



STAND OFF GUIDE

Create a timeless impact on any environment with this versatile hardware solution. Stand Offs bring refinement and style to numerous applications, both vertical and horizontal. Use standoffs for affixing Lumicor materials to a variety of substrates, including wood, metal or concrete.

Lumicor offers a variety of Stand Off components, including barrels, caps, and anchors, which work in unison to create a solid solution for flexibility and ease of installation.

Please refer to this Guide for the number of Stand Offs recommended for a specific panel size, the hardware required for various substrates, and other important information or simply call customer care.

2 | HOW TO ORDER

3 | STAND OFF OVERVIEW

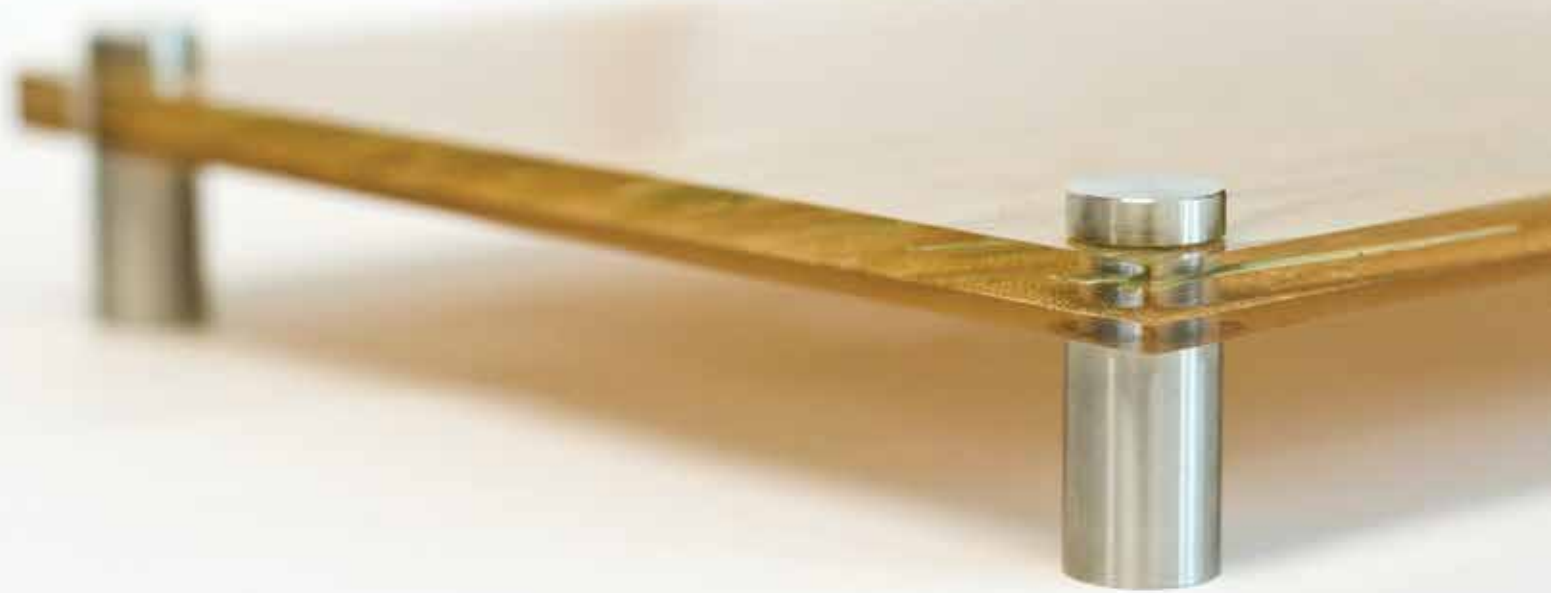
4 | QUANTITY & PLACEMENT: VERTICAL

5 | QUANTITY & PLACEMENT: HORIZONTAL

**6 | QUANTITY & PLACEMENT:
HORIZONTAL WORK SURFACES**

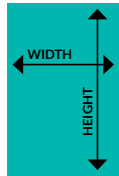
7 | ANCHOR CONDITIONS

**8 | ADDITIONAL INSTALLATION
RECOMMENDATIONS**



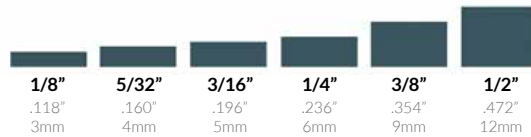
To order Stand Offs, follow this simple 6 step guide:

1 DETERMINE LUMICOR PANEL DIMENSIONS | Width & Height.



Standard Lumicor panels are 4'x8' and can be cut to desired size. We also offer oversized panels at 4'x10'.

