

Gypsum Board Reveals With Integral LED Lighting

PART 1 - GENERAL

1.1 SUMMARY

- A. Related work specified elsewhere includes:
 - 1. Rough carpentry.
 - 2. Finish carpentry and millwork.
 - 3. Metal support systems.
 - 4. Gypsum board systems.
 - 5. Painting.
 - 6. Wallcovering.
 - 7. Electrical.

1.2 SUBMITTALS

- A. Product data: Indicate product description, including compliance with specified requirements and installation requirements. Mark manufacturer's brochures to include only those products proposed for use.

1.3 QUALITY ASSURANCE

- A. Applicable standards; standards of the following, as referenced herein:
 - 1. Aluminum Association (AA).
 - 2. American Society for Testing and Materials (ASTM).
- B. Allowable tolerances in horizontal planes:
 - 1. Variation from level: +1/8" in 12'-0".
 - 2. Variation in plane of adjacent wallboard panels prior to joint treatment: 1/16".
- C. Allowable tolerances in framed vertical construction.
 - 1. Position: +1/4" maximum variation from design position.
 - 2. Alignment: 1/8" in 8'-0"; 1/4" maximum in any continuous wall, line or surface.
 - 3. Surface smoothness: No taping joint or fastener location, roughness or blemish discernible after application of finish when viewed at any angle from a distance of 5'-0" under occupancy lighting conditions, with surface preparation as specified in Painting section.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Storage:
 - Stack LED Reveals off floor on pallets or similar platforms providing continuous support to prevent sagging.
 - Stack so that long lengths are not over short lengths.
- B. Handle materials to prevent damage to surfaces, edges and ends of extruded metal items. DO NOT DAMAGE EXPOSED ENDS OF LED STRIPS. Reject and remove damaged material from site.

PART 2 - PRODUCTS

2.1 MANUFACTURER:

- A. Acceptable manufacturer; subject to compliance with specified requirements:

Fry Reglet Corporation
1377 Stonefield Court
Alpharetta, GA 30004
Phone 800-237-9773 Fax 800-200-4397

2.2 MATERIALS AND FINISH:

Anodized finish:

1. Architectural 204R1 medium etch (AA-C22-A31), clear color.

2.3 LED REVEALS:

- A. Light Cove – 2" Radius
1. Acceptable product: Number LED-CV2
 2. Characteristics:
 - a. Description: Light cove shall create a lighted horizontal recessed reveal.
Specify: ****Up lighting**** OR ****Down lighting****
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: ****2'**, **4'**, **6'**, **8' OR **10'****
 - d. Light Intensity: ****High Intensity****
 - e. Kelvin Temperature: Specify: ****2700**, **3000**, **3500 OR **4000****
 - f. Driver: Specify: **** LED-96-24, 96W, forward phase****
OR ****LED-288-24, 3x96W, forward phase****
- B. Light Cove Trough – 2" Radius
1. Acceptable product: Number LED-CV2
 2. Characteristics:
 - a. Description: Light cove shall create a lighted horizontal recessed reveal.
Specify: ****Up lighting****
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: ****2'**, **4'**, **6'**, **8' OR **10'****
 - d. Light Intensity: ****High Intensity****
 - e. Kelvin Temperature: Specify: ****2700**, **3000**, **3500 OR **4000****
 - f. Driver: Specify: **** LED-96-24, 96W, forward phase****
OR ****LED-288-24, 3x96W, forward phase****
- C. Light Reveal 5050 – 1/2" depth with 1/2" lighted opening
1. Acceptable product: Number LED-RVL5050
 2. Characteristics:
 - a. Description: Light reveal shall create a lighted horizontal or vertical recessed reveal
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: ****2'**, **4'**, **6'**, **8' OR **10'****
 - d. Light Intensity: ****High Intensity****
 - e. Kelvin Temperature: Specify: ****2700**, **3000**, **3500 OR **4000****
 - f. Driver: Specify: **** LED-96-24, 96W, forward phase****
OR ****LED-288-24, 3x96W, forward phase****

- D. Light Cove – ¾" Radius
 - 1. Acceptable product: Number LED-CV75
 - 2. Characteristics:
 - a. Description: Light cove shall create a lighted horizontal recessed reveal.
Specify: **Up lighting** OR **Down lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8'** OR **10'**
 - d. Light Intensity: Specify: **High Intensity**
 - e. Kelvin Temperature: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

- E. Light Reveal – 1/2" radius with 3/4" lighted opening
 - 1. Acceptable product: Number LED-RVL75
 - 2. Characteristics:
 - a. Description: Light reveal shall create a lighted horizontal or vertical recessed reveal.
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8'** OR **10'**
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

- F. Flat Base 2" – 12" Radius
 - 1. Acceptable product: Number LED-FLATBS
 - 2. Characteristics:
 - a. Description: Flat base shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8'** OR **10'**
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

- G. 4" Trough
 - 1. Acceptable product: Number LED-TR4
 - 2. Characteristics:
 - a. Description: 4" Trough shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8'** OR **10'**
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

- H. LEDMWU
 - 1. Acceptable product: Number LED-MWU
 - 2. Characteristics:
 - a. Description: LEDMWU shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8'** OR **10'**
 - d. Light Intensity: **High Intensity**

- e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
- f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

I. LEDMWC

- 1. Acceptable product: Number LED-MWC
- 2. Characteristics:
 - a. Description: LEDMWC shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2', **4', **6', **8' OR **10'
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

J. LEDMWC1875

- 1. Acceptable product: Number LED-MWC1875
- 2. Characteristics:
 - a. Description: LEDMWC1875 shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2', **4', **6', **8' OR **10'
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

K. LEDMWT

- 1. Acceptable product: Number LED-MWT
- 2. Characteristics:
 - a. Description: LEDMWT shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2', **4', **6', **8' OR **10'
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

L. LED-MWT1875

- 1. Acceptable product: Number LED-MWT1875
- 2. Characteristics:
 - a. Description: LEDMWT1875 shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2', **4', **6', **8' OR **10'
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500** OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

- M. LEDMWCOSC
1. Acceptable product: Number LED-MWCOSC
 2. Characteristics:
 - a. Description: LEDMWCOSC shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8' OR **10'**
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500 OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**
- N. LED CDRM
1. Acceptable product: Number LED-CDRM
 2. Characteristics:
 - a. Description: LED CDRM shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8' OR **10'**
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500 OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**
- O. LED DMGT
1. Acceptable product: Number LED-DMGT
 2. Characteristics:
 - a. Description: LED DMGT shall create a lighted horizontal recessed reveal.
Specify: **Up lighting**
 - b. Material: Clear anodized extruded aluminum.
 - c. Lengths: Specify: **2'**, **4'**, **6'**, **8' OR **10'**
 - d. Light Intensity: **High Intensity**
 - e. Kelvin Temperature: Specify: **2700**, **3000**, **3500 OR **4000**
 - f. Driver: Specify: ** LED-96-24, 96W, forward phase**
OR **LED-288-24, 3x96W, forward phase**

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Install LED gypsum wallboard reveals in accord with manufacturer's product data and as follows:
1. Insert LED reveal in horizontal opening and install LED connectors.
 2. Fasten reveal through board to framing on 16' centers.
- B. Joint treatment: Butt joints and tape and finish attachment flanges as specified in Gypsum Board Systems section.
- C. Dust surfaces and leave ready for decoration. Joint and fastener treatment shall be indistinguishable in finished work.

3.2 PROTECTION

- A. Protect LED reveals from damage until date of Substantial Completion. Replace LED reveals which become damaged.

END OF SECTION