



# Pilkington Mirropane T.M.™ Transparent Mirror Glass

*Innovation in observation.*



**PILKINGTON**

*First in Glass*

# Pilkington Mirropane T.M.<sup>TM</sup> Transparent Mirror Glass

Developed to provide the highest level of performance in the market (requires only an 8:1 light ratio), this glass produces the optimal mix of tint and reflectivity, perfect for enhanced security and undetected observation.



View from subject-side in a child care application.



View from observer-side.

Note: Cover image depicts actual Pilkington Mirropane T.M.<sup>TM</sup> Glass in use, cut-away to show observer in a focus group application.



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Pilkington Mirropane T.M.<sup>TM</sup> Transparent Mirror Glass and Optifloat<sup>TM</sup> Grey Tinted Glass are trademarks of Pilkington.

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## Product Description

Ideal for surveillance, security and administrative applications, Pilkington **Mirropane T.M.<sup>TM</sup>** Transparent Mirror Glass creates a visual barrier between subjects and their observers, performing like an ordinary mirror on one side and a tinted window on the other.

## Product Features

- **HIGH REFLECTIVITY AND LIGHT TRANSMITTANCE** allow privacy with crisp, unobtrusive vision into the observed room.
- **DURABLE, PYROLYTICALLY DEPOSITED COATING** offers significantly better scratch and abrasion resistance than vacuum-coated products. A transparent mirror is created by applying a reflective silver-colored coating on 1/4" (6mm) Pilkington Optifloat<sup>TM</sup> Grey Tinted Glass.
- **POST HEAT-TREATABLE** for maximum strength, it can be handled, cut, insulated, laminated and tempered.
- **EXCELLENT AVAILABILITY** for ease of inventory and replenishment. Pyrolytic coating allows for easy handling, fabrication and storage.
- **AVAILABLE IN 1/4" (6mm) thickness.**
- **IDEAL FOR SURVEILLANCE**, security in commercial settings, correctional institutions and child care businesses, hospital observation, worker monitoring and distinctive interior designs.



Cut-away view of security application.

## Design Considerations

- **ORIENTATION:** Install transparent mirror with the reflective surface facing the brightly lit subject-side. Due to improved properties, this glass allows a wall to be completely glazed from floor to ceiling when there is no lighting on the viewing side.
- **TYPE OF LIGHTING:** Subject-side lighting should be bright and evenly distributed over all walls and furnishings, but should not shine directly onto the transparent mirror. Observer-side lighting should be dim with no open light sources. Opaque lamp shades are recommended for best results.
- **BACKGROUND COLORS:** Subject-side should be bright and light in color and shade to create a bright reflected image. Observer-side décor should be subdued, non-reflective, dark and uniform.
- **DISTANCES AND LIGHT LEVELS:** On the observer-side, keep people, objects and light sources at a distance from the transparent mirror area. An 8:1 light ratio is recommended, with the subject-side brightly lit.
- **CLEANING:** Use standard glass cleaners or mild detergents. Do not use abrasives, opaque liquid cleaners, razor blades or acid-based cleaners.
- **ADDITIONAL RESOURCES:** Refer to Technical Bulletin ATS-125 for additional details at [www.pilkington.com](http://www.pilkington.com).

## Vision Area Coating Quality Specifications

The reflective coating shall meet the performance specifications as published. Coating quality will meet ASTM C 1376. A light level ratio of at least 8:1 from bright (subject) side to dark (observer) side shall be maintained for effective operation.

## Pilkington Mirropane T.M.<sup>TM</sup> Performance Data<sup>1</sup>

Nominal Glass Thickness		Glass Substrate	Visible <sup>2</sup> Transmittance	Visible <sup>2</sup> Reflectance On The Coated Side	Recommended Light Ratio	Proper Glazing
in.	mm		%	%		
1/4	6	Grey	11	71	8:1 Subject-side:Observer-side	Mirror coating toward subject-side

1. Typical values of Pilkington production are provided.

2. Visible data is based on laboratory spectrophotometric measurements weighted by the factors in W5\_NFRC\_2003.STD in LBNL Window 5.2 software.