



OUTDOOR INSTALLATION OF LOUDSPEAKERS

ONE SYSTEMS® products are designed to be used in direct weather outdoor environments. Even with all of the substantial weather protection built into ONE SYSTEMS products it is still advisable to observe some basic and fundamental “rules” when installing loudspeakers outdoors.

If an option exists to provide shelter or an “overhang”, such as a roof eave it is always preferable to mount in that protected environment.

If the loudspeaker is mounted in a direct exposure, it is recommended that the loudspeaker be tilted down to minimize direct rain on the acoustically transparent grille assembly. This mild amount of tilt, 3 degrees to 5 degrees, will provide additional direct weather protection. Of course if the installation requires more down tilt to achieve a desired acoustic coverage the protection will be further improved.

This down tilt is particularly important in areas where ice and snow are expected. The down tilt will minimize the build up of ice on the grille.

ONE SYSTEMS enclosures are rated to IEC529 IP45. This rating implies that the enclosure is dust protected against all solid objects larger than 1mm (0.4 in) and protected against water jets from any direction. (The IP rating for the second digit of “5” rates the enclosure for water jets. The next step in the IP rating would be a “6” which implies “powerful” water jets. This distinction between “water jets” and “powerful water jets” is important and suggests that care should still be exercised when locating ONE SYSTEMS loudspeaker systems in extremely harsh environments where “powerful water jets” will be present)

In all cases when loudspeakers are installed outdoors, the supplied IPON connector, weather cover and gasket should be used.

It is advisable to insure good seals between all rigging hardware and the enclosure. In extreme situations RTV silicone may be applied at the interface between the rigging bolts and the enclosure.

All internal and external hardware on ONE SYSTEMS enclosures are either stainless steel or aluminum. All associated hardware (hardware not supplied by ONE SYSTEMS but used to suspend enclosures and rigging) should be stainless steel. The selection of associated rigging should be done by a professional that has experience suspending products and is familiar with local and national codes.

All cabling should be rated for direct weather exposure by the cable manufacturer.

Because outdoor environments present additional stress and potential long term structural compromises to all elements of the system (the enclosure and the associated rigging) regular inspections should be performed to verify adequate safety factors. These inspections should be performed yearly by a qualified professional with knowledge of local and national codes and requirements.

ONE SYSTEMS enclosures are molded using a resin specially formulated for outdoor exposure (molded enclosures) or painted both externally and internally to minimize moisture absorption (wood enclosures). Particularly with wood enclosures, any damage to the paint finish during installation should be repaired or sealed to prevent the possibility of moisture coming in direct contact with the bare wood surface.



One Systems USA, Inc. * 6204 Gardendale Dr. * Nashville, TN 37215
One Systems Group Co. Ltd. * European Division * Mittelsmoorer Strasse 12 * 28879 Grassberg German
One Systems Global Co., Ltd. * 87/114 Modern Town 15th Floor * Sukhumvit 63, Ekkamai Soi 3, Klongtoey, Bangkok, 1010 Thailand