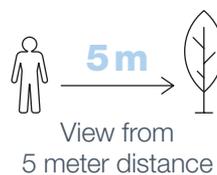
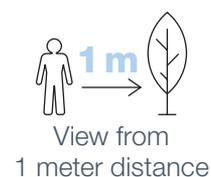




Xtrem
STFE 50

TRANSPARENCY AND SUNGLASS EFFECT

As a building skin, Tenseo Xtrem STFE 50 disappears and becomes transparent to leave room to the horizon.



> 50%

LIGHT TRANSMISSION
for a better view through



NATURAL LIGHT
- for user's comfort
- for plants growth thanks to UV



SUN GLASS EFFECT
thanks to integrated
sun mesh protection

STRUCTURAL AND LIGHTWEIGHT



STRUCTURAL

The polyarylate mesh provides structural strength for large free span and minimizes secondary structure. Easier installation and reduced environmental impact.

>10X

LIGHTWEIGHT

Tenseo Xtrem STFE 50 building solution is more than 10 times lighter than glass/steel system.



FLEXIBLE SHAPES

Thanks to its composite and flexible nature, the Tenseo Xtrem STFE 50 opens new architectural possibilities and creative freedom for the building envelopes.



HIGH RESISTANCE

High mechanical resistance
(8 tons/linear meter)



FIRE SAFETY

(Euroclass B-s1,d0)
(ASTM E84 A)

> 30 years

DESIGN LIFE

Excellent ageing performance.
Accelerated weathering tests at
third party laboratory show more
than 30-year longevity.





Main application benefits

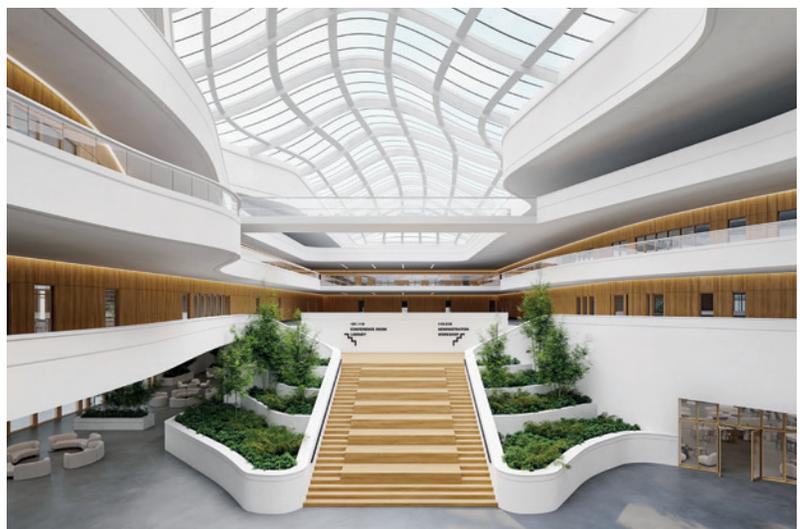
Natural light and UV inputs:

