

NSG

GROUP

Products for Internal Application

- Pilkington **Eclipse™** Gold
- Pilkington **Optiwhite™** F
- Pilkington **OptiShower™**
- Pilkington **OptiView™**
- Pilkington **Mirropane™** Chrome
- Pilkington **MirroView™**

Pilkington **Eclipse**[™] Gold

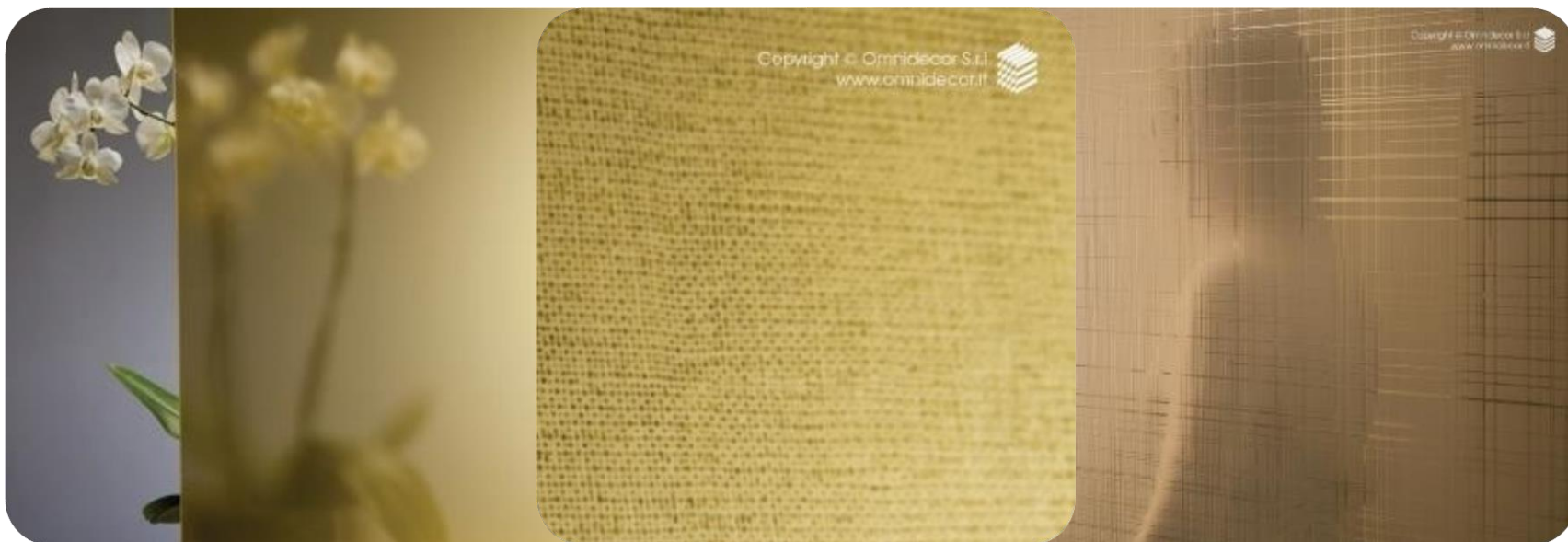
Pilkington **Eclipse™** Gold



Salone del Mobile Fair, 2018

- In interior design applications, it gives to the interior a glamorous golden look

