



Model No. **LSGR-4422**

- **Seismic-certified gangable rack**
- **44U x 22”D x 23.06”W**

Seismic-certified gangable rack is Professional Engineer (P.E.) certified to meet or exceed seismic design requirements as specified in the 2009 International Building Code Section 1613; 2007 California Building Code Section 1613; and California’s Office of Statewide Health Planning and Development. Includes rear door. Front door is optional (order separately). UL 2416 Listed.

Construction & Features

- **Ships with P.E. Certified documentation** (also downloadable from lowellmfg.com)

Category 1: Racks identified as part of a Life Safety/Essential System ($I_p = 1.5$) are required in critical or essential facilities where operation and function following a major earthquake event is necessary. See IBC and CBC documentation.

Category 2: Racks requiring seismic design ‘Anchorage’ by code ($I_p = 1.0$), but NOT identified as a Life Safety/Essential System require their supports and attachments (i.e., Anchorage) to be seismically qualified and certified. See IBC, CBC and OSHPD documentation.

- **Frame:** Open frame with beveled corners is welded 16-ga. steel with seamless X-style construction and 14-ga. base with welded brackets in each corner and holes for anchors (not included), reinforced at load-bearing junctions for strength equivalent to 11-ga. steel. Overall height is 83.125”. Overall depth is 22”.
- **Front:** Front vents above and below main opening. Clearance from rails to outside frame is 1.75” (flush). A surface-mount front door is available as an option (pg. 3).
- **Rear:** Includes recessed rear door with vents and key lock. Knockout panels above door have (.5”) knockouts for wireless antennas and (.75-.5”; 1.5-1”) knockouts for conduit. Blank project panels below rear door.
- **Top:** Features combination knockouts in a 6” deep rear conduit plane with room to use a Greenlee-style punch for 4” conduit. Also features knockouts for wireless antennas (.5”). The 7U top opening has riveted rails tapped 10-32 to mount optional 19”W fan or vent panels, or close with solid black panels included with rack (shipped mounted to front of rack).
- **Base:** 14-ga. steel frame with full size center opening and 4”x1.5” side openings accommodates cabling between racks. Includes grounding stud. The base has provisions to mount anchor bolts (not included).
- **Adjustable Rails:** Includes 1 pr. mounting rails tapped 10-32 with printed rack unit increments. Rails are fully adjustable and can be set anywhere along side rail supports.



- **Cable Management:** Removable knockout panels with combination knockouts above/below rear door. Vertical array of 2” holes on sides of frame.
- **Thermal Management:** Vents in front frame and rear door.
- **Load Capacity:** see install documentation
- **Compliance:** EIA/TIA/RoHS compliant, UL 2416 Listed
- **Finish:** Black wrinkle powder epoxy
- **Hardware:** Pilot Point screws with captive washers.
- **Origin:** Made in the U.S.A. with certified U.S. steel

Options (order separately)

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A&E Specifications

The EIA/TIA/RoHS compliant, seismic-certified gangable rack shall be Lowell Model No. LSGR-4422 which shall include P.E. Certified documentation as specified in the 2009 International Building Code Section 1613, 2007 California Building Code Section 1613 and California's Office of Statewide Health Planning and Development. Overall measurements shall be 83.125"H x 22"D x 23.06"W with panel space of 44 rack units. The rack shall include a recessed rear door with vents and key lock; top with 7U opening and compound knockouts; open base with grounding stud and holes for anchor bolts (not included); one pair adjustable mounting rails with printed RU increments; knockout panels with combination knockouts above rear door; blank project panels below rear door; and provisions to mount an optional surface-mount front door (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 listed to UL 2416.

Options

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

Extra 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.

Model No. Summary

<i>Model No.</i>	<i>Description</i>	<i>Panel Space</i>	<i>Overall Height</i>	<i>Overall Width</i>	<i>Overall Depth</i>
Rack					
LSGR-4422	Seismic-certified gangable rack	44U	83.125"	23.06"	22"
Options					
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)				

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