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# Compass™

## Specifications

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**Designer**  
Entro Communications

## OVERVIEW

The Compass™ Media Tower System offers convenience outlets that provide a ready source of AC and 5 VDC power for common personal electronic devices often carried by travelers (laptop computers, DVD players, Blackberries, iPods, digital cameras, etc). The user will access the power through modules within the main beam's structure.

Compass™ Media Tower will consist of an extruded aluminum main beam with decorative, removable, contoured cladding. Dual receptacles for VAC and two 5 VDC power sources provided through USB receptacles are harmoniously integrated into the main vertical beam system. The Freestanding tower can be mounted directly to the floor using suitable anchor bolts, or can be used with any Arconas Cluster seating system. The Freestanding towers are designed to provide a functional work surface and charging station for public spaces, while the Compass cluster system provides the convenience of integrated six seat cluster seating with a table surface.

Both Compass™ cluster and freestanding media towers offers a total of six public use standard 3-pin duplex receptacle to provide 120 VAC, three standard 3-pin duplex receptacles used to service power for TV, Monitors and Flight information Display Systems (FIDS), and six 5 VDC USB receptacles. The freestanding tower will have an option of a blue LED accent lighting strip.

## FEATURES

### Electrical Connections

- Electrical connections
- Compass™ Media Tower System will be connected using a hard wired connection point or plugged in directly to the nearest wall or floor receptacle to provide power.
- AC Outlet Connections
  - North American – Duplex NEMA 5-15R (3 prong including ground)
- Power Capacity
  - 120 VAC 12 A
  - 5VDC 750 mA max for each USB receptacle

### Protection

- Inlet power limit: re-settable thermal circuit breaker
  - North America 12 Amp

### Environmental Conditions

- Temperature range 0° to 40° C
- Humidity 0 to 95% non-condensing
- Indoor use

### Construction

- The Compass™ Media Tower System will be based on 5.5" (140mm) diameter aluminum extruded central beam system with removable decorative aluminum cladding. The central beam will have channels within to allow for 5/16-18UNC hammer head nut fasteners. All table works surfaces, signage and TV monitor mounts will be mounted to the central beam using the aforementioned 5/16-18UNC hammer head nuts, or comparable slot fasteners. All electrical wires will be concealed in a ground bonded cold rolled steel race way. All wire harness connections will be 14 gauge AWG using Molex connector plugs and receptacles.

### Approvals

- All components are field inspected National Electric Code (NEC) /Canadian electrical Code (CEC)

### Design Details

- Overall height of Freestanding and Cluster Compass™ Media Tower will be 107.5" (2730mm) above finish floor.
- Freestanding floor base plate will be 3/8" thick Cold rolled steel plate with 5/8" dia. thru holes for suitable floor mount fasteners.
- Maintenance by user and operator limited to re-setting breakers, use of damp microfiber cloth to clean any exterior surfaces.
- Tables used to mount Compass™ Media Tower to Arconas cluster seating systems will consist of three individual pie shape table surfaces that surround the main vertical beam and cladding.
- Three steel Outrigger weldments will be used to adapt the Compass™ Media Tower to any existing Arconas cluster seating systems.
- Please refer to Arconas cluster seating specifications documents for any specifications needed regarding cluster seating units.

### Tables

- Freestanding Compass™ Media Tower " Baltic birch with plastic laminate or 3/4" (20 mm) plastic Phenolic surface with special embedded nuts for easy assembly. Tables are 32" wide at a height of 36" (914mm) above finished floor. Table supports will be three brushed stainless steel weldments that are concentrically attached to the main vertical beam extrusion using 5/16-18UNC hammer head nut fasteners, or comparable slot fasteners.

### Finishes

- All aluminum cladding will be clear anodized .0006
- Steel Part - Powder Coating
- Stainless steel table supports - brushed XL blend S' finish

### Assembly

- Units are shipped partially knocked-down (KD) and will be accompanied by detailed assembly instructions for ease of assembly in field.

### Specifications for aluminum extrusions

- All aluminum alloy extrusions exhibit the following minimum properties

Tensile Strength	37,700 PSI
Yield Strength	34,800 PSI
Elongation:	8.0%
Brinell Hardness:	95 (500 kg load 10 mm ball)

### Specifications for steel

– The steel in the Compass™ Media Tower exhibits the following minimum properties.

Tensile Strength:	64,000 PSI
Yield Strength:	50,000 PSI
Elongation:	39.0%
Hardness (Rockwell B):	131
Thickness:	125 in (11 Ga)

### Typical Dimensions

Depth of Freestanding unit	38" (965 mm)
Depth of Cluster unit	94" (2388 mm)
Height of Freestanding unit	107 1/2" (2730 mm)
Height of Cluster unit	107 1/2" (2730 mm)
Width Freestanding unit	38" (965 mm)
Width Cluster unit	107" (2718 mm)

