Lowell™

*LWR-2119 shown*

# LWR Series

## Heavy Duty, Sectional Wall Rack

BIMModels Available Online

*19" & 23"D Models*

c UL us LISTED

*All Models*

MADE IN THE USA 100% CERTIFIED STEEL

TRADE AGREEMENTS ACT TAA COMPLIANT

BUY AMERICAN ACT BAA COMPLIANT

EIA TIA COMPLIANT

Stronger. Greener. Better. POWDER TOUGH COATED

| | |
|---|---|
| Panel Space: | 7, 10, 12, 16, 18, 21, 24, and 35U |
| Overall Depth: | 19.05" [484 mm], 23.05 [585], 28.05 [712], 32.05 [814] |
| Overall Width: | 23.06" [586 mm] |
| Load Capacity: | 125-300 lbs. [57-136 kg] (UL Listed) |

Wall rack features welded 16-gauge USA-certified steel backbox and front mounting section. Ships in two cartons so backbox can be field installed while front is loaded at the shop. Black-texture powder-coat finish.

## FEATURES

BACKBOX:

- 5.80"D with keyhole mounting slots on 16" centers
- 10"x10" opening accommodates electrical pull box
- 1/4-20 ground stud
- Embossed dimples on back plane for installation of board-mounted accessories
- Top and bottom have a knockout panel with combination EKOs for conduit (1/2"–3/4" and 1"–1-1/2") and KOs for wireless antennae (1/2").
- Side locks (2) are keyed differently than optional door.

FRONT MOUNTING SECTION:

- Features welded sides, fully-gusseted corners, triple formed (side-to-bottom, side-to-top) wrap design mounts to backbox from inside with 2 heavy duty (self seating, positive locking) spring-loaded L-pins (move pins to change swing orientation). Strength equivalent to 3/16" steel. Front and side vents. Beveled front corners. Roller closure keeps front closed without mandatory locking.
- Top/bottom KOs for wireless antennae and integral rails on EIA spacing for mounting or lacing.
- Rack Rails: One-pair 11-gauge steel rails with smooth-black finish, 10-32 threaded holes and numbered RU increments. Recessed 0.625”.

INSTALLATION: See technical drawing for minimum clearance needed to allow mounting section to swing open 90 degrees (+1" for optional door). Mounting section can swing open more than 90 degrees if room is provided.

HARDWARE: Black pilot point screws with captive washers and draw latch (one with 7-24U models or two with 32U models) are shipped with the mounting section.

COMPLIANCE: EIA/TIA Compliant; TAA Compliant; BAA Compliant; UL 2416 Listed in US and Canada (19"D and 23"D models);

OPTIONAL:

- Surface-mount front door: solid steel (LFD series), fully-vented steel (LFD--FV series), or smoked plexiglass (LFD--P series)
- Additional pair of mounting rails (RRD series)

*Draw latch may be used to pull and hold mounting section and backbox together.*

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## A&E SPECIFICATIONS

The EIA-compliant welded sectional wall rack shall be Lowell LWR-_____, which shall consist of a backbox and mounting sectionl. Overall measurements shall be _____"H x _____"D x 23.06"W , providing ____U panel space. The mounting section shall be _____"D with triple formed side-to-bottom, side-to-top wrapped construction to achieve strength equivalent to 3/16" thick steel. It shall feature side vents, one-pair adjustable mounting rails tapped 10-32, four knockouts for antennae (top and bottom), draw latch hole, and integral rails on EIA spacing (top and bottom). The mounting section shall attach to the backbox on the inside with two heavy duty, spring-loaded L-pins (self seating, positive locking), which can be attached on either side to alter swing orientation. The backbox shall be 5.80"D with mounting holes on 16" centers, a 10"x 10" rear opening, embossed dimples and lacing points on the back plane, knockout panels with combination knockouts (1/2"–3/4", and 1"–1-1/2"), mounting holes for draw latch(s), and keyed side lock(s). The rack shall be manufactured in the USA using USA-certified steel and have a black-textured powder-coat finish. It shall be Trade Agreement Act (TAA) compliant, and Buy American Act (BAA) compliant. It shall be UL 2416 Listed if overall depth is 19" or 23"D.

