

PRODUCT PROFILE



NANOSEL® AEROGEL AND U-SHAPED GLASS: INTRODUCING AN INNOVATION TO THE U-CHANNEL MARKET

Advantages of Nanogel Aerogel:

- High thermal insulation: 0.018 (W/m.K)
- Very high light transmission and diffusion
- Low weight: 60 - 80 kg/m³
- Better sound insulation
- Aesthetics
- Reduced glare
- Resistance to UV light
- Hydrophobic

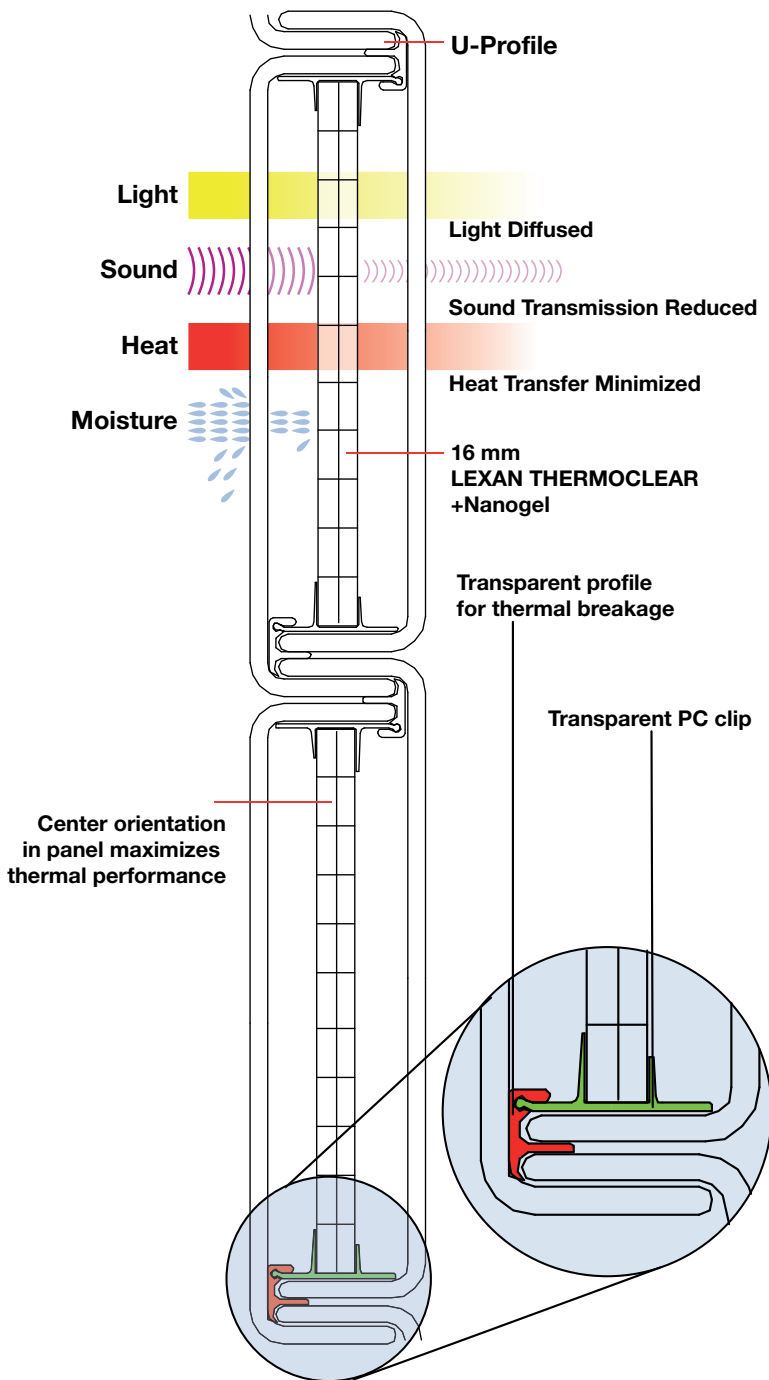
Advantages of U-shaped glass:

- Available in long channels (up to 6 m)
- Allows natural light in while maintaining privacy
- Energy efficient
- Excellent light transmission: 70%
- Sound insulation (up to 42 dB)
- Can be utilized in curved walls
- Installs vertically or horizontally
- Self supporting elongated U-shaped glass channels in an extruded aluminum perimeter frame provide additional structural strength
- Ideal for large exterior glass facades, interior walls and glass partitions in a wide range of building types
- Minimal maintenance
- Proven performance (used in Europe for more than 30 years)
- Excellent alternative to glass block and other translucent materials for use in commercial and residential applications
- Wired channels available for increased impact safety
- U-Value: 2.84
- Solar heat gain coefficient: 0.69

Target applications:

- Shopping centers
- Swimming pools
- Sport halls
- Industrial buildings
- Walkways
- Office buildings
- Partition walls
- Apartment buildings

Technical Characteristics



U-Profiles and Nanogel:

- Combination of aerogel insulation performance and panel orientation increases thermal and acoustic insulation
- Museum quality light
- Reduces overall energy consumption
- Enhanced cost-effective daylight design
- Possibility to meet building codes without trade-offs
- System that resists mold and fungus; no condensation
- System that is environmentally friendly
- Permanent performance
- Simplified installation: no breakages
- Improved sound insulation (46 dB)

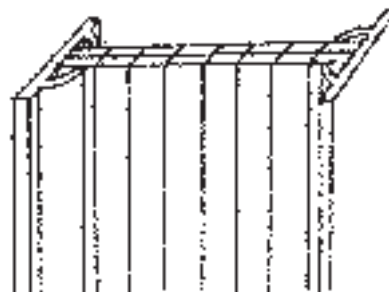
U-shaped glass	U-value (W/m ² .K)	Light transmission (%)	Sound test (dB)
Non insulated glass	2.84	70	42
+ Nanogel in 16 mm PC	1.81	47	44
+ Nanogel in 25 mm PC	1.6	30	46

LEXAN® THERMOCLEAR® + Nanogel

- UV protection on both sides
- Vertical channels provide aesthetic effect

Clips for installation of U-shaped glass:

- Keep panel rigid
- Hold panel in centre of channel to allow air flow over both faces



Panel held in place by PC clip



NANO GEL
Cabot
 Interleuvenlaan 15 i
 B-3001 Leuven
 Tel. +32 16 39 25 78
 Fax +32 16 39 25 79
 EU_Sales_Nanogel@cabot-corp.com

www.nanogel.com

This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. This information may contain inaccuracies, errors or omissions and CABOT DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO (i) SUCH INFORMATION, (ii) ANY PRODUCT OR (iii) INTELLECTUAL PROPERTY INFRINGEMENT. In no event is Cabot responsible for, and Cabot does not accept and hereby disclaims liability for, any damages whatsoever in connection with the use of or reliance on this information or any product to which it relates.