

## NEG's New Product Achieves Both Fire Protection and Natural Color Reproduction

—First Adopted at “MoN Takanawa: The Museum of Narratives”—

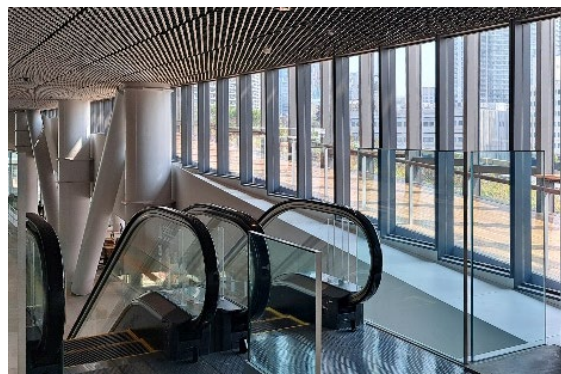
Nippon Electric Glass Co., Ltd. (Head Office: Otsu, Shiga, Japan; President: Akira Kishimoto; “NEG”) and Electric Glass Building Materials Co., Ltd. (Head Office: Yodogawa-ku, Osaka, Japan; President: Ichihiko Kosaka) today announced the launch of FireLite® F Airity™, a new addition to the FireLite® line of fire-rated glass.

- As large-scale urban development accelerates, dynamic architectural spaces incorporating atriums and large openings are increasingly common, particularly in large complex that attract many people. At the same time, preparedness for fire safety remains essential. Against this backdrop, there is growing demand for fire-rated glass that not only ensures safety in areas requiring designated fire prevention equipment but also contributes to open spaces.

- FireLite® F Airity™ is a new lineup within the film-applied FireLite® F series for designated fire prevention equipment, precisely meeting these needs. While maintaining excellent fire protection performance, it features a clearer color tone, enhancing visibility by reproducing colors more naturally. This makes it a new option within the FireLite® family.



FireLite® F Airity™



Elegantly defines corridors and atriums at MoN Takanawa

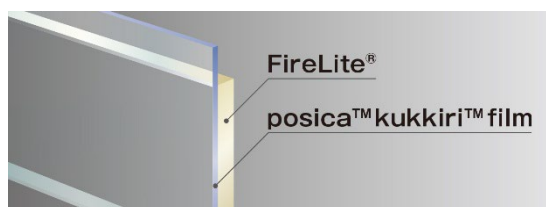
- The new product was first adopted at MoN Takanawa: The Museum of Narratives, a cultural complex that serves as a new hub for cultural creation and dissemination in TAKANAWA GATEWAY CITY, Tokyo, which opened on March 28.

· In the Tokyo metropolitan area where large-scale projects continue to emerge, FireLite® F Airity™ is expected to be increasingly adopted in facilities that require both high fire protection and a sense of openness.

#### ■ About the New Product: FireLite® F Airity™

FireLite® F Airity™ is a newly specified fire-rated glass for designated fire prevention equipment, created by applying posica™ kukkiri™ film to FireLite®, a heat-rated glass-ceramic with exceptional resistance to thermal shock.

Using advanced film technology, the warm color tone characteristic of glass-ceramic materials is finely adjusted, enabling more natural color reproduction. The product name Airity is a coined term combining “Air” and “Clarity,” expressing the concept of fire-rated glass that reproduces colors as naturally as air itself.



Configuration Image of FireLite® F Airity™



#### ■ Key Features of FireLite® F Airity™

##### 1. Natural Color Reproduction

By adjusting the unique color tones of glass-ceramic materials with posica™ kukkiri™ film, colors viewed through the glass appear more natural and vivid.

##### 2. High Impact Safety through Film Application

The product meets performance equivalent to a 30 cm drop height in the shot bag test specified in **JIS A 5759**. As a shatterproof film, it prevents glass fragments from scattering or falling even if breakage occurs, ensuring safety in everyday environments.

##### 3. Exceptional Thermal Shock Resistance

With a coefficient of thermal expansion close to zero, the glass remains unbroken even when water is applied immediately after heating to 800°C. It is the only fire-rated glass for use in Japan's designated fire prevention equipment, capable of withstanding both the extreme heat of a fire and rapid cooling caused by water during firefighting.

##### 4. Large-Size Availability

Available in sizes up to **1,200 mm (W) × 3,000 mm (H)**.

## ■ Application Example: MoN Takanawa: The Museum of Narratives

FireLite® F Airity™ was first adopted at the cultural complex MoN Takanawa: The Museum of Narratives. The product meets architectural requirements for combining superior fire protection with the transparency unique to glass in a series of continuous interior spaces.



