

Section 27 11 00

COMMUNICATION EQUIPMENT ROOM FITTINGS

Section 27 11 16

Communications Cabinets, Racks, Frames and Enclosures

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. Provide all labor, materials, and equipment for the complete installation of work called for in the Contract Documents.

1.2 SCOPE OF WORK

- A. This section includes the minimum requirements for ceiling-mounted, floor-mounted and wall-mounted zone cabling and wireless enclosures for use as consolidation point enclosures, telecommunications enclosures, or wireless access point enclosures outside of communications equipment rooms.
- B. Included in this section are the minimum composition requirements and installation methods for the following:
 - 1. Enclosures, ceiling-mounted.
 - 2. Enclosures, floor-mounted.
 - 3. Enclosures, wall-mounted.

1.3 QUALITY ASSURANCE

- A. All cable and equipment shall be installed in a neat and workmanlike manner. All methods of construction that are not specifically described or indicated in the contract documents shall be subject to the control and approval of the Owner or Owner Representative. Equipment and materials shall be of the quality and manufacture indicated. The equipment specified is based upon the acceptable manufacturers listed. Where "approved equal" is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.
- B. Strictly adhere to all Building Industry Consulting Service International (BICSI), Electronic Industries Alliance (EIA) and Telecommunications Industry Association (TIA) recommended installation practices when installing communications/data cabling.
- C. Material and work specified herein shall comply with the applicable requirements of:
 - 1. *ANSI/TIA/EIA – 568-B Commercial Building Telecommunications Cabling Standard, 2000-2004*
 - 2. *TIA – 569-B Commercial Building Standard for Telecommunications Pathways and Spaces, 2004*

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3. ANSI/TIA/EIA – 606-A *Administration Standard for the Telecommunications Infrastructure of Commercial Buildings*, 2002
4. ANSI-J-STD – 607-A *Joint Standard for Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications*, 2002
5. NFPA 70 – *National Electric Code*, 2005
6. BICSI – *Telecommunications Distribution Methods Manual*, 10th Edition, 2003

1.4 SUBMITTALS

- A. Provide product data for the following:
 1. Manufacturers data sheets/cut sheets, specifications and installation instructions for all products (submit with bid).

PART 2 – PRODUCTS

1.0 Consolidation Point Enclosures

A. Consolidation Point Enclosures, Ceiling-Mounted

1. Ceiling-mounted consolidation point enclosures shall be manufactured from sheet aluminum, .06" thick.
2. Each enclosure will be rectangular in shape sized to replace a single 2' x 4' drop ceiling tile, or square in shape sized to replace a single 2' x 2' drop ceiling tile, as specified below.
3. When installed into the ceiling, the body of the enclosure will be located above the drop ceiling, suspended from the structural ceiling by threaded rods. The enclosure will include brackets for attaching threaded rods. One side of the enclosure will be flush with the drop ceiling. An access door on the flush surface will open into the work area below the drop ceiling providing access to equipment within the enclosure.
4. The access door will be fully hinged and will latch closed. On the larger 2' x 4' model, the access door will open slowly using pneumatic assist brackets. When the access door is open, the interior of the enclosure (usable space) will be no less than 10-1/2" deep. The outside of the access door will be recessed, allowing the ceiling tile to be inserted over the door to help disguise the enclosure when the access door is closed. The manufacturer will sell a compatible keyed lock set as a separate accessory.
5. The enclosure will include one or two removable support brackets for block-terminating hardware or for 19"EIA patch panels, as specified below. The brackets will be designed to attach to the access door and/or to the enclosure.