2 CHOOSE PANEL GAUGE | Thinner gauges require more Stand Offs to prevent bowing. Please consult the Stand Off Placement Guide on the following pages.



*Custom stand offs available for 3/4" and 1" gauges.

3 DETERMINE QUANTITY | Use either the Vertical or Horizontal guide on the following pages.

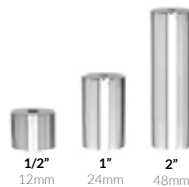
4 (A) CAP DIAMETER, & (B) BARREL LENGTH* | These choices are mostly aesthetic. How prominent do you want the cap to be? How much space do you want between the cap and the wall?

Note: Circle is the standard cap shape. Custom cap shapes are available (low-profile, square, etc.), contact your sales rep. All stand offs are satin silver.

(A) Cap and barrel diameter



(B) Barrel length



*Standoffs in 3/4" diameter and 1/2" length are only suitable for gauges up to .236".

5 IDENTIFY SUBSTRATE | Wood, Metal or Concrete. Your anchor bolt will be different depending on what substrate it is being drilled into. We do not recommend drywall as an anchor. For drywall choose wood, and drill anchor into a stud.

1 _____
dimension

2 _____
gauge

3 _____
quantity

4 _____
cap & barrel diameter

barrel length

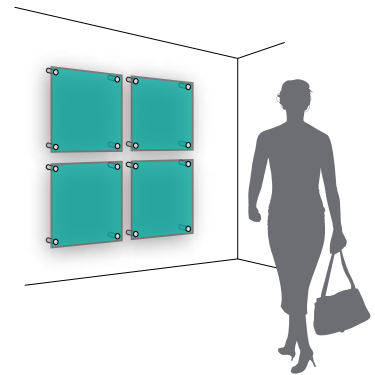
5 _____
substrate

Use Stand Offs in vertical or horizontal applications. View the examples below for ideas. All orders are customized to fit your project specifications.

APPLICATION: VERTICAL

Add color, protection, and interest to walls with Lumicor panels. Panels can be spaced or overlapped by using different length Stand Offs.

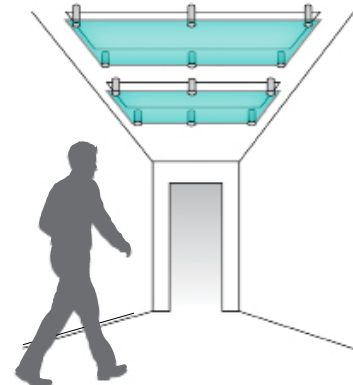
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APPLICATION: HORIZONTAL-CEILING MOUNT

Use Lumicor as ceiling decoration or over light fixtures to add diffusion.

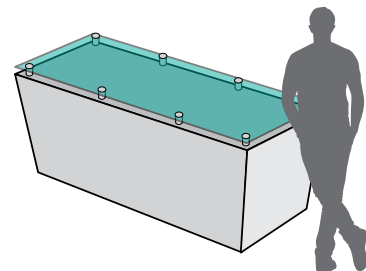
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APPLICATION: HORIZONTAL WORK SURFACES

Customize table tops, bar tops, transaction counters and more using Lumicor panels fitted with Stand Offs.

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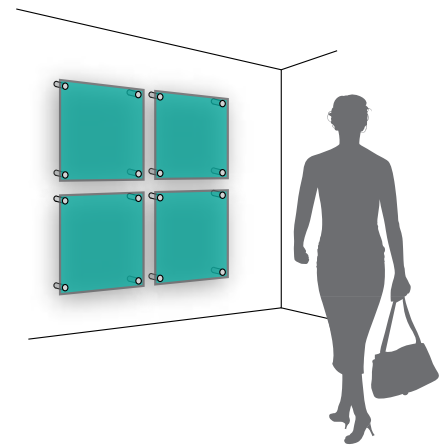
The above illustrations are to be used as guidelines only, as your individual installation may be different from these examples. They also illustrate general guidelines on mounting options for Lumicor panels based on the weight of the panel itself. For installations requiring load considerations additional engineering may be required. No safety guarantee is expressed or implied. Recycled glass requires special considerations.