*Decorflou® Gold made by **Omnidecor***



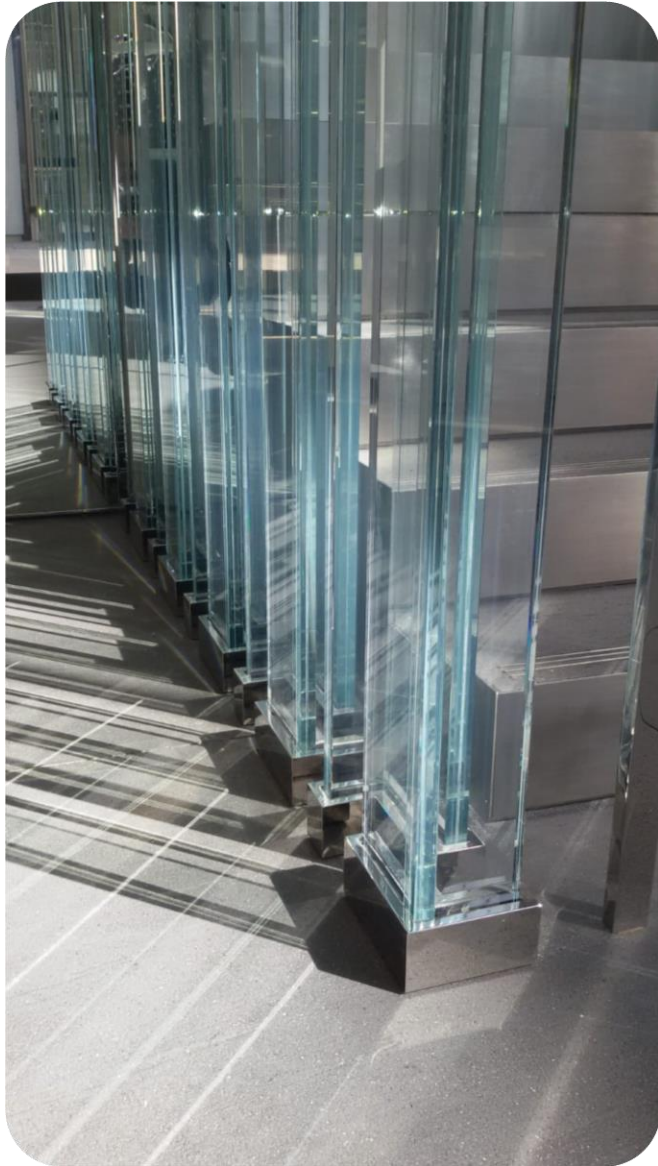
Pilkington **Optiwhite™** Range

Pilkington **Optiwhite**[™] range

Pilkington **Optiwhite**[™] is the substrate of several products:

- Pilkington **Optiwhite**[™]
- Pilkington **Optilam**[™] OW* / Pilkington **Optiphon**[™] OW
**even with coloured interlayers*
- Pilkington **Optilam**[™] Therm OW / Pilkington **Suncool**[™] OW
- Pilkington **K Glass**[™] N OW /
Pilkington **Optilam K Glass**[™] N OW
- Pilkington **Optiwhite**[™] Opal
- Pilkington **Optimirror**[™] OW
- Pilkington **OptiView**[™] OW
- Pilkington **OptiShower**[™] OW

