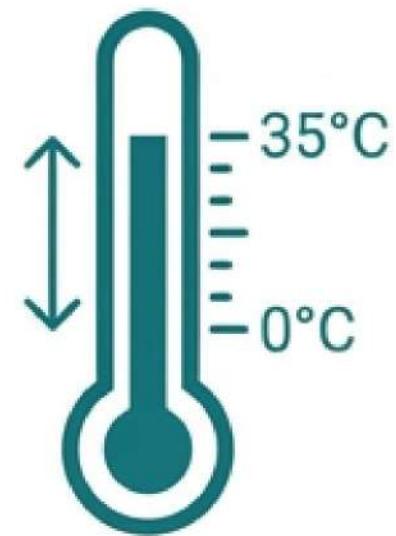


# **NANOCERAMIC THERMAL FILM**

## APPLICATION GUIDE & TECHNICAL SPECIFICATIONS

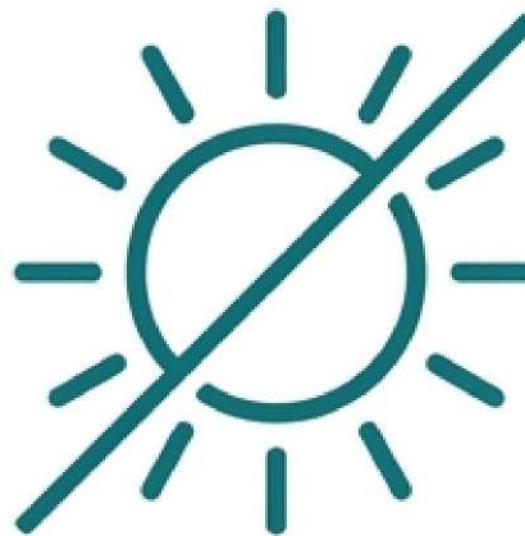
FALCONSTEMA – INNOVATION IN THERMAL AND ACOUSTIC INSULATION

# THE CONDITIONS



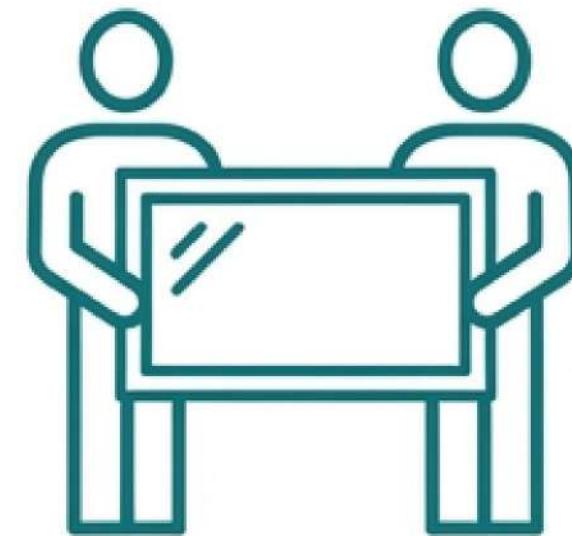
## TEMPERATURE

Install between 0°C and 35°C.  
Avoid if frost is expected within 3 days.



## LIGHT

Do not apply in direct sunlight.



## SCOPE

Windows > 1 meter wide  
require two installers.

