

# LR CLEANROOM GRID SYSTEMS

**GORDON**  
CLEANROOM PRODUCTS DIVISION

LIGHT-DUTY, GASKETED, WIRE-SUSPENDED CEILINGS



# LR CLEANROOM GRID SYSTEMS

Gordon Cleanroom products LR-15 ceiling system is designed primarily for use in pharmaceutical, hospital and food service cleanroom applications. Extruded aluminum grid members have a ¼" upturned flange to provide a cleanable edge that also conceals the gasket. Blank panels, filters or other ceiling components first contact the gasket to create an airtight seal prior to settling on the tee flange. Grid components are fabricated of extruded aluminum for maximum structural integrity and corrosion resistance, even in harsh environments. Aluminum assembly clips simplify installation and require no special tools to attach grid components. Optional hold-down clips are available to secure blank panels in the grid.

## TECHNICAL INFORMATION

### EXTRUDED GRID COMPONENTS

- 6063 T-5 aluminum alloy

### FINISHES

- Clear satin anodized for harsh environments
- White, water-based acrylic "wet coat" paint finish

### FACTORY-APPLIED GASKETS

- Closed-cell PVC, 8# density
- U.S.D.A. approved
- Fungus-resistant (Method 508.1 Mil Std 810-C)
- Flame-resistant (FMYSS #302; burn rate 4" per minute)
- Color: Light grey
- Contact factory for custom gasket availability

### GRID LAYOUT MODULES

- 2' x 4'
- 2' x 2'
- Metric or custom module sizes can be provided

### LR APPLICATION GUIDELINES

Appropriate for cleanrooms designed to:

- ISO-7 (Class 10,000) or higher
- Use ducted terminal filter modules
- Use cleanroom standard size filters and light fixtures

### SUSPENSION AND LOAD DATA

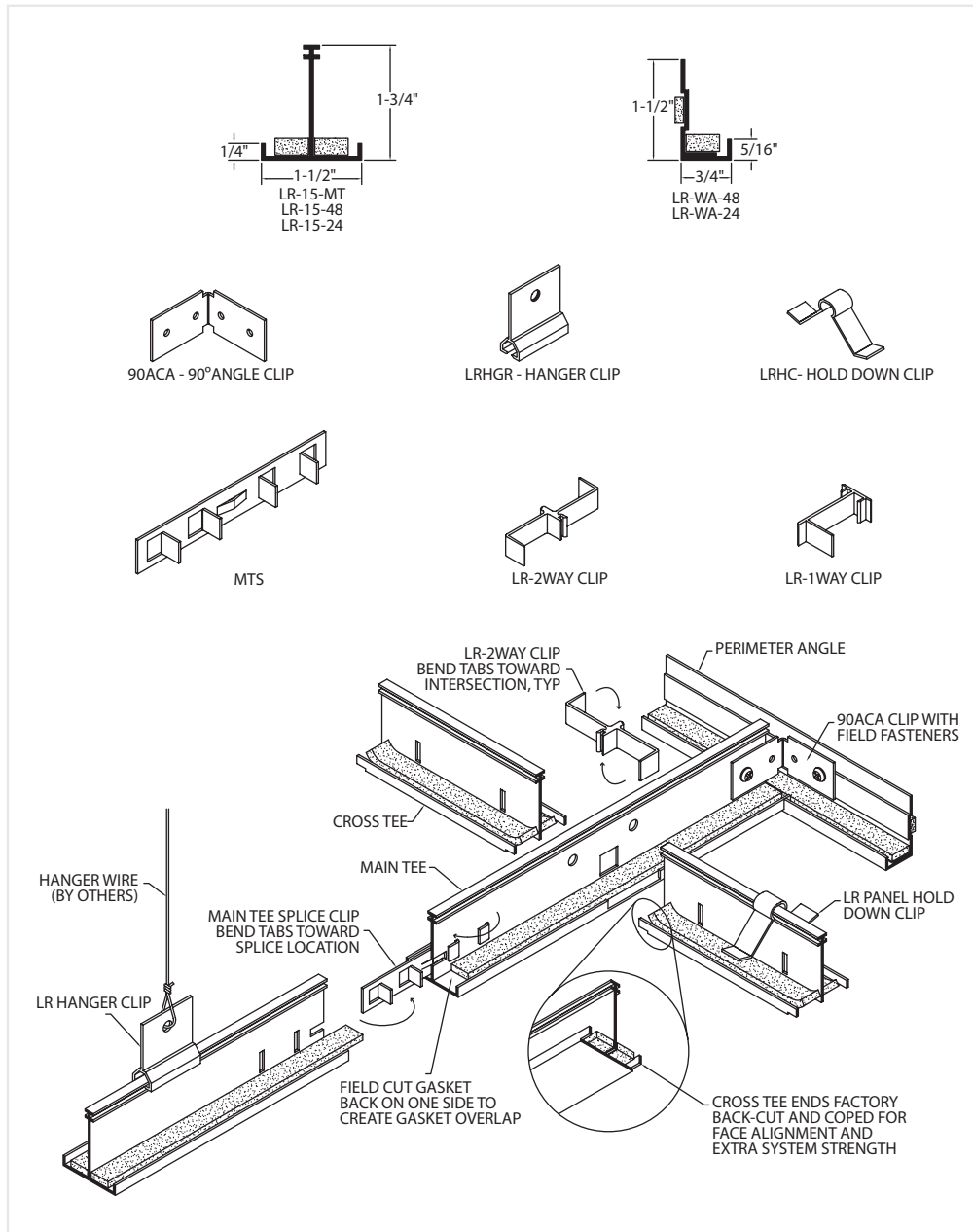
- Minimum 12 gauge hanger wire (furnished by others)
- Hanger Wire Spacing:
  - 4' o.c. for panels up to 5 lbs. per square foot
  - At all 4 corners of filter module and light fixture locations
- Load test recommendations: See Table
- **NOTE:** Gordon does not recommend wire-suspended grid systems for use with fan-powered filter modules (FFU's). Consider Gordon rod-suspended grid systems for FFU applications.



