

EASY INSTALL® SPEAKERS

Surface-Mount Ceiling Speakers SM1EZ (1W), SM4T (4W)

Easy Install Speakers drastically cut system installation time because each speaker can be completely installed — mounted in the ceiling, secured, and connected — in less than a minute! This versatile speaker carries voice messages with clarity anywhere dependable communication is required. It can be installed in any suspended ceiling with ceiling tiles... quick, easy, and trouble free.



Product Features:

- **Installs in Seconds.** Each speaker assembly is specially designed for immediate installation as soon as you take it out of the box... complete installation takes less than a minute.
- **No-Tool Installation.** No tools needed; everything you need is right in the box.
- **Contemporary, Low-Profile Design.** Looks good in any environment.
- **No Clean-Up.** Installation means piercing ceiling tiles, *NOT* cutting them. So, there's virtually no mess and no ceiling tile pieces to clean up.

Model Variations:

- **SM1EZ** is a one-watt, single tap speaker.
- **SM4T** is a four-watt, multi-tap speaker with settings of 4, 2, 1, 1/2, and 1/4 watts. Settings are rotary switch selectable (there are no transformer wires to deal with).

Technical Specifications:

Dimensions:	9-½" diameter
Depth:	3" (from tile surface)
Frequency Response:	125 Hz – 15 kHz
Sensitivity:	90 dBspl (1 watt @ 1 meter)
Product Weight:	2 lb. each
Shipping Weight:	15 lb./carton (5/carton)

Complies with NFPA National code 160b that allows speakers to be installed in plenums and other air handling spaces. Complies with UL-2043.

For System Design for SM1EZ, see pages 3-7; for SM4T, see pages 64-67

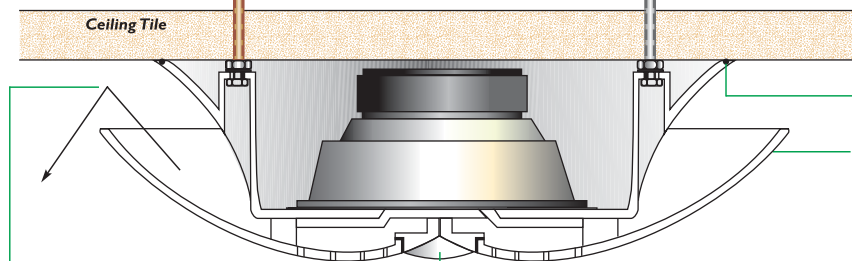
Wide-Based Wing Nuts. Two custom-designed, easy-to-handle wing nuts provide a secure mounting for the speaker to the ceiling tile.

Easy Wiring. The two mounting studs make the electrical connection, and are color-coded for easy polarity identification (one is nickel-plated, the other is copper-plated).

Standard Wire Nuts. Make the electrical connection by attaching the speaker wire to the speaker with standard wire nuts.

Mounting Studs. Two specially designed mounting studs easily pierce standard ceiling tiles up to 2" thick.

Smoother Sound Without Whistling. A large rubber O-ring seal at the base of the speaker cavity tightly seals the speaker to the ceiling tile surface, eliminating whistling and frequency response peaks.



Wide Dispersion of Sound. A combination of direct and reflected sound paths produce a clear, wide dispersion of high-quality sound, even at higher frequencies where other speakers begin to beam. This enhances intelligibility and makes exact speaker placement less critical.

Wire-Wound Volume Control. A high-quality wire-wound volume control (standard) is an integral part of the design, so it's easily accessible but won't stand out. Volume adjustments can be made without going back into the ceiling.

Lightweight, Durable ABS Plastic Shell. Off-white but can be painted for applications where color coordination is a factor.

INSTALLS IN SECONDS!



A

The speaker's two specially designed mounting studs easily pierce through the ceiling tile.



B

Wide-based wing nuts secure the speaker assembly to the ceiling tile.



C

Two standard wire nuts connect the speaker wires to the mounting studs, making the electrical connection. That's all it takes!

Accessories



SMTB
Tile Bridge

EASY DESIGN™ SPEAKERS



See pages 3-7 for Easy Design.

Dimensions	Shipping Weight (6/carton)
13" dia. x 3-1/4" D	30 lb. / carton

Ceiling Speaker CS1EZ

Bogen's **CS1EZ** is a pre-assembled ceiling speaker comprised of an 8" cone speaker and steel ceiling grille painted with enamel. The CS1EZ includes a volume control knob and rear-mounted screw terminal board for easier electrical connection.

Product Features:

- 1-watt, single-tap design
- Screw terminal connections for fast installation
- Designed for 70V amplifier output
- 8" cone speaker for excellent audio quality
- Heavy-duty, wire-wound volume control with knob
- 50 Hz-12 kHz frequency response
- 95 dBspl @ 4 ft. /1W input
- Off-white finish

Horn Loudspeakers HS7EZ, HS15EZ, HS30EZ

Bogen's line of **Easy Design Horn Loudspeakers** are made of weatherproof all-metal construction, thereby making them ideal for both indoor and outdoor use in industrial plants, warehouses, schools, construction sites, and recreational areas. All models come with swivel and tilt mounting bases for greater flexibility in setting the angle of projection.



HS7EZ

HS15EZ

HS30EZ

Product Features:

- 7.5-, 15-, and 30-watt models
- Single-tap design
- HS7EZ features 12" lead wire for electrical connections
- HS15EZ and HS30EZ feature screw terminal connections for fast installation
- Designed for 70V amplifier outputs
- Weatherproof design
- Stepped attenuator volume control
- Swivel and tilt mounting base for flexibility in coverage
- Textured mocha enamel

See pages 3-7 for Easy Design.

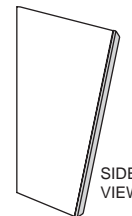
Model	Frequency Response	Sensitivity	Dispersion	Dimensions	Shipping Weight
HS7EZ	250 Hz - 14 kHz	105 dBspl (4 ft./7.5W) input (@1 kHz)	120°	6" dia. x 4" D	2 lb.
HS15EZ	275 Hz - 14 kHz	121 dBspl (4 ft./15W) input (@1 kHz)	110°	9" dia. x 9-1/4" D	5 lb.
HS30EZ	225 Hz - 14 kHz	125 dBspl (4 ft./30W) input (@1 kHz)	100°	11" dia. x 10-1/2" D	7 lb.



Dimensions	Shipping Weight (4/carton)
9-1/2" W x 9-1/2" H x 5-1/4" D (3-1/4" D @ bottom)	23 lb. / carton

Wall Baffle Speaker WB1EZ

The **WB1EZ** comes pre-assembled with an 8" cone speaker enclosed in a simulated walnut-finished wooden enclosure with a black grille cloth on front and a recessed volume control.



