

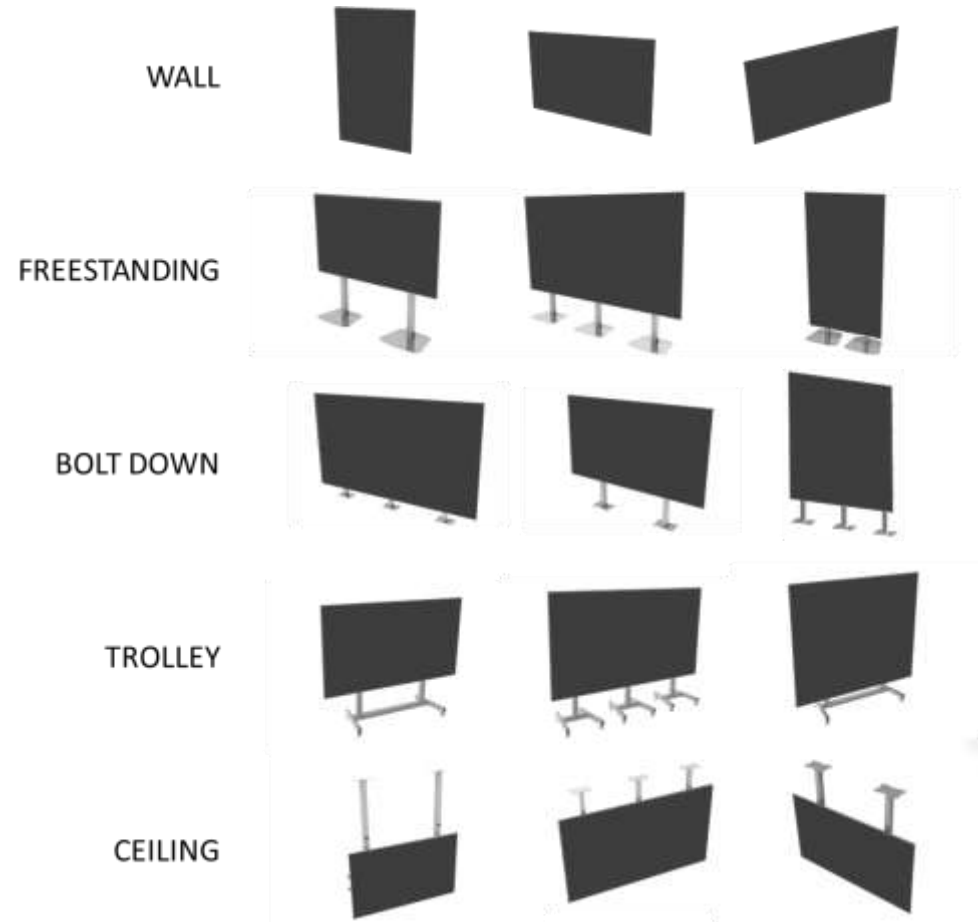


LED STRUCTURES

PRODUCTS EXAMPLE 2024



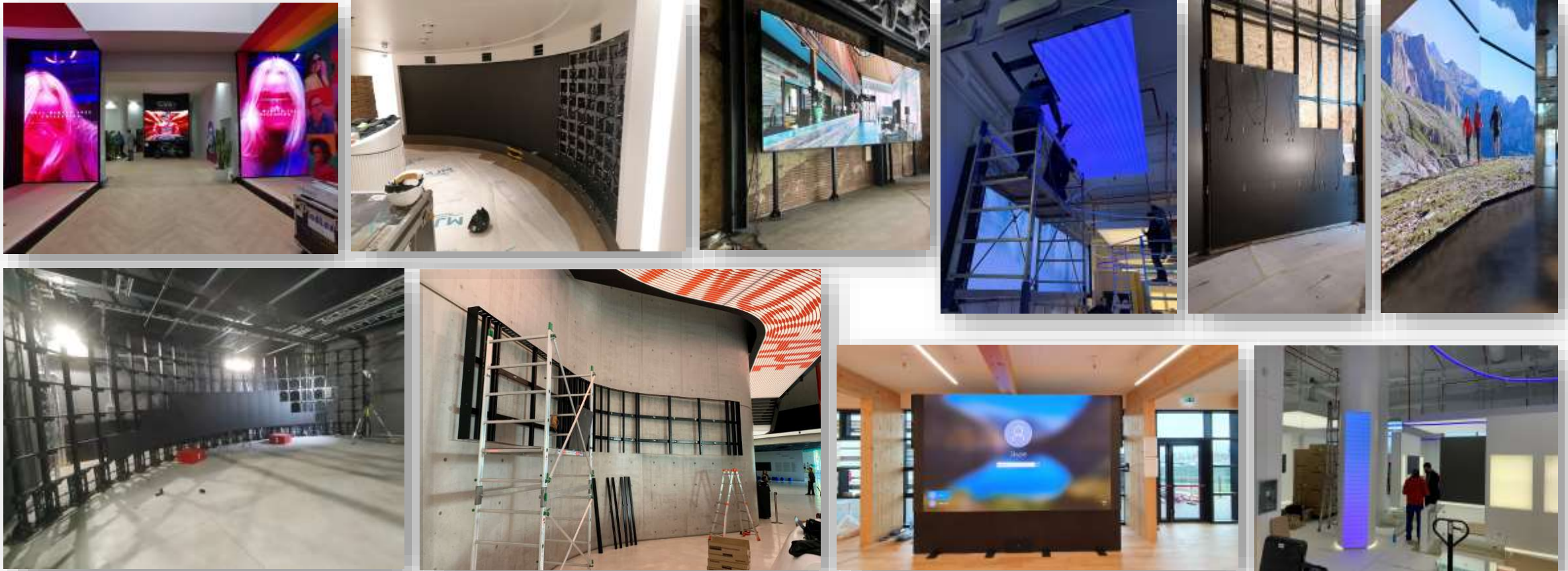
# LED structures – all custom