier Power</b>	(RMS, Clipping <10% Time)			
Recommended Program	20 - 150 Watts	20 - 150 Watts	20 - 200 Watts	20 - 150 Watts
Dynamic Peak	150 Watts	150 Watts	200 Watts	150 Watts
<b>Acoustic Design</b>				
Tweeter (Nominal)	1" (25mm) Titanium Dome with Ferrofluid	2 x 1" (25mm) Titanium Dome with Ferrofluid	1" (25mm) Titanium Dome with Ferrofluid	1" (25mm) Titanium Dome with Ferrofluid
Midrange (Nominal)			4" (102mm) Clay/Ceramic reinforced Polypropylene Cone Rubber Surround	
Woofer (Nominal)	2 x 5 1/4" (133mm) Clay/Ceramic reinforced Polypropylene Cone Rubber Surround	2 x 5 1/4" (133mm) Clay/Ceramic reinforced Polypropylene Cone Rubber Surround	2 x 5 1/4" (133mm) Clay/Ceramic reinforced Polypropylene Cone Rubber Surround	2 x 5 1/4" (133mm) Clay/Ceramic reinforced Polypropylene Cone Rubber Surround
Crossover	1750Hz, LR4	1500Hz, LR4	370Hz, 2200Hz LR4	1700Hz, LR4
Internal Volume	0.36 cu ft (10.24L)	0.4 cu ft (11.2L)	0.28 cu ft (6.46L)	0.12 cu ft (3.48L)
Design Type	Sealed	Sealed	Sealed	Sealed
<b>Dimensions (W x H x D)</b>	(Gross Dimensions)			
Cutout Dimensions	13 3/16 x 13 3/16" *(335 x 335mm)	13 3/16 x 13 3/16" *(335 x 335mm)	10 x 23" *(253 x 585mm)	9 3/16 x 14 3/8" *(233 x 365mm)
Mounting Depth	7 3/4" (196mm) *	7 3/4" (196mm) *	3 3/4" (95mm)	3 3/4" (95mm)
Grille Dimensions	14 3/4 x 14 3/4 x 3/8" *(373 x 373 x 7mm)	14 3/4 x 14 3/4 x 3/8" *(373 x 373 x 7mm)	11 1/2 x 24 5/8 x 3/8" *(292 x 624 x 7mm)	10 3/4 x 16 x 3/8" *(273 x 406 x 7mm)
<b>Weight</b>				
Net	17.6lb (8.8kg)/each	17.6lb (8.8kg)/each	17.6lb (8.8kg)/each	11.7lb (5.3kg)/each
Shipping	24lb (10.9kg)/each	24lb (10.9kg)/each	24lb (10.9kg)/each	15lb (6.8kg)/each
<b>Finish</b>				
	White	White	White	White