STAND OFFS
Quantity & Placement: Vertical



	<i>size of sheet</i>							
	2x2	3x3	4x4	3x6	4x6	2x8	4x8	4x10
1" (24mm)								
STAND OFF QTY	4	4	4	4	4	4	6	6
3/4" (18mm)								
STAND OFF QTY	4	4	4	4	4	6	6	6
1/2" (12mm)								
STAND OFF QTY	4	4	4	6	6	6	6	8
3/8" (9mm)								
STAND OFF QTY	4	4	6	6	8	8	8	10
1/4" (6mm)								
STAND OFF QTY	4	6	9	9	9	10	12	12
3/16" (5mm)								
STAND OFF QTY	4	9	9	12	12	10	15	18
5/32" (4mm)								
STAND OFF QTY	4	9	9	12	12	10	15	18
1/8" (3mm)								
STAND OFF QTY	6	7	12	15	16	14	20	24

Lumicor does not recommend these options due to the quantity of Stand Offs required to support the panel.



PLEASE NOTE

LIGHT LOAD APPLICATIONS

The Stand Off configurations in this guide were created to support the weight of the panel only. If you plan to use Stand Offs for light load applications, as shown above, we recommend using extra Stand Offs for support. Please call us for more information or refer to our Deflection Matrix at www.lumicor.com.

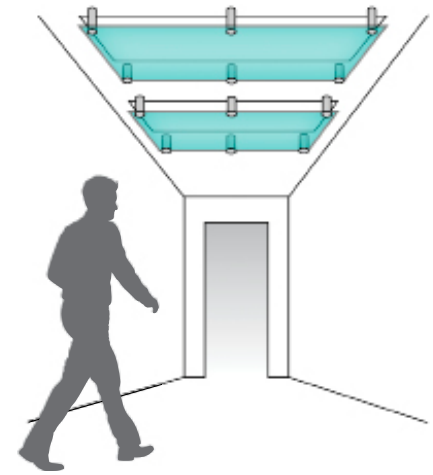
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STAND OFFS
Quantity & Placement: Horizontal



		size of sheet					
		2x2	2x4	3x6	2x8	3x8	4x8
thickness	1" (24mm)						
	STAND OFF QTY	4	4	6	8	8	8
	3/4" (18mm)						
	STAND OFF QTY	4	6	8	8	8	12
	1/2" (12mm)						
	STAND OFF QTY	4	6	12	8	12	12
	3/8" (9mm)						
	STAND OFF QTY	4	6	12	10	15	15
1/4" (6mm)							
STAND OFF QTY	6	8	15	14	18	28	
3/16" (5mm)							
STAND OFF QTY	9	12	15	18	18	28	
5/32" (4mm)							
STAND OFF QTY	9	12	20	21	21	28	
1/8" (3mm)							
STAND OFF QTY	9	12	24	21	28	35	

(Lumicor does not recommend these options due to the quantity of Stand Offs required to support the panel.)



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STAND OFFS
Quantity & Placement: Work Surfaces



		size of sheet					
		2x2	2x4	3x6	2x8	3x8	4x8
thickness	1" (24mm)						
	STAND OFF QTY	4	4	6	8	8	8
	3/4" (18mm)						
	STAND OFF QTY	4	6	8	8	12	12
	1/2" (12mm)						
	STAND OFF QTY	5	8	12	11	15	15
	3/8" (9mm)						
	STAND OFF QTY	4	6	12	10	15	15
	1/4" (6mm)						
	STAND OFF QTY	6	8	15	14	18	28
3/16" (5mm)							
STAND OFF QTY	4	6	12	10	18	28	
5/32" (4mm)							
STAND OFF QTY	9	12	20	21	21	28	
1/8" (3mm)							
STAND OFF QTY	9	12	24	21	28	35	

