



## Model No.

# LSER-4432

- **Seismic-certified floor rack**
- **44U x 32"D x 23.06"W**



The LSER is manufactured to meet or exceed requirements for Category 1 (Anchorage) and Category 2 (Anchorage & Rack) as specified in the International Building Code (IBC, 2009, section 1613), California Building Code (CBC, 2007, section 1613), and California Office of Statewide Health Planning and Development (OSHPD).

- **Category 1:** Racks identified as part of a Life Safety/Essential System (Ip=1.5). These racks are so designated and required in critical or essential facilities where operation and function following a major earthquake event is necessary.
- **Category 2:** Racks requiring seismic design 'Anchorage' by code (Ip=1.0) but NOT identified as a Life Safety/Essential System. These racks only require their supports and attachments (i.e. anchorage) to be seismically qualified and certified.
- **P.E. Certified Documentation:** The LSER rack ships with third party P.E. certified documentation which can also be downloaded from [www.lowellmfg.com](http://www.lowellmfg.com)

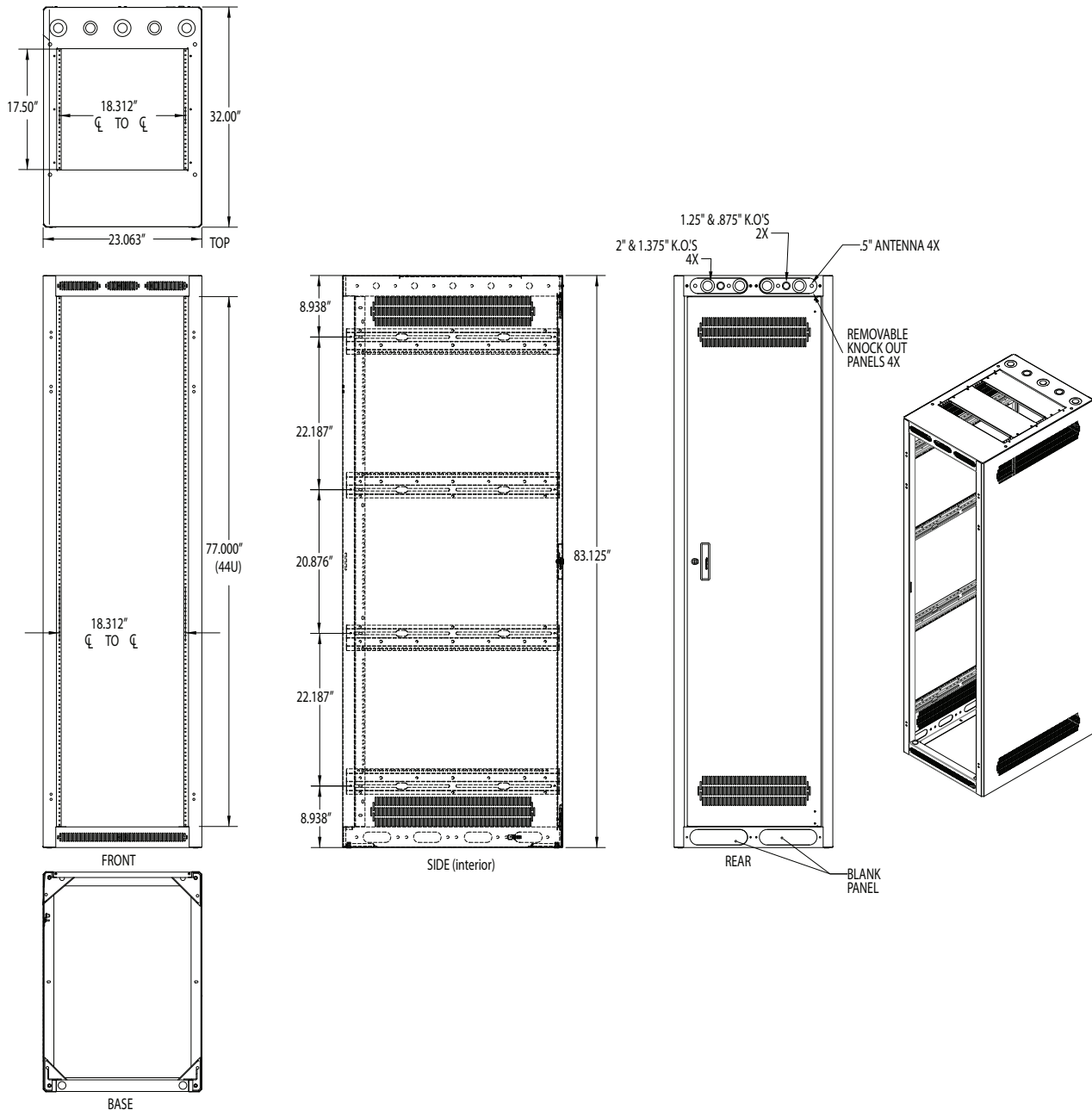
### Construction & Features

- **Frame:** Fully welded 16-ga. steel with 14-ga. base, reinforced at load-bearing junctions for strength equivalent to 11-ga. steel. Overall height is 83.125" (44U useable). Overall depth is 32" (29.34" useable).
- **Base:** 14-ga. steel frame with full size center opening, welded brackets in each corner, grounding stud, and holes for anchors (not included).
- **Top:** Features 10U opening with riveted rails tapped 10-32. Top can be closed with black steel panels (included as shipping stiffeners) or optional 19" accessories (ordered separately). Top also features 6"D rear plane with 3 combination knockouts for conduit (2"-1"), 2 for conduit (1.5"-1"), room to use a Greenlee style punch (for 4" conduit) plus 4 knockouts for BNC style wireless antennas (0.5").
- **Front:** Open front with beveled corners and vents above and below main opening. Clearance from rails to outside frame (flush) is 1.75." A surface-mount front door is available as an option (pg. 3).
- **Rear:** Includes recessed rear door with vents and key lock. Door can be omitted by ordering Model No. LSER-4432-LRD. Combination knockout panels above door include (.5") for wireless antennas, (.75"-.5") and (1.5"-1") for conduit. Blank project panels below door.
- **Welded Side Panels:** Vents at top and bottom are designed to mount optional fan kits (pg. 3)
- **Adjustable Rails:** Includes 2 pr. mounting rails tapped 10-32 with printed rack unit increments for quick set-up. Rails are fully adjustable and can be set anywhere along side rail supports.
- **Cable Management:** Combination knockouts above and below rear door.
- **Thermal Management:** Vents in sides, and rear door are made to accept optional fan kits (pg. 3)
- **Load Capacity:** 3150 lbs.
- **Compliance:** EIA/TIA/RoHS compliant, UL2416 Listed
