



# Lumira® aerogel

## Lumira® aerogel & Duo-Gard: Partnering for High-Performance Daylight Savings

### What is Lumira® aerogel?

A dry, porous, silica particulate, 97% air, non-toxic, non-combustible, completely recyclable and eco-friendly. Best of all, it's light, Cradle-to-Cradle Certified (CM) and the best thermal insulation available today!

### Why Combine Duo-Gard with Lumira® aerogel?

Duo-Gard's daylighting system combined with Lumira® aerogel particles offers a unique balance of cost savings, thermal performance, acoustic performance, visual comfort and aesthetics. We provide an attractive, practical way to manage energy and make an environmental impact on your next project.

### FEATURES & BENEFITS

- design with more daylight
- minimize solar gain/glare
- increase thermal insulation
- utilize recyclable material consisting of recycled content
- add unique aesthetics
- lower noise level
- eliminate moisture
- downsize HVAC loads
- achieve R-value 8 per inch



MEDITATION ROOM  
EXTREME HOME MAKEOVER



CABOT  
BOSTON, MA

**Clear Cellular Polycarbonate Performance Chart  
with and without Lumira® aerogel**

Thickness	Light Transmission		Shading Coefficient		U-Value	
	WITHOUT	WITH	WITHOUT	WITH	WITHOUT	WITH
10mm	80%	72%	0.92	0.81	0.52	0.26
16mm	74%	62%	0.90	0.71	0.40	0.17
25mm	72%	59%	0.82	0.70	0.34	0.11
40mm	59%	40%	0.73	0.53	0.26	0.09



LUMENHAUS  
SOLAR DECATHLON

Duo-Gard is one of the leading innovators in design/build of architectural systems for the green building industry. Our design team, engineers, fabricators and installers are experts in advanced polycarbonate technology. We custom design/build around your specs.



Member of  
The American  
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