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6. Brackets for block terminating hardware will be removable flat metal panels with a minimum ½" standoff, each capable of supporting two 300-pair 110D-style termination blocks side-by-side. Approximate usable mounting surface is 19-1/2" by 13-1/2".
7. Brackets for 19"EIA patch panels will provide a minimum of four rack-mount spaces (RMU) for equipment. Equipment mounting holes will be EIA-310-D compliant with threaded #12-24 inserts spaced on 1-1/4" (wide) vertical centers. The manufacturer will sell compatible equipment-mounting screws as a separate accessory.
8. The enclosure will have a minimum of two cable access ports located on the sides of the enclosure. The ports will include approved fire-rated foam sealing kits. Cable tie points for securing cables will be located within the enclosure. The manufacturer will sell compatible cable management straps as a separate accessory.
9. Finish shall be epoxy-polyester hybrid powder coat (paint) in the color(s) specified below. Cable ports and mounting panels will be mill finish.
10. The enclosure shall be delivered fully assembled.
11. Load bearing capacity for the 2' x 4' enclosure will be 85 pounds. The access door will be capable of supporting 50 pounds of the total 85-pound load. Load bearing capacity for the 2' x 2' enclosure will be 70 pounds. The access door will be capable of supporting 20 pounds of the total 70-pound load. Load bearing capacity will be stated in the manufacturer's product literature.
12. The enclosure will be UL Listed for use within a plenum space. UL Listing will be stated in the manufacturer's product literature.
13. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Ceiling-Mounted Consolidation Point Enclosures

Part Number **A1222-LP**, Ceiling Enclosure, 2' x 2', 12" deep, with (1) removable mounting panel for block terminating hardware, White. UL Listed.

Part Number **A1224-LP**, Ceiling Enclosure, 2' x 4', 12" deep, with (2) removable mounting panels for block terminating hardware, White. **UL Listed.**

Part Number **A1222-PP**, Ceiling Enclosure, 2' x 2', 12" deep, with (1) removable 19"EIA x 4RMU equipment-mounting bracket for patch panels, White. UL Listed.

Part Number **A1224-PP**, Ceiling Enclosure, 2' x 4', 12" deep, with (2) removable 19"EIA x 4RMU equipment-mounting brackets for patch panels, White. **UL Listed.**

B. Consolidation Point Enclosures, Floor-Mounted

0. Floor-mounted consolidation point enclosures shall be manufactured from sheet aluminum, .06" thick.

- 0. Each enclosure will be square in shape and sized to fit under a single 2' x 2' raised floor tile.
- 0. When installed into the floor, the body of the enclosure will be located below the raised floor in the space between the raised floor tiles and the structural floor. The depth of the enclosure will not exceed the height of this space. The top of the enclosure will be flush with the raised floor. When necessary, the enclosure will be supported from the raised floor pedestals with included installation hardware. The raised floor tile will act as the cover for the enclosure.
- 0. The enclosure will include one or two 19"EIA equipment-mounting brackets for attaching patch panels into the enclosure, as specified below. The brackets will provide a minimum of two rack-mount spaces (RMU) for equipment. Equipment mounting holes will be EIA-310-D compliant and threaded #12-24 on 1-1/4" (wide) vertical centers. The manufacturer will sell compatible equipment-mounting screws as a separate accessory.
- 0. The enclosure will have a minimum of four cable access ports located on the sides of the enclosure. The ports will include approved fire-rated foam sealing kits. Cable tie points for securing cables will be located within the enclosure. The manufacturer will sell compatible cable management straps as a separate accessory.
- 0. Finish shall be mill finish.
- 0. The enclosure shall be delivered fully assembled.
- 0. The enclosure will be UL Listed for use within a plenum space. UL Listing will be stated in the manufacturer's product literature.
- 0. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Floor-Mounted Consolidation Point Enclosures

Part Number **A0222-RF**, Raised Floor Enclosure, 2' x 2', 2" deep, with (2) pivoting 19"EIA x 1RMU equipment-mounting brackets for patch panels, mill finish. UL Listed. *Note: A0222-RF does not include raised floor mounting brackets (P/N RF-BRACKET).*

Part Number **A0422-RF**, Raised Floor Enclosure, 2' x 2', 4" deep, with (2) pivoting 19"EIA x 1RMU equipment-mounting brackets for patch panels, mill finish. UL Listed.

