

TRANSPORT



ARCHITECTURAL SOLUTIONS

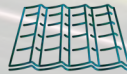
Through design and innovation we help build cities of the future, offering our clients personalized solutions and unique designs.

We are a Company with more than 30 years of experience designing and implementing Tensile Structures.

We offer applications of:



Facades



Covers



**Thermoacoustic
Solutions**



**Mobile
Systems**



***Why work with Tensile
Structures?***

Versatility in design

- Differentiated architectural proposal.
- It allows the generation of large covered spaces.
- Adaptability of design and materials according to application.
- Custom designs and advertising prints.
- Its lightness allows to reduce the weight of the structures.



Security

- *In case of fire, the material does not generate dripping and does not spread the flame.*
- *Highly anti-seismic due to its lightness and flexibility.*
- *Certified materials.*



Natural light optimization

- *Passage of visible light;* thanks to its translucency it is possible to save energy in daylight hours.
- *It favors visual comfort for users and reduces the glare effect.*
- *Prevents the passage of UV rays.*

Lighting effects

- *Programmable LED lighting effects that enhance architecture and composition.*
- *Excellent screen for projections.*
- *Its translucency favors night lighting over public space.*

Thermal and sound control

- *The textile material has a better behavior before the reverberation of the sound compared to a metallic material that propagates the sound wave.*
- *Comprehensive design solutions for thermal and acoustic comfort.*



Maintenance

An aerial photograph of a modern train station in Santiago, Chile. The station features a long, white, ribbed canopy structure that covers the tracks. The canopy is made of a material that is easy to clean and does not require painting. The station is surrounded by a parking lot with several cars and a residential area with houses and trees. The image is overlaid with a blue semi-transparent shape on the left side, which contains the text for the maintenance section.

- *The components of the coating allow to recover the initial strength and appearance.*
- *Easy and fast maintenance, it only requires cleaning.*
- *Will not rust or require painting.*
- *Projected useful life of more than 20 years.*
- *cover material with 15 year guarantee.*

Optimization in time and cost

- *Construction by autonomous phases, the components are manufactured in the workshop and installed on site.*
- *Construction process that reduces time in manufacturing, transportation and installation.*
- *Optimization of material and resources in logistics and execution of work.*