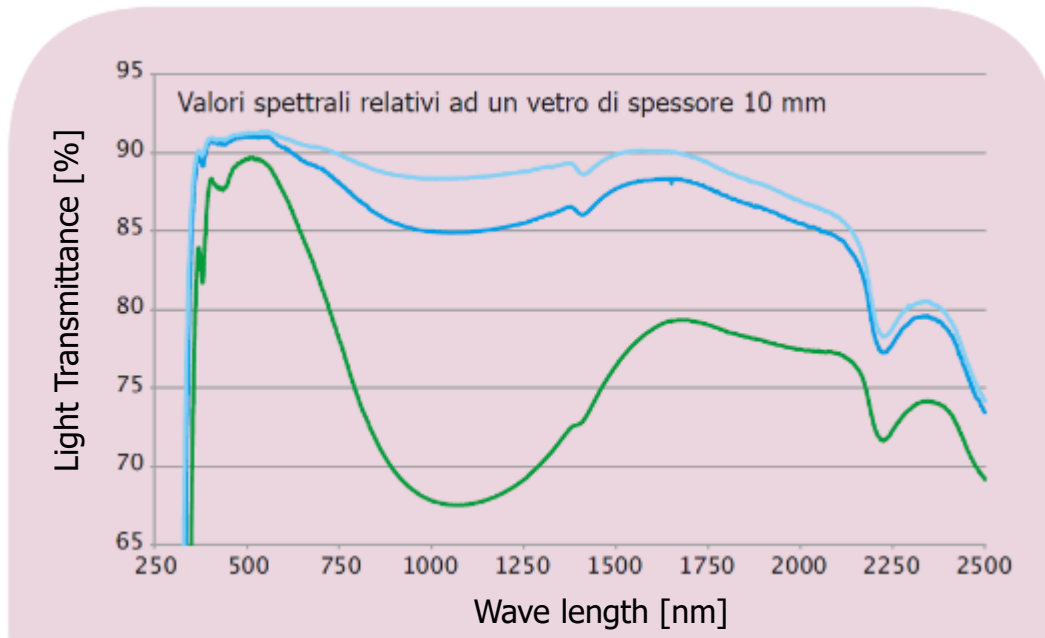
Pilkington Optiwhite™



Pilkington **Optiwhite™** F

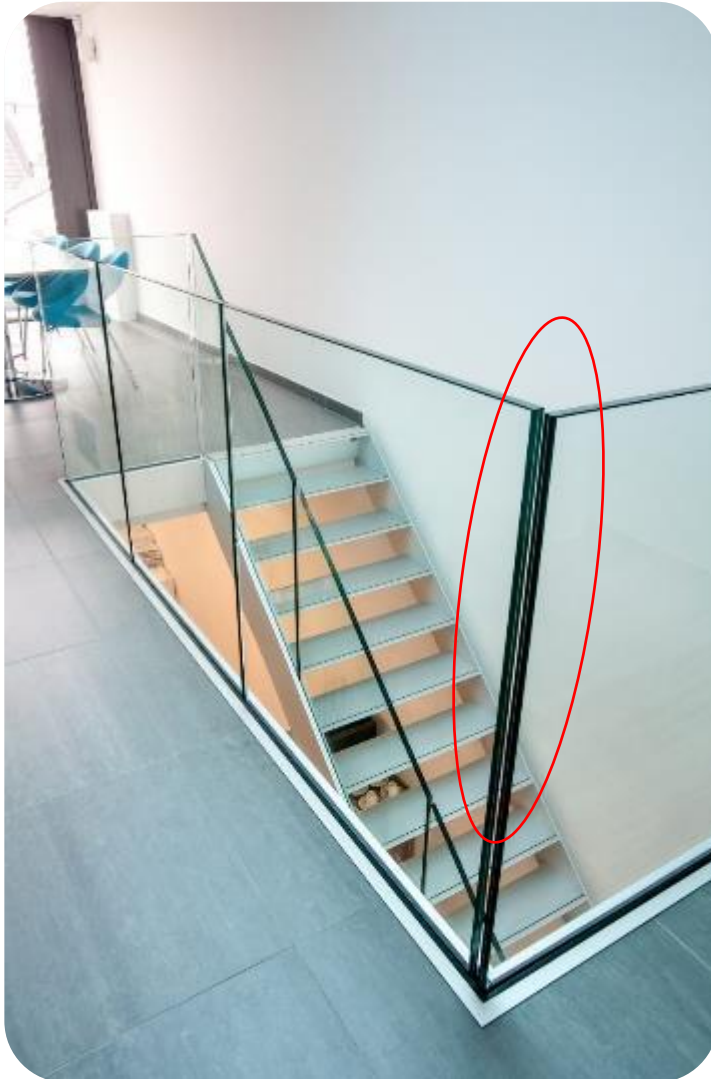
Pilkington **Optiwhite™** F

- Low-iron glass for furniture sector, with perfectly neutral edges.
- Excellent and consistent colour neutrality, due to raw materials selection and highly technological process
- Suitable for application with unframed edges and products to be acid-etched or enamelled with light colours
- Easy to process



- Pilkington **Optifloat™** Clear
- Pilkington **Optiwhite™**
- Pilkington **Optiwhite™** F

Pilkington **Optiwhite™** F



- In fully frameless balustrades, due to the strong thickness, you can perceive the colour of low-iron glass
- Pilkington **Optiwhite™** F is the ideal glass for applications with highlighted edges
 - Table tops, wall panels and kitchen countertops especially if **enamelled**
 - Tins/beams for structural applications
- Available on 8, 10 and 12 mm
Jumbo and super Jumbo

Pilkington **OptiShower™**

Pilkington **OptiShower™**



Anti-corrosion glass for glass enclosures

- **On-line coating**
 - highly resistant to abrasion
 - durable, it does not deteriorate during the lifetime of the shower enclosure
- Easy to process : it can be toughened, bended, laminated and also screen printed on the coated side.
- It can be further treated with water repellent treatments to help make the water slide off the glass faster making it easier to clean and giving better protection.
 - It allows these subsequent treatments to adhere better to the glass
 - It increases their durability

Comparative Analysis



- The coated glass Pilkington **OptiShower™** shows no oxidation after aging tests at high temperatures and humidity