Part Number **A0622-RF**, Raised Floor Enclosure, 2' x 2', 6" deep, with (2) pivoting 19"EIA x 2RMU equipment-mounting brackets for patch panels, mill finish. UL Listed.

Part Number **A0822-RF**, Raised Floor Enclosure, 2' x 2', 8" deep, with (2) pivoting 19"EIA x 4RMU equipment-mounting brackets for patch panels, mill finish. UL Listed.

Part Number **A1422-RF**, Raised Floor Enclosure, 2' x 2', 14" deep, with (1) fixed 19"EIA x 11RMU equipment-mounting bracket for patch panels, mill finish. UL Listed.

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Part Number **A0822-RF-F**, Raised Floor Enclosure, 2' x 2', 8" deep, with (1) fixed 19"EIA x 4RMU equipment-mounting bracket (removable) for fiber enclosures, mill finish. **UL Listed.**

C. Equipment-Mounting Hardware for Ceiling-Mounted Enclosures:

1. Provide equipment-mounting hardware, if required, to attach equipment to the threaded equipment mounting rails in the enclosure.
2. Equipment mounting hardware will be combination pan head, pilot point mounting screws, threaded #12-24, and 5/8" long.
3. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Equipment Mounting Hardware

Part Number **40605-001**, Hardware Kit for Threaded Mounting Rails, 12-24 Screws, Package of 50, Zinc.

2.0 Telecommunications Enclosures

A. Telecommunications Enclosures, Ceiling-Mounted

1. Ceiling-mounted telecommunications enclosures shall be manufactured from sheet aluminum, .06" thick.
2. Each enclosure will be rectangular in shape sized to replace a single 2' x 4' drop ceiling tile, or square in shape sized to replace a single 2' x 2' drop ceiling tile, as specified below.
3. When installed into the ceiling, the body of the enclosure will be located above the drop ceiling, suspended from the structural ceiling by threaded rods. The enclosure will include brackets for attaching threaded rods. One side of the enclosure will be flush with the drop ceiling. An access door on the flush surface will open into the work area below the drop ceiling providing access to equipment within the enclosure.
4. The access door will be fully hinged and will latch closed. On the larger 2' x 4' model, the access door will open slowly using pneumatic assist brackets. When the access door is open, the interior of the enclosure (usable space) will be no less than 10-1/2" deep. The outside of the access door will be recessed, allowing the ceiling tile to be inserted over the door to help disguise the enclosure when the access door is closed. The manufacturer will sell a compatible keyed lock set as a separate accessory.
5. The enclosure will include one or two pairs of equipment mounting brackets for 19"EIA equipment (patch panels and network switches). The brackets will be designed to attach to the access door and/or the enclosure. Each pair of brackets will provide four rack-mount spaces (RMU) for equipment. Equipment mounting holes will be EIA-310-D compliant with threaded #12-24 inserts spaced on 1-1/4" (wide) vertical centers. The manufacturer will sell compatible equipment-mounting screws as a separate accessory.
6. The enclosure will have a minimum of two cable access ports located on the sides of the enclosure and opposite the hinge side of the enclosure. The

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ports will include approved fire-rated foam sealing kits. Cable tie points for securing cables will be located within the enclosure. The manufacturer will sell compatible cable management straps as a separate accessory.