## LR PARTS

| PART NUMBER        | DESCRIPTION<br> | A- WEB DEPTH | B- EXPOSED GASKETED FLANGE | PART LENGTH | PIECES PER CARTON | LINEAL FEET PER CARTON | LBS PER CARTON       | WEIGHT PER LINEAR FOOT/W GASKET |
|--------------------|----------------------------------------------------------------------------------------------------|--------------|----------------------------|-------------|-------------------|------------------------|----------------------|---------------------------------|
| <b>LR-15</b>       |                                                                                                    |              |                            |             |                   |                        |                      |                                 |
| LR-15-MT4          | Main Tee, Notched 48" o.c.                                                                         | 1-1/2"       | 1-1/2"                     | 12'         | 16                | 192                    | 55                   | 0.31                            |
| LR-15-MT2          | Main Tee, Notched 24" o.c.                                                                         | 1-1/2"       | 1-1/2"                     | 12'         | 16                | 192                    | 55                   | 0.31                            |
| LR-15-48CN         | 4' Cross Tee, Notched 24" o.c.                                                                     | 1-1/2"       | 1-1/2"                     | 4'          | 48                | 192                    | 54                   | 0.31                            |
| LR-15-48NN         | 4' Cross Tee, No Notch                                                                             | 1-1/2"       | 1-1/2"                     | 4'          | 48                | 192                    | 54                   | 0.31                            |
| LR-15-24           | 2' Cross Tee                                                                                       | 1-1/2"       | 1-1/2"                     | 2'          | 48                | 96                     | 27                   | 0.31                            |
| <b>WALL ANGLES</b> |                                                                                                    |              |                            |             |                   |                        |                      |                                 |
| LR-WA-48           | Wall Angle, Notched 48" o.c.                                                                       | 1-1/2"       | 3/4"                       | 12'         | 24                | 288                    | 54                   | 0.23                            |
| LR-WA-24           | Wall Angle, Notched 24" o.c.                                                                       | 1-1/2"       | 3/4"                       | 12'         | 24                | 288                    | 54                   | 0.23                            |
| <b>CLIPS</b>       |                                                                                                    |              |                            |             |                   |                        |                      |                                 |
| MTS                | Main Tee Splice Clip                                                                               |              |                            |             |                   |                        | One Per Main Tee     | 0.02                            |
| LR-2 WAY           | 2-Way Clip                                                                                         |              |                            |             |                   |                        | One Per LG Cross Tee | 0.01                            |
| LR-1 WAY           | 1-Way Clip                                                                                         |              |                            |             |                   |                        | As Required          | 0.01                            |
| LRHC               | Panel Hold-down Clip                                                                               |              |                            |             |                   |                        | As Required          | 0.01                            |
| LRHGR              | LR Hanger Clip                                                                                     |              |                            |             |                   |                        | As Required          | 0.01                            |

## LR COMPONENTS & ACCESSORIES



## LR LOAD DATA

Load test recommendations outlined in the table at right should not be exceeded, nor should the components be deflected more than 1/360th of their span.

A minimum 12 gauge hanger wire should support all four corners of the filter unit or light fixture.

| SYSTEM TYPE | WEB HEIGHT | SPAN HANGER WIRE SPACING | SPACING OF MAIN TEES | APPLIED LOAD LBS./ SQ.FT. |
|-------------|------------|--------------------------|----------------------|---------------------------|
| LR-15       | 1-3/4"     | 48"                      | 24"<br>48"           | 8.9<br>4.4                |

## GREEN BY DESIGN

- LEED®<sup>1</sup> credits available
- 66% recycled aluminum
  - 33% pre-consumer content
  - 33% post consumer content
- Finishes
  - No phosphate / biodegradable pre-treatment
  - No hazardous waste
  - No VOC's
  - No heavy metals

<sup>1</sup> LEED® is a registered trademark of the U.S. Green Building Council.

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