

# BOGEN DESIGN REQUEST FORM

Here's a suggestion...  
Copy & Re-Use this Form

## CUSTOMER INFORMATION

Company: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

## ACCOUNT NAME

Company: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

**NOTE: Floor Plan required - Send a scaled hard copy (to address below) or e-mail a .dwg file to: [pagingdesign@bogen.com](mailto:pagingdesign@bogen.com)**

Please check one:  Bogen  Avaya Please check one:  Centralized Amplifier  Self-Amplified

1 - System Needs concerns the requirements of the entire installation.

- a. **Paging Method:**  MIC  Voice Switch. If VS, what type? \_\_\_\_\_  
 b. **How Many MIC Inputs Needed?** \_\_\_\_\_  
 c. **How Many AUX Inputs Needed?** \_\_\_\_\_ (voice connections)  
 d. **Is Talk Back Required?**  Yes  No  
 e. **Are Time Tones Needed to Signal Shift Changes?**  
 Yes  No

f. **All-Call**  or **Zone Paging**

If Zone Paging, how many zones? \_\_\_\_\_  
 How should zones be laid out? (Indicate zones in part 3.)

g. **Override (Emergency) Paging?**

- Yes  No  
 If Yes, check all that apply:  
 Telephone  Microphone  Pre-recorded messages/MDMU

2 - Specific Area Needs concerns specific areas (zones) within the installation.

Note: Installations that contain areas with different style environments or sound levels may require this section to be filled out separately for each area (zone). Be sure to make enough photocopies of this page for this purpose.

a. **Environment:**

- Office/Professional/Retail Store  Factory/Industrial  
 Institutional/Remote Public Area  Warehouse  
 Aisles created by high storage racks  Hallways  
 Cafeteria/Break Room  Auditorium  
 Loading Docks/Outdoor Areas  Other: \_\_\_\_\_

b. **Where Will the Speakers Be Placed?**

- Indoors  Outdoors

c. **How Can the Speakers Be Mounted?**

- Suspended/Drop Ceiling\*  Wall\*\*  
 Beams, Columns, Other Structures  Ground

\* Make note of any changes in surfaces or positions for actual speaker mounting.

\*\* Make note of any changes in wall angles, surfaces, or height.

d. **Ceiling Type** \_\_\_\_\_ **Ceiling Height** \_\_\_\_\_

e. **Ambient Noise Levels (estimate from chart below)** \_\_\_\_\_

### SOUND PRESSURE LEVELS:

- Low: 55 - 65 dB** - Speech is easy to hear  
**Medium: 66 - 75 dB** - Must raise voice to be heard  
**High: 76 - 85 dB** - Speech is difficult to hear  
**Very High: 86+ dB** - Speech almost impossible to hear

f. **Will There Be Changes in Ambient Noise Levels?**

- Yes  No If Yes, note range: \_\_\_\_\_ dB to \_\_\_\_\_ dB

g. **Are Volume Controls Mounted on Each Speaker Needed?**

- Yes  No

h. **Are Wall-Mounted Attenuators Needed for Area's Volume Control?**  Yes  No

i. **Is Feedback Elimination Equipment Needed?**  Yes  No

j. **Is Background Music Needed?**  Yes  No

- If yes, BGM source:  CD Player  Tuner

Other: \_\_\_\_\_

3 - **Zone Layout.** If you checked the zone paging box in part 1 above, indicate specific area (zones) into which the customer would like to divide the facility. Also indicate whether the customer wants talk back (TB), night bell (NB), background music (BM), automatic volume control (AVC), and VoIP Connectivity (VC). Add a separate sheet for additional zones (up to 99 zones).

ZONE	AREA	TB	NB	BM	AVC	VC	ZONE	AREA	TB	NB	BM	AVC	VC
1.	_____	<input type="checkbox"/>	6.	_____	<input type="checkbox"/>								
2.	_____	<input type="checkbox"/>	7.	_____	<input type="checkbox"/>								
3.	_____	<input type="checkbox"/>	8.	_____	<input type="checkbox"/>								
4.	_____	<input type="checkbox"/>	9.	_____	<input type="checkbox"/>								
5.	_____	<input type="checkbox"/>	10.	_____	<input type="checkbox"/>								

Send Form To: **Bogen Communications, Inc., 50 Spring Street, Ramsey, NJ 07446 U.S.A.,**  
 Tel: 1-800-999-2809; Fax: 201-785-0251; or E-mail: [pagingdesign@bogen.com](mailto:pagingdesign@bogen.com)  
 Attn: Bogen Paging Design



**BOGEN**  
 COMMUNICATIONS, INC.  
 50 Spring Street, Ramsey, NJ 07446 USA  
[www.bogen.com](http://www.bogen.com)



# FREE DESIGN SERVICE

## PROJECT LAYOUT & SYSTEM DESIGN SERVICE

### INCLUDES:

- ▶ Bill Of Materials
- ▶ Connectivity Drawings
- ▶ Speaker Placement
- ▶ Scope Of Work



**BOGEN**

# TAKE THE GUESSWORK OUT OF YOUR PROJECT LAYOUT DESIGN

Bogen's Free Design Service was developed to support you and the efforts of your team. Our objective is to provide you with the best technical bid response document possible.

*The program works like this...*

## 1. Identify a potential opportunity.

Small or large, simple or complicated, if you want an impressive professional design, let Bogen design it for you! To get started, simply contact your Bogen Regional Sales Manager (RSM) or call our Design Department at 1-800-999-2809 (option 2).