Our experience supports us

+30

*Years of Tensile
Structure Experience*

+275

*Tensile Structure
Projects*

+ 10

*Years of experience
transportation projects*

+ 24

*Transportation
projects*

+10

*Train and bus
stations*



Estación Monte
Tabor



Estación Laguna
Sur



Estación
Intermodal El Sol



Estación Las
Parcelas



Estación Rodrigo Araya



Estación Carlos Valdivinos



Estación Camino Agrícola



Estación San Joaquín



Estación Pedrero



Estación Mirador





Estación Pedrero
Santiago de Chile, Chile

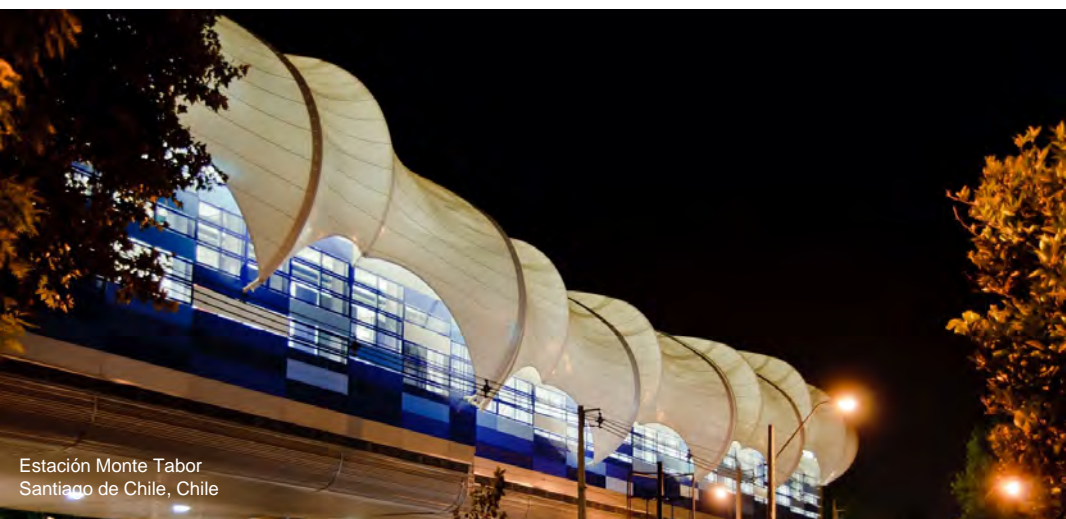




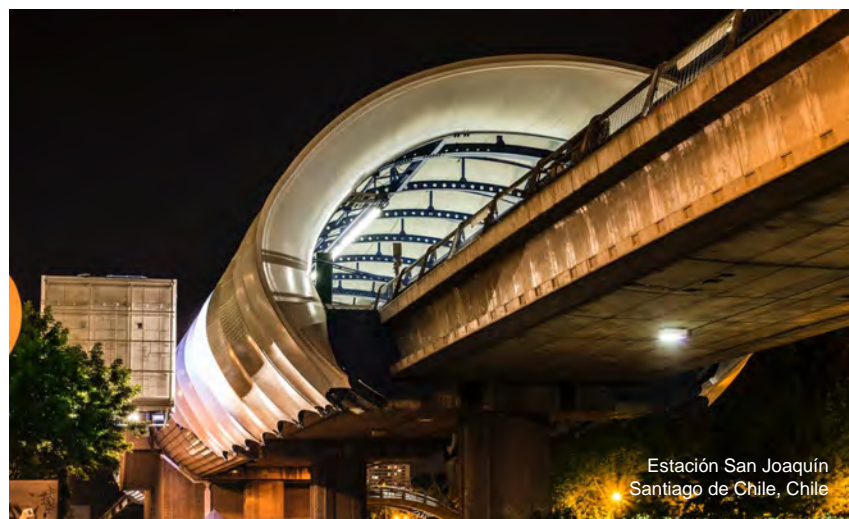
Estación San Joaquín
Santiago de Chile, Chile



Estación Monte Tabor
Santiago de Chile, Chile



Estación Monte Tabor
Santiago de Chile, Chile



Estación San Joaquín
Santiago de Chile, Chile

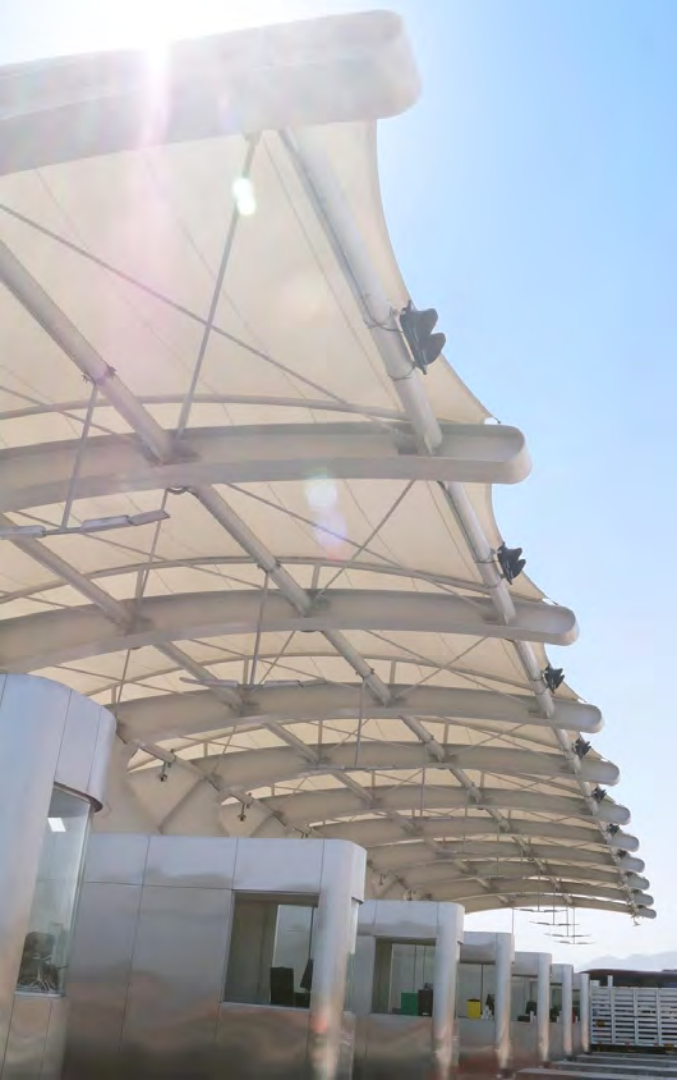


Estación Intermodal El Sol,
Santiago de Chile, Chile





Aeropuerto Cerro Moreno,
Antofagasta, Chile







Our Acknowledgments in the Transport sector

For innovation and excellence in design and manufacturing with Tensiles Structures, awarded by the Industrial Fabrics Association International - IFAI, the world association of the textile industry.

Train Stations of Line 5 of the Santiago Metro - Achievement Award, 2011.

Sol Intermodal Bus Station - Outstanding Achievement award, 2011.



Estación Intermodal del Sol
Santiago de Chile, Chile



Estación Monte Tabor
Santiago de Chile, Chile

Our Processes

OUR PROCESSES



COMMERCIAL TECHNICAL SUPPORT.