## OPTIONAL ACCESSORIES

- Solid steel surface-mount front door with key lock (LFD series)
- Smoked plexiglass surface-mount front door with key lock (LFD--P series)
- Fully-vented surface-mount front door with key lock (LFD--FV series)
- Additional pair of mounting rails (RRD series)
- Thermal management kit with two (2) whisper fans, vent blockers, and standard cord (FW2-KIT-VB)
- Thermal management kit with two (2) whisper fans, vent blockers, and thermostat cord (FW2-KITT-VB)

## LWR SERIES SUMMARY

| *Model No.* | *Rack Units* | *"A" Overall Depth* | *Usable Depth** | *"B" Overall Height* | *"C" Usable Height* | *Overall Width* | *"D" Mounting Section Depth* | *Load Capacity* | *Adjustable Rails* | *UL Listed* |
|---|---|---|---|---|---|---|---|---|---|---|
| LWR-719 | 7 U | 19.05 [484] | 16.00 [406] | 18.38 [467] | 12.25 [311] | 23.06 [586] | 13.06 [332] | 125 lbs | 1 pr | Yes |
| LWR-1019 | 10 U | 19.05 [484] | 16.00 [406] | 23.63 [600] | 17.50 [445] | 23.06 [586] | 13.06 [332] | 150 lbs | 1 pr | Yes |
| LWR-1219 | 12 U | 19.05 [484] | 16.00 [406] | 27.13 [689] | 21.00 [533] | 23.06 [586] | 13.06 [332] | 150 lbs | 1 pr | Yes |
| LWR-1619 | 16 U | 19.05 [484] | 16.00 [406] | 34.13 [867] | 28.00 [711] | 23.06 [586] | 13.06 [332] | 200 lbs | 1 pr | Yes |
| LWR-1819 | 18 U | 19.05 [484] | 16.00 [406] | 37.50 [953] | 31.50 [800] | 23.06 [586] | 13.06 [332] | 250 lbs | 1 pr | Yes |
| LWR-2119 | 21 U | 19.05 [484] | 16.00 [406] | 42.88 [1089] | 36.75 [933] | 23.06 [586] | 13.06 [332] | 250 lbs | 1 pr | Yes |
| LWR-2419 | 24 U | 19.05 [484] | 16.00 [406] | 48.13 [1223] | 42.00 [1067] | 23.06 [586] | 13.06 [332] | 300 lbs | 1 pr | Yes |
| LWR-3519 | 35 U | 19.05 [484] | 16.00 [406] | 67.38 [1711] | 61.25 [1556] | 23.06 [586] | 13.06 [332] | 300 lbs | 1 pr | Yes |
| LWR-723 | 7 U | 23.05 [585] | 20.00 [508] | 18.38 [467] | 12.25 [311] | 23.06 [586] | 17.06 [433] | 125 lbs | 1 pr | Yes |
| LWR-1023 | 10 U | 23.05 [585] | 20.00 [508] | 23.63 [600] | 17.50 [445] | 23.06 [586] | 17.06 [433] | 150 lbs | 1 pr | Yes |
| LWR-1223 | 12 U | 23.05 [585] | 20.00 [508] | 27.13 [689] | 21.00 [533] | 23.06 [586] | 17.06 [433] | 150 lbs | 1 pr | Yes |
| LWR-1623 | 16 U | 23.05 [585] | 20.00 [508] | 34.13 [867] | 28.00 [711] | 23.06 [586] | 17.06 [433] | 200 lbs | 1 pr | Yes |
| LWR-1823 | 18 U | 23.05 [585] | 20.00 [508] | 37.50 [953] | 31.50 [800] | 23.06 [586] | 17.06 [433] | 250 lbs | 1 pr | Yes |
| LWR-2123 | 21 U | 23.05 [585] | 20.00 [508] | 42.88 [1089] | 36.75 [933] | 23.06 [586] | 17.06 [433] | 250 lbs | 1 pr | Yes |
| LWR-2423 | 24 U | 23.05 [585] | 20.00 [508] | 48.13 [1223] | 42.00 [1067] | 23.06 [586] | 17.06 [433] | 300 lbs | 1 pr | Yes |
| LWR-3523 | 35 U | 23.05 [585] | 20.00 [508] | 67.38 [1711] | 61.25 [1556] | 23.06 [586] | 17.06 [433] | 300 lbs | 1 pr | Yes |
| LWR-1228 | 12 U | 28.05 [712] | 25.00 [635] | 27.13 [689] | 21.00 [533] | 23.06 [586] | 22.06 [560] | 200 lbs | 1 pr | --- |
| LWR-1628 | 16 U | 28.05 [712] | 25.00 [635] | 34.13 [867] | 28.00 [711] | 23.06 [586] | 22.06 [560] | 250 lbs | 1 pr | --- |
| LWR-1828 | 18 U | 28.05 [712] | 25.00 [635] | 37.50 [953] | 31.50 [800] | 23.06 [586] | 22.06 [560] | 250 lbs | 1 pr | --- |
| LWR-2428 | 24 U | 28.05 [712] | 25.00 [635] | 48.13 [1223] | 42.00 [1067] | 23.06 [586] | 22.06 [560] | 300 lbs | 1 pr | --- |
| LWR-1232 | 12 U | 32.05 [814] | 29.00 [737] | 27.13 [689] | 21.00 [533] | 23.06 [586] | 26.60 [662] | 200 lbs | 1 pr | --- |
| LWR-1632 | 16 U | 32.05 [814] | 29.00 [737] | 34.13 [867] | 28.00 [711] | 23.06 [586] | 26.60 [662] | 250 lbs | 1 pr | --- |
| LWR-1832 | 18 U | 32.05 [814] | 29.00 [737] | 37.50 [953] | 31.50 [800] | 23.06 [586] | 26.60 [662] | 250 lbs | 1 pr | --- |
| LWR-2432 | 24 U | 32.05 [814] | 29.00 [737] | 48.13 [1223] | 42.00 [1067] | 23.06 [586] | 26.60 [662] | 300 lbs | 1 pr | --- |