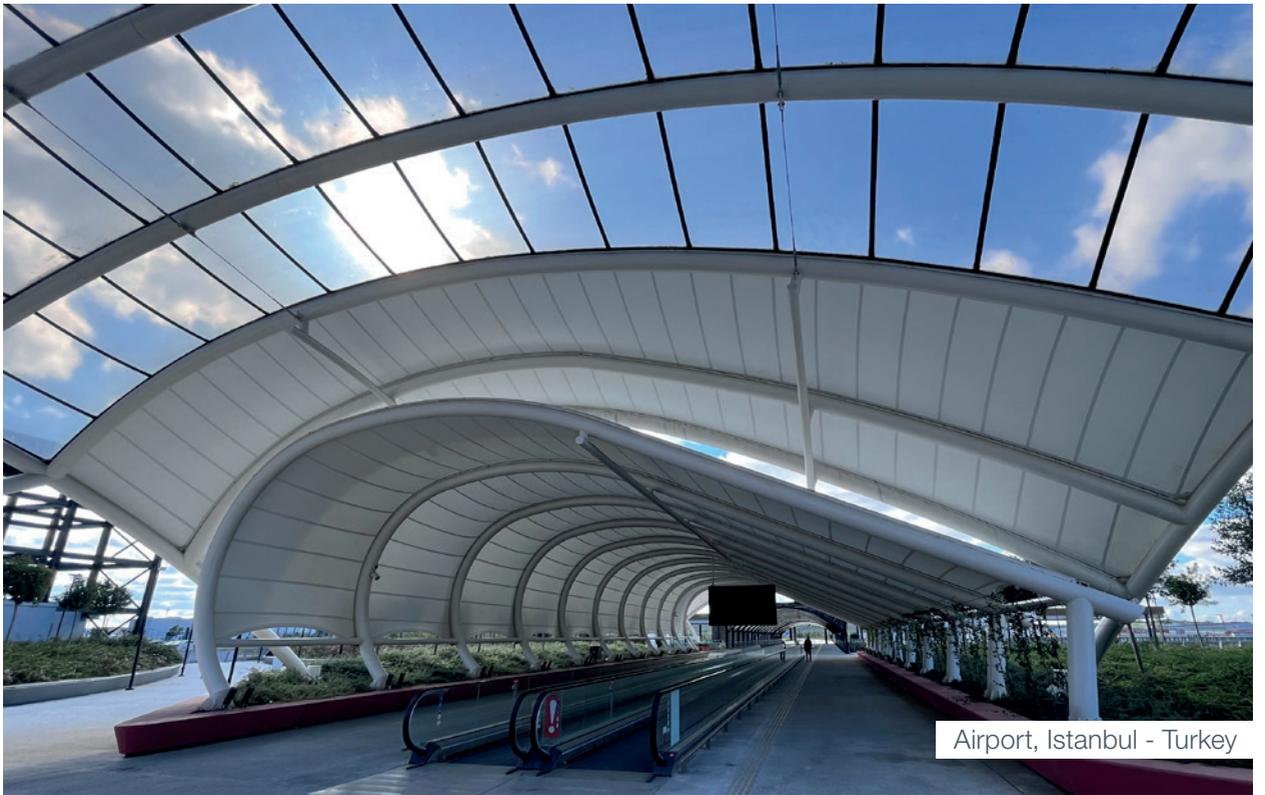
- Zoo & botanical garden
- Winter garden
- Stadium



No sense of enclosure
in public buildings:

- Transportation walkway
- Shopping mall
- Skylight
- Atrium

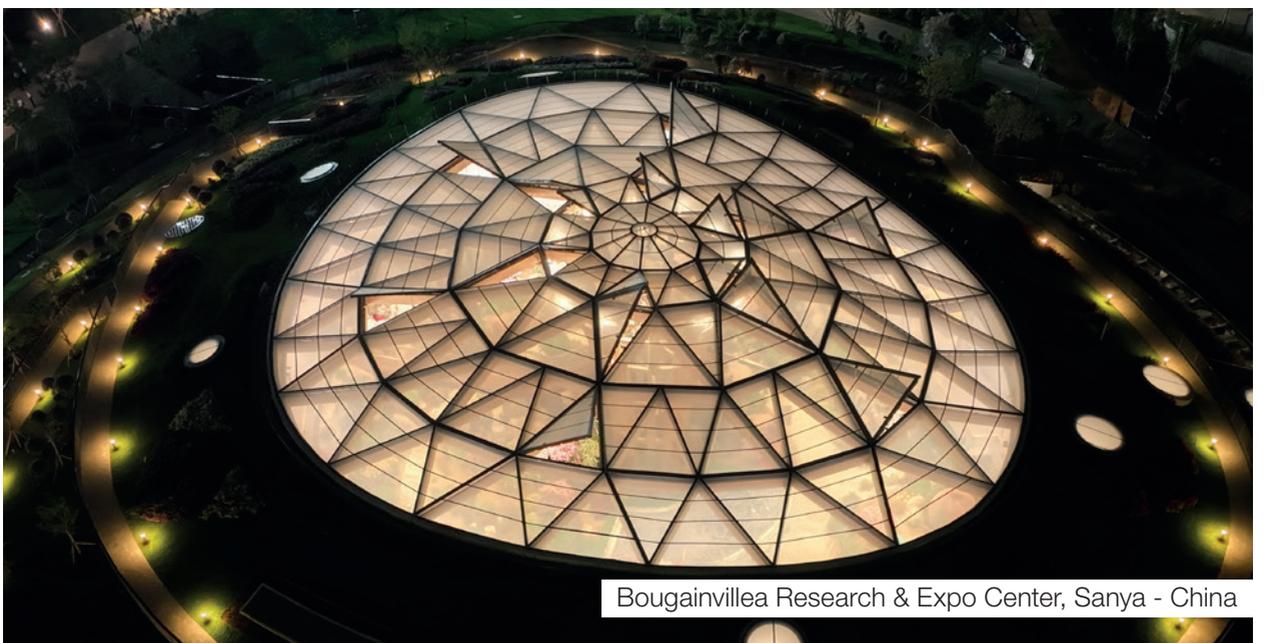




Airport, Istanbul - Turkey



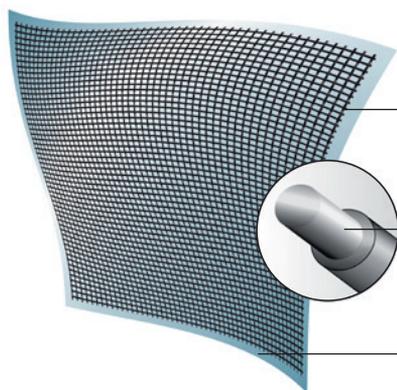
Airport, Istanbul - Turkey



Bougainvillea Research & Expo Center, Sanya - China

Tenseo Xtrem STFE 50

Serge Ferrari
| architecture



Polyarylate structural mesh with high tenacity yarn

Hybrid fluoropolymer extrusion

Transparent hybrid fluoropolymer film

> 
INDOOR
PROTECTION

> 
OUTDOOR
FEELING



Tenseo Xtrem STFE 50

| Mechanical properties | |
|---|---|
| Product code | 7802 |
| Tensile strength (warp/weft) EN ISO 1421 | 400/400 daN/5 cm • 457/457 lbs/in |
| Tear strength (warp/weft) DIN 53.363 | 80/80 daN • 180/180 lbs |
| Elongation at break (warp/weft) EN ISO 1421 | 4.6%/3.5% |
| Fire resistance | |
| Rating - International fire certificate available, such as* | B-s1,d0 /EN 13501-1 AS/NZS 1530.2 & 1530.3 Class A / ASTM E84 CSFM T19 Method 2 /NFPA 701 |
| Dimensions | |
| Weight EN ISO 2286-2 | 900 g/m ² • 26.5 oz/sq. yd |
| Width | 155 cm • 61 in |
| Thickness EN ISO 5084 | 1.8 mm • 1800 microns |
| Complementary information | |
| Material composition | Outer surface: Transparent hybrid fluoropolymer Inner surface: Polyarylate mesh |
| Crease fold resistance ASTM D4851 | 100% |
| Thermal, Solar Optical & Acoustic properties | |
| Heat transfer coefficient (U) (vertical/horizontal) Calculated | 5.6/6.4 W/sqm. °C |
| Visible Light Transmittance (Tv) EN 410 | Tv n-h=51% |
| Visible Light Reflexion (Rv) EN 410 | 7% |
| Solar Transmittance (Ts) EN 410 | 51% |
| Solar Reflexion (Rs) EN 410 | 7% |
| Solar Factor (g) EN 410 | 61% |
| UV transmittance (T UV-A) EN 410 | 58% |
| (T UV-B) EN 410 | 52% |
| PAR (Photosynthetic Activ Radiation) | 50% (all wavelengths) |
| Acoustic weakening index EN 410 | ~12 dB A |
| Management systems | |
| Quality: ISO 9001 • Environment: ISO 14001 • Energy: ISO 50001 | |
| Certifications, labels, warranty | |

10-year warranty



* Contact us for latest certificate updates & validities

¹ Summarizes the group's CSR project focused on human, to align economic performance and positive impact.

Mechanical properties are average values with a +/-5% tolerance, variance of +/-10% for weight given.

The purchaser of our products is responsible for their application or transformation in relation to possible third party rights. The purchaser of our products is responsible for their installation in compliance with the standards, working practices and safety regulations of their destination country. Please refer to our warranty document with regard to contractual liability.

Values quoted in this document are commonly used test results for design purposes. They are given for information only in order to offer our customers optimum usage of our products. Our products are subject to improvements resulting from technical developments and we reserve the right to modify their characteristics at any time. The purchaser of our products is responsible for checking the above data.

The colours and textures presented are included for information only.

HANDLING PRECAUTION: Tenseo Xtrem STFE 50 membrane is delivered with a protective film which must remain in place as long as possible during the STORAGE OF THE JUMBO ROLL. THE FILM MUST BE REMOVED BEFORE WELDING and INSTALLATION.

Tenseo Xtrem STFE 50 membrane must be packed with care and transported as rolls and not bundles to avoid crushed folds which could generate unsightly marks by transparency.

HF WELDING: consider the Tenseo Cover Tape as part of the STFE fabrication requirement for the warranty. Details available in the Technical Guide.

For membrane designs that may be exposed to animal traffic it is recommended to consider preventive systems e.g., wire rope, ultrasonic system that will help to minimize the risk of material damage.