DESIGN AND STRUCTURAL
CALCULATION.



PLANNING.



EXECUTION: MANUFACTURING AND
ASSEMBLY.

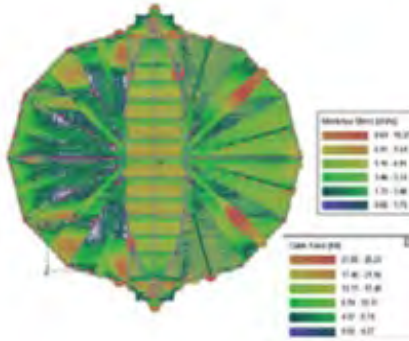
*We have a production plant with the
capacity to make 26,000m² per month.*

DESIGN: TECHNOLOGY AND SPECIALIZED SOFTWARE



Membrane design

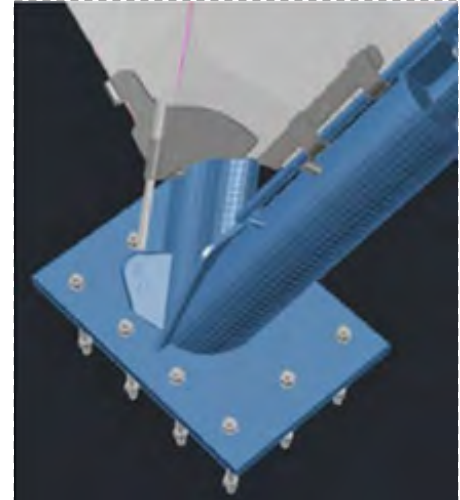
Calculation of efforts and development of membranes.



Structural Analysis and Design

RSTAB 8

SAP 2000



Detail Engineering

Tekla
Structures

3S SOLIDWORKS

MANUFACTURING AND ASSEMBLY



Computer aided plotting and cutting



High frequency sealing



Finishes and quality control



Packaging



Assembly



The membrane is made under rigorous quality control and validation by our specialists.

REFERENTIAL PROJECTS



Estación Hamburg
Poppenbüttel, Alemania



Denver Union Station, USA



Estación de bus, Königsbrunn, Alemania



Charlotte Area Transit System,
USA



Huafu Metro Atrium, China

OUR MATERIALS

PVC



Membrane



Mesh

ETFE



Transparent



Weft

PTFE



Membrane



Mesh

PVC AND PTFE CHARACTERISTICS



Highly anti-seismic



Graphic customization



Optimization in assembly times



Ease of Cleaning



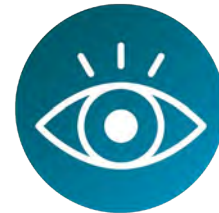
Fire resistance



High thermal resistance



Tensile strength and tear strength



Visual comfort & glare control

ETFE CHARACTERISTICS



High natural light transmission



Mechanical and dielectric properties



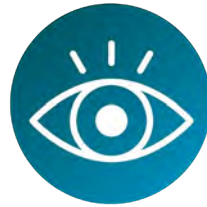
High non-stick and easy to clean



Resistance to adverse weather conditions



Lightweight material, weighs 1% of the weight of glass



Visual comfort & glare control

Metallic cover



Estación de Tren, Bangkok

Textile Cover



Estación Carlos Valdovinos, Santiago de Chile

WHY WORK WITH TENSILE STRUCTURES?

CHARACTERISTICS	MEMBRANE COVER	METALLIC COVER
ARCHITECTURE	<i>Differentiated architectural proposal.</i>	<i>Conventional architectural proposal.</i>
EARTHQUAKE RESISTANT	<i>Excellent response to earthquakes, due to its lightness and flexibility.</i>	<i>Good performance against earthquakes.</i>
NATURAL LIGHTING	<i>Optimization in energy saving, it does not require electrical energy consumption during daylight hours.</i>	<i>Artificial lighting due to the opacity of the material.</i>
ECONOMY	<i>Optimization of the structure, does not require intermediate supports.</i>	<i>Greater investment in structure by weight and modulation.</i>
EFFECTS WITH LIGHTING AND PROJECTIONS	<i>Programming of colors and light effects. Advertising projected on the surface.</i>	<i>The metallic sheet does not favor the generation of lighting effects.</i>
SOUND CONTROL	<i>Attenuates echo and reverb effects.</i>	<i>Promotes echo and reverberation.</i>
MAINTENANCE	<i>Ease of cleaning and maintenance. Does not rust</i>	<i>Cleaning, replacement and temporary painting. Sensitive to oxidation and corrosion.</i>

tensoestructuras.cidelsa.com

comercial@cidelsa.com

+57 3134886585

