

Thermal Film Frosted

Installation Guide & Technical Application Standards

High-performance nanotechnology based on ceramic microspheres.

Operational Readiness & Environmental Limits

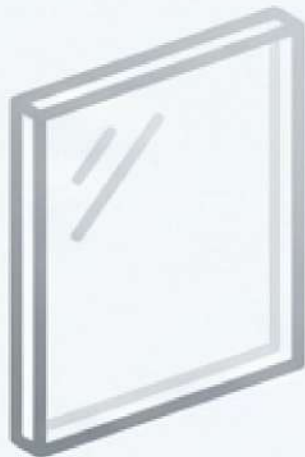


Temperature: Install between 0°C and 35°C.

Warning: Do not install if glass is <0°C (wait 3 days).

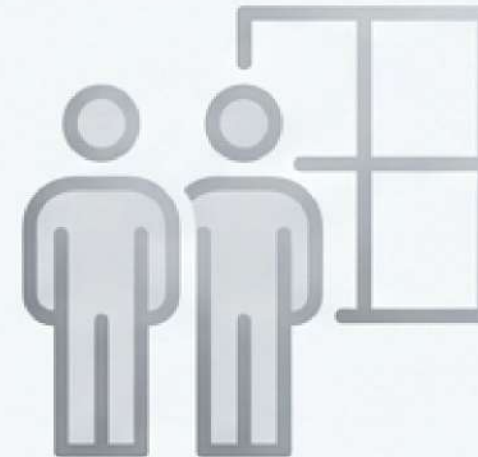


Solar Exposure: Avoid direct sunlight during application.



Surface Compatibility: Smooth, clean glass only.

Prohibited: Frosted, textured, plastic, polypropylene, or damaged/cracked glass.



Team Requirement: Two installers recommended for windows >1 meter wide.



Surface Preparation Protocol

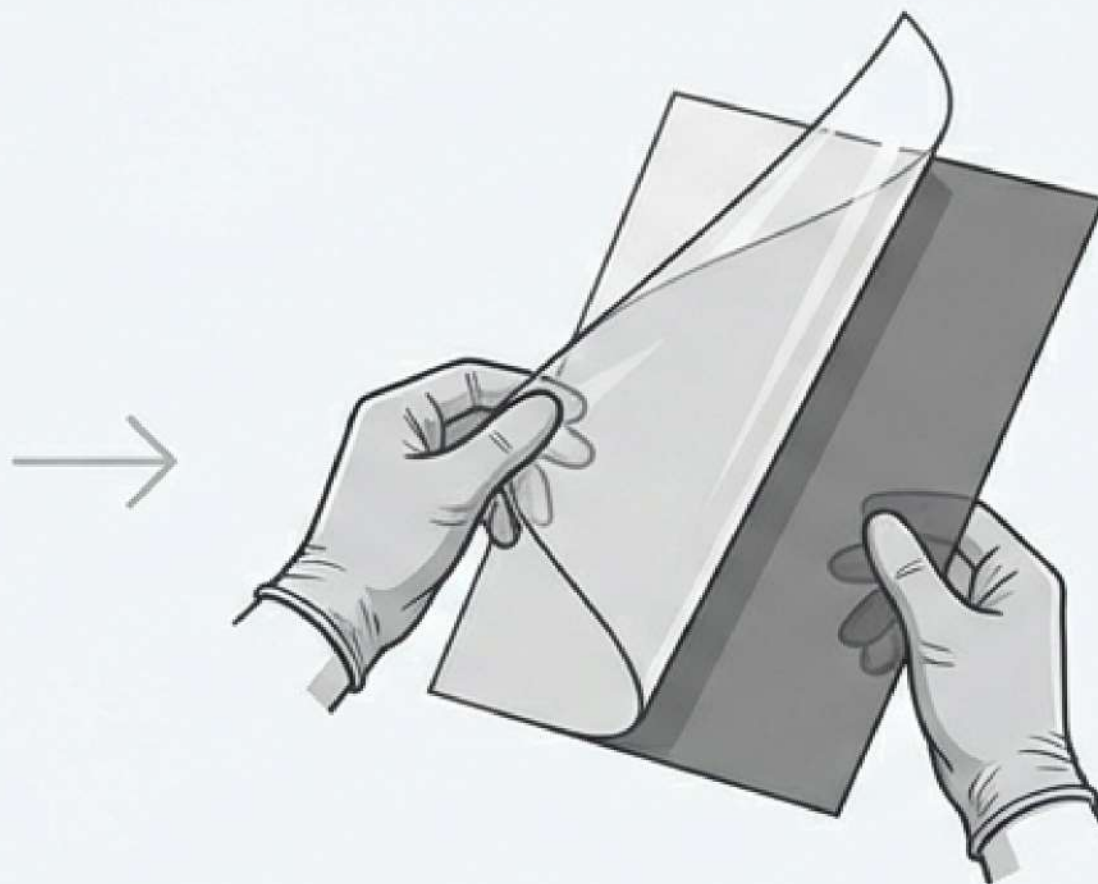
1. **Decontamination:** Glass must be completely free of dust, dirt, and paint splashes.
2. **The Frame:** Wipe down frame/edge contact points with a damp cloth to prevent edge contamination.
3. **Mechanical Cleaning:** Use a scraper to remove stubborn surface dirt.