# THE CANVAS: SURFACE PREPARATION



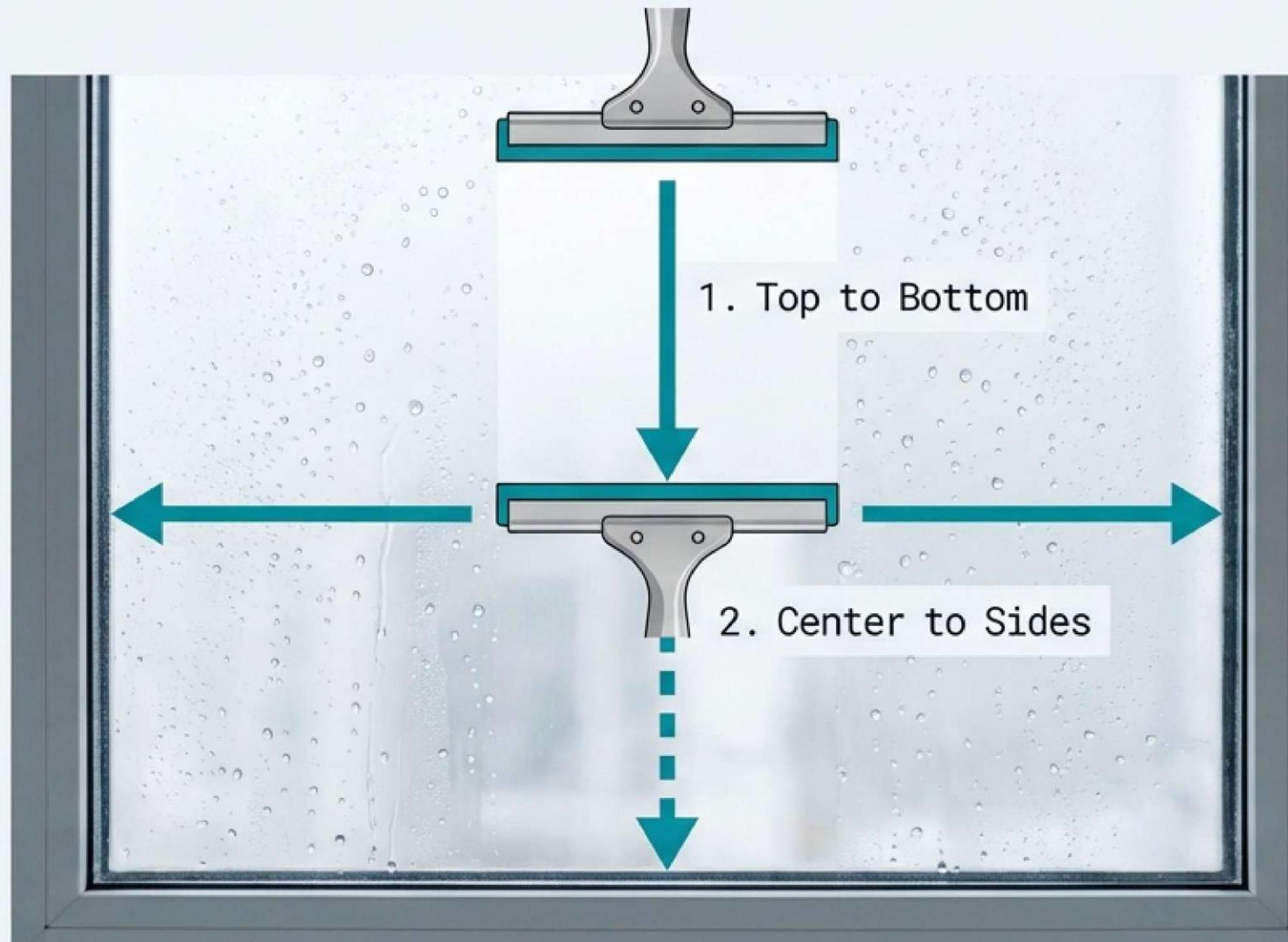
- ✓ Standard: Support must be smooth, clean glass.
- ✓ Prohibited: No frosted, textured, plastic, or defective surfaces.
- ✓ Action: Deep clean to remove dust, grease, and paint.
- ✓ Detail: Clean the outer surface to help identify inner dirt.
- ✓ Tooling: Use a scraper for stubborn dirt. Wipe frames with a damp cloth.

