MATERIAL SPECIFICATION GUIDE

Select from more than 250 standard Lumicor decors from our product families – Textile, Natural, Print, Impressions, Luminous, Recycled Glass, Metallic, and Aggregate – or create your own custom panel by combining décors to add color, texture and depth to your design. Lumicor can even incorporate Customer Owned Materials (C.O.M.). We would love to help make your design concept a reality! Contact us at 1-888-LUMICOR or visit www.lumicor.com to start a quote request.

PANEL THICKNESS

Lumicor panels are available from 0.050" (1.27 mm) through 0.944" (24 mm) with a standard tolerance of ±10% of nominal. Tolerance varies by décor.

GAUGE EQUIVALENTS

NOMINAL DECIMAL (IN)	FRACTION EQUIVALENT	MILLIMETERS
.050"	1/20"	1.27 mm
.060"	1/16"	1.5 mm
.118"	1/8"	3.0 mm
.196"	3/16"	5 mm
.236"	1/4"	6 mm
.354"	3/8"	9 mm
.472"	1/2"	12 mm
.708"	3/4"	18 mm
.944"	1"	24 mm

Actual panel dimensions may vary by décor. Some décors are not compatible with all gauges, panel sizes, or resin types.

PANEL DIMENSIONS

Panels are offered in standard 4' × 8' and 4' x 10' sizes. Custom lengths and widths are also available. Panels may be cut to order upon request for an additional fee.

PANEL SIZE	FEET	INCHES	MILLIMETERS
Standard	4' x 8'	48" x 96"	1219 x 2438 mm
Oversize	4' x 10'	48" x 120"	1219 x 3048 mm

RESIN OPTIONS

Resin Panels can be manufactured using several high performance engineering resins, including acrylic, polycarbonate, and PETG. The resin used will depend on the performance requirements of your project.

RESIN	DESCRIPTION
Lumiclear (Acrylic)	Outstanding clarity, resistance to UV degradation, greater rigidity, and renewable surface.
Lumiform (PETG)	Superior impact resistance, better flammability rating, and greater flexibility.
Lumishield EX (Polycarbonate)	High impact strength, UV resistance and flammability performance necessary for exterior applications.

FINISHES

Lumicor products are available in a wide variety of surface finishes to provide different aesthetics. You can even specify different finishes for each side of the sheet. Heavier finishes (e.g. frost, sandstone and stucco) provide better protection against minor surface scratches.

STANDARD FINISHES

- Gloss
- Matte
- Brushed
- Frost
- Diffusion
- Galvanized
- Satin
- Sandstone
- Stucco
- Moiré
- Crisscross
- Weave

Not all finishes are available with all products.

ADD-ONS

Enhance a panel's appearance or performance with optional add-ons that can be applied to the front or back side of the panel.

CHEMSHIELD

A high performance clear film that can be applied to one or both sides of Lumiclear products. With Chemshield applied, Lumicor products can be used in environments requiring superior stain and chemical resistance. This protective layer will not fade or streak even after heavy cleaning, but cannot be renewed if damaged.

ILLUME

A translucent light diffusing layer applied to the back of Lumicor panels. Illume helps to spread light evenly across the panel and conceal bulbs and fixtures to create a clean aesthetic.

MARKER BOARD

A high quality dry erase finish that can be added to any Lumicor panel.

OPAQUE

Opaque is a light-blocking layer available in 14 neutral tones. Add Opaque to panels when there is a need for privacy or substrate concealment.

LUMINOUS

Our proprietary color technology can be added to any standard Lumicor product, its versatility making it easy to add a splash of color to any décor.

REFLECTIVE FINISHES

Reflective Finishes are proprietary silvery surfaces that can be applied to Resin Panels to create more dimension within the panel and add a sophisticated sparkle. For additional metallic colors such as gold or copper, pair Reflective Finishes with Luminous décors.

EXPANSION & CONTRACTION

Lumicor products will expand and contract nominally with changes in temperature. Please allow for expansion and contraction when installing fasteners, hardware, frame systems, or when edge butting sheets. The formulas to the right can be used to calculate the appropriate allowance for panels manufactured with each resin type.

Example:

A 48" × 96" Lumiform panel will be installed in an office building near the entrance. The coldest temperature of the panel in that location over the entire year is expected to be 50°F, and the warmest is expected to be 90°F. The temperature change will then be 40°F. The height would then change 0.192" from the coldest to the warmest temperature exposure, and the width would change 0.096".

LUMICLEAR

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.00004	=	in
mm	x	°C	x	.000072	=	mm

LUMIFORM

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.00005	=	in
mm	x	°C	x	.00009	=	mm

LUMISHIELD EX

Length, Width, or Thickness	x	Temperature Change	x	Coefficient of Thermal Expansion	=	Expansion Allowance
in	x	°F	x	.000037	=	in
mm	x	°C	x	.000044	=	mm

WEIGHT

Lumicor Resin Panels are a lightweight material at approximately half the weight of glass, with poundage varying depending on gauge, size, and resin type. The following charts are estimates, and actual weights may differ based on your décor selection. For Recycled Glass, add 50 lbs for standard panels (48" x 96") or 65 lbs for oversize panels (48" x 120").

LUMICLEAR

	fraction	1/16"	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
Panel Thickness	in	0.060"	0.118"	0.196"	0.236"	0.354"	0.472"	0.708"	0.944"
	mm	1.5 mm	3.0 mm	5.0 mm	6.0 mm	9.0 mm	12.0 mm	18.0 mm	24.0 mm
Standard Weight 48" × 96" | 1219 × 2438mm	lbs	11.9 lbs	23.4 lbs	38.8 lbs	46.8 lbs	70.1 lbs	93.5 lbs	140.3 lbs	187.0 lbs
	kg	5.4 kg	10.6 kg	17.6 kg	21.2 kg	31.8 kg	42.4 kg	63.6 kg	84.8 kg
Oversize Weight 48" × 120" | 1219 × 3048mm	lbs	14.8 lbs	29.2 lbs	48.5 lbs	58.4 lbs	87.7 lbs	116.9 lbs	175.3 lbs	233.8 lbs
	kg	6.7 kg	13.3 kg	22.0 kg	26.5 kg	39.8 kg	53.0 kg	79.5 kg	106.0 kg

LUMIFORM

	fraction	3/64"	1/16"	1/8"	3/16"	1/4"	3/8"	1/2"
Panel Thickness	in	0.050"	0.060"	0.118"	0.196"	0.236"	0.354"	0.472"
	mm	1.27 mm	1.5 mm	3.0 mm	5.0 mm	6.0 mm	9.0 mm	12.0 mm
Standard Weight 48" × 96" | 1219 × 2438mm	lbs	9.5 lbs	12.7 lbs	24.9 lbs	41.4 lbs	49.9 lbs	74.8 lbs	99.8 lbs
	kg	4.3 kg	5.8 kg	11.3 kg	18.8 kg	22.6 kg	33.9 kg	45.2 kg
Oversize Weight 48" × 120" | 1219 × 3048mm	lbs	11.9 lbs	15.8 lbs	31.2 lbs	51.8 lbs	62.4 lbs	93.6 lbs	124.7 lbs
	kg	5.4 kg	7.2 kg	14.1 kg	23.5 kg	28.3 kg	42.4 kg	56.6 kg

LUMISHIELD EX

	fraction	1/4"	1/2"
Panel Thickness	in	0.236"	0.472"
	mm	6.0 mm	12.0 mm
Standard Weight 48" × 96" | 1219 × 2438mm	lbs	47.1 lbs	94.3 lbs
	kg	21.4 kg	42.8 kg

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