TECHNICAL SPECIFICATIONS

ID2.308-ML

Product Group: iDESIGN Installation Group
System Type: Mid / Low Triple 8"

FEATURES & ADVANCES

- **14 Reinforced 3/8-16 threaded hang points**
- **Omni-mount locations on 4 sides**
- **U-Bracket factory hardware available**
- **Combines with other iDESIGN modules to form arrays**

PRODUCT DESCRIPTION

The ID2.308-ML is a mid / low loudspeaker designed for permanent installations. This high output foreground module features 3 direct radiating 8" cone loudspeakers for use in distributed and beamed steered reinforcement applications. By combining iDESIGN™ modules in pre-engineered arrays, systems can be configured for larger venues.

MOUNTING & RIGGING

Mounting locations are distributed across 5 surfaces of the enclosure. Omni-mount™ compatible locations are available on 4 sides of the enclosure, while an additional 14 reinforced 3/8-16 threaded locations are available for other mounting options. iDESIGN iDB™ Series array frames are available to facilitate assembly and suspension of multiple modules as a single cluster. iDESIGN iDB™ Series U-bracket hardware is also available for single unit wall and ceiling mount installation.

CONSTRUCTION

The enclosure is constructed of 12-ply void-free birch hardwood plywood and is coated with a weather and wear resistant ProCoat™ polyurea hybrid finish. All rigging components are weather protected with a heat cured epoxy powder coat finish. Components in the front of the enclosure are protected by a curved grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.

AMPLIFICATION & PROCESSING

Three channels of discrete amplification and signal processing are required for this module. The preferred signal processors for all iDESIGN products are the McCauley M Series family of digital processing units. The System Design Group can help in creating a complete amplification and signal processing solution.

APPLICATIONS

- **Houses of Worship**
- **Performing Arts Centers**
- **Dance Clubs**
- **Theme Parks**
- **Auditoriums**
- **Theatrical Sound Design**
- **Live Clubs**
- **Sports Facilities**

PERFORMANCE PARAMETERS

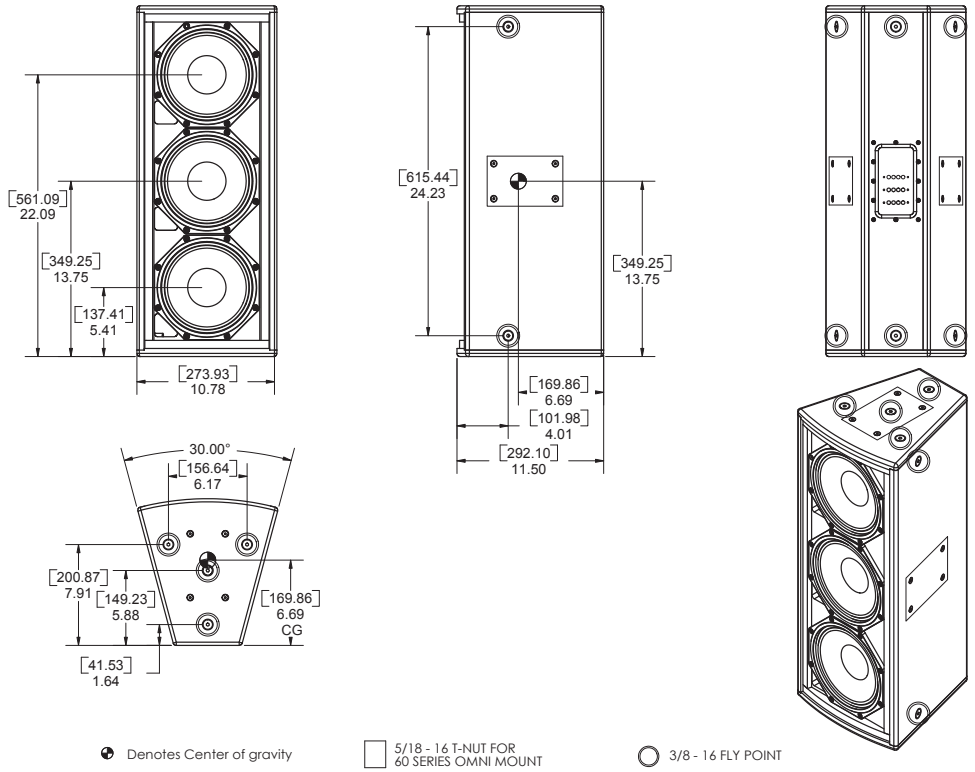
System Type	Mid / Low Triple 8"
Frequency Response	
-10dB	60Hz - 7kHz
+/- 3dB	68Hz - 5.5kHz
Sensitivity	
LF 1	96dB @ 2.83V 1 m
LF 2	96dB @ 2.83V 1 m
Maximum SPL	(cont. / peak)
LF 1	121dB / 127dB
LF 2	121dB / 127dB
LF 3	121dB / 127dB
Power Ratings	
LF 1 - RMS	200w @ 16Ω
LF 2 - RMS	200w @ 16Ω
LF 3 - RMS	200w @ 16Ω
LF 1 - AES	300w @ 16Ω
LF 2 - AES	300w @ 16Ω
LF 3 - AES	300w @ 16Ω