# FLUID POSITIONING



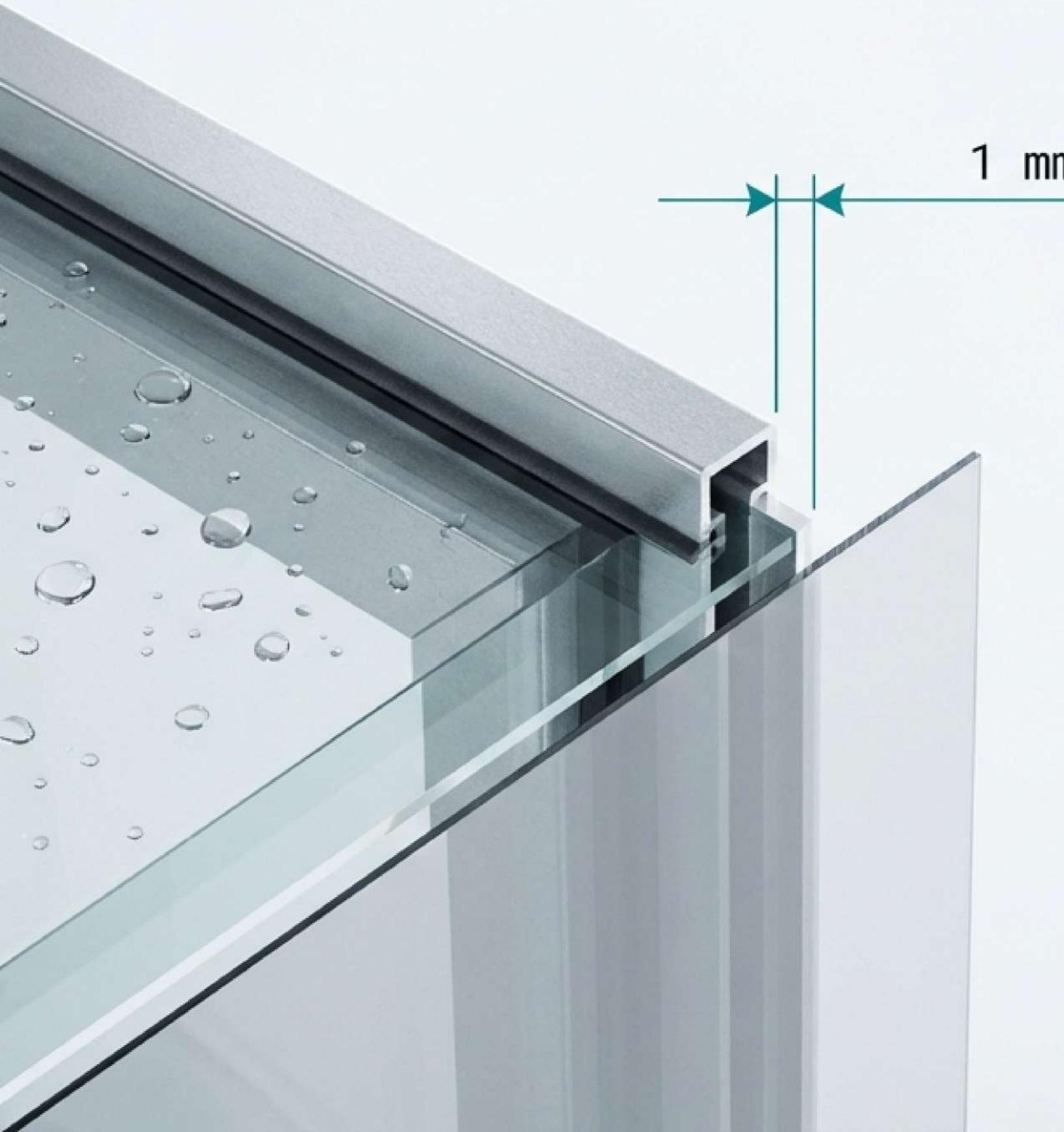
- ✓ **THE CATALYST:** Generously spray a soapy solution on both the glass and the film.
- ✓ **PURPOSE:** Lubrication facilitates gliding and perfect positioning.
- ✓ **HANDLING:** Remove back cover carefully. Ensure adhesive never touches clothing or dust.
- ✓ **WARNING:** Keep film flat to prevent creasing.

# EXTRACTION & ADHESION



- ✓ **LUBRICATION:** Spray soapy solution **OVER** the installed film before squeegeeing.
- ✓ **GOAL:** Remove all bubbles and excess moisture.
- ✓ **CORRECTION:** Film can be removed and repositioned within 24 hours if bubbles persist.

# THE PRECISION TRIM



1 mm



## THE RULE:

Leave exactly 1 mm gap from the window frame.



## THE REASON:

Prevents lifting during thermal expansion.



## FINAL TOUCH:

After cutting, re-wet and squeegee edges to seal.

# MATURATION & MAINTENANCE



NEVER use abrasive brushes or solvent-based products.

# TECHNICAL SPECIFICATIONS

Thickness	50 µm
Appearance	Very light grey / Transparent
Visible Light Transmission	67%
Total Solar Energy Rejected (TSER)	49%
UV Reflection	98%
IR Reflection	91%
Solar Protection Index (SPF)	+285
Safety	Scratch resistant; holds glass shards

# Help Us Help You 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.