



Pilkington **Activ™**
Residential Applications



Pilkington **Activ**™

How it works

Pilkington **Activ**™ uses daylight to break down and loosen dirt on the glass surface which is then washed away by rain, reducing the need for frequent manual window cleaning. In dry weather conditions, spraying the glass with a hose has a similar effect.

Pilkington **Activ**™ uses UV energy from the sun, abundant even on cloudy, overcast days, to keep windows naturally clean with:

- A photocatalytic process that loosens dirt and gradually breaks down organic residue so it doesn't adhere to the glass.
- A hydrophilic action that causes rain to sheet on the glass, carrying dirt away with minimal spotting or streaking.

For best results, the Pilkington **Activ**™ coating should face the outside of the building on surface #1. It can be used in a monolithic or standard insulating glazing unit (IGU) application, just needing a few days of daylight to activate.

Features and Benefits

- Reduces cleaning time and cost
- Breaks down dirt naturally
- Water sheets off easily (no streaks)
- No need for re-treatment
- Eco-friendly
- UV control properties
- Easy to bend, temper and laminate
- Color neutral

Applications

- Homes
- Apartments
- Condos
- Enclosed patios



Activation starts with sunlight



Sunlight loosens dirt on the glass



Rain washes the loosened dirt

	Nominal Glass Thickness		Visible Light (%)			Solar Energy (%)			U-Factor (Btu/hr·ft ² ·°F)		Solar Heat Gain Coefficient	Shading Coefficient
	in.	mm	Transmittance	Reflectance		Transmittance	Reflectance	UV Transmittance	Summer	Winter		
				Outside	Inside							
Pilkington Activ ™ self-cleaning (coating on #1 surface)												
	1/8	3	84	15	15	80	12	49	0.94	1.04	0.82	0.95
	5/32	4	83	15	15	79	12	47	0.93	1.04	0.81	0.94
	1/4	6	82	15	15	75	12	44	0.92	1.02	0.79	0.90

U-Factor (Btu/hr·ft²·°F) is based on NFRC/ASTM standards. All performance values are center-of-glass values calculated using the LBNL Window 7.7 program.



This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, and "Energy Advantage" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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January 2026