Project Owner: East Japan Railway Company

Design/Construction Administrator: Shinagawa Development Project (Phase I) Design Joint Venture (JR East Design Corporation, JR East Consultants Company, NIHON SEKKEI, INC., Nikken Sekkei Ltd.)

Exterior Design Architect: Kengo Kuma & Associates

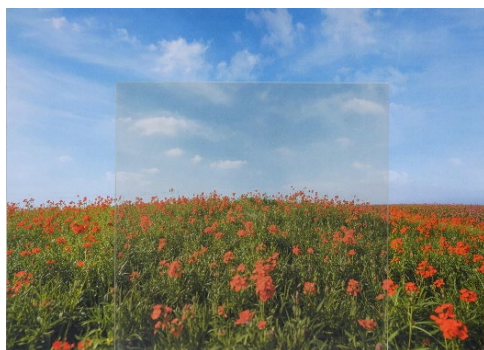
Constructor: KAJIMA CORPORATION

## ■ About posica™ kukkiri™ film

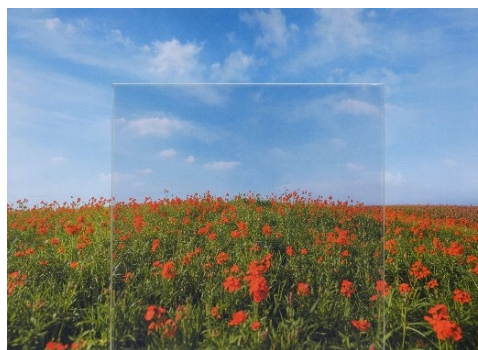
posica™ kukkiri™ film is a shatter-prevention film that selectively cuts yellow light using the proprietary kukkiri™ dye technology developed by Mitsui Chemicals, Inc. It enables scenes viewed through the film to appear more natural and vividly colored.

<Visual Effects of posica™ kukkiri™ film>

The red of flowers, the green of leaves, and the blue of the sky appear deeper and more vibrant, while white clouds appear even whiter.



FireLite®  
(without film)



FireLite® F Airity™  
(with posica™ kukkiri™ film)

- Technology Development: Mitsui Chemicals, Inc.
- Brand Owners: Mitsui Chemicals, Inc.; TANSEISHA Co., Ltd.
- Co-creation Platform Operation & Film Sales: point0 Co., Ltd.

\* posica™ is a trademark of TANSEISHA Co., Ltd. and Mitsui Chemicals, Inc.

kukkiri™ is a trademark of Mitsui Chemicals, Inc.

FireLite® is a registered trademark of Nippon Electric Glass Co., Ltd. in the U.S.

**[Company Profile: Nippon Electric Glass Co., Ltd.]**

Nippon Electric Glass Co., Ltd. is a world-class specialty glass manufacturer headquartered in Otsu City, Shiga Prefecture. Special glass that creates novel functionality is transformed into a variety of products, such as sheets, tubes, fibers, and powder, and is used in a wide range of fields, including semiconductors, displays, automobiles, electronic devices, medical care, and energy. The special glass developed using the technology and track record that we have honed over our 70-year history is highly regarded in a wide range of fields, from everyday life to cutting-edge industry.

Company name: Nippon Electric Glass Co., Ltd.

Representative: Akira Kishimoto, President

Head office location: 7-1, Seiran 2-chome, Otsu, Shiga 520-8639, Japan

Founded: December 1, 1949

Business details: Production and sale of special glass products; manufacture and sale of glassmaking machinery

URL: <https://www.neg.co.jp/en/>

**[Company Profile: Electric Glass Building Materials Co., Ltd.]**

Electric Glass Building Materials Co., Ltd. has been developing, selling, and installing glass building materials for over 45 years as a company within the NEG Group. We offer a wide range of product including FireLite®—glass designated fire prevention equipment, as well as glass blocks and other architectural glass products.

Company name: Electric Glass Building Materials Co., Ltd.

Representative: Ichihiko Kosaka, Representative Director

Head office location: 11-1 Miyahara 2-chome, Yodogawa-ku, Osaka 532-0003, Japan

Founded: April 1, 1978

Business details: Development, sales, and installation of glass building materials

URL: <https://www.negb.co.jp/en/>

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Nippon Electric Glass Co., Ltd. 7-1 Seiran 2-chome, Otsu, Shiga 520-8639, Japan

<Contact regarding products>

[Contact Form](#)