- **Finish:** Black wrinkle powder epoxy
- **Hardware** PilotPoint™ screws with captive washers.

Options (order separately)

Pg. 3

## Technical Drawings



### A&E Specifications

The EIA/TIA/RoHS compliant floor rack shall be AVLELEC Model No. LSER-4432. Overall measurements shall be 83.125"H x 32"D x 23.06"W with panel space of 44 rack units. Load capacity shall be 3150 lbs. The rack shall include a recessed rear door with vents and key lock, welded side panels with vents, top with 10U opening and combination knockouts, open base with grounding stud and corner weldments, two pairs adjustable mounting rails with printed RU increments, combination knock-out panels above rear door, blank panels below rear door, and provisions to mount an optional surface-mount front door or middle rails (ordered separately). The rack shall be manufactured in the U.S.A. with certified U.S. steel and have a black wrinkle powder epoxy finish. It shall be UL Listed to UL2416 and shall meet or exceed requirements for Category 1 (Anchorage) and Category 2 (Anchorage & Rack) as specified in International Building Code (IBC, 2009, section 1613), California Building Code (CBC, 2007, section 1613), and California Office of Statewide Health Planning and Development (OSHPD). The rack shall include P.E. certified documentation.

## Options

**Front Door (LFD Series):** Surface-mount front door with key lock mounts left or right without drilling. Front rail clear-ance to inside of door is 2.5." Available in solid steel, fully vented steel or smoked plexiglass.

**Middle Rails (RRD-44):** 44U rails tapped 10-32 can be adjusted to mount anywhere along support brackets (1 pr).

**Rear Door Fan Panel (FW2-RD):** Mounts to vents in rear door or side panels. Includes two whisper fans with standard cord. (FW2-RDT): Cord has built-in thermostat.

**Single Fan Kit (FW1-KIT):** Whisper fan mounts to vents in rear door or side panels. Standard cord. (FW1-KITT): Cord with built-in thermostat.

**Magnetic Vent Blockers (MVB32):** Set of four magnetic strips to aid active thermal management, typically mounted on rack interior to cover front vent (at top of rack), rear vent (above door) and two side vents (at top of side panels).

## Model No. Summary

Model No.	Description	Panel Space	Overall Height	Overall Width	Overall Depth	Useable Depth
LSER-4432	Seismic-certified floor rack	44U	83.125"	23.06"	32.00"	29.34"
LSER-4432-LRD	Seismic-certified floor rack (less rear door)	44U	83.125"	23.06"	32.00"	29.34"
LFD-44	Solid front door					
LFD-44P	Smoked plexiglass front door					
LFD-44FV	Fully vented front door					
RRD-44	Adjustable rails (1 pr, 44U)					
FW2-RD	Rear door fan panel (2 whisper fans, standard cord)					
FW2-RDT	Rear door fan panel (2 whisper fans, thermostat in cord)					
FW1-KIT	Single fan kit (1 whisper fan, standard cord)					
FW1-KITT	Single fan kit (1 whisper fan, thermostat in cord)					
MVB32	Magnetic vent blocker kit					

1 rack unit (RU or U) = 1.75 inches or 44.45 mm.