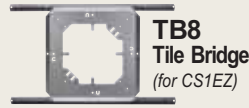
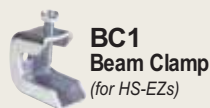
SIDE VIEW

Product Features:

- 1-watt, single-tap design
- Screw terminal connections for fast installation
- Designed for 70V amplifier output
- 8" cone speaker for excellent audio quality
- Recessed volume control
- Designed for easy wall-mount installation; face has 13.5 degree downward angle
- 50 Hz-12 kHz frequency response
- 95 dBspl @ 4ft./1W input sensitivity

See pages 3-7 for Easy Design.

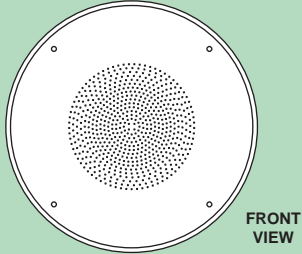
Accessories



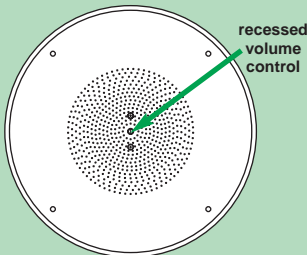
Ceiling Speaker Assembly Variations

Bogen ceiling speaker assemblies consist of an 8" cone speaker (S86 or S810) mounted in an off-white enamel, steel-finished ceiling grille (PG8W) with a transformer (T725). The assemblies are available in several options, as outlined here:

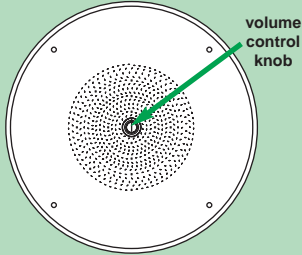
- No Volume Control - S86/S810T725PG8W



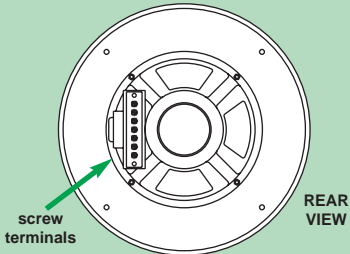
- Recessed Volume Control - S86/S810T725PG8WVR



- Volume Control Knob - S86/S810T725PG8WVK



- Screw Terminal Strip - S86T725PG8WBR



Accessories



CEILING SPEAKER ASSEMBLIES



S86T725PG8W & Variations

S810T725PG8W & Variations



Bogen's Ceiling Speaker Assemblies consist of an 8" Cone Speaker (S86 or S810) pre-assembled onto a 13" steel ceiling grille painted with off-white enamel (PG8W). Options for these assemblies are recessed volume control (VR), volume control with knob (VK), and rear-mounted screw terminal strip for power taps (BR).

Product Features:

- 4-watt capacity
- 8" cone speaker for excellent audio quality
- 6 different power taps available (4, 2, 1, 1/2, 1/4, 1/8 W)
- T725 4-watt transformer
- Pre-assembled for faster installation
- Off-white enamel over steel grille
- Works with both 70V and 25V amplifier outputs
- Available with volume control – recessed or with knob (VR and VK models only)
- Screw terminals (BR models only)
- 6 oz. or 10 oz. magnet weights

Dimensions: 13" dia. x 3-1/4" D

Model	Magnet Weight	Frequency Response	Sensitivity (4ft./1W)	No Volume Control	Recessed Volume Control (VR)	Volume Control w/Knob (VK)	Screw Terminals (BR)	Shipping Weight (6/carton)	
S86T725PG8W	6 oz.	50 Hz-12 kHz	95 dBspl	●				27 lb. / carton	
S86T725PG8WVR					●				
S86T725PG8WVK						●			
S86T725PG8WBR				●			●		28 lb. / carton
S86T725PG8WBRVR					●		●		
S86T725PG8WBRVK						●	●		
S810T725PG8W	10 oz.	70 Hz-15 kHz	96 dBspl	●				30 lb. / carton	
S810T725PG8WVR					●				
S810T725PG8WVK						●			

DROP-IN CEILING SPEAKERS



Drop-In Ceiling Speakers CSD2X2, CSD2X2VR

CSD1X2, CSD1X2VR



Bogen's Drop-In Ceiling Speakers are full-range speakers that allow fast and simple installation, which saves installation time, effort, and cost. Depending on whether your ceiling grid is 2' x 2' or 2' x 4', the speaker can be dropped directly into place or by simply making a single cut to the ceiling tile and then inserting the speaker into position. It's just that easy!

CSD2X2/VR Features:

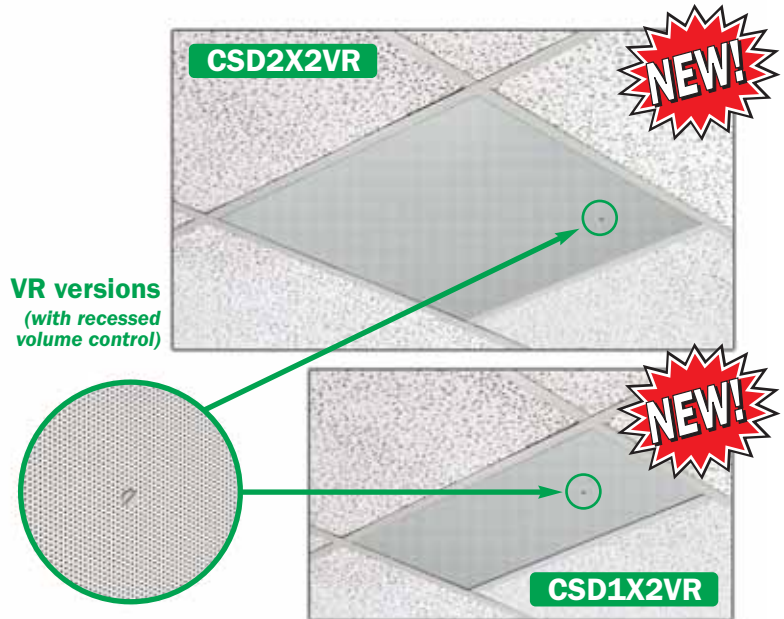
- Fits perfectly into 2' x 2' ceiling frames
- 4-watt, 70V/25V transformer
- 4, 2, 1, 0.5, 0.25 watt tap settings; selectable by rotary switch
- Tile support rail for 2' x 4' ceilings included
- "VR" versions have a recessed volume control conveniently accessible from front grille

CSD1X2/VR Features:

