

August 4, 2020
Nippon Electric Glass Co., Ltd.

Nippon Electric Glass Increases FireLite Glass Size, Starts Selling the World's Largest Fire-rated Glass Ceramic

Nippon Electric Glass Co., Ltd., (Head Office: Otsu, Shiga, Japan, President: Motoharu Matsumoto) announced it is now selling FireLite in increased glass sheet sizes, effectively allowing the company to offer the world's largest fire-rated glass ceramic. The high-performance material is now available in a maximum width and height of 1,586mm x 3,033mm, an overall size that surpasses conventional products.

FireLite is a transparent fire-rated glass ceramic characterized by both thermal resistance and thermal shock resistance. Due to the material's exceptional thermal resistance, it experiences very little softening or deformation when exposed to high temperatures in the event of a fire. Its thermal shock resistance prevents breakage caused by the quick cooling of water from firefighting operations and sprinklers. As a result of these properties and its superb flame insulation performance, FireLite glass ceramic has been used to create fire compartments in various buildings, including public facilities, educational facilities and houses.

Conventionally, wired glass and steel doors were used for openings in areas where a fire is likely to spread, or where it is necessary to provide fire compartmentation in buildings. Recently, there has been a growing demand for transparent fire-rated glass that ensures high design quality and clear visibility. Such glass also shows evacuation routes and provides a good field of vision. As the size of openings has increased in line with the diversification of architectural designs, larger sheets of transparent fire-rated glass are also required. To meet these market needs, Nippon Electric Glass has added to its lineup FireLite products in the world's largest fire-rated glass ceramic size, contributing to the expansion of architectural designs.

FireLite product lineup:

The FireLite product lineup consists of FireLite, which is made from one glass sheet, and FireLite Plus, which is made from two sheets of FireLite laminated together with a special resin to enhance impact safety. FireLite Plus laminated glass is available with high impact safety ratings. It virtually eliminates the risk of fragment scatter, falling or detachment even if impacted or fractured by people or objects.

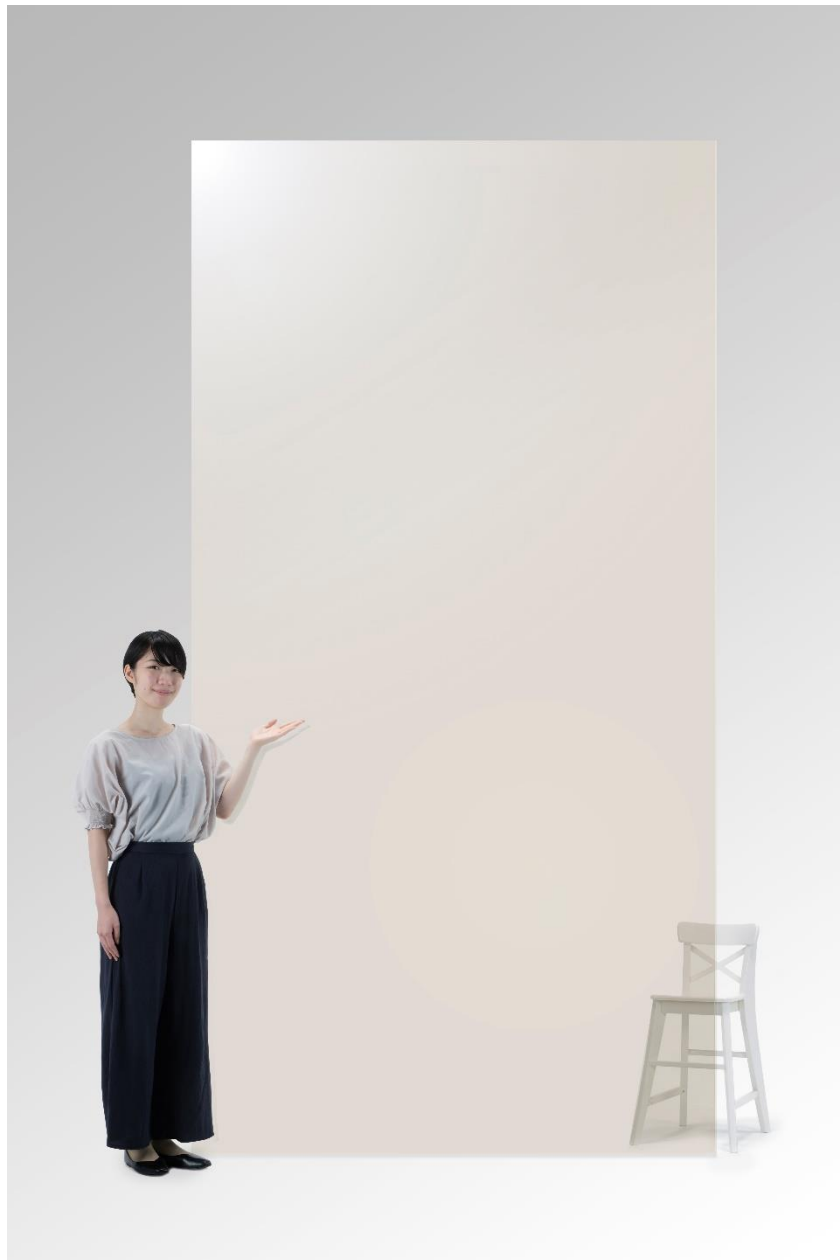
(Maximum Size)

FireLite	1,586mm x 3,033mm (Thickness: 5mm)
FireLite Plus	1,586mm x 3,033mm (Thickness: 8.6mm)

(Features)

- High heat resistance and thermal shock resistance
- Clear visibility
- Designed for full-height fire-rated windows and doors (fire-rated windows and doors where the height spans from the floor surface to the ceiling)

[Photograph]



The world's largest FireLite Plus: Width 1,586mm x Height 3,033mm x Thickness 8.6mm