

## **SECTION 09 70 00**

### **WALL FINISHES**

#### **Part 1 GENERAL**

##### 1.1 Summary

- A. Section Includes: Engineered, edge-lit LED panel integrated with VividGlass, BermanGlass Levels Kiln Cast Glass, power source with dimming controls and wiring and mounting cleat extrusion.
- B. Related Sections:
  - 1. Section 14 27 00 – Elevators
  - 2. Section 10 14 33 – Illuminated Panel Signage

##### 1.2 References

- A. ASTM E84 – Surface Burning Characteristics of Building Materials.

##### 1.3 Submittals

- A. Provide submittals in accordance with Section 01 30 50 – Submittal Procedures.
- B. Submit manufacturer's shop drawings, installation drawings, installation instructions and maintenance instructions.
- C. Submit samples no less than 4" x 4" for all specified material finishes.
- D. Submit panel edge extrusion samples no less than 4" of specified finish.
- E. Manufacturer information:
  - 1. Provide overview literature describing manufacturer's overall scope of products and manufacturing capabilities.
  - 2. Provide URL for manufacturer's website; website must provide access to technical data, images and general product information.

##### 1.4 Quality Assurance

- A. Manufacturer Qualifications
  - 1. Minimum 10 years experience in the manufacture of architectural surface materials.
  - 2. Minimum 10 years experience in the fabrication of wall systems.
  - 3. Provide reference list of at least 20 public space projects currently using walls fabricated by the manufacturer.
- B. Installer Qualifications
  - 1. Minimum three years experience in the installation of mounted panels.

##### 1.5 Delivery, Storage and Handling

- A. Deliver materials to installation site in manufacturer's original packaging. Handle products in accordance with manufacturer's instructions. Store in dry, secure location, protected against direct sunlight and excessive heat. Protect finished surfaces with strippable film.

##### 1.6 Warranty

A. Provide manufacturer's standard warranty.

1. Warranty terms: one year against defects in materials and workmanship.

## Part 2 PRODUCT

### 2.1 Manufacturer

A. Provide LightPlane Panels

Forms+Surfaces

30 Pine Street

Pittsburgh, PA 15223

Phone: 800-451-0410

fax: 412-781-7840

website: [www.forms-surfaces.com](http://www.forms-surfaces.com)

### 2.2 LightPlane Panels

A. General

1. Provide engineered, edge-lit LED panels integrated with VividGlass, power source with dimming controls and wiring, and mounting cleat extrusion.
2. Panel configuration: Forms+Surfaces' Illuminated LightPlane panels. See drawings for panel layout and sizes.
3. Provide panels in the finishes specified.

B. Inset Materials

1. Laminated Glass Panels (choose one)

- a. Material: VividGlass: **ViviChrome Chromis, ViviGraphix Graphica, ViviSpectra Elements, ViviSpectra Spectrum, ViviSpectra VEKTR, ViviSpectra Zoom, ViviStone Abalone Onyx, ViviStone Cream Onyx, ViviStone Honey Onyx, ViviStone Opal Onyx, ViviStone Pearl Onyx, ViviStone White Onyx, ViviStrata Layers, ViviTela Shibori** (choose one)

- b. Material: BermanGlass Levels Kiln Cast Glass: **Corduroy + Taupe, Hikaru + Taupe, Nuv'eau + Taupe, Corduroy + Shimmer, Hikaru + Shimmer, Nuv'eau + Shimmer, Hikaru + Shadow, Nuv'eau + Shadow, Corduroy + Switchbacks, Corduroy + Caprice, Nuv'eau + Lagoon, Hikaru + Obsidian**

C. Panel Frames

1. Material: Extruded, anodized aluminum.
2. Finish: **Clear Anodized, Black Anodized, Antique Bronze Anodized** (choose one).
3. Bezel Width: 0.23 in (5.8 mm)
4. Panel Thickness: 1.344 in (34.1 mm)

D. Illuminated Element

1. LED

- a. Lamp type: Cree® LED.
- b. Wattage: 0.25 watts/LED.

- c. Color temperature: 5,000K.
- d. Rated life: 100,000 hours at recommended illumination.
- e. Running temperature: 72° F

## 2. Power Source

- a. Single panel power box:
  - I. 100-277 VAC/ 10-24V DC output, dimmable, constant current, 5 amp power supply
  - II. quick disconnect
  - III. maximum wattage: 60 watts per panel
- b. Multiple panel power box:
  - I. 100-277 VAC/ 16-24V DC output, dimmable constant current, 5 amp power supply with internal forward-phase dimming controls.
  - II. quick disconnect
  - III. maximum wattage: 60 watts per panel
- c. Input voltage: AC 100-277 VAC
- d. Output voltage: 12 V

## 3. Safety Certification

- a. ETL Certification
  - I. UL 48 - UL Standard for Safety for (Interior) Electric Signs
  - II. UL 8750 - UL Standard for Safety for Light Emitting Diodes (LED)
  - III. CSA C22.2 - Canadian Standard for (Interior) Portable and Stationary Electric Signs and Displays

## **Part 3 EXECUTION**

### 3.1 Preparation

- A. Protect wall finishes, fixtures and equipment from damage caused by work of this Section.

### 3.2 Installation

- A. Install in accordance with wall system manufacturer's instructions.

### 3.4 Cleaning and Protection

- A. Remove strippable film. Clean exposed surfaces in accordance with manufacturer's instructions.
- B. Protect exposed surfaces from damage by subsequent construction.