**Usable Depth allows partial extension of equipment into backbox. Rack dimensions (rounded) – inches and [mm]; 1U = 1.75"*

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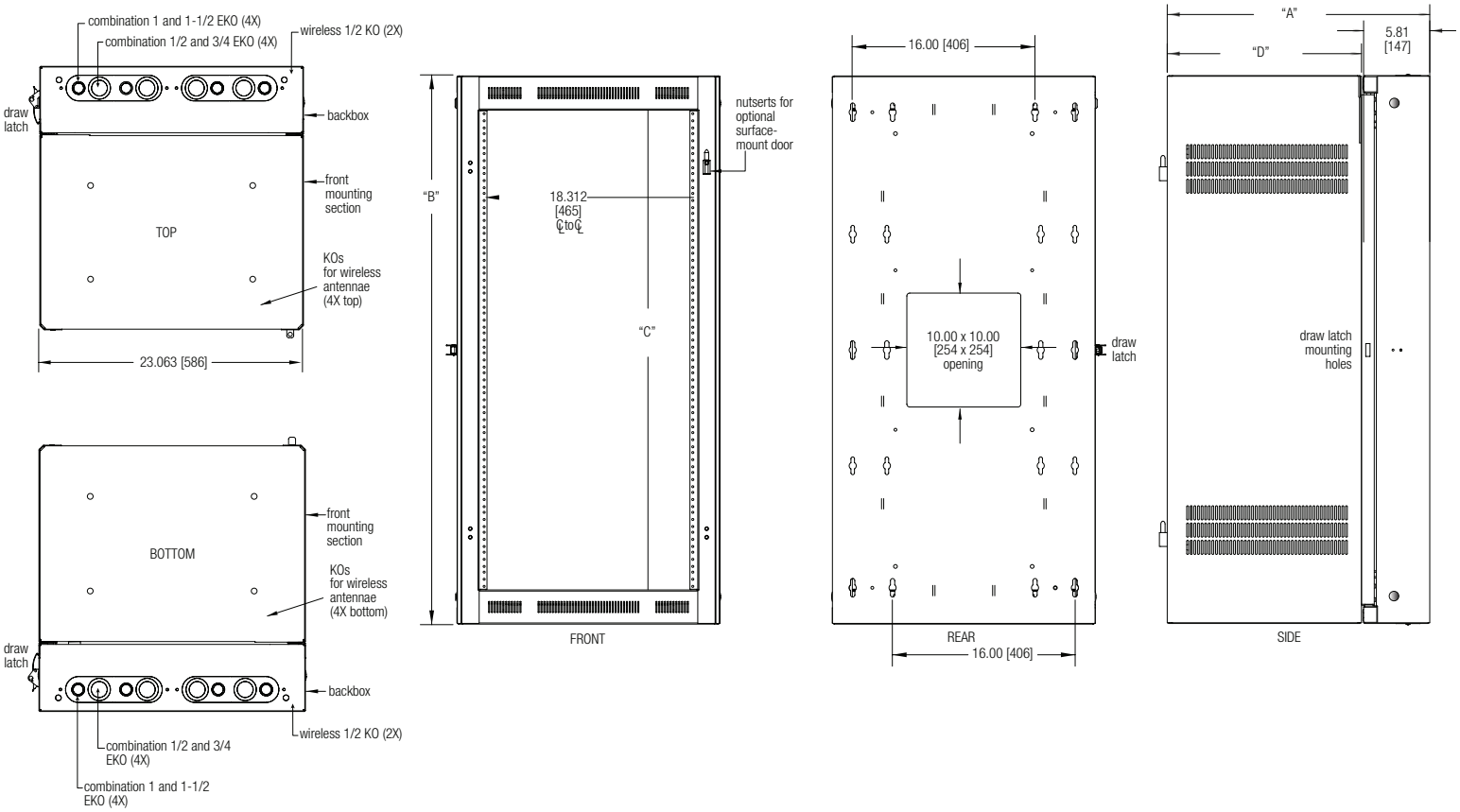
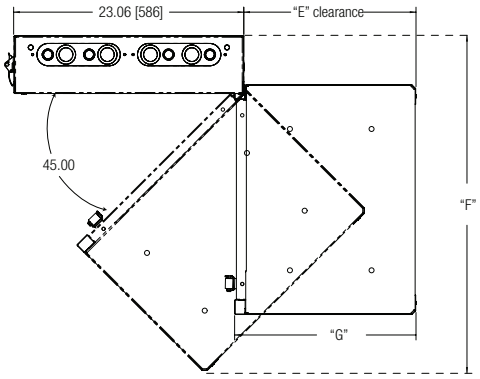
# TECHNICAL DRAWINGS