- Fits any ceiling tile grid
- One-piece assembly requires no mounting accessories
- 4-watt, 70V/25V transformer
- 4, 2, 1, 0.5, and 0.25 watt tap settings; selectable by rotary switch
- Integral tile support rail
- "VR" versions have a recessed volume control conveniently accessible from front grille

All Products Feature:

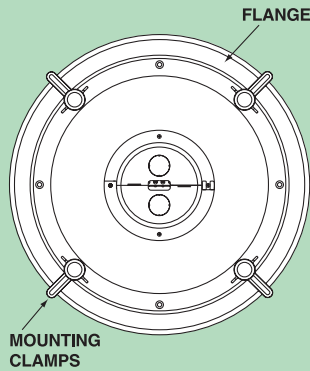
- Finely perforated grille over entire front of speaker
- Fully enclosed, industrial grade steel construction
- For use with 2' x 4' and 2' x 2' suspended tile ceilings
- Plenum-rated – meets requirements of UL standard 2043 for smoke and heat release (report available online)
- 8" main cone with secondary high-frequency cone
- Non-reflective off-white finish blends in with ceiling tiles
- Seismic attachment point



	Dimensions	Product Weight
CSD1X2/VR	12-7/8" W x 23-3/4" H x 5" D	10 lb.
CSD2X2/VR	23-13/16" W x 23-13/16" H x 5" D	12 lb.

Wide Flange

A wide mounting flange allows for easy mounting of the speaker in ceiling holes, even if roughly cut. Extra long integral mounting clamps swing into position, providing a snug and secure installation of the HFCS1/LP to the ceiling surface.



Tile Bridge Support Ring

The TBCR Tile Bridge Support Ring accessory (sold separately) provides additional mounting support.

Suspended ceilings - The TBCR is required to safely support the weight of the speaker in suspended ceiling applications.

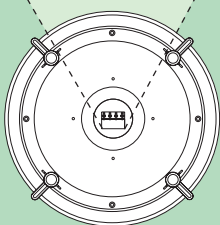
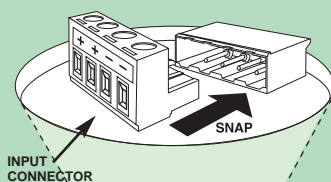
Retrofit applications - The TBCR can be used as a support ring to better distribute the speaker's clamping forces.

New constructions - The TBCR, installed before sheetrock, acts as a routing template that ensures an accurate and proper size hole for installations.

Quick Connection

Wiring for the HFCS1/LP is terminated at a 4-screw snap-lock input connector with two positive and two negative terminals to accommodate daisy chaining of speakers. This snap-lock input connector detaches, thereby allowing for fast and easy wiring connections.

SNAP-LOCK SCREW TERMINAL



Once the wiring is complete, the screw terminal section snaps back into position. So there's no need to maneuver wires and screwdrivers around inconveniently located screw terminals. Plus, you can complete your wiring prior to installation.

CEILING SPEAKERS

High-Fidelity Ceiling Speakers HFCS1, HFCS1LP

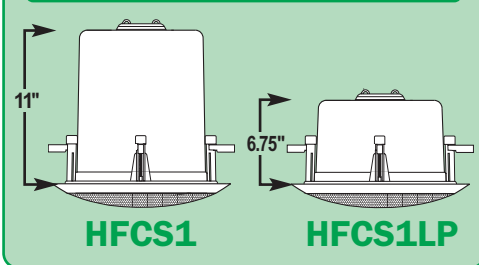
Bogen's coaxial 2-way, High-Fidelity Ceiling Speakers deliver unsurpassed performance and value.



Product Features:

- Installs into a variety of ceiling environments including suspended ceilings and hard-surfaced ceilings
- Large steel back can for extended bass response (HFCS1)
- Low-profile housing allows greater range of installation depths (HFCS1LP)
- Computer-matched venting system for excellent bass output
- Wide dispersion coaxial driver provides broad, even coverage
- Good off-axis response with smooth contouring
- Easy-to-install mounting system for a variety of ceiling types
- High power handling capability for foreground sound
- Selectable power taps via front-mounted rotary control under grille
- Easy wiring with 4-terminal snap-on input connector (providing loop-through)
- 3/4" durable polycarbonate tweeter cone
- 6-1/2" highly stable polypropylene cone
- For 16-ohm, 70V, and 100V systems
- Sensitivity: 89 dBspl @ 1W/1m
- Off-white ABS baffle ring and perforated steel grille (both paintable)
- Attachment point for seismic cable (CK10 safety cable; accessory)
- Input terminal cover with knockouts and safety eyelet provides protection for connections
- Fire rated (94-5VB) ABS baffle

OPENING DEPTH



Technical Specifications:

Model	Impedance	Power Handling	Frequency Response	Dimensions	Product Weight
HFCS1	16 ohms	75W	65 Hz-19 kHz	12" D x 12-5/16" dia.	9 lb.
	70V	32, 16, 8, 4, 2, & 1 W taps			
	100V	32, 16, 8, 4, & 2 W taps			
HFCS1LP	16 ohms	75W	78 Hz-19 kHz	7-3/4" D x 12-5/16" dia.	8 lb.
	70V	32, 16, 8, 4, 2, & 1 W taps			
	100V	32, 16, 8, 4, & 2 W taps			

Accessories



CK10
10 ft.
Cable Kit
(Silver)



TBCR
Tile Bridge
Support Ring

NEAR® ORBIT SPEAKERS

ORBIT Ceiling Speaker OCS1



N · E · A · R®

The **NEAR Orbit Ceiling Speakers** are the ideal choice for installations where the quality of music and vocal reinforcement are crucial. The Orbit Ceiling Speaker features NEAR's unique **MLS™** and **MDT™** technologies (see page 17), which improve sound quality and increase operating reliability.

Product Features:

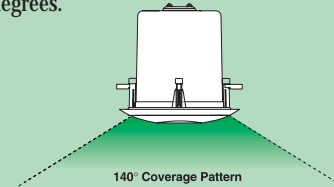
- 140-degree wide-dispersion coaxial driver for broad, even coverage
- Stable, high-definition metal-alloy woofer cone
- 6-1/2" MDT metal-alloy cone delivers detailed sound; 3/4" polycarbonate tweeter
- MLS voice coil centering system
- High-efficiency drivers deliver superior performance
- Extremely good off-axis response
- Computer-matched venting system and large back can provide exceptionally full bass output
- Easy wiring with snap-on connector
- For 16-ohm, 70V, and 100V systems
- Front-mounted tap selector under grille
- Frequency response: 60 Hz to 19 kHz
- Sensitivity: 89.5 dBspl
- Connector provides loop-through to next speaker
- Attachment point for seismic (*safety*) cable
- Input terminal cover with knockouts provides protection for connections
- Integral swing-out clamps secure installation in the ceiling
- Heavy-gauge plated steel back can
- Attractive heavy-gauge steel grille assembly with fine perforations
- Off-white textured finish, paintable
- Fire-rated (94-5VB) ABS baffle

Technical Specifications:

Impedance	Power Handling	Dimensions	Product Weight
16 ohms	100W	12" D x 12-3/8" diameter	10 lb.
70V	32, 16, 8, 4, 2, & 1 W taps		
100V	32, 16, 8, 4, & 2 W taps		

Greater Coverage

NEAR Orbit Speakers offer an extremely wide, even coverage pattern up to 140 degrees.



