



## Hercules To Exhibit "Lightest and Strongest\*<sup>1</sup> Disaster Prevention Glass"

~ At Technical Show Yokohama 2022 ~

Yokohama city, Japan, January 28<sup>th</sup> 2022—Hercules Glass Tech Co., Ltd. (President: Masaki Ijichi) announced that it will exhibit newly developed product and unveil the cutting-edge technology under the theme of safety and security for building's windows at "Technical Show Yokohama 2022" held from February 2nd to 4th in 2022. At its booth, it will introduce "High-grade disaster prevention glass" developed and unveil the world's strongest level disaster prevention glass "Hercules X" currently under development.

### **[Exhibition location]**

- Pacifico Yokohama Exhibition Hall A, B, C (1-1-1, Minatomirai, Nishi-ku, Yokohama, Japan)
- Booth no : N-10

### **[Exhibition outline]**

- High-grade disaster prevention glass

Hercules succeeded in developing "high-grade disaster prevention glass" that cleared the Japanese Industrial Standards "JIS R3109: 2018 \*<sup>2</sup>", and will introduce two models, "Hercules VII-D" and "Hercules VII-E", in the global market. (Slated its release, 2022). "High-grade disaster prevention glass" has made it possible to be the lightest and thinnest \*<sup>1</sup> structure in the industry by the original technology that we have accumulated for 10 years. In addition to feature to prevent the scattering of glass fragments, it has achieved "high levels D" and "highest Level E" stipulated in the impact strength standard of "JIS R 3109: 2018 \*<sup>2</sup>" and created the revolutionarily product ever. The company will introduce the technical background for clearing the "JIS R3109: 2018 \*<sup>2</sup>" standard and marketability together with the actual product, ahead of the industry.

## ■ World's strongest level disaster prevention glass "Hercules X"

The "Heracles X" currently under development will be aimed to be the world's highest level disaster prevention glass. "Hercules X" has passed the impact resistance test of 2400J, which exceeds 1700J \* 3 (Type E) for the ISO16932 \* 4 standard in the in-house impact dropping test with a glass nominal thickness of 17.5mm. Heracles are developing with the goal of impact resistance more than 2400J by further adjusting the laminating conditions of glass and polycarbonate.

At its booth, it will introduce the sample glass of "Hercules X" and the glass after the test that passed the impact energy 2400J as well as the current development status.

## ■ Looking for companies who are interested in our manufacturing technology and can become partners.

Heracles is thinking of expanding the manufacturing technology of its disaster prevention glass widely in collaboration with domestic and foreign companies. Currently, it is looking for companies such as glass makers, secondary glass processing makers, sash makers, etc. who can cooperate with us.

\* 1: By our survey

\* 2 : A Japanese Industrial Standard that stipulates a test method for determining the resistance of disaster prevention glass against the threat of flying objects caused by a catastrophic storm accident. It is defined as A, B, C, JD, D, E according to the impact strength rank, and the high-grade disaster prevention glass developed by our company corresponds to the high level "level D" and "highest level E".

\* 3 : The impact resistance specified in the standard described in ISO16932 \* 4 as the maximum impact energy of the attacking body corresponding to flying objects caused only by giant tornadoes.

\* 4 : Test method based on the "Impact Breakability Evaluation Method for Glass" established by the International Organization for Standardization

Hercules Glass Tech Co., Ltd. is established at Yokohama city, Japan in 2002 and specialize in development, manufacture and sale of resin laminated security and safety glass such as blast-resistant, bullet-resistant glass as well as energy-saving glass for residences and buildings.

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For further information, please contact to

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