What is Tensegrity?
"All structures, properly understood, from the solar system to the atom are tensegrity structures" (Fuller, 1975).

Is a structural principle based on the use of isolated components in **Compression** inside a net of continuous of **Tension**
Why tensegrity in Architecture?
Tensegrity structures in the body
Tensegrity structures in the body
Tensegrity Bamboo Architecture
Furniture
Tensegrity Bamboo Architecture
Tensegrity Classification

Open

Closed
La plata Stadium, Buenos Aires Argentina
Construction process of an open Tensegrity structure
Construction process of an open Tensegrity structure
Construction process of an open Tensegrity structure
Construction process of an open Tensegrity structure
Construction process of an open Tensegrity structure
La plata Stadium, Buenos Aires Argentina
La plata Stadium, Buenos Aires Argentina
La plata Stadium, Buenos Aires Argentina
Tensegrity closed sistem
Kurilpa Bridge Australia
Tensegrity Bamboo Architecture
Tensegrity Bamboo Architecture
Learning process Tensegrity system

STEP 1
Step 1. DIRECTION -SENSE

Left

Right

Synthesis of the design process
Step 2: Dimensions
Step 3: Numbers
Step 4: Trim
Step 5: height
Step 5: Access location
Tensegrity Bamboo Architecture

Step 6: Join the dots (Step 4)
Result
Step 7: Cable Location

Tensegrity Bamboo Architecture
Final result

Applied to reality

Tensegrity Bamboo Architecture
Understanding of Tensegrity
Tensegrity Bamboo Architecture

Scale Models

DICMA TRADE México
Grouping scale models
Development of Design

Tensegrity Bamboo Architecture
Tensegrity Bamboo Architecture
Tensegrity Bamboo Architecture

Scale Models
Selection Join
Development of structural scale model
Tensegrity Bamboo Architecture

Design
Design and reality
Tensegrity Bamboo Architecture
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Tensegrity Bamboo Architecture
Tensegrity Bamboo Architecture
Tlamaya The creation of a bamboo forest, guided rural development.

Second Constructions
Tlamaya The creation of a bamboo forest, guided rural development.
Tlamaya  The creation of a bamboo forest, guided rural development.
Tlamaya  The creation of a bamboo forest, guided rural development.

Second Constructions

“Unlike other domes based on the field, currently the dome 'Tlamaya' is the first large format ellipsoidal dome bamboo using the mutual coupling of Leonardo Da Vinci.”

('La cappola ellissoidica di Tlamaya' Lulu.com editions, Raleigh 2014, Author: Biagio Di Carlo)
Tlamaya

The creation of a bamboo forest, guided rural development.
THANK YOU!