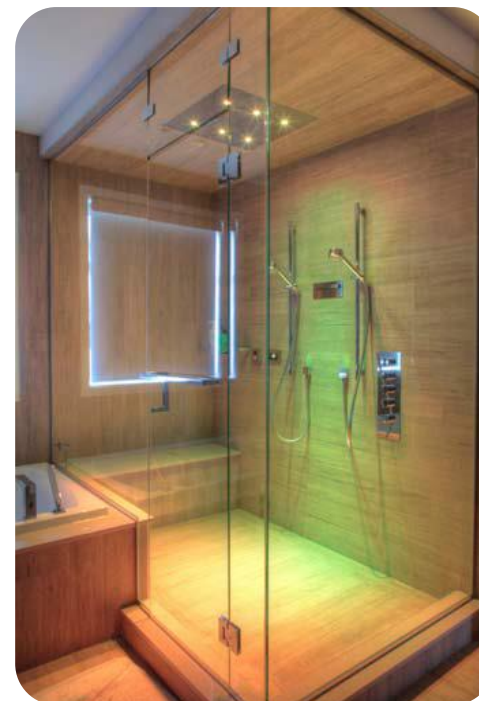
- It makes the **water slide off** the glass **faster**, without leaving any trace
- It allows **easier cleaning**
- The coating retains its properties over time.



Pilkington OptiShower™

- **Availability**
 - 6, 8 and 10 mm
 - both clear and low-iron

- **Literature**
 - Product documentation
 - Handling and Processing GL
 - Cleaning GL



- **Tools:**
 - Coated side label
 - **Coating detector**



Antireflective products range

Pilkington solutions

Every application has its ideal product:

- Pilkington **Galleria™** 2 mm – patterned glass
- Pilkington **OptiView™** – online coated glass, even on low iron

BEST PRODUCT FOR SHOPWINDOWS

- Pilkington **OptiView™** Ultra – offline coating on low-iron
- Pilkington **OptAR™** – online coating



