

MATERIAL SPECIFICATION GUIDE

DESCRIPTION

Select from more than 250 standard Lumicor decors from our product families: Textiles, Naturals, Prints, Woven Colors, Impressions, Luminous, Recycled Glass, and Metallics, or create your own custom Lumicor 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 start a quote request to get started.

SHEET THICKNESS

Lumicor is available from 0.050" (1.27mm) through 0.944" (24mm) with a standard tolerance of +/- 10% of nominal.

Tolerance varies by décor.

GAUGE EQUIVALENTS

NOMINAL DECIMAL (IN)	FRACTION EQUIVALENT	METRIC (MM)
.050	1/20"	1.27
.060	1/16"	1.5
.118	1/8"	3.0
.160	5/32"	4
.196	3/16"	5
.236	1/4"	6
.354	3/8"	9
.472	1/2"	12
.708	3/4"	18
.944	1"	24

Actual dimensions may vary by décor, and some décors are not available in all gauges or oversize sheets.

SHEET DIMENSIONS

Lumicor is offered in standard 4' x 8' sheet sizes. Custom lengths and widths are also available. Sheets may be cut to order upon request for an additional fee.

	feet	inches	millimeters
Standard	4 x 8	48 x 96	1219 x 2438
Oversize	4 x 10	48 x 120	1219 x 3048

Actual dimensions may vary by décor, and some décors are not available in oversize sheets.

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. Lumicor's heavier finishes (e.g. frost, sandstone and satin) provide better protection against minor surface scratches.

Consult the fabrication guide on www.lumicor.com or contact us for more details.

STANDARD FINISHES

Brushed	Diffusion	Frost	Gloss	Matte
Moiré	Sandstone	Satin	Stucco	

Not all finishes are available with all products.

RESIN

Lumicor is 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 (Polycarb)	High impact strength, UV resistance and flammability performance necessary for exterior applications.

Not all finishes are available with all products.

PROTECTIVE FINISH OPTIONS

ChemShield is 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. ChemShield is available in all Lumicor finishes, but cannot be renewed if damaged.

WEIGHT

LUMICLEAR		1/16"	1/8"	5/32"	3/16"	1/4"
Thickness	in	0.060	0.118	0.160	0.196	0.236
	mm	1.5	3.0	4.1	5.0	6.0
48" × 96"	lbs	11.9	23.4	31.7	38.8	46.8
1219 × 2438mm	kg	5.4	10.6	14.4	17.6	21.2
48" × 120"	lbs	14.8	29.2	39.6	48.5	58.4
1219 × 3048mm	kg	6.7	13.3	18.0	22.0	26.5
LUMICLEAR		3/8"	1/2"	3/4"	1"	
Thickness	in	0.354	0.472	0.708	0.944	
	mm	9.0	12.0	18.0	24.0	
48" × 96"	lbs	70.1	93.5	140.3	187.0	
1219 × 2438mm	kg	31.8	42.4	63.6	84.8	
48" × 120"	lbs	87.7	116.9	175.3	233.8	
1219 × 3048mm	kg	39.8	53.0	79.5	106.0	
LUMIFORM		3/64"	1/16"	1/8"	3/16"	1/4"
Thickness	in	0.050	0.060	0.118	0.196	0.236
	mm	1.27	1.5	3.0	5.0	6.0
48" × 96"	lbs	9.5	12.7	24.9	41.4	49.9
1219 × 2438mm	kg	4.3	5.8	11.3	18.8	22.6
48" × 120"	lbs	11.9	15.8	31.2	51.8	62.4
1219 × 3048mm	kg	5.4	7.2	14.1	23.5	28.3
LUMIFORM		3/8"	1/2"			
Thickness	in	0.354	0.472			
	mm	9.0	12.0			
48" × 96"	lbs	74.8	99.8			
1219 × 2438mm	kg	33.9	45.2			
48" × 120"	lbs	93.6	124.7			
1219 × 3048mm	kg	42.4	56.6			
LUMISHIELD EX		1/8"	1/4"	1/2"		
Thickness	in	0.118	0.236	0.472		
	mm	3.0	6.0	12.0		
48" × 96"	lbs	23.55	47.1	94.3		
1219 × 2438mm	kg	10.7	21.4	42.8		

All weights are estimated; actual weights will vary depending on décor.
For Recycled Glass adds 50 lbs (48" x 96") or 65 lbs (48" x 120").

EXPANSION / CONTRACTION

Lumicor products will expand and contract nominally with changes in temperature. Please allow for expansion / contraction when installing fasteners, hardware, frame systems, or when edge butting sheets. The formula below can be used to calculate the appropriate allowance for the expansion and contraction of each kind of panel.

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

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".

DISCLAIMER

This data is based on information believed to be reliable. The information is offered in good faith, but without guarantee, as conditions and method of use are beyond the control of Lumicor, Inc. Lumicor, Inc. recommends that prospective users determine the suitability of Lumicor materials before purchasing. In no case is Lumicor, Inc. liable for direct, consequential, economic, or other damages. Lumicor, Inc. disclaims all other warranties, expressed or implied, including the warranty of merchantability and fitness for a particular purpose.