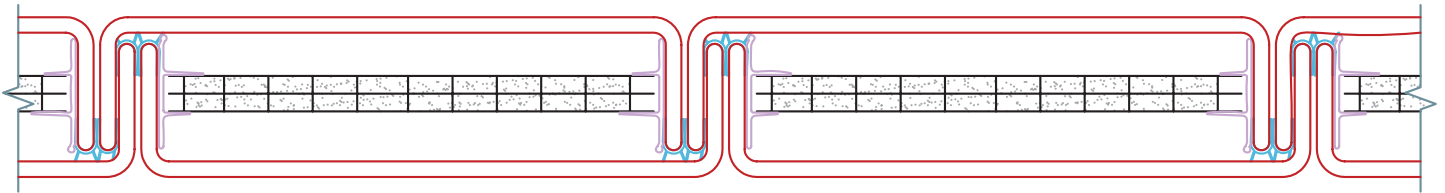


PILKINGTON PROFILIT™ CHANNEL GLASS SYSTEM WITH LUMIRA® AEROGEL INSULATION

Pilkington Profilit can be filled with Lumira® aerogel, a new class of lightweight insulation material produced by Cabot Corporation which is ideally suited for daylighting design. The exceptional thermal performance of Lumira aerogel helps increase energy efficiency. Lumira aerogel also promotes soft, even light dispersion, reduces unwanted noise and resists condensation. Technical Glass Products (TGP) is the exclusive supplier of Lumira aerogel.

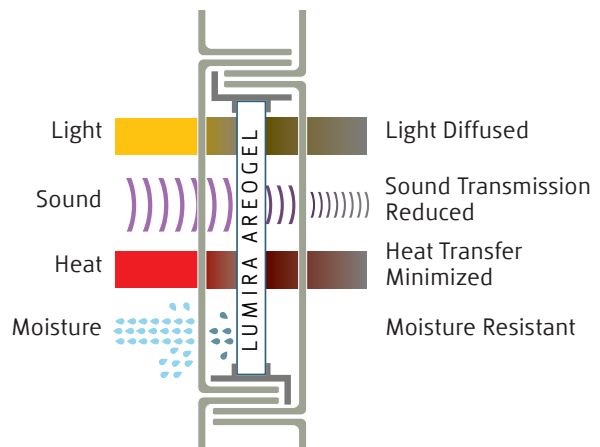
Lumira aerogel, a translucent surface-treated amorphous silica, is a safe and non-hazardous material. It is encased in 16 mm polycarbonate panels centered in the Pilkington Profilit channel glass cavity, which protect the aerogel against exposure to moisture, dirt and other debris. Lumira aerogel features an easy to install, fully finished polycarbonate panel held in place by snap-on centering clips to hold the panel in place within the glazing cavity, without slumping or sagging, during or after installation. No special tools are required.

Combined with Pilkington Profilit channel glass, all the components of the system are safe, recyclable and environmentally friendly. For projects requiring extra thermal performance, contact TGP for custom Lumira aerogel information.



KEY BENEFITS

INCREASES LIGHT DIFFUSION	Eliminates glare, allows soft, even, light dispersion
IMPROVES ACOUSTIC PERFORMANCE	Minimizes unwanted noise
EXCEPTIONAL THERMAL PERFORMANCE	Reduces heat loss and minimizes solar heat gain
UV STABLE	Maintains performance over time
RESISTS MOISTURE	Prohibits growth of mold, mildew and fungus
PROVIDES GREEN SOLUTIONS	Reduces building design loads and conserves energy
ADHERES TO GUIDELINES	Meets and exceeds strict building codes
EASY TO INSTALL	No special tools needed



WHAT IS AEROGEL?

Aerogel is a unique form of highly porous, non-hazardous silica, described as a lattice work of glass strands with very small pores and extremely low solids content (5% solid, 95% air). It is known as the lightest weight and best insulating solid in the world.

PERFORMANCE ANALYSIS: PRELIMINARY TEST RESULTS

K 25/60 SERIES PROFILIT	UNINSULATED	LUMIRA AEROGEL PANEL* 16MM (CLEAR)	LUMIRA AEROGEL PANEL* 25MM (CLEAR)
U VALUE (GLASS ONLY)	0.49	0.21	0.19
LIGHT TRANSMISSION	70%	50%	38%
SOLAR HEAT GAIN COEFF. (SHGC) COEFF. (SHGC) (NFRC 200)	0.63	0.42	0.31
SOUND TRANSMISSION COEFF. (STC) - (E 90)	42	44	44
CONDENSATION RESISTANCE FACTOR (CRF) (AAMA 1503)	G 70 F 60	G 79 F 60	G 79 F 60

* Additional Lumira aerogel options, including polycarbonate colors and 25 mm panels for increased performance, are available. Please contact TGP.

CENTERING CLIP FOR LUMIRA AEROGEL SYSTEM

