

SPECIFICATION FOR STANDARD EQUIPMENT RACK AND ACCESSORIES

1. General

The rack shall be suited for housing instrumentation and electrical equipment. Standard, off the shelf hardware is specified (no custom features for protection from EMI, weather, corrosive, or seismic conditions are specified). The rack will be installed in an air conditioned environment. Conduit and cable tray connections will be made after installation. The rack may be used as a stand alone rack or ganged side by side with other racks. Construction is of welded, painted steel.

The standard rack, as described below, shall be composed of : vertical frame, removable top panel, exhaust fan with guard, ground bus bar, louvered rear door with filter frames and filters, transparent front door or panels, two pairs of tapped mounting angles, two pairs of clearance hole mounting angles, and a power strip. Metal surfaces shall have a textured finish, color Bright Blue matching Federal Std #595A color #25102.

Frame:	Vertical, constructed of welded, painted steel, for standard 19 inch rack/panel mount, nominal overall dimensions: 85 inches high, 22 inches wide, 31 or 38 inches deep. Supplied with two pairs of panel mounting angles tapped with 10-32 holes on EIA standard spacing.
Top:	Removable top panel, 14 gauge steel
Bottom:	Suitable for bolting to floor or supporting casters, approximate 100 sq. in. opening for under floor wiring access.
Sides:	Closed with side panels for stand alone cabinet, side panels are not used for side by side ganging.
Internal:	Two pairs of mounting angles provided, drilled and tapped with 10-32 holes on standard EIA pattern. Positioned in front and back of rack for supporting standard 19 inch panels or doors. Additional mounting angles may be positioned anywhere from the front to the back of the cabinet.
Doors:	Recessed, mounted on quick release hinges, keyed latch, recessed handle, right hinged unless otherwise specified. Rear doors shall have bottom ventilation louvers with filter frames. Specify if locks on all doors of a particular group of racks should be keyed alike.
Panel space:	Front and back: 77 inches high by 19 inches wide.
Cooling:	Top mounted exhaust fan
Ground Bus:	Copper ground bus bar

2. Components and Accessories

The Spartan series racks and rack components manufactured by the Premier Metal Product Co. represent the required functionality, appearance, and quality of this equipment. Offers for alternate products shall provide equivalent features including:

- (a) Mechanical and structural characteristics of the rack frame, including metal gauges, bracing, weld quality, fasteners, and dimensional tolerances.
- (b) Ease of operation of moving parts such as doors and sliding shelves.
- (c) Electrical characteristics of power strips and fans.
- (d) Appearance and surface finish.

Following is a list of standard components and accessories with Premier Metal Product Co. part numbers:

Component	Model #	Description
Vertical Frame	SVF-7719-29, with modification #007 for drop in top panel, paint color #551	Vertical frame for 77" high (panel space) by 19" wide panel space and 29" depth, includes two pairs of mounting angles with 10-32 tapped holes on standard EIA spacing. <u>Does not include side panels or doors.</u>
Top Panel	FP-2119	Drop in top panel for 29" depth cabinet, 14 gauge steel
Vertical Frame	SVF-7719-36, with modification #007 for drop in top panel, paint color #551	Vertical frame for 77" high (panel space) by 19" wide panel space and 36" depth, includes two pairs of mounting angles with 10-32 tapped holes on standard EIA spacing. <u>Does not include side panels or doors.</u>
Top Panel	FP-2619	Drop in top panel for 36" depth cabinet, 14 gauge steel
Door, metal, louvered	TVD-7719 louvered, with filter frames, paint color #551	Metal door, 77" high by 19" wide, right hinged (unless specified left), louvered bottom section for ventilation, with filter frames behind louvers, magnetic closure, recessed locking handle
Filter	FLT-6	Filter for metal louvered door
Door, transparent	TVD-P-7719 clear, paint color #551	Plexiglass door, clear, 77" high by 19" wide, right hinged (unless specified left), magnetic closure, recessed locking handle
Panel Mounting Angles	PMAT-772	1-1/4 X 1-1/4 inches, steel, for 77 inch panel height, tapped 10-32 holes on standard EIA spacing.
Fan	EF-750	Exhaust fan, 750 cfm
Fan Guard	GU-10	Fan guard for EF-750 fan
Power Strip	OB-119, paint color #551	Power outlet strip, 19 inch rack mount, 1-3/4 inches height, 15 amp at 125 VAC, with circuit breaker, 6 outlets, with 15 ft power cord rated 20 amps at 130 VAC.
Ganging kit	CGK-6	For ganging racks together
Ground bus bar	BB-77	Bus bar, copper, for 77 inch frame, 1/8 inch by 1 inch, tapped 10-32 holes.
Side Panel	TVP-7729, paint color #551	Side panels, one pair, for 29" depth frame
Side Panel	TVP-7736, paint color #551	Side panels, one pair, for 36" depth frame
Fan	EF-400	Exhaust fan, 400 cfm
Fan Guard	GU-8	Fan guard for EF-400 fan
Fan	EF-300	Exhaust fan, 550 cfm
Fan Guard	GU-6	Fan guard for EF-300 fan
Fan	EF-220	Exhaust fan, 220 cfm