Metal-Alloy Cone

NEAR's metal-alloy cone structures eliminate cone flex or "break up" in the operating ranges which have traditionally been a problem with conventional speakers that have a paper or plastic cone. In addition, NEAR speakers provide an additional thermal path for the voice coil to stay cool, as well as an extremely stable cone structure unaffected by the surrounding environment.

"Spider-Free" Technology

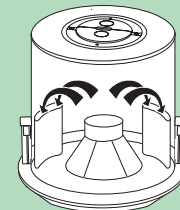
Like all NEAR speakers, the Orbits were designed with Magnetic Liquid Suspension (MLS), which includes a "spiderless" woofer. Sound is clear and less congested versus conventional drivers with spiders.

Conventional woofers have cloth spiders. The advantages to NEAR's "spider-free" speaker technology include continuous, automatic voice coil alignment adjustments, extended linear excursion, and the most efficient path for cooling the voice coil. MLS features a high-gauss ferrofluid that guides the voice coil through the magnetic field.

Dual Venting Ports

Dual venting ports reduce port turbulence, thus allowing lower distortion levels. The larger surface area afforded by the dual ports means that the air moving through the vents is less restricted than in a smaller, single port; thereby, not creating as much noise when operating, especially at louder levels.

NEAR Orbit Dual Vent System



Accessories



CK10
10 ft.
Cable Kit
(Silver)



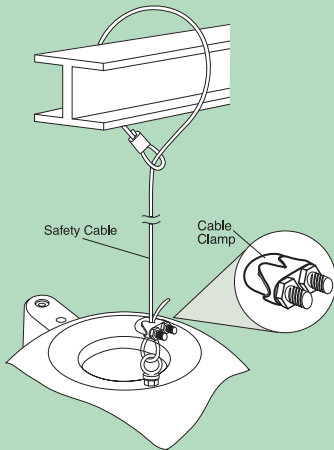
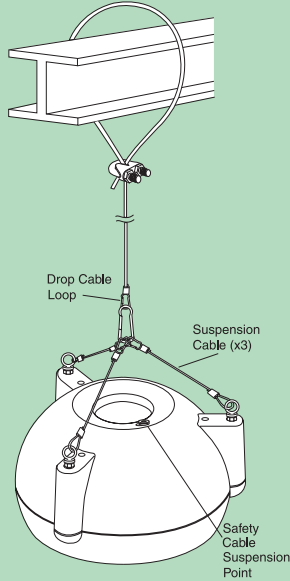
TBCR
Tile Bridge
Support Ring

Overhead Mounting

The OPS1 was designed for use in open spaces or in pavilion-style structures where the ceilings are high but sound needs to be further down, closer to the audience/listener.

Mounts Safely

The CK10 cable kit accessory (sold separately) can be used as a safety or main drop cable. This flexibility allows the speaker to be secured in a building in a variety of ways.



An integral safety cable suspension point on the speaker provides additional safety. A secondary cable can be connected to this suspension point and run alongside the primary (weight-bearing) cable as a backup.

2 COLOR CHOICES*:



DARK GRAY



OFF-WHITE

*Actual color may vary from these catalog samples.

NEAR® ORBIT SPEAKERS

ORBIT Pendant Speakers

OPS1

N · E · A · R ·

OPS1W
(Off-white)



OPS1B
(Dark Gray)

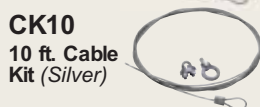
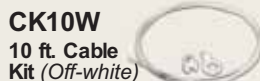


The NEAR Orbit Pendant Speakers provide an ideal sound solution for open space environments that require clear, quality sound evenly distributed throughout the area. These speakers offer a pleasing industrial design, mount from above, and feature NEAR's unique MDT™ and MLS™ metal-alloy speaker driver technologies (see page 17) to deliver clean, intelligible audio.

Product Features:

- Specially designed to provide full-range bass in open space environments
- Easy-to-use cable suspension system includes three suspension cables with attached forged eyebolts
- 140-degree wide-dispersion coaxial driver for broad, even coverage
- Stable, high-definition metal-alloy woofer cone
- 6-1/2" MDT metal-alloy cone delivers detailed sound; 3/4" polycarbonate tweeter
- MLS voice coil centering system
- High-efficiency drivers deliver superior performance
- Extremely good off-axis response
- Large cabinet volume and computer-matched venting system for superior bass output
- Snap-lock input connector for easy wiring to drop cables
- Connector provides loop-through to next speaker
- For 16-ohm, 70V, and 100V systems
- Frequency response: 60 Hz to 19 kHz
- Sensitivity: 89.5 dBspl
- Low-resonance cabinet structure
- Threaded brass insert point for optional safety cable eyebolt
- Color-matched suspension cables & hardware
- Powder-coated, perforated sturdy steel grille
- Available in dark gray and off-white textured, paintable finish
- Fire-rated (94-5VB) enclosure

Accessories



Technical Specifications:

Impedance	Power Handling	Dimensions	Product Weight
16 ohms	100W	9-1/4" D x 15" diameter	10 lb.
70V	32, 16, 8, 4, 2, & 1 W taps		
100V	32, 16, 8, 4, & 2 W taps		

METAL BOX SPEAKERS

Metal Box Speakers

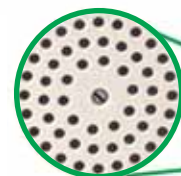
MB8TSL, MB8TSLVR, MB8TSQ, MB8TSQVR

Bogen's Metal Box Speakers feature all-steel construction, surface-mounted enclosure with an 8" cone loudspeaker and 4-watt 70V/25V transformer. The MB8TSL is designed primarily for wall mounting, and its face is angled downward 12.5 degrees. The MB8TSQ is suitable for ceiling or wall mounting. "VR" versions include a recessed volume control.

