

# Multi-Zone, Multi-Priority BGM & Paging Installation Got You Tied In Knots?



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Introducing ProMatrix™, the "one box" solution that makes short work of tough paging/BGM jobs. It can save hours of set up time and deliver the flexibility and control that your clients want. Six auto-switched inputs, three amp channels, variable muting, volume limits, IR control... Want to know more? Check out ProMatrix today!

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# BOGEN®

50 Spring Street, Ramsey, NJ 07446

entirely by the contractor's avoidance of this step. Be aware that the damages caused by a loudspeaker enclosure or loudspeaker cluster falling will be born by the contractor if the necessary and reasonable steps to avoid the accident have not been taken.

Each type of attachment structure requires specific methods:

- *Wooden beam:* Loudspeakers may be attached to structures built with large wooden beams by installing swivel ring fittings with through bolts that travel from one side of the beam to the other. Lag bolts should not be used to attach hardware to wooden beams.

- *Wood and metal joist truss:* Installing reinforcing cords to the truss' lower cord and installing swivel-ring fittings with through bolts that travel from one side of the reinforcing cord to the other is the way to attach your units to a wood and metal joist truss. Do not use lag bolts to attach hardware to wooden beams.

- *Steel I-beam:* The attachment can be made by installing beam clamps, which are positioned along the I-beam flange and clamped down at the desired location. Various beam clamp designs are available for vertical loading only, and additional designs are available for off-axis loading.

- *Steel H-beam:* Position beam wraps along the H-beam, clamping them down where you need them. The various beam clamp designs are manufactured for vertical loading only or manufactured for off-axis loading.

- *Concrete:* Concrete requires steel attachment plates with redundant concrete fasteners designed for the appropriate tension or shear load. If possible, the fasteners should be placed in shear rather than tension.

### Looking for more answers

Most responsible loudspeaker manufacturers have technical service people who are happy to help contractors install their products appropriately and safely. Rigging contractors are an excellent way to get information as well. With small jobs, the rigging contractor will probably offer advice free of charge. On large jobs, a rigging contractor can perform the work faster and eliminate safety concerns.

The rigging hardware manufacturer can help, too. Rigging hardware manufacturers have a wealth of information on all kinds of challenging installations. Responsible rigging hardware manufacturers will be happy to help the contractor, even if the contractor is not buying product from them. Whatever you do, be sure to ask all the questions you need before you suspend that first loudspeaker. **S&VC**

Martin is president of ATM Fly-Ware, Carson, CA.

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