Component	Model #	Description
Fan Guard	GU-6	Fan guard for EF-220 fan
Fan	EF-165	Exhaust fan, 165 cfm
Fan Guard	GU-6	Fan guard for EF-165 fan
Power Strip	OB-112	Power outlet strip, 15 amp at 130 VAC, with circuit breaker, 6 outlets, 12-1/2 inches long for horizontal mounting, with 6 ft power cord rated 20 amps at 130 VAC.
Power Strip	OB-62-12	Power outlet strip, 15 amp at 130 VAC, with circuit breaker, 12 outlets, 62 inches long, for vertical mounting, with 6 ft power cord rated 20 amps at 130 VAC.
Writing Shelf	TWS-1918, paint color #551	Writing shelf, 19 inch rack mount, formica surface, uses 5 ¼ inches rack space, 1 bay width, 18 ½ inches deep
Writing Shelf	TWS-1938, paint color #551	Writing shelf, 19 inch rack mount, formica surface, uses 5 ¼ inches rack space, 2 bays width, 18 ½ inches deep
Writing Shelf	TWS-1957, paint color #551	Writing shelf, 19 inch rack mount, formica surface, uses 5 ¼ inches rack space, 3 bays width, 18 ½ inches deep
Writing Shelf	TWS-1976, paint color #551	Writing shelf, 19 inch rack mount, formica surface, uses 5 ¼ inches rack space, 4 bays width, 18 ½ inches deep
Sliding Shelf	RSS-1917, paint color #551	Sliding shelf, 1-3/4 inch panel height, for 19 inch rack, 17-7/8 inch depth
Sliding Shelf	RSS-1923, paint color #551	Sliding shelf, 1-3/4 inch panel height, for 19 inch rack, 21-7/8 inch depth
Sliding Shelf	RSS-1926, paint color #551	Sliding shelf, 1-3/4 inch panel height, for 19 inch rack, 23-7/8 inch depth
Sliding Shelf	RSS-1929, paint color #551	Sliding shelf, 1-3/4 inch panel height, for 19 inch rack, 27-7/8 inch depth
Standard 19 inch Panel, 1-3/4 inches high	MAP-119	Panel, 1/8 inch masked aluminum, 19 inch wide by 3-1/2 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 3-1/2 inches high	MAP-319	Panel, 1/8 inch masked aluminum, 19 inch wide by 3-1/2 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 5-1/4 inches high	MAP-519	Panel, 1/8 inch masked aluminum, 19 inch wide by 5-1/4 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 7 inches high	MAP-719	Panel, 1/8 inch masked aluminum, 19 inch wide by 7 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 8-3/4 inches high	MAP-819	Panel, 1/8 inch masked aluminum, 19 inch wide by 8-3/4 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 10-1/2 inches high	MAP-1019	Panel, 1/8 inch masked aluminum, 19 inch wide by 10-1/2 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 12-1/4 inches high	MAP-1219	Panel, 1/8 inch masked aluminum, 19 inch wide by 12-1/4 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 14 inches high	MAP-1419	Panel, 1/8 inch masked aluminum, 19 inch wide by 14 inch high, , mounting holes on standard EIA spacing
Standard 19 inch Panel, 15-3/4 inches high	MAP-1519	Panel, 1/8 inch masked aluminum, 19 inch wide by 15-3/4 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 17-1/2 inches high	MAP-1719	Panel, 1/8 inch masked aluminum, 19 inch wide by 17-1/2 inch high, mounting holes on standard EIA spacing

Component	Model #	Description
Standard 19 inch Panel, 19-1/4 inches high	MAP-1919	Panel, 1/8 inch masked aluminum, 19 inch wide by 19-1/4 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 21 inches high	MAP-2119	Panel, 1/8 inch masked aluminum, 19 inch wide by 21 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 26-1/4 inches high	MAP-2619	Panel, 1/8 inch masked aluminum, 19 inch wide by 26-1/4 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 31-1/2 inches high	MAP-3119	Panel, 1/8 inch masked aluminum, 19 inch wide by 31-1/2 inch high, mounting holes on standard EIA spacing
Standard 19 inch Panel, 35 inches high	MAP-3519	Panel, 1/8 inch masked aluminum, 19 inch wide by 35 inch high, mounting holes on standard EIA spacing

Websites with information for components are listed below:

Vertical frames, doors, side panels found at Website:

http://www.premiermetal.com/Home/Product_Selection_Guide/Spartan_SVA_Series/Spartan_SVA_Specs/spartan_sva_specs.html

Fans found at Website:

http://www.premiermetal.com/Home/Product_Selection_Guide/Electronic_Enclosure_Accessori/Exhaust_fan/exhaust_fan.html

Power strip found at Website:

http://www.premiermetal.com/Home/Product_Selection_Guide/Electronic_Enclosure_Accessori/Outlet_Strips/outlet_strips.html

Writing shelf found at Website:

http://www.premiermetal.com/Home/Product_Selection_Guide/External_Writing_Shelves/external_writing_shelves.html

Standard colors chart found at Website:

http://www.premiermetal.com/Home/Color_Selector/color_selector.html

Sliding shelves at Website:

http://www.premiermetal.com/Home/Product_Selection_Guide/Electronic_Enclosure_Accessori/Stationary_shelves/stationary_shelves.html#sliding