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PLEASE NOTE

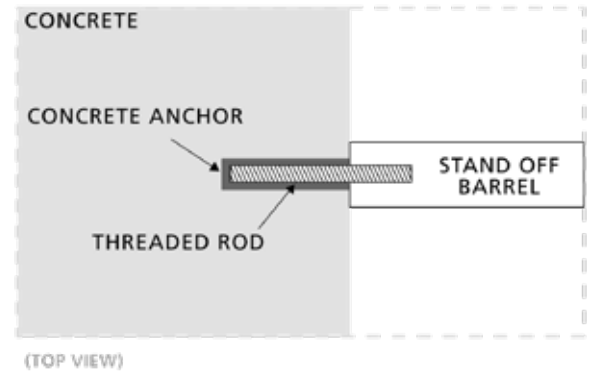
LIGHT LOAD APPLICATIONS

The Stand Off configurations in this guide were created to support the weight of the panel with a 50 lb point load applied at the weakest location of the panel to maintain a deflection under 3/16". If you plan to use stand offs for any heavy load applications, such as a transaction top, as shown above, we recommend using extra Stand Offs for support. Please call us for more information or refer to our Deflection Matrix at www.lumicor.com.

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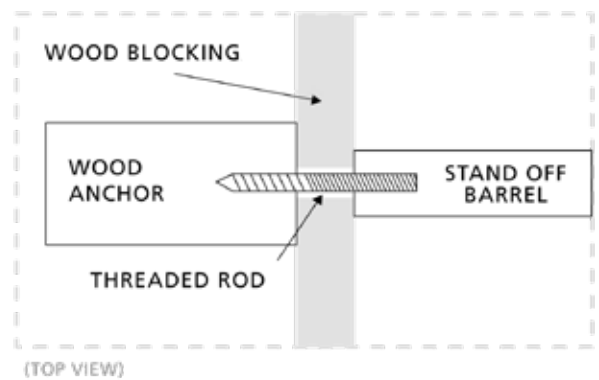
CONCRETE

Concrete anchors are used for securing Stand Offs directly into concrete. A threaded rod is inserted into the anchor. A Stand Off barrel is then attached to the rod for a secure mount.



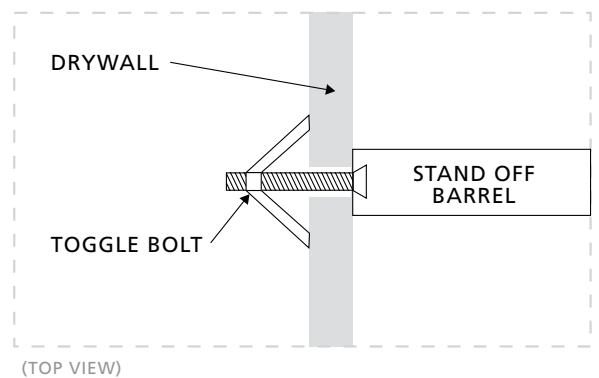
WOOD

For mounting Stand Offs to wood (or drywall over a wall stud) screw a threaded rod directly into the wood. A Stand Off barrel is then attached to the rod for a secure mount.



DRYWALL / METAL STUD / HOLLOW WALL

Lumicor strongly recommends that all mounting hardware be attached to either a wood, metal, or concrete substrate. For those instances where drywall only mounting is required, special hardware considerations are needed, including specialized hardware and flanges for additional strength.



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THERMAL EXPANSION / CONTRACTION

Lumicor recommends oversizing holes for point supports by 1/16" for every 2 linear feet between supports. Ensure holes are measured and drilled while the sheet is at room temperature.

SEALING HOLES

Lumicor recommends sealing the interior of the hole with neutral cure silicon. This is especially important in sheets that will be regularly be exposed to moisture.

GROMMETS AND WASHERS

Lumicor recommends utilizing plastic or rubber grommets around through-bolts to minimize stress concentrations. Also, washers under caps will help prevent damage to the sheet surface.

TIGHTENING / SECURING

Lumicor recommends hand tightening only. Overtightening caps with tools can result in damage to the sheet or hardware. If button caps are used, a small dab of neutral cure silicon under the cap can make them tamper resistant.

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