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## **2014 FIFA World Cup Brazil™ Glass Roof for Player Benches Unveiled -- AGC Showcases New Possibilities of Chemically Strengthened Glass --**

**Tokyo and Sao Paulo, April 24, 2014** – [AGC](#) today unveiled the official [glass roof for player benches for the 2014 FIFA World Cup Brazil™](#). The glass roof, made from chemically strengthened glass, provides unparalleled visibility, durability and damage resistance, and is an evolution from the model provided last year by AGC to the FIFA Confederations Cup Brazil 2013.

It also shows that this technology, originally developed to protect small electronic devices such as smartphones and tablets, can be applied to large fixtures, paving the way for greater potential for chemically strengthened glass to be explored by architects and designers.

The player benches, composed entirely of AGC-made materials such as fluoropolymer-coated frames made with fiber reinforced plastic, will be supplied to all 12 venues, and be used at all matches of the world's biggest sporting event taking place between June 12 and July 13.



One of the key attributes of the glass roof for player benches for the 2014 FIFA World Cup Brazil™ is clear visibility. The rear portion of the bench is applied with anti-reflective coating, making its reflective properties 13 times lower than conventional glass to ensure the best-possible visual experience for football fans.

Protection for players and staff on the bench is provided by a double layer of chemically strengthened Dragontrail™ X, considered the world's strongest cover glass for electronic devices. Dragontrail X is characterized by low center tension and the world's highest compression stress. The technology, first showcased at CES 2014, makes glass exceedingly durable against external shock. Dragontrail X is the latest offering in AGC's Dragontrail line that first debuted in 2011, and is 30% stronger than conventional Dragontrail products, and up to eight times stronger than soda lime glass.

Like the Confederations Cup version, the new glass roof is also highly resistant to scratching, as well as deformation and discoloration, promising years-long product life even in outdoor environments characterized by fluctuating temperature and humidity.



“I’m proud that the bench featuring AGC’s new glass technology developed by our diligent engineers and workers will be shared with the players and thousands of football fans at the 2014 FIFA World Cup Brazil™, stated Kazuhiko Ishimura, President & CEO of AGC Asahi Glass, on the occasion of the unveiling of the bench at Corinthians Stadium in Sao Paulo. “This glass bench roof represents new possibilities for the application of our chemically strengthened glass technology in a variety of purposes.”

Thierry Weil, FIFA Marketing Director, welcomed AGC’s involvement at the 2014 FIFA World Cup™, stating; “We’re happy to have the support of a strong and innovative company like AGC, who is constantly looking to develop and improve their product. The quality of AGC’s product is extremely high and will fit in very well at the 2014 FIFA World Cup™ stadia”.

In October 2012, AGC was named a 2014 FIFA World Cup™ Branded Licensee as the first B-to-B company to market the “Official Licensed Glass Roof of the 2014 FIFA World Cup™ Player Benches” for the FIFA Confederations Cup 2013 and the 2014 FIFA World Cup Brazil™.

### **About the AGC Group**

The AGC Group, with Tokyo-based Asahi Glass Co., Ltd. at its core, is a world-leading supplier of flat, automotive and display glass, chemicals and other high-tech materials and components. Drawing on more than a century of technical innovation, the AGC Group has developed world-class expertise in fields including glass, chemistry and ceramics technologies. The group employs some 50,000 people worldwide and generates annual sales of approximately 13 billion USD through business in about 30 countries. For more information, please visit [www.agc-group.com](http://www.agc-group.com).

### **About Dragontrail™**

Dragontrail™ is AGC’s damage- and scratch-resistant specialty glass that has been adopted for use as cover glass in numerous smartphones and tablet PC models. For more information, visit <http://Dragontrail.agc.com/en/>

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(Reference)

Official Licensed Glass Roof of the 2014 FIFA World Cup™ Player Benches



Bench Statistics (Players bench)

Dimensions	
Length:	11.5 meters
Height:	1.9 meters
Depth:	1.0 meter
Weight	Approximately 760 kilograms
Glass thickness (backpanel)	Approximately 3.5 millimeters
Number of seats	23
Manufacturing location	Japan

Bench characteristics

Component	Material	Key features
Roof/backpanel	Dragontrail™ X	- Achieves world's highest level of surface strength
Glass coating	Anti-reflection coating	- Reduces reflection rate to 1/13 that of conventional glass
Frame	Fiber reinforced plastic	- Stronger than steel, enables creative designs
Frame coating/paint	Lumiflon™ fluoropolymer coating	- Highly weather-resistant, lowers life cycle costs of large-scale constructions
Seat	Carboglass™ polycarbonate sheet	- Special coating technology ensures seat retains factory-grade transparency
Seat cushion	Polypropylene glycol used in polyurethane foam	- High-quality seating comfort by optimized body pressure distribution