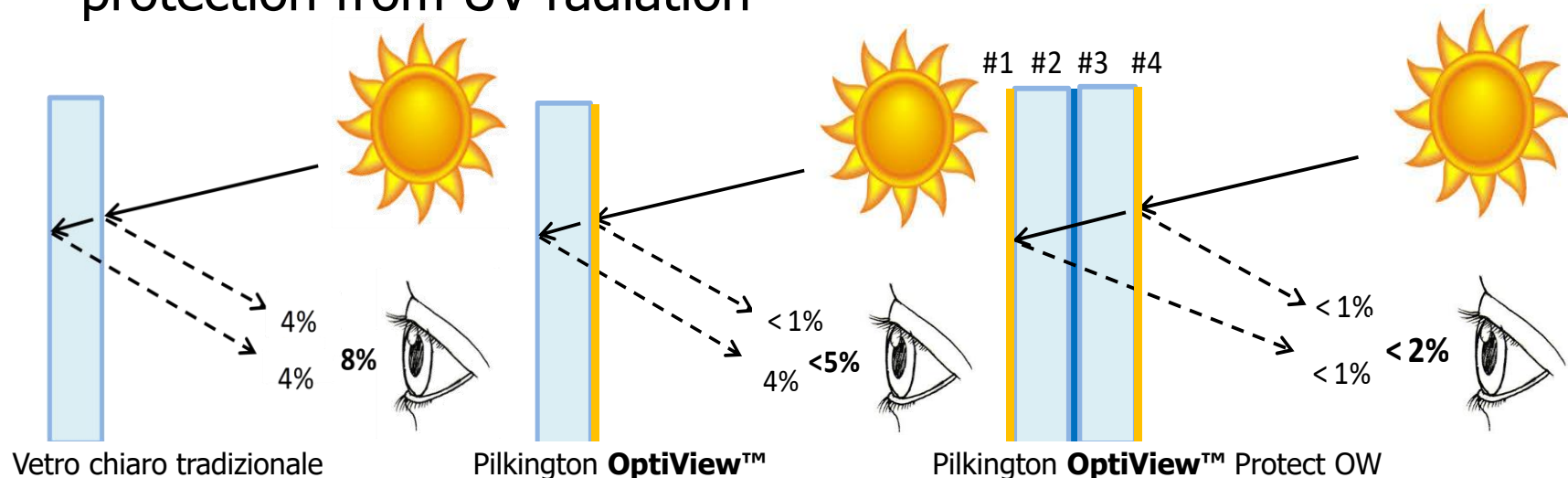
Photos: Pino & Nicola Dell'Aquila

Pilkington **OptiView**[™] OW Pilkington **OptiView**[™] Protect OW

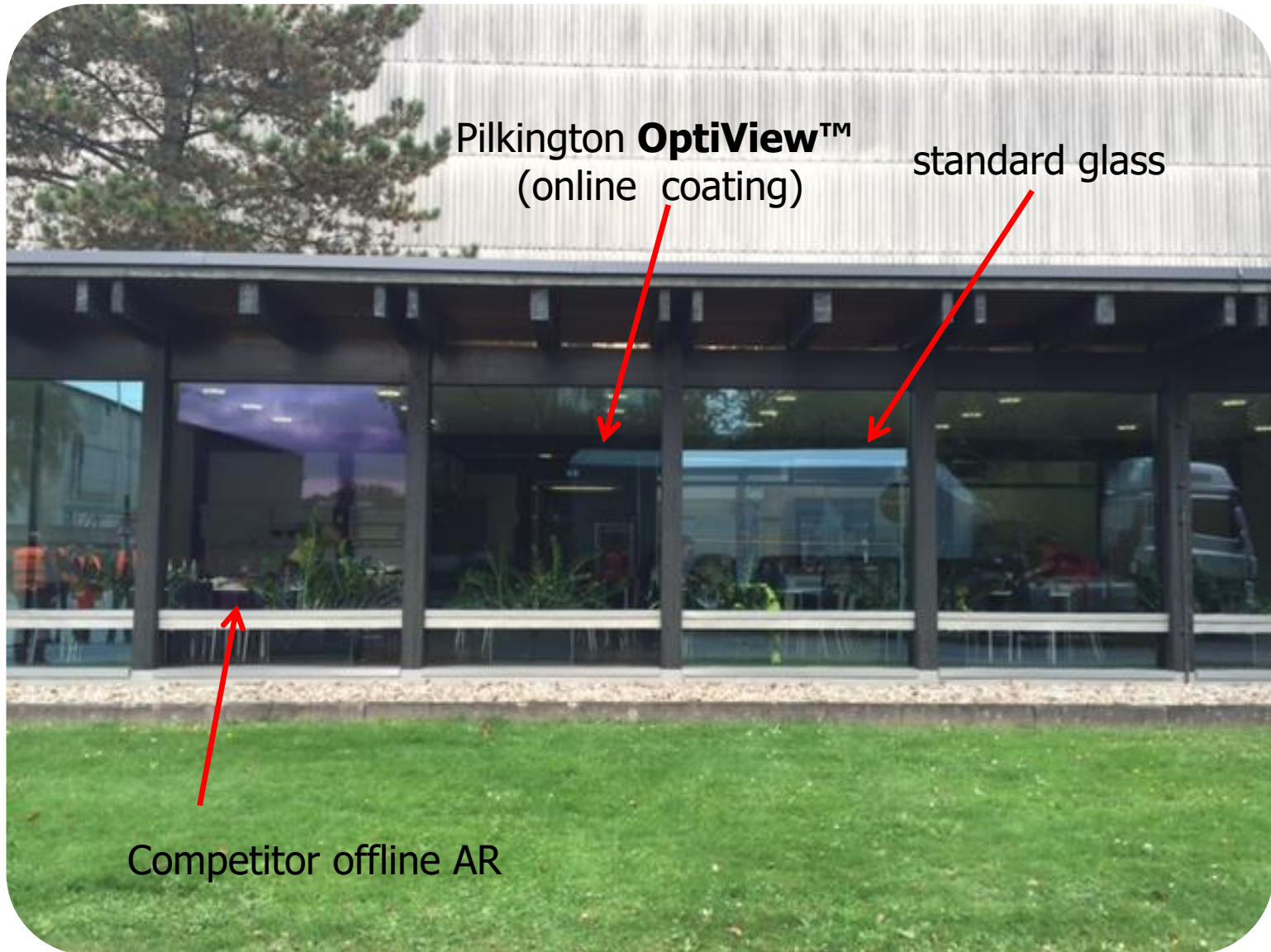
Pilkington **OptiView™** Protect OW

The two coated surfaces of Pilkington **OptiView™** Protect OW reduce visible light transmittance down to as little as 2%, compared to 8% of a standard clear laminate uncoated glass