## 2. Provide information about the project.

**A. Blueprints:** Blueprints are the key to the success of the design! We can accept prints via many electronic formats, although AutoCAD is preferred. You should also submit a completed Design Request Form (printed on the back of this brochure) for each design request. This form is also available on the Bogen website. E-mail all information to [pagingdesign@bogen.com](mailto:pagingdesign@bogen.com). If electronic copies are not available, a scaled hard copy may be sent along with a completed Design Request Form to: Bogen Communications, Inc., Attn: Design Department, 50 Spring St., Ramsey, NJ 07446.

**B. Project and Contact Information:** At a minimum, please provide...

- Your name and contact information
- Name and contact information of the contractor involved
- Who you want the design sent to (include e-mail and/or mailing address)
- Project name and location (city, state)
- Deadline for submittal
- Key end-user individual(s) and contact information

**C. Site Survey:** If you or your contractor can initiate a site survey or allow a Bogen RSM to do one, the information gathered from it will enable us to confirm such factors as the actual application, dB levels, types of equipment required (ceiling speakers, foreground speakers, horns, etc.), music requirements, microphone needs, square footage, ceiling type, type of environment, etc. This information is critical to creating an appropriate design for your project.

## 3. The Design Is Prepared.

Once your request is received, along with accompanying information and blueprints, it is entered into the design request queue. Each design is assigned a Project Reference Code. When the design is completed, you and your customer will receive a package that contains a marked set of customer-supplied blueprints showing color-coded speaker/horn placement and the following components:

- Project Name and Project Reference Code with date
- Confirmation of Tap Settings (if applicable)
- Optional equipment notes if applicable
- Scope of Work confirming equipment requirements and any topographic or environmental factors, if applicable and previously identified to us
- Legend confirming the Bill of Materials
- Connectivity Drawings with color-coded highlights
- Product specification sheets if requested
- National account registration if applicable

You and your customer will be satisfied and impressed with the level of expertise we deliver. This service is provided **FREE** to you, without cost or obligation.

To get started right now, simply make a copy of the Design Request Form on the back of this brochure and follow the steps above. We look forward to working with you and creating your next design.

To send us your design request online, fill in and submit the Free Design Request Form at:

[www.bogen.com/support/pdfs/deswksht.pdf](http://www.bogen.com/support/pdfs/deswksht.pdf)



# WHAT YOU'LL RECEIVE...

**MARKED BLUEPRINTS**

**LEGEND**

- CSD1X2 SET TO 1 WATT
- AT10A
- AZ TAPPED TO 4 WATTS
- MBRTSL TAPPED TO 1 WATT
- SPT15A SET TO TAP #3 (3.8 WATTS)
- GA-MLE3E32 SET TO 3.7 WATTS
- ZONE #1 (MAIN OFFICE)
- ZONE #2 (WAREHOUSE OFFICE)
- ZONE #3 (WAREHOUSE)

**PROJECT REFERENCE CODE: XXXB-XX**

**BOGEN COMMUNICATIONS, INC.**  
 50 SPRING STREET  
 P.O. BOX 575  
 RAMSEY, NJ 07446  
 TEL: 201-934-8500  
 FAX: 201-934-9832

**COVER LETTER & B.O.M.**

**BOGEN COMMUNICATIONS, INC.**  
 XXXB-XX

**ASSUMPTIONS**

- 120 Ohm Tie Ceiling
- Open Area Ceiling

**SCOPE OF WORK**

The system is specified for three zones of paging plus ABC call as requested, each zone will be driven by a 70-watt amplifier.

The CSD1X2 speakers that should be set to 1 watt are outlined in CYAN on the print.

The AT10A attenuators are outlined in RED on the print.

The Bogen UT1312 Universal Telephone Interface Zone Paging System will provide zone output and interface to any analog port of the phone switch.

**Bill of Material**

- 2 - AT10A
- 2 - AZT
- 2 - MBRTSL
- 1 - TPU308
- 2 - RPK82
- 3 - M450
- 3 - RPK86
- 1 - DFT120
- 1 - UT11
- 1 - RPK1711
- 1 - UT1312

Drop-In Ceiling Tile Speaker  
 Speaker Line Attenuator 10 Watts  
 1/2" x 6" Armadillo Speaker  
 Metal Box Speaker Slanted Front  
 Reentrant Horn 15 Watts  
 Optional SPT Beam Mounting Clamp  
 Explosion-Proof Horn  
 Telephone Paging Amplifier 35 Watts  
 Telephone Paging Amplifier 60 Watts  
 Telephone Paging Amplifier 100 Watts  
 Optional Rack Mounting Kit  
 M-Class Amplifier 900 Watts  
 Optional M-Class Rack Mounting Kit  
 Digital Feedback Terminator  
 Optional Universal Telephone Interface  
 Optional UT11 Rack Mounting Kit  
 Universal Telephone Interface Zone Paging System

**SPEAKER LINE ATTENUATOR WIRING DIAGRAM**

**WIRE LOSS CHART (10% of Power Lost in Wire)**

Wire Gauge	5	10	15	30	50	100	200
16	10,000	7,000	4,800	2,300	1,400	700	350
18	9,000	6,500	4,500	2,100	1,300	650	325
20	8,000	5,800	4,000	1,900	1,100	550	275
22	7,000	5,000	3,500	1,700	1,000	500	250
24	6,000	4,200	3,000	1,500	900	450	225

Maximum Wire Run Cable Length (ft.)

**CONNECTIVITY DRAWINGS**

**UT1312 TO M-CLASS AMPLIFIERS**

BAL23 MUST BE PLACED IN THE HOSE POSITION

