Trosifol®

World of Interlayers
Observation Decks: Safety with Laminated Glass

Zak World of Facades, New York
It’s All About the View
Transparency, Structural Performance, Safety

- Ultra-clear glass and interlayers enhance the laminated glass appearance for the viewer
- Physical characteristics of SentryGlas® ionoplast interlayers enable the most efficient structural design
- Ionoplast interlayers deliver the best post-breakage performance
Grand Canyon Skywalk, Arizona

Walkway glass: Four-ply low-iron glass laminate/ionoplast interlayer
Railing: Two-ply laminate; glass is 5.2 ft/1.57 m tall
Live load requirements: 100lb/ft² (490 kg/m²) + seismic/wind forces

Architect: Mark Ross Johnson
Engineering: Lochsa Engineering
Glacier Skywalk, Alberta, Canada

918 ft/280 m drop to the Sunwapta Valley floor at Jasper National Park,

Laminated glass walkway and glass railing using SentryGlas® ionoplast interlayer

Architect: Sturgess Architecture
Engineering: RJC Engineers
Zhangjiajie Glass Bridge, China

Laminated glass suspension bridge in Zhangjiajie, China suspended 984 ft (430 m) above the valley floor

Bridge length: 1263 ft (385 meters) long

Laminated glass 3 plies of 5/8” (16mm) glass

Architect/Engineer: Haim Dotan Ltd.
SentryGlas® Bridge Testing in China
Glass Walkway at Nong Khai, Thailand

Walkway glass: 1-1/2 in (4 cm) thick tempered laminated glass walkway

Glass railing: Laminated glass with SentryGlas®
Capacity: Structure can accommodate 20 people at a time
Skywalk Gilbraltar

Architect: ARC Designs
Engineering: Bellapart
The Ledge

103rd floor of the Willis Tower in downtown Chicago
1353 ft (412.4 m) high

Retractable glass boxes made with laminated
glass/SentryGlas® ionoplast interlayer

Architect: SOM
Engineering: Halcrow Yolles
360 Chicago (The Tilt)

94th floor of the John Hancock Building, Chicago

Eight individual bays that tilt from 10° to 30°

Architect: Gensler
Engineering: Thornton Tomasetti
Seoul Sky

123rd floor Observation Deck at the Lotte World Tower in Seoul 500 m above ground

Architect: KPF
Façade Consultant: ALT Ltd.
Four Seasons Hotel

Rooftop lounge overlooking the city of Mumbai

Glass panels:
Laminated glass with SentryGlas® ionoplast interlayer
Laminated glass railing surrounding rooftop lounge

No top cap on the railing
SentryGlas® Ionoplast interlayer used for structural performance and open-edge durability
Skypark at the Marina Bay Sands

Largest public cantilevered platform overhanging the north tower by 220 ft (67 m); glass railing 1120 ft (340 m) long

Glass railing: Laminated with SentryGlas® ionoplast interlayer

Architect: Moshe Safdie Architects
Engineering: Arup
Eiffel Tower

Clear laminated glass guards, glass flooring with SentryGlas® on first floor 57 m (187 ft) above the ground

Architect: Moatti-Riviere
Engineering: RFR
Top of the Rock

Architect: SLCE Architects
Façade Consultants: Vidaris
OUF Skydeck and Slide, Los Angeles

Architect: Gensler
Engineering: M. Ludvik
Oriental Pearl TV Tower, Shanghai

1536 ft (468 m) high tower in Shanghai
Ionoplast interlayer used for strength and post-glass breakage performance in flooring and railings.
Space Needle, Seattle

Originally constructed in 1962, renovation completed in 2017
48 glass panels weighing more than a ton each installed on the exterior perimeter of the Observation Deck forming a transparent barrier and creating a floor to ceiling glass viewing experience.

Architect: Olson Kundig
Engineering: Front Inc.
CN Tower, Toronto

Originally constructed in 1976, renovations completed in 2018 includes double decker glass floor 1,135 ft (346 m) above the ground

Two new floor to ceiling panoramic laminated glass window walls that utilize SentryGlas® ionoplast interlayers

Architect: Cumulus Architects
Engineering: RJC
What makes the ionoplast interlayer so special?

- Stiffness ….100x stiffer than PVB
- Strength .....5x more tear resistant than PVB
- Clarity .....clearest interlayer of all interlayers
- Durability.....not as moisture sensitive as other interlayers
- Impact resistance .....proven in hurricane and tornado areas, as well as other types of attacks
- Post-breakage performance.....more likely to remain in place after breakage than more flexible interlayers
- Design optimization.....can lead to thinner, lighter laminated glass constructions
When it is all about the view, specify SentryGlas® ionoplast interlayers for proven performance and safety