- Benefits at a glance
 - superior light transmittance due to low-iron substrate
 - excellent colour neutrality and exceptional performance of displayed products
 - safety and security from vandalism
 - protection from UV radiation



Colour stability



Pilkington **OptiView™** Protect OW:

Benefits

- Reduces reflection to less than 2% on laminated glass
- Color rendering of the products on display and high light transmission, thanks to glass on an extra-jar base
- Great angular color stability
- High resistance to abrasion and oxidation of the coating;
- Facilitates cleaning and maintenance
- Temperable and bendable with standard techniques
- No need to edge deletion
- Layered security available in thicknesses from 8.4 mm to 22.6 mm
Classified UNI EN 12600 up to 1 (B) 1 and UNI EN 356 up to P7B for the protection of people and property from vandalism and burglary
- The special coating also has low-emission characteristics
Protects more than 99% from receiving UV rays

Pilkington **OptiView™**: project references



Restyling - Egyptian Museum in Turin, April 2015

Pilkington **OptiView™**: project references



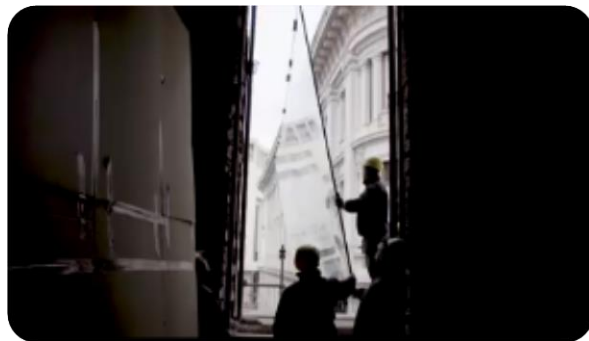
New High Fashion Boutique in Florence, 2018



TESORI RINASCIMENTALI | 25 marzo 2019

Pilkington **OptiView™** protects the cartoon of "The School of Athens" by Raphael Technology and Transparency in a 9m long pane

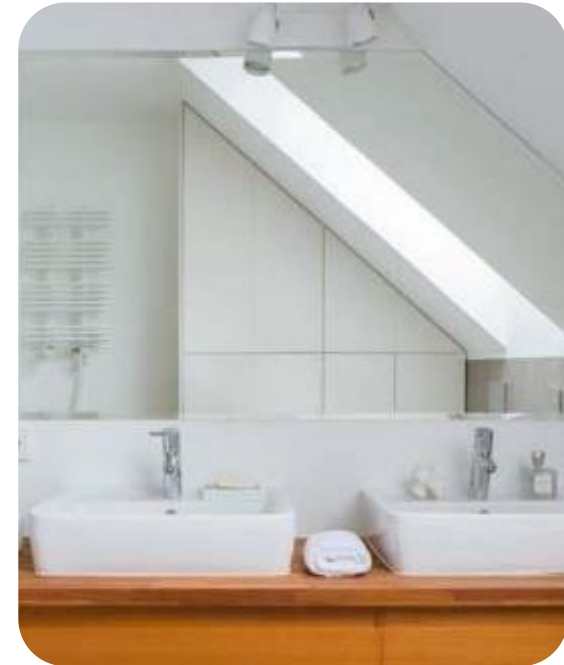
– di Marco Carminati



Pilkington **Mirropane™** Chrome

Pilkington **Mirropane™** Chrome: the temperable mirror

- Offline reflective metallic coating
- Maximum flexibility
- High stability and durability
- Resistant to corrosion and humidity
[class A - EN 1096-4 standard]



- Many processing possibilities
- Meets security needs (tempering, lamination)
- Meets design requirements (bending, sandblasting)

Pilkington **Mirropane™** Chrome: applications

Humid environments

- Shower cabins
- Bathrooms
- Indoor swimming pools
- Marine glazing



Sport

- Gyms
- Health clubs



Aesthetic appearance

- Internal applications
- Decorations
- Bar and lobby mirrors
- Company logo



Traditional mirror

- Doors
- Wall mirrors
- Corridors



Pilkington **Mirropane**[™] Chrome: product range and technical data

- Product Range
 - Pilkington **Mirropane**[™] Chrome
 - Pilkington **Mirropane**[™] Chrome Plus: no light transmittance
 - Pilkington **Mirropane**[™] Chrome Spy: spy mirror
- Easy to process (lamination, bending, tempering)