PHYSICAL PROPERTIES

Weight	49lbs / 22.22kgs
Dimensions	
inches	27.5 H x 10.9 W x 11.5 D x 5.1 T
centimeters	69.8 H x 27.8 W x 29.2 D x 12.9 T
Enclosure Material	5/8" 12 ply Birch Laminate
Suspension	(14) 3/8-16 reinforced hang points (4) Omni-Mount™ compatible mounting locations (3) Horizontal U-Bracket mounting locations (1) Vertical U-Bracket mounting location
Finish	Procoat™ Polyurea-Hybrid Weatherproofing (Black is standard, White and / or Custom Colors Available)
Transducers	(3) 8" LF Transducers
Connectors	Barrier terminal strip
Compatible Array Frames (for building clusters)	IDB.88-AF, IDB.828-AF, IDB.282-AF, IDB.888-AF, IDB.858-AF
Compatible U-Brackets (for deploying individually)	IDB.208-H, IDB.208-V

McCauley Sound Inc. - 16607 Meridian Avenue East - Puyallup, WA 98375 - U.S.A.
Call Toll Free: 1.877.McCauley - fax 253.841.3050 - http://www.mccauley.com

DIMENSIONAL ILLUSTRATIONS



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The low-mid range loudspeaker system shall incorporate three, 2" (51 mm) voice coil, 8" (204 mm) diameter LF transducers. The LF drivers shall be mounted in separate optimally vented enclosures, tuned for maximum low frequency response.

The system frequency response shall vary no more than ±3 dB from 55 Hz to
5 kHz measured on axis. Each low frequency transducer shall produce a Sound Pressure Level (SPL) of 96 dB SPL at a distance of 1 meter with an electrical power input of 1 Watt, and shall be capable of producing a maximum peak output of 127 dB SPL on axis at 1 meter.

Each low frequency transducer shall handle 300 Watts of amplifier power (per AES ref Standard AES2-1984-r2003) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall have a maximum weight of 49 lbs.(22.3 kg) and shall measure 10.97" (279 mm) wide at front, 5.31" (135 mm) in width at rear, 27.5" (699 mm) in height, and 11.5"(292 mm) in depth. The enclosure sides shall taper at 15° from a maximum frontal width, narrowing to the rear. The structure of the enclosure shall be constructed of 12-ply void-free birch hardwood plywood and shall have a weather and wear resistant ProCoat(tm) polyurea hybrid finish.

Input connectors shall be two, six-terminal barrier strips, wired together in parallel. For mono operation, the LF transducers shall be wired in parallel at the terminal strips. To achieve increased vertical directivity, multiple combinations of two way amplification and processing are possible. To reach the absolute maximum SPL, the loudspeaker may be wired in a three-way configuration to facilitate individual signal processing of each LF transducer.

A total of fourteen 3/8"-18 UNC threaded mounting/suspension points (four on top, four on bottom, two per side and two rear) shall be provided. Four additional mounting points shall be provided on the top, bottom, and each side configured to accept an OmniMount brand, Series 60 bracket.

Components in the front of the enclosure are to be protected by a curved grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.

The 2-way full range loudspeaker shall be the McCauley Sound model iD2.308-ML.