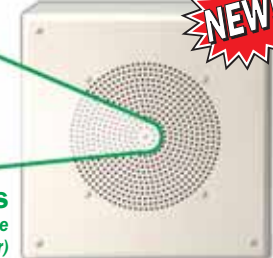


MB8TSL

MB8TSQ



VR versions
(with recessed volume control in center)



Product Features:

- Rugged all-steel, surface-mounted, off-white painted enclosure
- Full-range 8" cone speaker for excellent intelligibility
- Compatible with 70V/25V amplifier systems
- 4-watt maximum power
- 6 power taps available (4, 2, 1, 1/2, 1/4, 1/8 watts)
- Mounting hardware included
- "VR" versions include a recessed volume control

Models	Front Panel Design	Frequency Response	Sensitivity (dBspl @ 1W)	Dimensions	Product Weight
MB8TSL/VR	Slant/Angle	110 Hz-15 kHz	96	11-5/8" W x 11-3/8" H x 5-3/8" D <i>(Top Dimension)</i>	9 lb.
				11-5/8" W x 11-3/8" H x 3-1/8" D <i>(Bottom Dimension)</i>	
MB8TSQ/VR	Square/Flat	110 Hz-15 kHz	96	11-5/8" W x 11-5/8" H x 4-1/4" D	9 lb.

Accessories

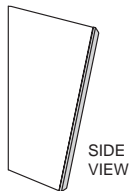


AT10A/
AT35A
10/35W
Attenuators



ATP10/
ATP35
10/35W
Attenuators

WALL BAFFLE SPEAKERS



WBS8T725, WBS8T725V, WBS8T725BR, WBS8T725BRV, WBS810T725

Bogen Wall Baffle Speakers consist of 8" cone speakers (S86 or S810) pre-assembled into a simulated walnut-finished wooden enclosure with a black grille cloth on front. These wall baffles are handsomely styled and ruggedly built with 3/8" particle board reinforced at the corners. Designed for wall mounting, the face is angled downward 13.5 degrees. Recessed volume control and terminal strip are available options on the WBS8T725 model.

Product Features:

- 4-watt capacity
- 6 power taps available (4, 2, 1, 1/2, 1/4, 1/8 watts)
- Simulated walnut finish
- Works with both 70V and 25V amplifier outputs
- Pre-assembled for faster installation
- 8" cone speaker for excellent audio quality
- 6 oz. or 10 oz. magnet weights
- Recessed volume control available (V models only)
- Screw terminals available (BR models only)
- Easy wall-mount installation
- Mounting hardware included

Dimensions
9-1/2" W x 9-1/2" H x 5-1/4" D <i>(3-1/4" D @ bottom)</i>

Accessories



AT10A/AT35A
10/35W Attenuators



ATP10/ATP35
10/35W Attenuators

Model	Magnet Weight	Frequency Response	Sensitivity (4ft./1W)	No Volume Control	Recessed Volume Control (V)	Screw Terminals (BR)	Shipping Weight (4/carton)
WBS8T725	6 oz.	50 Hz-12 kHz	95 dBspl	●			18 lb. / carton
WBS8T725V					●		
WBS8T725BR						●	
WBS8T725BRV	10 oz.	70 Hz-15 kHz	96 dBspl	●		●	19 lb. / carton
WBS810T725						●	

FOREGROUND SPEAKERS

FG-Series Speakers

The **FG-Series** of 2-way speakers is designed to deliver high-quality, wide frequency response audio in a compact cabinet. Perfect for supplying foreground as well as background music, the speaker line is available in three power ratings.

Product Features:

- 15-, 20-, and 30-watt models
- Smooth, wide frequency response
- Compact and rugged plastic cabinets
- Works with both 70V and 8-ohm speaker systems
- U-Mounting bracket included
- Rotary switch-selected power rating for 70V systems
- Splashproof for use in damp environments (*FG20S only*)
- FG15 available in Black (B) and Off-white (W)



Accessories

FGSM
Swivel Mount
(Black)



FGSMW
Swivel Mount
(Off-white)



Model	Power Capacity (watts)		Frequency Response	Sensitivity (dBspl @ 1W)	Low-Freq Driver	High-Freq Driver	Dimensions	Product Weight
	70V Systems	8 ohms						
FG15B	15, 7.5, 4, 2 & 1	15	100 Hz - 20 kHz	86	3" paper	3/4" Mylar	4-5/8" W x 7-1/4" H x 5" D	4 lb.
FG15W								
FG20S	20, 15, 10 & 5	20	80 Hz - 20 kHz	84	5" plastic	3/4" Mylar	5-7/8" W x 9" H x 5-5/8" D	6 lb.
FG30	30, 20, 15 & 10	30		86	5" paper			

SOUND COLUMNS

SCW20, SCW35

Bogen's **Sound Columns** provide effective sound reinforcement for installations with large areas, using a minimum number of speakers. Each column has a vertical array of speakers producing a highly directed sound dispersion pattern for reduced reflection from the room's floor and ceiling.

Product Features:

- 20- or 35-watt models
- Works with 8-ohm speaker systems
- Four 5" speakers (SCW20) or six 6" speakers (SCW35)
- Controlled sound projection
- Uniform sound level & reduced feedback
- Clear and intelligible speech reproduction
- Polarized screw terminals
- Acoustically lined, particle board construction: 3/8" (SCW20), 1/2" (SCW35)
- Simulated oiled walnut, black grille
- Mounting hardware included



SCW35



SCW20

Model	Maximum Power Capacity (Watts)	Frequency Response	Sensitivity (dBspl @ 1W)	Dispersion Angle (degrees)	Dimensions	Product Weight
SCW20	20	80 Hz - 14 kHz	100	Vert: 45, Hor: 90	7-1/2" W x 20" H x 5" D	10 lb.
SCW35	35	70 Hz - 16 kHz	105	Vert: 25, Hor: 120	9-1/2" W x 42" H x 6" D	21 lb.

FLANGE-MOUNTED HORN SPEAKER

FMH15T

The Bogen **FMH15T** is a flange-mounted, high-intelligibility, reentrant-type loudspeaker. Its sturdy, weatherproof, vandal-resistant, all-metal construction is ideal for indoor and outdoor use. It has a built-in tap selector switch for selecting the speaker power in 70V or 25V constant-voltage systems.

