

## Technical Data Sheet

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## Technical Data Sheet

### A. Product Design

#### 1. Blade

Paramount Panel Grilles are manufactured exclusively with grade A hardwoods. We will not use particle board or MDF in the fabrication of our panel grilles. These materials have a susceptibility to sagging, twisting, and cupping, which can compromise structural integrity.

##### a. Wood Species

Paramount Panel Grilles are exclusively crafted using the finest hardwood species available. Hem Fir and Basswood are not utilized, and Poplar is only utilized upon specific request. Red Oak serves as our most demographically cost-efficient hardwood. Other species are available upon request. Please be advised that additional lead times might exist for non-standard species. Standard species below;

Red Oak	Alder	Hickory	Ash
Soft Maple	European Beech	Mahogany	Doug Fir (VG)
Hard Maple	Pecan	Black Walnut	Natural Narrow Grain Bamboo
Eastern White Pine	American Cherry	Poplar	White Oak

#### 2. Backer

Paramount Panel Grilles are built using a standardized backer system. The first backers on both ends, are placed in at 5-1/2", the second placed at 11-1/2" and subsequent backers placed every 12" on center.

- a. **Standard (1/2" x 1-1/2 x 12"):** Standard wood backers are ACX structural grade plywood painted black. Alternative colors are available upon request.
- b. **Flexible (1/4" x 1-1/2 x 12"):** Flexible backer system incorporates 1/4" thick black PVC strips for flexibility. Alternative colors are available upon request.
- c. **Notched (3/4" x 1" or 2" x 12"):** Poplar-fabricated notched backers are placed alternately, with standard backers reinforcing for structural integrity.
- d. **Dowel (5/8" x 12"):** Dowels are inserted in lieu of backers for this system. A combination backer dowel system is an additional option, and would alternate dowel and backer with the aforementioned spacing placement. Both dowel options can utilize this convention.

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### A. Product Design (Cont.)

#### d. Dowel (Cont.)

##### i. Flexible

5/8" hollow core black PVC pipe is combined with Paramount Panel Grilles to create a flexible doweling system. Alternate color options are available upon request.

##### ii. Hardwood

5/8" solid black painted hardwood dowels are used for this option. Alternate color/specie options are available upon request.

### B. Product Standards/Options

#### 1. Finish

Paramount uses exclusively Sher-Wood Hi-Bild® precatalyzed lacquer finish for all non-intumescent applications. Our manufacturing process incorporates lacquer-based finishes, known for their environmental consciousness, durability, and resistance to yellowing from ultraviolet light.

##### a. Standard

A 20% Satin sheen is standard for all products. This finish is moisture, solvent, and chemical-resistant. VOC: **5.18 lb/gal, 620 g/L** less exempt solvents.

##### b. Low VOC

Sher-Wood LOVOC Lacquer is a nitrocellulose lacquer is formulated to meet federal HAPS regulations and proposed VOC limitations of 1.8 lbs/lb solids. VOC: **4.95lb/gal, 593 g/L 1.62 lbs VOC/lb** solids less exempt solvents.

##### c. Abuse Resistant

MagnaMax, a mar and scratch-resistant coating, is an option for all Paramount Panel Grilles. This product is compliant with world E-1 standards, made with ultra-low formaldehyde, and is HAPS free. VOC: **625 ± 4 g/l or 5.22 ± .1 lbs./gal.** less exempt solvents.

##### d. Intumescent (Class A)

Flame Control® intumescent varnish coating is available for achieving a Class A fire rating on all Paramount Panel Grilles. Class B is also available upon request.

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### B. Product Standards/Options (Cont.)

#### 1. Finish (Cont.)

##### e. Stain Application

When applicable, a Minwax® stain is applied using our custom colors or we can color match to achieve desired coloration.

#### 2. Stiffened Chenille Felt

Paramount Panel Grilles uses stiffened felt exclusively from Sutherland Felt Company. This polyester felt with low melt fibers offers continuous coloration throughout the application. This option is available upon request and comes in various colors.

#### 3. Attachment Method

Paramount Panels Grilles use a direct hung attachment method which meets all applicable seismic codes and regulations. (2) Screws per backer every alternating backer are used to fix the backer to the T-Grid, and secure the grille.

#### 4. Sizing Configurations

Paramount Panel Grilles are fabricated in a standard 12" wide panel. Lengths can be customized and ordered by the ft. (6'-12')

##### a. Blade Quantity

3, 4, 5, 6, 8 per ft.

##### b. Blade Width

3/4", 1", 1-1/4", 1-3/8"

##### c. Blade Height

1-1/2", 2-1/4", 3-1/4", 4-1/4", 5-1/4"

### C. Installation Requirements

#### 1. Hangers

A #12 gauge hanging wire, or steel braided wires are a prerequisite for hanging Paramount Panel Grilles.

#### 2. Suspension

Paramount Panel Grilles must be suspended by using a 15/16" heavy duty T-Grid system, or approved frame substitute.

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### D. Shipping and Storage

Products will be packaged in 52"x98" (Length to vary) crates constructed of O.S.B., with plywood reinforced corners. These crates will be attached to solid wood pallets, and will require the use of fork extensions when lifting with a forklift. Crates are approximately 2200lbs. each, and will come at a height of 48". Once unloaded, crates should be inspected for shipping damage, and reported on the BOL with the carrier. Products should be stored in the area of installation, for a period of no less than 72 hours prior to product installation. The interior climate shall not fall outside of the climatic range of 50°-100° during this period of acclimation.

### E. US Green Building Council Program (LEED v4.1)

LEED credits Paramount Panel Grilles can provide, if applicable options are selected.

#### BD+C/BPD&O (Sourcing of Raw Materials) *2 possible points*

Use products sourced from at least three different manufacturers that meet at least one of the responsible sourcing and extraction criteria below for at least 15%, by cost, of the total value of permanently installed building products in the project (1 point).

Use products sourced from at least five different manufacturers that meet at least one of the responsible sourcing and extraction criteria below for at least 30%, by cost, of the total value of permanently installed building products in the project (2 points).

#### BD+C/BPD&O (Material Ingredients) *1 possible point*

For credit achievement calculation, products sourced (extracted, manufactured, purchased) within 100 miles (160 km) of the project site are valued at twice their base contributing number of products, up to a maximum of 2 products.

#### BD+C (Low Emitting Materials)- Finish *3 possible points*

At least 90% of all ceilings, by cost or surface area, meet the VOC emissions evaluation, OR inherently non-emitting sources criteria, OR salvaged and reused materials criteria. The ceilings product category includes all ceiling panels, ceiling tile, surface ceiling structures such as gypsum or plaster, suspended systems (including canopies and clouds), and glazed skylights.