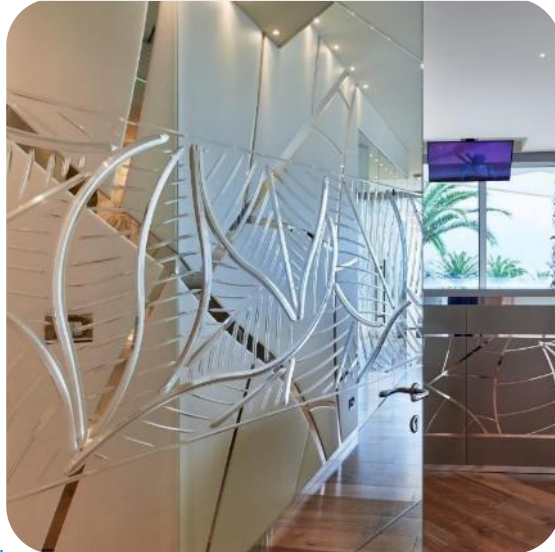
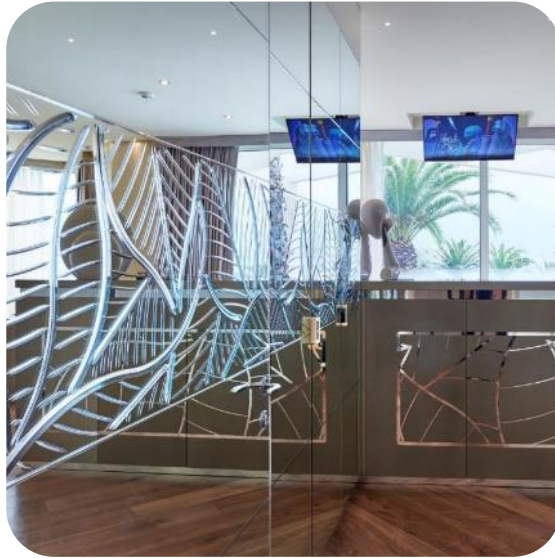
Product	Pilkington Mirropane [™] Chrome	Pilkington Mirropane [™] Chrome Plus	Pilkington Mirropane [™] Chrome Spy
Light transmittance LT (%)	2	0,1	8
Light reflectance outside LR _{out} (%)	62	62	48
Light reflectance inside LR _{in} (%)	54	54	8

Pilkington **Mirropane™** Chrome

- Several applications in bathrooms, appliances, shower cabins and internal partitions.



Pilkington **Mirropane™** Chrome





Pilkington
Mirropane™ Chrome

- *Outdoor application*

Digital Signage

Pilkington **MirroView™**
Pilkington **MirroView™** 50/50

Pilkington **MirroView**™



Pilkington **MirroView**™ is a highly reflective mirror coating, ideal for concealing digital displays and video screens.

When the screen is turned 'off' Pilkington **MirroView**™ maintains a mirrored appearance. When the screen is turned 'on' the picture on the video screen shows through.

The pyrolytic coating is durable and can be easily handled, transported, cleaned and processed, including toughening and laminating.

Main application are: hotel halls, bars and restaurants, digital signage.

Pilkington **MirroView**[™]: data

For bright rooms, Pilkington **MirroView**[™] 50/50 is better, since it enhances the light transmission:

- lower mirror effect, with blank display
- images transmitted through the glass are crispier since:
 - the upper light transmission allows a better view of the image across the screen
 - the lower reflection reduces the disturbance of the ambient light when the monitor is on

Product	Thickness [mm]	substrate	LT [%]	RL coated side* [%]	LR glass side [%]
Pilkington MirroView [™]	4	clear	25	65	60
	6	clear	25	65	59
Pilkington MirroView [™] 50/50	6	clear	35	53	48

