Pilkington **Mirropane T.M.**™ Transparent Mirror Glass

Innovation in observation.

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First in Glass

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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.™ Glass in use, cut-away to show observer in a focus group application.

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Form No. 0504/7M/3444/BP

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Product Description

Ideal for surveillance, security and administrative applications, Pilkington **Mirropane T.M.**™ 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 1/4ý (6mm) Pilkington Optifloat™ 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.

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.**™ Performance Data[1]

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

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.