Product Features:

- Excellent efficiency and voice intelligibility
- Weather-sealed tap selector switch
- 15 watts max. @ 70V or 25V
- Select flush (BBFM6) or surface (BBSM6) mount enclosure for installation (*each sold separately*)
- Vandal-resistant accessory components for hostile-environment applications
- Heavy-duty cast aluminum grille (SGHD8) and adapter ring (FMHAR8) for installation (*each sold separately*)
- All-metal with black enamel finish



Accessory Components

BBSM6
Surface-Mount Enclosure
(11" W x 11" H x 6" D)



BBFM6
Flush-Mount Enclosure
(9-1/2" W x 9-1/2" H x 6" D)



SGHD8
Heavy-Duty Grille
(11" W x 11" H x 1/2" D)



FMHAR8
Adapter Ring



Power Taps (Watts)		Frequency Response	Sensitivity (dBspl @ 1W)	Dispersion Angle	Dimensions	Shipping Weight
70V	25V					
0.9, 1.8, 3.6, 7.5, 15	0.125, 0.25, 0.5, 0.9, 1.8, 7.0, 15	475 Hz - 14 kHz	111	95°	6-7/8" dia. x 5-1/4" D	4 lb.

HORN LOUDSPEAKERS



**SPT5A,
SP58A**



**SPT15A, SP158A,
SPT30A+, SP308A+**



BDT30A*

Bogen's Horn Loudspeakers offer high efficiency and excellent intelligibility. Rotary switch-selected power taps make installation quick and easy. SPT and BDT models are compatible with 70V and 25V paging systems, SP models are 8-ohm versions. The KFLDS30T is a 70V/25V wide dispersion, high-intelligibility, reentrant type loudspeaker. The IH8A is a paging horn.

Product Features:

- Maximum speaker power capacities of 7.5, 15, and 30 watts
- Rotary switch-selected power taps on transformer models
- Constant voltage (70V/25V) and 8-ohm versions (KFLDS30T and BDT30A are 70V/25V only)
- Tilt & swivel base for easy positioning
- Sturdy, all-metal construction with enamel finish (KFLDS30T horn flare is constructed of polycarbonate)
- Weatherproof design
- Twin reentrant horns for bi-directional projection (BDT30A only)
- KFLDS30T provides wide-angle projection with a rotatable horn flare



KFLDS30T

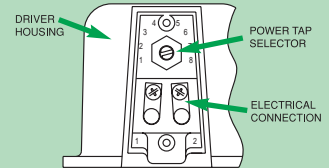


IH8A

+ For style only, product is larger
* Some assembly required

Special Protection

The SPT15A, SPT30A, BDT30A and KFLDS30T use a cast aluminum end bell specially designed to make them weatherproof. A rotary selector switch is used to set the specific power tap for the speaker. This switch's entry into the end bell is sealed by a special mounting nut with an integral O-ring. A removable plastic panel protects both the rotary switch and the electrical connections. This panel provides a narrow opening for the speaker wires to exit, reducing the chance of water infiltration.



Tilt & Swivel Base

Bogen's 15- and 30-watt horns include a unique and easy-to-use tilt and swivel mounting base that provides nearly 180 degrees of tilt and a full 360 degrees of swivel. A single wing nut locks in the angle of the speaker. Loosening the wing nut frees the speaker in each rotational axis, making it fast and easy to precisely aim the speakers where the sound is needed. The base provides three holes for screw mounting and a slot to allow strapping the speakers to beams. The actual mounting base can easily be removed so that the base can be installed separately. The speakers can then be attached to the bases at a later time.

Accessories



AT10A/AT35A
10/35W Attenuators



ATP10/ATP35
10/35W Attenuators



BC1
Beam Clamp

Model	Max Power Capacity (Watts)	Frequency Response	Sensitivity (dBspl, 1W @ 4ft.)	Max Sound Level (dBspl, full power @ 4ft.)	Power Taps (Watts)		Low-Impedance 8-ohm	Dispersion Angle (degrees)	Connection	Dimensions	Product Weight
					70V	25V					
SPT5A	7.5	250 Hz-14 kHz	96	105	7.5, 5, 2.5, 1.25, 0.6	1, 0.68, 0.31	No	120°	Wire Lead	6" dia. x 4" D	2 lb.
SP58A					N/A	N/A	Yes				
SPT15A	15	275 Hz-14 kHz	109	121	15, 7.5, 3.8, 1.8, 0.9	15, 7.5, 1.8, 0.94, 0.46	No	110°	Screw Terminal	9" dia. x 9-1/4" D	5 lb.
SP158A					N/A	N/A	Yes				4 lb.
SPT30A	30	225 Hz-14 kHz	110	125	30, 15, 7.5, 3.7, 1.8	15, 7.5, 3.7, 1.8	No	100°	Screw Terminal	11" dia. x 10-1/2" D	6 lb.
SP308A					N/A	N/A	Yes				
BDT30A	30	225 Hz-14 kHz	106**	121**	30, 15, 7.5, 3.7, 1.8	15, 7.5, 3.7, 1.8	No	100°**	Screw Terminal	9-5/8" dia.** x 12-1/8" D	9 lb.
IH8A	15	350 Hz-14 kHz	108	120	N/A	N/A	Yes	130°	Wire Lead	6-1/4" dia. x 7-1/2" D	3 lb.
KFLDS30T	30	300 Hz-12 kHz	104	119	30, 15, 7.5, 3.7, 1.8	15, 7.5, 3.7, 1.8, 0.9, 0.5, 0.25	No	170°	Screw Terminal	14-3/8" W x 8-1/4" H x 12-7/8" D	8 lb.

** Each Horn

NEAR Armadillo Speakers

Form follows function in the A-Series, a.k.a., the “armadillo” line. Its unique rounded ends and side corrugations, which give the speakers their characteristic “armadillo” shell, are constructed of mineral-filled polypropylene. This heavy molded material creates an extremely durable cabinet with excellent acoustic properties. Cabinet and components are impervious to salt spray and dust.

Tough, Through and Through

The A-Series is made of premium material components: die cast aluminum frames, hard anodized aluminum cones, black anodized aluminum voice coil formers, compounded rubber cone surrounds, high-temperature adhesives, UV-inhibited mineral-filled polypropylene enclosure, powder-coated aluminum, perforated PVC plastic grilles, threaded brass inserts, and gold-plated connectors. These are the most durable materials used in any speaker in the industry!

3 COLOR CHOICES*:



BLACK GREEN WHITE

*Actual color may vary from these catalog samples.

Accessories



ASTB4

Terminal Block Electrical Cover

(Protects wires and connections from water and effects of weather)

NEAR® A-SERIES LOUDSPEAKERS



A2, A2T



A6, A6T



A8, A8T

NEAR® A-Series Speakers set the standard for smooth, accurate sound, attractive appearance, constant and reliable high performance, and rugged construction. Designed to perform beautifully under the toughest conditions, the A-Series combines outstanding aesthetic design with patented speaker technology for unsurpassed audio quality and weatherproof durability, ideal for music or paging.