*Dimensions are inches and [mm] unless stated otherwise.*




- Allow additional 1" for optional door depth
- Allow sufficient clearance to access side locks (5")

**CORNER INSTALL DETAIL (19"D rack)**

- "E" minimum clearance to open 90 degrees = 13.26" [337]
- "F" minimum clearance to open 45 degrees = 31.03" [788]
- "G" overall mounting section depth = 14.18" [360]

**CORNER INSTALL DETAIL (23"D rack)**

- "E" minimum clearance to open 90 degrees = 17.26" [438]
- "F" minimum clearance to open 45 degrees = 33.87" [860]
- "G" overall mounting section depth = 18.18" [462]

**CORNER INSTALL DETAIL (28"D rack)**

- "E" minimum clearance to open 90 degrees = 22.26" [565]
- "F" minimum clearance to open 45 degrees = 37.87" [860]
- "G" overall mounting section depth = 23.18" [589]

**CORNER INSTALL DETAIL (32"D rack)**

- "E" minimum clearance to open 90 degrees = 26.26" [667]
- "F" minimum clearance to open 45 degrees = 40.20" [1021]
- "G" overall mounting section depth = 27.18" [690]

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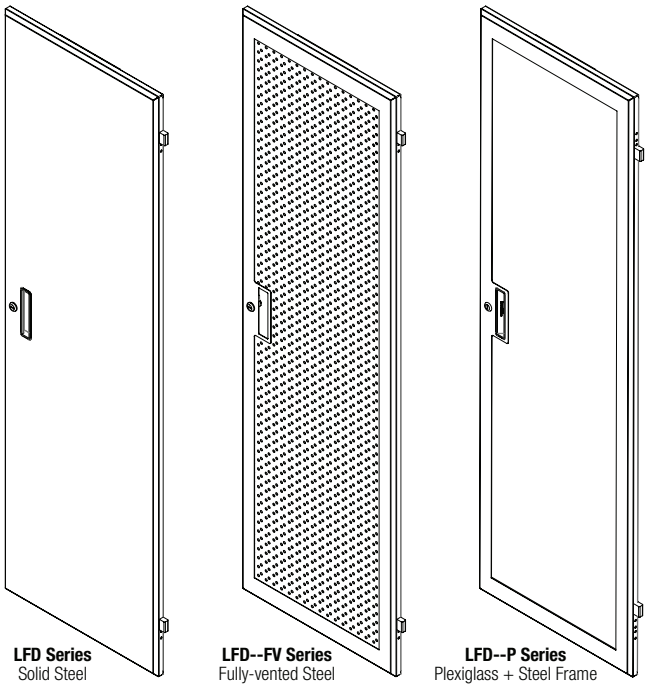
# SERIES SPECIFIC ACCESSORIES — SURFACE-MOUNT FRONT DOORS

*Dimensions are inches and [mm] unless stated otherwise.*

**STYLE OPTIONS for SURFACE-MOUNT FRONT DOOR**




**LFD Series Summary**

| *Model No.* | *"A" = RU* |
|---|---|
| ► LFD-7 | 7 U |
| ► LFD-10 | 10 U |
| ► LFD-12 | 12 U |
| LFD-14 | 14 U |
| ► LFD-16 | 16 U |
| ► LFD-18 | 18 U |
| ► LFD-21 | 21 U |
| ► LFD-24 | 24 U |
| ► LFD-35 | 35 U |
| LFD-37 | 37 U |
| LFD-40 | 40 U |
| LFD-44 | 44 U |
| LFD-54 | 54 U |