made



All structures are custom made.

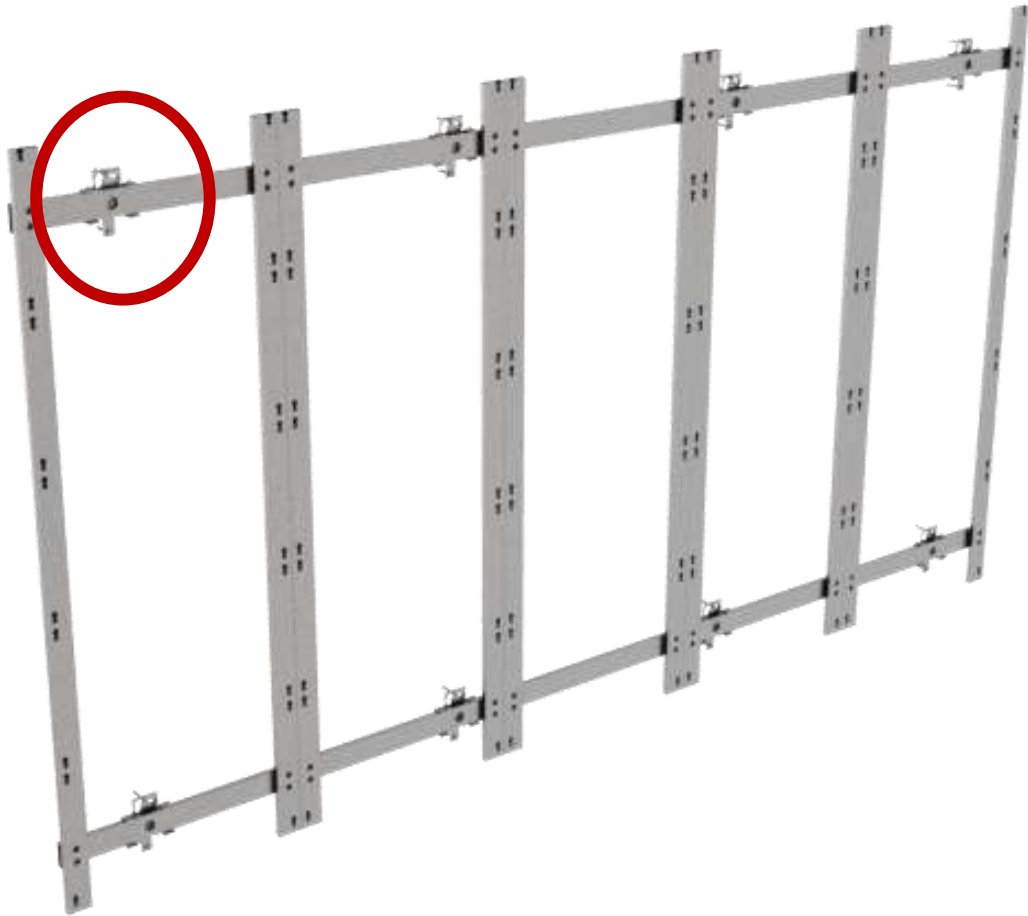
So you can ask for the most suitable shapes and sizes for your project