Product Features:

- Maximum speaker power capacities of 100, 150, and 175 watts at 8 ohms; and 16, 32, and 64 watts at 70V (T versions)
- Coaxial and 2-way capability
- 8-ohm or 70V models
- High-precision, high-performance sound
- Long-term power handling for constant use
- Reduced distortion at all output levels
- Unsurpassed sound quality
- High dispersion of sound (80° on A2, 110° on A6, and 100° on A8 models)
- Completely weatherproof, fully-sealed cabinet for indoor and outdoor applications
- Withstands harsh weather conditions including sun, wind, rain, freezing temperatures, ice, and snow without affecting audio clarity or intelligibility
- Corrosion-resistant mounting hardware
- Rugged and durable construction
- Metal-alloy low-frequency drivers
- Special rubber driver surrounds
- Dual-layer aluminum voice coils, combined with fluid, provide efficient heat-sinking under long-term, high power situations
- Over-sized mounting knobs to secure mounting easily

A-Series Mounting Bracket



- Quick and easy mounting brackets have slots for the speaker to slide in with side knobs attached
- Color (black, green, or white) finish matches speaker cabinet
- Heavy-gauge aluminum brackets (stainless steel on A8 models) are powder-coated to resist chipping and scratching

N · E · A · R®

Model*	Drivers	Frequency Response**	Sensitivity (1W @ 1 meter)	Dispersion	Impedance	Power Handling	System Capability	Dimensions	Shipping Weight
A2	6" metal-alloy hard anodized woofer;	55 Hz-20 kHz	88 dBspl	Horizontal: 80 degrees;	8-ohm	100 watts	Coaxial	9" dia. x 8" D	10 lb.
A2T	1/2" polycarbonate tweeter			Vertical: 80 degrees					
A6	6" metal-alloy hard anodized woofer;	50 Hz-20 kHz	89 dBspl	Horizontal: 110 degrees;	8-ohm	150 watts	2-way	13-7/16" W x 7-1/8" H x 7-11/16" D	14 lb.
A6T	1-1/8" pure titanium low diffraction inverted tweeter			Vertical: 45 degrees (up), 35 degrees (down)					
A8	8" metal-alloy hard anodized woofer;	45 Hz-20 kHz	91 dBspl	Horizontal: 100 degrees;	8-ohm	175 watts	2-way	17-13/16" W x 10-3/16" H x 10-7/8" D	21 lb.
A8T	1-1/8" pure titanium low diffraction inverted tweeter			Vertical: 35 degrees (up), 45 degrees (down)					

*Colors specified by adding suffix to model number: BLK (black), GRN (green), or WHT (white) **(-10 dB)

NEAR® ROCK LANDSCAPE LOUDSPEAKERS

Rock Loudspeakers R8, R8T

The NEAR® Rock Landscape Loudspeakers are designed to blend in with outdoor scenery, using the NEAR acoustical technology. They deliver superior sound even if continuously or suddenly exposed to heat, cold, wind, rain, ice, snow, sleet, sun, or salt spray.

N · E · A · R®



R8, R8T

Product Features:

- Works with 70V and 8-ohm speaker systems
- 2-way design
- Completely weatherproof
- Rich, full-bodied sound
- Ultra-low distortion
- Wide, elevated sound dispersion
- Rugged, heavy, and realistic
- Available in two natural cabinet colors

2 COLOR CHOICES*:



SANDSTONE



GRANITE

*Actual color may vary from these catalog samples.

Model**	Drivers	Frequency Response	Sensitivity (1W@ 1 meter, 8-ohm)	Dispersion	Power Handling	Orientation	Dimensions	Product Weight
R8	8" MDT mid-bass; 1-1/8" Titanium tweeter	60 Hz-20 kHz	90 dBspl	Horizontal: 100 degrees;	175 watts	Vertical	23" W x 16" H x 15" D	64 lb.
R8T				Vertical: 45 degrees	64 watts (3 taps in -3 dB increments)			67 lb.

** Colors specified by adding suffix to model number, i.e., G (granite) or S (sandstone).

What Makes NEAR® Speakers So Unique?

- **MDT™ Technology – Metal Diaphragm Technology** uses metal-alloy drivers (not paper and plastic) for extremely stable speaker cones, even after long periods of time. MDT is lightweight, strong, and produces natural sound, significantly better phase response, musical accuracy, and fine detail of sound with ultra-low distortion.
- **MLS™ Design – Magnetic Liquid Suspension** uses the speaker's own magnetic field to precisely center the voice coil in the magnet gap. This eliminates the need for distortion-causing voice coil spiders found in conventional speakers and allows longer speaker excursion. A proprietary Ferrofluid® seals the magnet gap and voice coil against moisture and corrosion and heatsinks the voice coil to the magnet structure for greater power handling, assuring long speaker life under difficult environmental conditions. With MLS, the centering actually becomes more accurate as the music becomes louder.

Unparalleled Performance

NEAR speakers lead the industry in metal speaker technology.

A NEAR speaker is unique because of its:

- 1 Advanced rubber compound cone surround
- 2 Metal Diaphragm Technology
- 3 Magnetic Liquid Suspension
- 4 Cast Aluminum Basket
- 5 Sealed Magnet



NEAR (New England Audio Resource) is a brand of Bogen Communications, Inc.

Bypass Feature

In certain rooms such as training or conference rooms where meetings or presentations are held, paging announcements are considered interruptions. To avoid or eliminate such interruptions, speakers installed in these rooms may use attenuators to set speaker volume low or off. In these cases, emergency messages would not be heard by individuals in these rooms.

To ensure critical messages are heard, the ATP-Series Attenuators include a Bypass Function that sets emergency messages to full volume - to all speakers the attenuator controls - even if the speakers' volume control knobs are set low or off. A trip voltage of between 9 and 30V DC causes the attenuator to bypass the volume control function and provides full volume audio to the speakers. This is a critical and ideal function in emergency situations when a message must be sent to all individuals in a building.

ATTENUATORS

AT10A, AT35A & ATP10, ATP35

Both **Attenuator Series** allow the output level of a group of loudspeakers to be set from a wall-mounted volume control, without affecting overall amplifier volume settings. The ATP-Series also has a priority bypass function which overrides the volume control knob to provide full volume audio to the speakers.

Product Features:

- Adjusts loudspeaker output levels on 25V & 70V systems
- 2 Models control up to 10-watt or 35-watt speaker systems
- Priority override of volume (ATP series)
- 10 Attenuation steps and an off setting
- Mounts in standard electrical box; single (AT10A, ATP10) or double (AT35A, ATP35)
- Simple connections



AT35A

AT10A



ATP35

ATP10

Model	Power Rating	Gang Box	Dimensions*	Shipping Weight
AT10A/ATP10	10 watts	Single	2-7/8" W x 4-5/8" H x 2-1/2" D	1 lb.
AT35A/ATP35	35 watts	Dual	4-3/4" W x 4-3/4" H x 3" D	2 lb.