7. The enclosure will include one or two ventilation fans, as specified below. The access door will be vented. Air will enter the enclosure through vents in the access door. The fan(s) will expel air from the enclosure through the vents in the access door. Each fan will include a 115 VAC to DC power transformer.
8. The enclosure will have one or two integrated junction boxes, as specified below. Each junction box will be sized to accept two duplex receptacles each. Each junction box will be pre-punched with a 3/4" knockout for conduit.
9. The enclosure will have a bonding point consisting of two threaded studs spaced 5/8" apart for a two-hole compression style lug. The manufacturer will sell a compatible lug as a separate accessory.
10. Finish shall be epoxy-polyester hybrid powder coat (paint) in the color(s) specified below. Cable ports and mounting panels will be mill finish.
11. The enclosure shall be delivered fully assembled.
12. Load bearing capacity for the 2' x 4' enclosure will be 85 pounds. The access door will be capable of supporting 50 pounds of the total 85-pound load. Load bearing capacity for the 2' x 2' enclosure will be 70 pounds. The access door will be capable of supporting 20 pounds of the total 70-pound load. Load bearing capacity will be stated in the manufacturer's product literature.
13. The enclosure will be UL Listed for use within a plenum space. UL Listing will be stated in the manufacturer's product literature.
14. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Ceiling-Mounted Telecommunications Enclosures

Part Number **A1222-HR**, Ceiling Enclosure, 2' x 2', 12" deep, with (1) removable 19"EIA x 4RMU equipment-mounting bracket, one ventilation fan, one electrical junction box, and bonding point, White.
Part Number **A1224-HR**, Ceiling Enclosure, 2' x 4', 12" deep, with (2) removable 19"EIA x 4RMU equipment-mounting brackets, two ventilation fans, two electrical junction boxes, and bonding point, White.

B. Telecommunications Enclosures, Floor-Mounted

0. Floor-mounted telecommunications enclosures shall be manufactured from sheet aluminum, .06" thick.
0. Each enclosure will be square in shape and sized to fit under a single 2' x 2' raised floor tile.
0. When installed into the floor, the body of the enclosure will be located below the raised floor in the space between the raised floor tiles and the structural floor. The depth of the enclosure will not exceed the height of

this space. The top of the enclosure will be flush with the raised floor. When necessary, the enclosure will be supported from the raised floor pedestals with included installation hardware. The raised floor tile will act as the cover for the enclosure.

- 0. The enclosure will include two 19"EIA equipment-mounting brackets for attaching patch panels and network switches into the enclosure. The brackets will be attached to a lift-out tray that rests completely inside the enclosure. The brackets will provide four rack-mount spaces (RMU) for patch panels and two rack-mount spaces for equipment. Equipment must be less than 14" deep. Equipment mounting holes will be EIA-310-D compliant and threaded #12-24 on 1-1/4" (wide) vertical centers. The manufacturer will sell compatible equipment-mounting screws as a separate accessory.
- 0. The enclosure will have a minimum of two cable access ports located on the sides of the enclosure. The ports will include approved fire-rated foam sealing kits. Cable tie points for securing cables will be located within the enclosure. The manufacturer will sell compatible cable management straps as a separate accessory.
- 0. The enclosure will include one ventilation fan. Air will enter the enclosure through a vent on the side opposite the fan. The fan will expels air through a vent on the side of the enclosure. The fan will include a 115 VAC to DC power transformer.
- 0. The enclosure will include a junction box punched to accept one duplex receptacle.
- 0. The enclosure will have a bonding point consisting of two threaded studs spaced 5/8" apart for a two-hole compression style lug. The manufacturer will sell a compatible lug as a separate accessory.
- 0. Finish shall be mill finish.
- 0. The enclosure shall be delivered fully assembled.
- 0. The enclosure will be UL Listed for use within a plenum space. UL Listing will be stated in the manufacturer's product literature.
- 0. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Floor-Mounted Telecommunications Enclosure

Part Number **A1411-RF-HR**, Raised Floor Enclosure, 2' x 2', 14" deep, with (1) removable 19"EIA x 6RMU equipment-mounting tray, one ventilation fan, one electrical junction box, and bonding point, mill finish. UL Listed.

C. Equipment-Mounting Hardware for Ceiling-Mounted Enclosures:

- 0. Provide equipment-mounting hardware, if required, to attach equipment to the threaded equipment mounting rails in the enclosure.

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0. Equipment mounting hardware will be combination pan head, pilot point mounting screws, threaded #12-24, and 5/8" long.

0. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Equipment Mounting Hardware

Part Number **40605-001**, Hardware Kit for Threaded Mounting Rails,
12-24 Screws, Package of 50, Zinc.

3.0 Wireless Enclosures

A. Wireless Enclosures, Ceiling-Mounted (AAT-CAP)

0. Ceiling-mounted wireless enclosures shall be manufactured from sheet aluminum, .06" thick.

0. Each enclosure will be rectangular in shape sized to fit within a single 2' x 2' drop ceiling tile, as specified below.

0. When installed into the ceiling, the body of the enclosure will be located above the drop ceiling supported from the ceiling tile support grid with included support brackets. One side of the enclosure will be flush with the drop ceiling. An access door on the flush surface will open into the work area below the drop ceiling providing access to equipment within the enclosure.

0. The access door will be fully hinged and will lock in the closed position. The access door will have an interchangeable (removable) faceplate. Faceplates will be punched with a slot and/or hole pattern to allow the antennas of wireless access point to extend below the enclosure. The wireless access point will be secured to the door with an adjustable bracket included with the enclosure, straps or hardware. The manufacturer will sell several styles of compatible faceplates as separate accessories.

0. The enclosure will have a single cable access port located on the side of the enclosure and opposite the hinge side of the access door. The ports will include approved fire-rated foam sealing kits. Cable tie points for securing cables will be located within the enclosure and on the access door. The manufacturer will sell compatible cable management straps as a separate accessory.

0. The enclosure will have an optional integrated junction box sized to accept two duplex receptacles. The junction box will be pre-punched with a 7/8" knockout for trade size 1/2" conduit.

0. Enclosures with the optional integrated junction box will have a bonding point consisting of two threaded studs spaced 5/8" apart for a two-hole compression style lug. The manufacturer will sell a compatible lug as a separate accessory.

0. Finish shall be epoxy-polyester hybrid powder coat (paint) in the color(s) specified below. Cable ports and mounting brackets will be mill finish.

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- 0. The enclosure shall be delivered fully assembled. Access doors will be sold separately or included in a kit with the enclosure.
- 0. The enclosure will be UL Listed for use within a plenum space. UL Listing will be stated in the manufacturer's product literature.
- 0. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Ceiling-Mounted Wireless Enclosures

Part Number **AAT-CAP**, Wireless Enclosure, 14-1/2" wide by 12" long, 10" deep, no faceplate, no electrical junction box, no bonding point, White. UL Listed.

Part Number **AAT-CAP-10-P**, Wireless Enclosure, 14-1/2" wide by 12" long, 10" deep, no faceplate, electrical junction box, bonding point, White. UL Listed.

Part Number **AAT-CAP-S**, Wireless Enclosure, 14-1/2" wide by 12" long, 5" deep, no faceplate, no electrical junction box, no bonding point, White. UL Listed.

Part Number **AAT-CAP-00**, Blank faceplate (no holes), White.

Part Number **AAT-CAP-UNI**, Universal faceplate (one large slot with brushed cover), White.

Part Number **AAT-CAP-35**, Faceplate for Cisco Aironet 350 wireless access point or bridge, White.

Part Number **AAT-CAP-11**, Faceplate for Cisco Aironet 1100 wireless access point, White.

Part Number **AAT-CAP-12**, Faceplate for Cisco Aironet 1200 wireless access point, White.

Note: Cisco Aironet 1100 will not fit inside an AAT-CAP-S enclosure. Use faceplate AAT-CAP-11 with the AAT-CAP enclosure. Cisco and Aironet are registered trademarks of Cisco Systems, Inc.