**LFD--FV Series Summary**

| *Model No.* | *"A" = RU* |
|---|---|
| ► LFD-7FV | 7 U |
| ► LFD-10FV | 10 U |
| ► LFD-12FV | 12 U |
| LFD-14FV | 14 U |
| ► LFD-16FV | 16 U |
| ► LFD-18FV | 18 U |
| ► LFD-21FV | 21 U |
| ► LFD-24FV | 24 U |
| ► LFD-35FV | 35 U |
| LFD-37FV | 37 U |
| LFD-40FV | 40 U |
| LFD-44FV | 44 U |

**LFD--P Series Summary**

| *Model No.* | *"A" = RU* |
|---|---|
| ► LFD-7P | 7 U |
| ► LFD-10P | 10 U |
| ► LFD-12P | 12 U |
| LFD-14P | 14 U |
| ► LFD-16P | 16 U |
| ► LFD-18P | 18 U |
| ► LFD-21P | 21 U |
| ► LFD-24P | 24 U |
| ► LFD-35P | 35 U |
| LFD-37P | 37 U |
| LFD-40P | 40 U |
| LFD-44P | 44 U |

► *= accessory fits LWR Series models*

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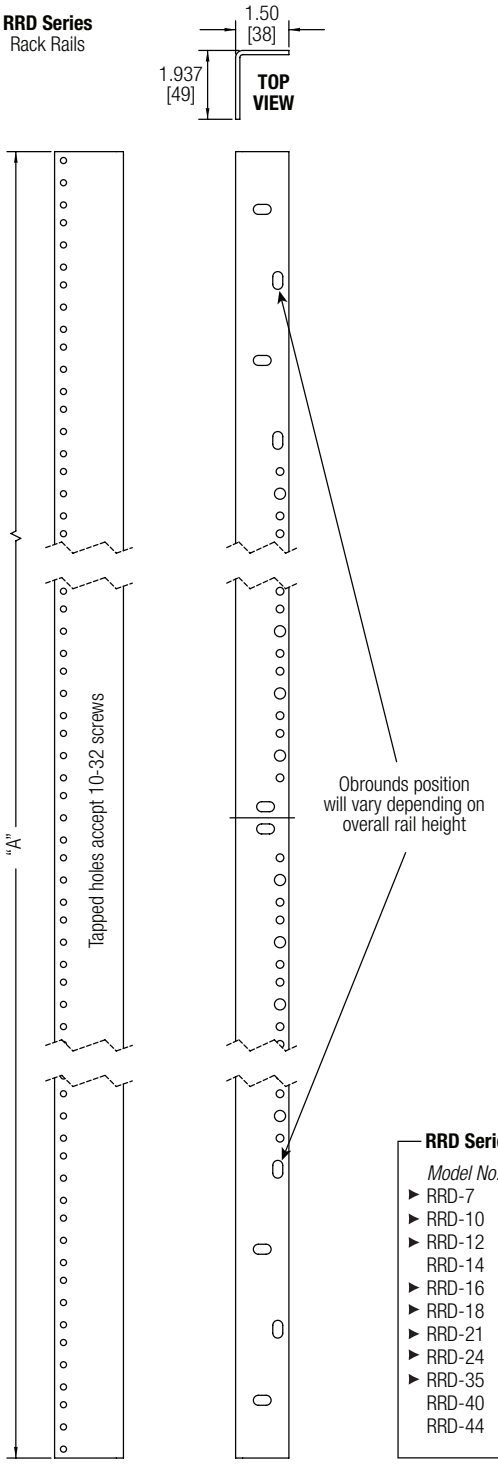
# SERIES SPECIFIC ACCESSORIES — ADDITIONAL RACK RAILS




**RRD Series Summary**

| *Model No.* | *"A" = RU* |
|---|---|
| ► RRD-7 | 7 U |
| ► RRD-10 | 10 U |
| ► RRD-12 | 12 U |
| RRD-14 | 14 U |
| ► RRD-16 | 16 U |
| ► RRD-18 | 18 U |
| ► RRD-21 | 21 U |
| ► RRD-24 | 24 U |
| ► RRD-35 | 35 U |
| RRD-40 | 40 U |
| RRD-44 | 44 U |

► *= accessory fits LWR Series models*

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