*Depth from front of plate

Extreme Human Environments

It takes a specially-engineered speaker to stand up to the extreme abuse of human beings. The VRS-Series has been installed in some of the most demanding applications, from high-crime area door-answer systems to some of the most notorious correctional facilities.

What Tough Is (Exploded View)

The VRS-Series features an 11-gauge stainless steel faceplate (#1). That's a solid 1/8" of the hardest steel around.

Behind that, there's a heavy-duty steel barrier (#2) which is designed to let sound out and nothing in. The barrier is baffled so that knives, nails, paper clips, and anything else that might fit into the grille openings will not enter the speaker nor make contact with the speaker's cone.

Then for further protection, a finely perforated metal grille (#3) covers the entire speaker to intercept any object that might snake its way through the baffles of the steel barrier.

The VRS-Series not only keeps objects out, but fluids also cannot damage the speaker because the speaker's cone is made of weather-resistant plastic (#4).

VANDAL-RESISTANT SPEAKERS

VRS1, VRS2

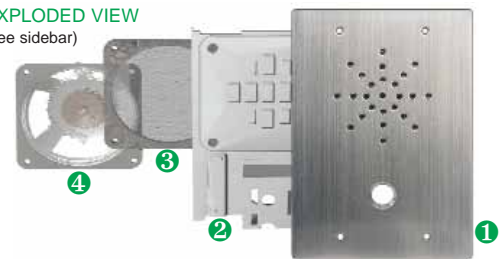
These **Vandal-Resistant Speaker** assemblies ensure that sound communication gets through reliably, despite being located in environments susceptible to damage and destruction. The assembly includes a 3" plastic cone speaker, securely located and protected behind steel barriers. Available with or without call button.



VRS1

VRS2

EXPLODED VIEW (see sidebar)



Product Features:

- Withstands attempts at vandalism in hostile environments
- Four layers of defense: ① a heavy-duty 11-gauge stainless steel faceplate, ② a baffled steel guard protects the speaker from puncture, ③ a finely perforated screen stops thin, flexible objects from damaging the moisture-resistant plastic speaker cone, and ④ weather-resistant cone
- Grille openings are cross-positioned so that nothing can enter the speaker, not even the smallest or sharpest objects
- Unbreakable metal call button (VRS1 only); VRS2 available without call button
- Optional low impedance 8-ohm speaker operation
- Mounts with one-way security screws (included)
- 1/2-Watt speaker power on 25V speaker line
- 3" Weather-resistant cone speaker

Dimensions	Shipping Weight
5-1/2" W x 7-3/4" H x 1-3/4" D	4 lb.

CONE SPEAKERS



S86, S86T725, S86T725BR, S810, S810T725

Bogen offers 8" Unmounted Cone Speakers with 6 or 10 oz. magnets, with or without speaker transformers.

Product Features:

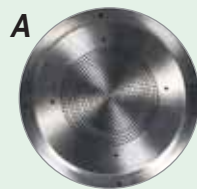
- Works with both 70V and 25V amplifier outputs (*models with transformers*)
- 8" cone speaker for excellent audio quality
- Easy to install in wall baffles or ceiling grilles (*see below*)

Model	Speaker	Magnet Weight	Frequency Response	Sensitivity	Power Taps (in Watts)	Connections	Dimensions	Shipping Weight (16/carton)
S86	S86	6 oz.	50 Hz - 12 kHz	95 dBspl	8 ohms @ 7W	Push-on Lugs	8" Dia. x 3-1/4" D	25 lb. / carton
S86T725	S86	6 oz.	50 Hz - 12 kHz	95 dBspl	4, 2, 1, 1/2, 1/4, 1/8	Wire	8" Dia. x 3-1/4" D	32 lb. / carton
S86T725BR	S86	6 oz.	50 Hz - 12 kHz	95 dBspl	4, 2, 1, 1/2, 1/4, 1/8	Screw Terminal	8" Dia. x 3-1/4" D	36 lb. / carton
S810	S810	10 oz.	70 Hz - 15 kHz	96 dBspl	8 ohms @ 15W	Push-on Lugs	8" Dia. x 3-1/2" D	34 lb. / carton
S810T725	S810	10 oz.	70 Hz - 15 kHz	96 dBspl	4, 2, 1, 1/2, 1/4, 1/8	Wire	8" Dia. x 3-1/2" D	50 lb. / carton

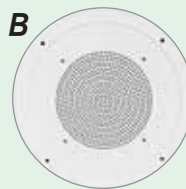
GRILLES

CG8A, CG8AW, SG8W, PG8A, PG8W

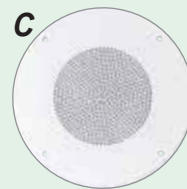
Bogen provides a wide selection of attractive **Ceiling Grilles** in off-white enamel or aluminum finishes. Each grille is shipped with the hardware needed to mount a speaker to the grille.



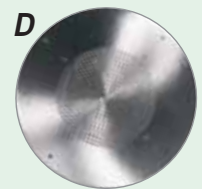
CG8A



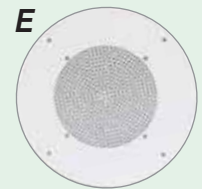
CG8AW



SG8W



PG8A



PG8W

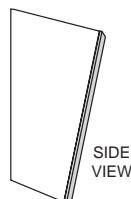
Model	Figure	Material	Finish	Style	Diameter	Quantity	Shipping Weight (carton)
CG8A	A	Aluminum	Satin Aluminum	Contoured	12-5/8"	15 / carton	8 lb.
CG8AW	B	Aluminum	Off-white Enamel	Contoured	12-5/8"	15 / carton	9 lb.
SG8W	C	Steel	Off-white Enamel	Low Profile*	13"	10 / carton	14 lb.
PG8A	D	Aluminum	Satin Aluminum	Low Profile	13"	20 / carton	26 lb.
PG8W	E	Steel	Off-white Enamel	Low Profile	13"	20 / carton	26 lb.

*Features hidden speaker mounting studs

WALL BAFFLE



WB8



SIDE VIEW

Bogen's **Wall Baffle** is ruggedly constructed of 3/8" particle board with reinforced corners. It is finished in simulated walnut and will house any Bogen 8" speaker. A sloping front panel (13.5 degrees) provides enhanced downward dispersion. Hardware for mounting a speaker to the baffle included.

Dimensions	Shipping Weight (4/carton)
9-1/2" W x 9-1/2" H x 5-1/4" D (3-1/4" D at bottom)	10 lb. / carton