Part Number **AAT-CAP-00-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 10" deep, with (1) removable blank faceplate (no holes), no equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-UNI-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 10" deep, with (1) removable universal faceplate (brushed slot), equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-35-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 10" deep, with (1) removable faceplate optimized for a Cisco Aironet 350 Wireless Access Point, with equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-11-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 10" deep, with (1) removable faceplate optimized for a Cisco Aironet 1100 Wireless Access Point, no equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-12-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 10" deep, with (1) removable faceplate optimized for a Cisco Aironet 1200 Wireless Access Point, with equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-S-00-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 5" deep, with (1) removable blank faceplate (no holes), no equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-S-UNI-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 5" deep, with (1) removable universal faceplate (brushed slot), equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-S-35-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 5" deep, with (1) removable faceplate optimized for a Cisco Aironet 350 Wireless Access Point, with equipment-mounting bracket, no electrical junction box, and no bonding point, White.

Part Number **AAT-CAP-S-12-KIT**, Wireless Enclosure, 14-1/2" wide by 12" long, 5" deep, with (1) removable faceplate optimized for a Cisco Aironet 1200 Wireless Access Point, with equipment-mounting bracket, no electrical junction box, and no bonding point, White.

B. Wireless Enclosures, Ceiling-Mounted (AAT-ACE-DOME)

0. Ceiling-mounted wireless enclosures shall be manufactured from sheet aluminum, .06" thick.
0. Each enclosure will be rectangular in shape sized to replace a single 2' x 2' drop ceiling tile, as specified below.
0. When installed into the ceiling, the body of the enclosure will be located above the drop ceiling supported from the structural ceiling by threaded rods. The enclosure will include brackets for attaching threaded rods. One side of the enclosure will be flush with the drop ceiling. An access door on the flush surface will open into the work area below the drop ceiling providing access to equipment within the enclosure.
0. The access door will be fully hinged and will lock in the closed position. The access door will have a 14" diameter half sphere "dome" located in the center of the door. The sphere will project into the workspace approximately 6-1/2" below the drop ceiling tiles. The sphere will be opaque plastic, white in color.
0. The wireless access point will be attached to a removable 6-7/8" by 8-7/8" back plate. The back plate will attach to the back of the enclosure on standoffs so that the wireless access point is suspended within the half sphere "dome" at the center of the access door. There are no openings in the enclosure or the door for antennas to project outside of the enclosure.
0. The enclosure will have a single cable access port located on the side of the enclosure. The port will include an approved fire-rated foam sealing kit. Cable tie points for securing cables will be located within the enclosure. The manufacturer will sell compatible cable management straps as a separate accessory.
0. Finish shall be epoxy-polyester hybrid powder coat (paint) in the color(s) specified below. Cable port and threaded rod brackets are mill finish. Back plate and dome are white plastic.

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- 0. The enclosure shall be delivered fully assembled.
- 0. The enclosure will be UL Listed for use within a plenum space. UL Listing will be stated in the manufacturer's product literature.
- 0. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Ceiling-Mounted Wireless Enclosures

Part Number **AAT-ACE-DOME**, Wireless Enclosure, 2' x 2', 3" deep, with 14" diameter by 6-1/2" high dome, and (1) removable 6-7/8" x 8-7/8" equipment-mounting back plate, White. UL Listed.

C. Wireless Enclosures, Wall-Mounted, Outdoor/Industrial/Warehouse Use (AAT-MWME-P, AAT-WMESG-P, AAT-WME-P)

- 0. Wall-mounted wireless enclosures shall be manufactured from fiberglass-reinforced polyester.
- 0. Each enclosure will be rectangular in shape. The enclosures will be sized as specified below.
- 0. The access door will be fully hinged and will latch in the closed position. Latches will accept padlocks to secure the enclosure. Access doors may be solid or have a tinted window, as specified below.
- 0. The enclosure will include a removable back plate, sized as specified below. The back plate will attach to the back of the enclosure. There are no openings in the enclosure or the door for antennas to project outside of the enclosure.
- 0. The enclosure will have no cable access ports. All penetrations will be made in the field by the installer. The enclosure will be NEMA rated: NEMA 1, NEMA 3R, NEMA 4X, NEMA 6P, and NEMA 12. The enclosure may be used outdoors or in a light industrial/warehouse environment. The enclosure should not be submerged.
- 0. Finish is gray. Optional tinted window for door is bronze acrylic.
- 0. The enclosure shall be delivered fully assembled.
- 0. The enclosure will be UL Listed for use within a plenum space. UL Listing will be stated in the manufacturer's product literature.
- 0. Design Make:
Chatsworth Products, Inc. (CPI),
Zone Cabling Enclosures
Ceiling-Mounted Wireless Enclosures