Insight: Clean the outer surface of the glass as well. This provides a clear visual contrast to identify dirt remaining on the inner surface during the final check.

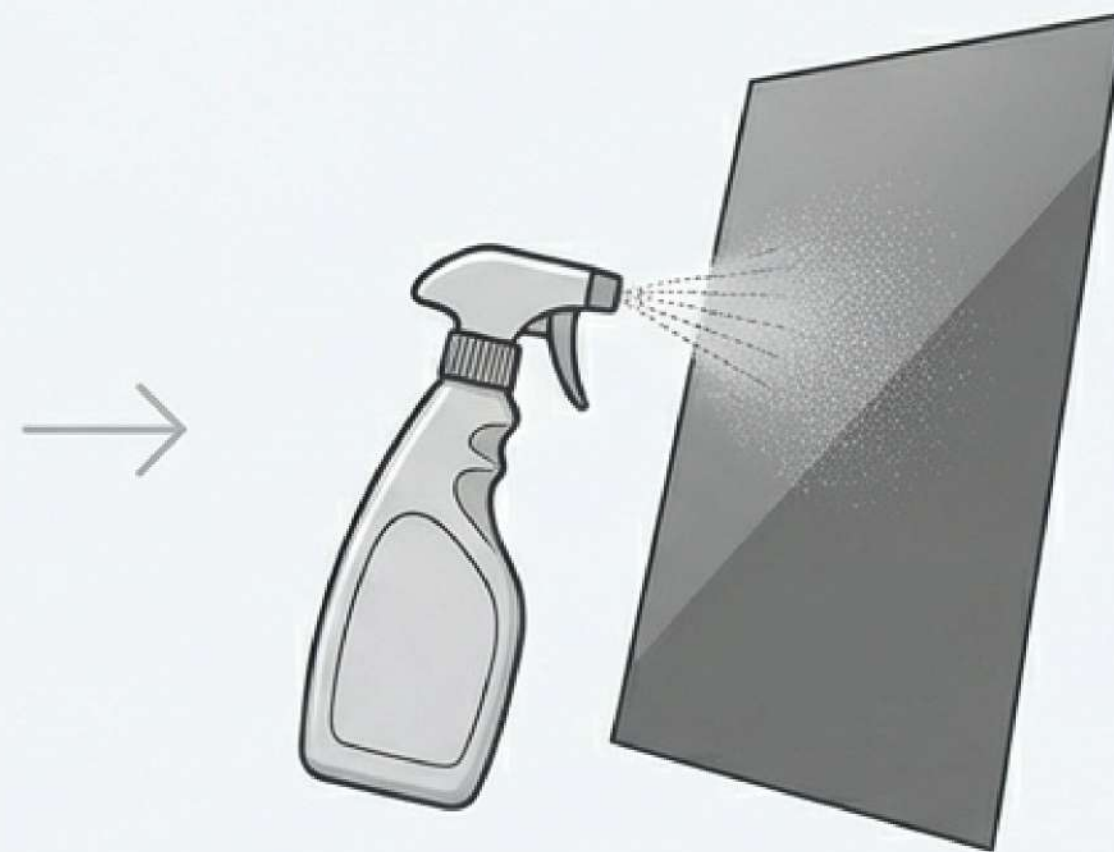
Fluid Application & Liner Removal



Step 1: Generously spray soapy solution on the glass.



Step 2: Carefully remove back cover. **Warning:** Avoid contact with clothing or dust.