*Mirror coating toward viewer-side

Pilkington **MirroView™**: smart mirrors



Pilkington **MirroView™**: smart mirrors

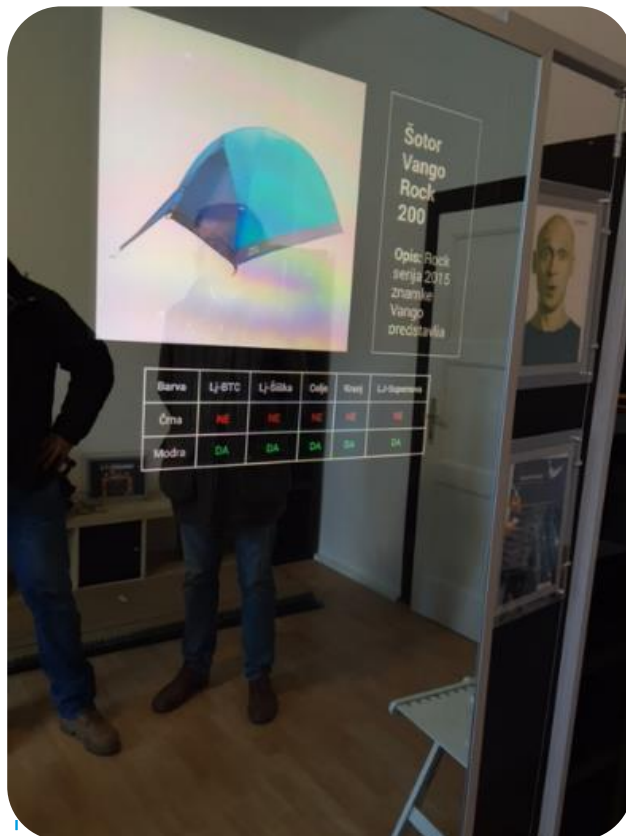


Pilkington **MirroView™**: smart mirrors



Pilkington **MirroView™**: applications

Smart mirror applications with different functions, from the display of multimedia content to data collection, etc.



Pilkington **MirroView™**: applications

- *Smart mirrors*

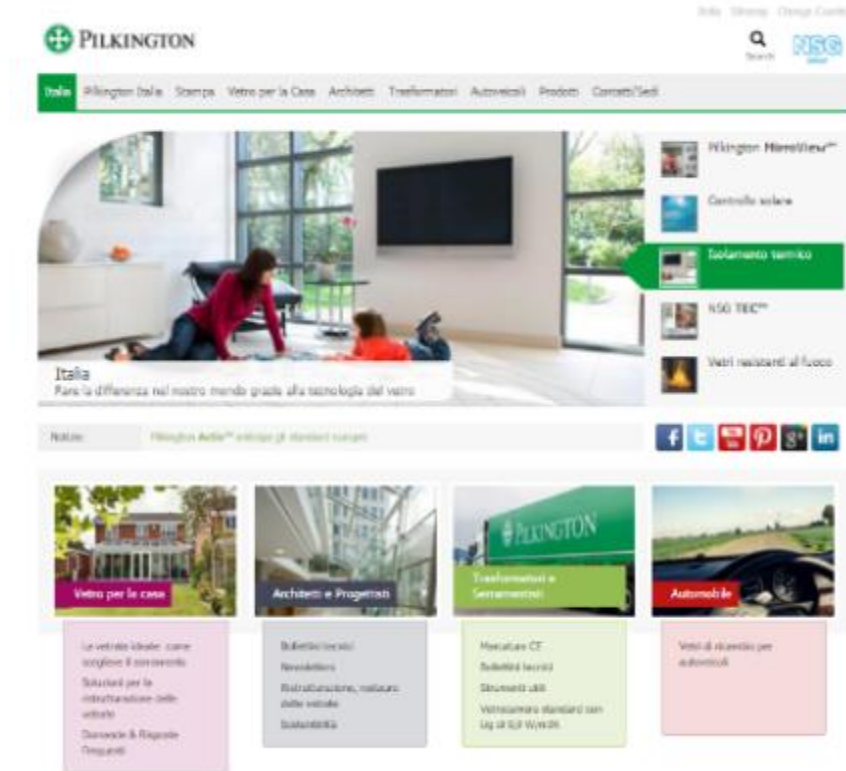


Pilkington site



- You can find:
 - Product documentation
 - Project references
 - Technical Bulletins
 - Tools and Calculators

www.pilkington.com



- For any further clarifications, for technical sheets and CE Marking, ... please do not hesitate to contact us:

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