

# PILKINGTON

## Mirai™ glass verified for its superlow embodied carbon

Setting new standards in environmental performance, Pilkington Mirai™ architectural glass was recently identified among its standard float glass counterparts for having the lowest embodied carbon.

Arturo  
Benini-  
Technical  
and  
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Manager



Photo: Kristoffer Wittrup





**W**ith its impressive 52 percent reduction in total embodied carbon in comparison with so many alternative choices out there, Pilkington Mirai™ has been singled out for being a truly sustainable option in today's market.

### **RIGOROUS THIRD-PARTY VERIFICATION**

The certification process affirmed the exceptional eco-friendliness of Pilkington Mirai™, which was launched last year. The Environmental Product Declaration (EPD) played a crucial role in this recognition, provid-

ing valuable information about the product's environmental impact. Along with other indicators, EPDs provide data about the global warming potential (GWP) of products by assessing the carbon emitted at each stage of a product's lifecycle. Manufacturing and transport, emissions generated while the product is in use, and the disposal of the glass at the end of its lifespan are all evaluated and reported in the EPD.

Pilkington Mirai™ glass has been achieved by using a combination of alternative fuel, high recycled glass content and green electricity sources,

as seen in Pilkington UK, where hydrogen was used to power all production, instead of natural gas. In this way, as well as achieving 52 percent less total embodied carbon, Pilkington Mirai™ maintains the identical neutral aesthetics, exceptional quality and performance as the Group's standard product.

### **RAISING THE BAR HIGH**

Pilkington Mirai™ glass also adheres to the strictest standards of sustainable building design, contributing to prestigious certifications such as LEED and BREEAM. Without compromising

performance or aesthetic appeal, and with a carbon footprint as low as 5 kg CO2e per square metre for the 4 mm thickness, a To the market Pilkington Mirai™ comes as a truly environmentally-friendly glass - which means that architects and specifiers can make informed, eco-conscious decisions by utilising the comprehensive data provided by the EPD.

### **SETTING THE TREND**

Arturo Benini, Pilkington Italia's Technical and Marketing Manager, said: "Verification of Pilkington Mirai™ as the lowest carbon glass of its kind represents a major step



Photo: Kristoffer Witttrup

forward for the built environment on its journey towards a new era of low embodied carbon buildings. The glass enables building designers to immediately improve the carbon impact of their

projects, while still offering the same attributes and performance expected from regular architectural glass. The EPDs for Pilkington Mirai™ and our broader portfolio, offers architects, developers and asset owners

glass that will be transformational in helping them to achieve their carbon objectives. The EPD for Pilkington Mirai™ joins 21 additional EPDs, already available for the entire range of Pilkington Italia glass products, in-

cluding clear and extra-clear float glass, laminated glass, and coated glass, and further establishes glass as the primary material of choice for sustainable architecture.”



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