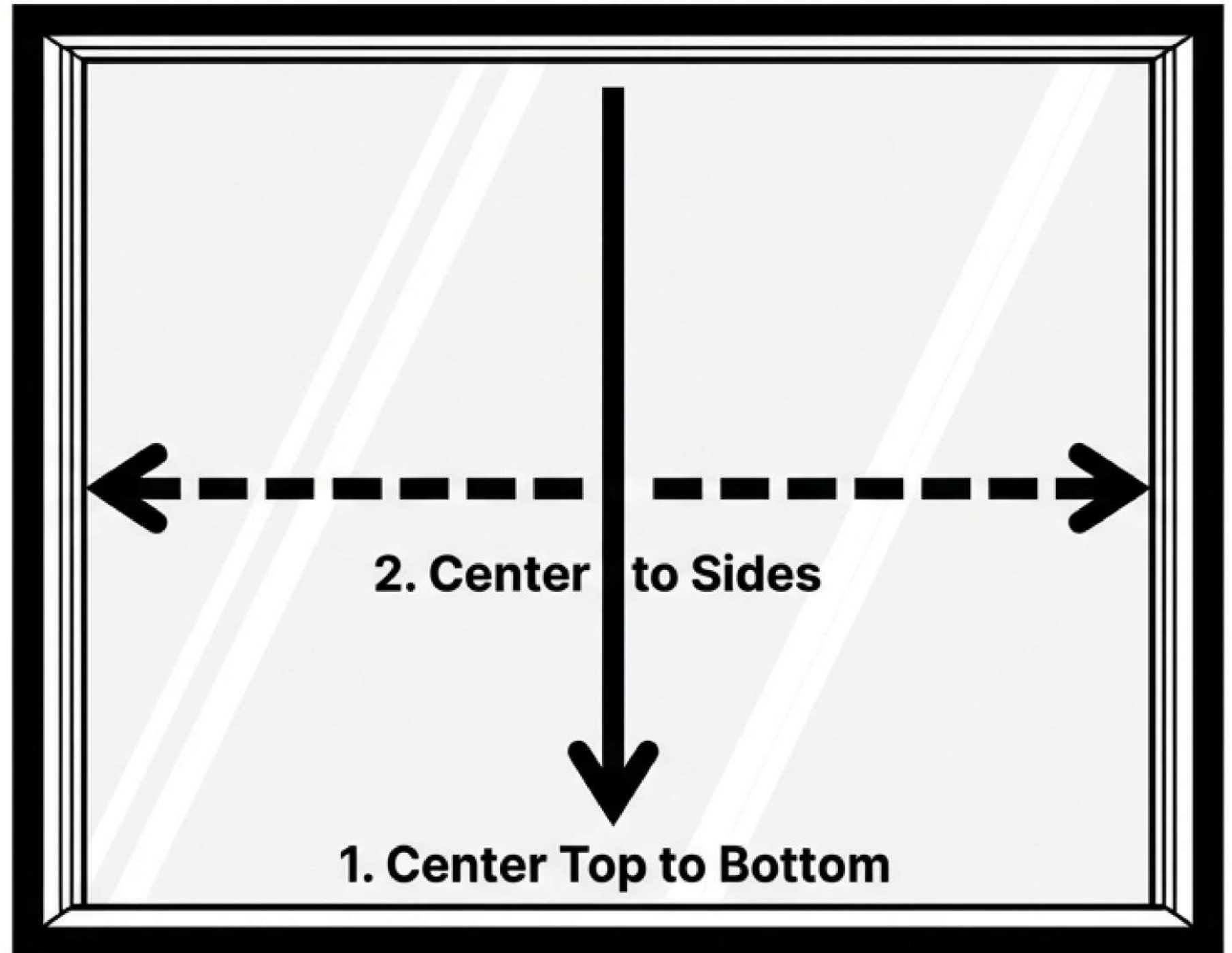
Step 3: Immediately spray adhesive side to neutralize static and facilitate positioning.

Handling: Keep film flat to prevent bending or creasing.

Positioning & Squeegee Technique

- **Glide:** Spray the front of the film with soapy solution before squeegeeing.
- **Tool Tip:** Wrap squeegee in a damp cloth to absorb moisture and protect surface.
- **Correction Window:** Reposition within 24 hours if bubbles persist.

Handling: Keep film flat to prevent bending or creasing.



Trimming & Edge Management



The Golden Rule: Leave a 1 mm gap between the film and the window frame.

- **Why?** Accommodates thermal expansion and contraction to prevent edge lifting.
- **Final Pass:** Re-wet and squeegee edges after trimming.

Handling: Keep film flat to prevent bending or creasing.

The Curing Timeline



Maintenance & Aftercare

Approved



Rubber Squeegee



Soft Cloth

- Standard soap solution or window cleaner.

Prohibited



Abrasive Brushes



Solvent-based Cleaners

Storage: Unused film shelf life is 3 years (store 5°C - 45°C, away from sun/moisture).

Technical Specifications

Nanotechnology with ceramic microspheres

Appearance	Very light grey / Transparent
Visible Light Transmission (VLT)	67% (Retains luminosity)
Total Solar Energy Rejected (TSER)	49%
UV Reflection	98%
Thickness	50 μm
Safety Feature	Holds glass fragments together in case of breakage

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Innovation in Protection.



The information provided is based on extensive practical experience and laboratory tests.
Practical tests are recommended to ensure compatibility for each specific application.