Part Number **AAT-WMESG-P**, Wireless Enclosure, Wall Mounted, with tinted door window, 15-1/2" high by 13-1/2" wide by 6" deep, 5" deep interior, 13-1/4" long by 11-1/8" wide removable back plate, Gray.

Part Number **AAT-WME-P**, Wireless Enclosure, Wall Mounted, with solid door, 15-1/2" high by 13-1/2" wide by 6" deep, 5" deep interior, 13-1/4" long by 11-1/8" wide removable back plate, Gray.

Part Number **AAT-MWME-P**, Wireless Enclosure, Wall Mounted, with solid door, 11-1/2" high by 9-1/2" wide by 4-1/2" deep, 3" deep interior, 8-7/8" long by 6-7/8" wide removable back plate, Gray.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Ceiling Enclosures

1. Attach the enclosure to the ceiling so that the access door can be opened fully without obstruction by other building, storage or architectural components. Locate the enclosure near the center of the cabling zone. The enclosure should be positioned so that access to the enclosure does not require movement of furnishings and so that disturbance in the workspace is minimized. The ceiling space must provide sufficient height for the enclosure. Access to the enclosure through surrounding ceiling tiles should also be considered when selecting location of the enclosure.
2. Follow the manufacturer's installation instructions when securing the enclosure to the ceiling and installing equipment. The enclosure must be attached to building structure with threaded rods and cannot be supported by the drop ceiling grid (t-bars) or tiles unless the enclosure is provided with brackets specifically for this purpose. Use 3/8" hardware or appropriate hardware as defined by local code or the authority having jurisdiction to secure the enclosure to building structure. Auxiliary framing may be required to position the enclosure as desired. The body of the enclosure should be above the drop ceiling tiles. The access door of the enclosure should be flush with the drop ceiling grid. Seal the cable port(s) with the included foam sealing kit(s) per instructions in plenum ceilings used as air handling spaces.

Note: Seismic installations require additional bracing of enclosures and overhead cable runways to building structure as advised by and certified by a licensed structural engineer.

B. Raised-Floor Enclosures

0. Select a position for the raised floor enclosure where the enclosure (tile over the enclosure) can be opened fully without obstruction by other building, storage or architectural components. Location should be central within the cabling zone. The enclosure should be positioned so that access to the enclosure does not require movement of furnishings and so that disturbance in the workspace is minimized. The floor space must provide sufficient depth for the enclosure. Access to the enclosure through surrounding raised floor tiles should also be considered when selecting location of the enclosure.
0. Follow the manufacturer's installation instructions when securing the enclosure to the floor or raised floor pedestals and installing equipment. The body of the enclosure should be below the raised floor tiles. The raised floor tile above the enclosure serves as the cover for the enclosure and should be

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flush with the floor. Seal the cable port(s) with the included foam sealing kit(s) per instructions in raised floor plenums used as air handling spaces.

Note: Seismic installations require additional bracing of enclosures to building structure as advised by and certified by a licensed structural engineer.

Wall-Mount Enclosures

1. Select a location for the wall-mount enclosure where the enclosure can be opened fully without obstruction by other building, storage or architectural components. Location should be central within the cabling zone. The enclosure should be positioned so that access to the enclosure does not require movement of furnishings and so that disturbance in the workspace is minimized.
2. Follow the manufacturer's installation instructions when securing the enclosure to the wall and installing equipment.