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## SECTION 09271

### 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.
  - 6. Painting.
  - 7. Wallcovering.
  - 8. 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.

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## **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: **\*\*2200\*\***, **\*\*2700\*\***, **\*\*2900\*\***, **\*\*3000\*\***, **\*\*3500\*\*** OR **\*\*4100\*\***
  - 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: **\*\*2200\*\***, **\*\*2700\*\***, **\*\*2900\*\***, **\*\*3000\*\***, **\*\*3500\*\*** OR **\*\*4100\*\***
  - 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: \*\*2200\*\*\*\*, \*\*2700\*\*\*\*, \*\*2900\*\*\*\*, \*\*3000\*\*\*\*, \*\*3500\*\* OR \*\*4100\*\*
  - f. Driver: Specify: \*\* LED-96-24, 96W, forward phase\*\*  
OR \*\*LED-288-24, 3x96W, forward phase\*\*

D. Light Cove – 3/4” 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: \*\*2200\*\*\*\*, \*\*2700\*\*\*\*, \*\*2900\*\*\*\*, \*\*3000\*\*\*\*, \*\*3500\*\* OR \*\*4100\*\*
  - 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: \*\*2200\*\*\*\*, \*\*2700\*\*\*\*, \*\*2900\*\*\*\*, \*\*3000\*\*\*\*, \*\*3500\*\* OR \*\*4100\*\*
  - f. Driver: Specify: \*\* LED-96-24, 96W, forward phase\*\*  
OR \*\*LED-288-24, 3x96W, forward phase\*\*

D. Light Base – 4” High:

1. Acceptable product: Number LED-BS4
2. Characteristics:
  - a. Description: Light base shall create a lighted horizontal recessed reveal.  
at base of drywall construction.
  - b. Material: Clear anodized extruded aluminum.

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- c. Lengths: Specify: \*\*2'\*\*, \*\*4'\*\*, \*\*6'\*\*, \*\*8' OR \*\*10'\*\*
- d. Light Intensity: \*\*High Intensity\*\*
- e. Kelvin Temperature: Specify: \*\*2200\*\*, \*\*2700\*\*, \*\*2900\*\*,  
\*\*3000\*\*, \*\*3500 OR \*\*4100\*\*
- 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