# LED structure installation example



OMB develops and produces  
INDOOR and OUTDOOR structures

# LED wall Indoor



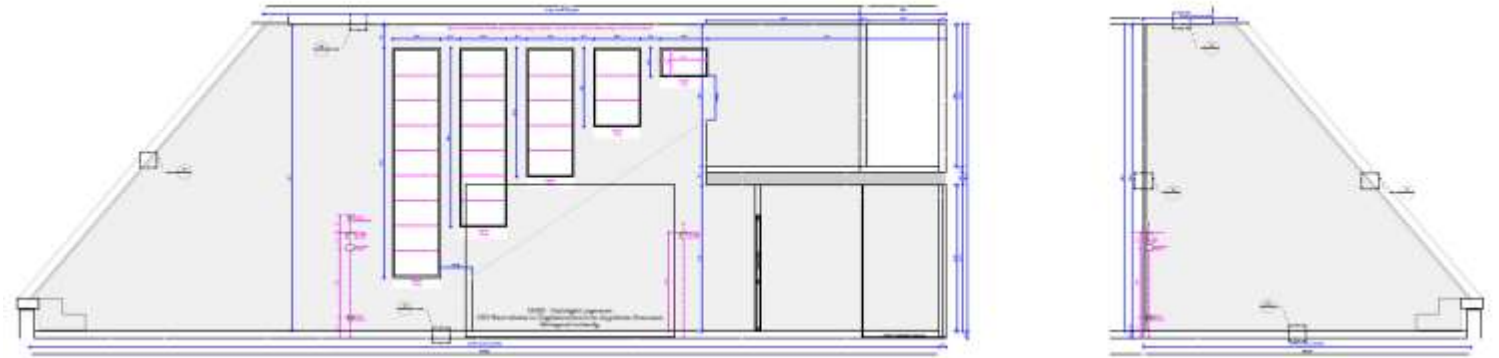
X, Y and Z axis adjustment



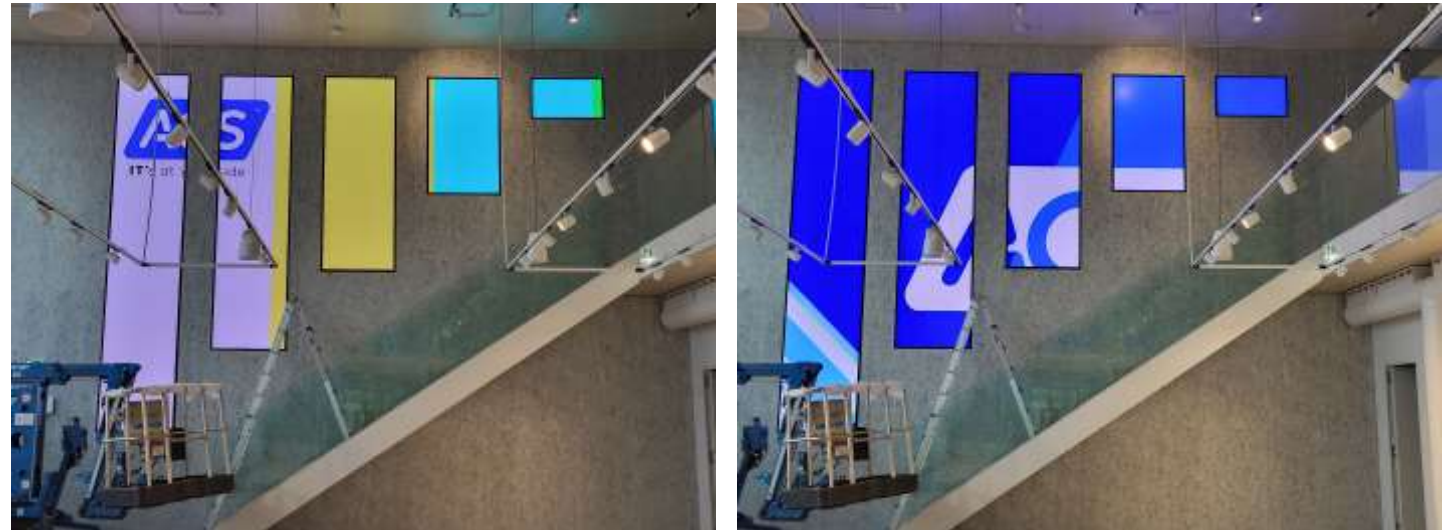
Request your structure without obligation: [REQUEST](#)

# LED wall for creative design

- PRELIMINARY LAY-OUT requested by final customer



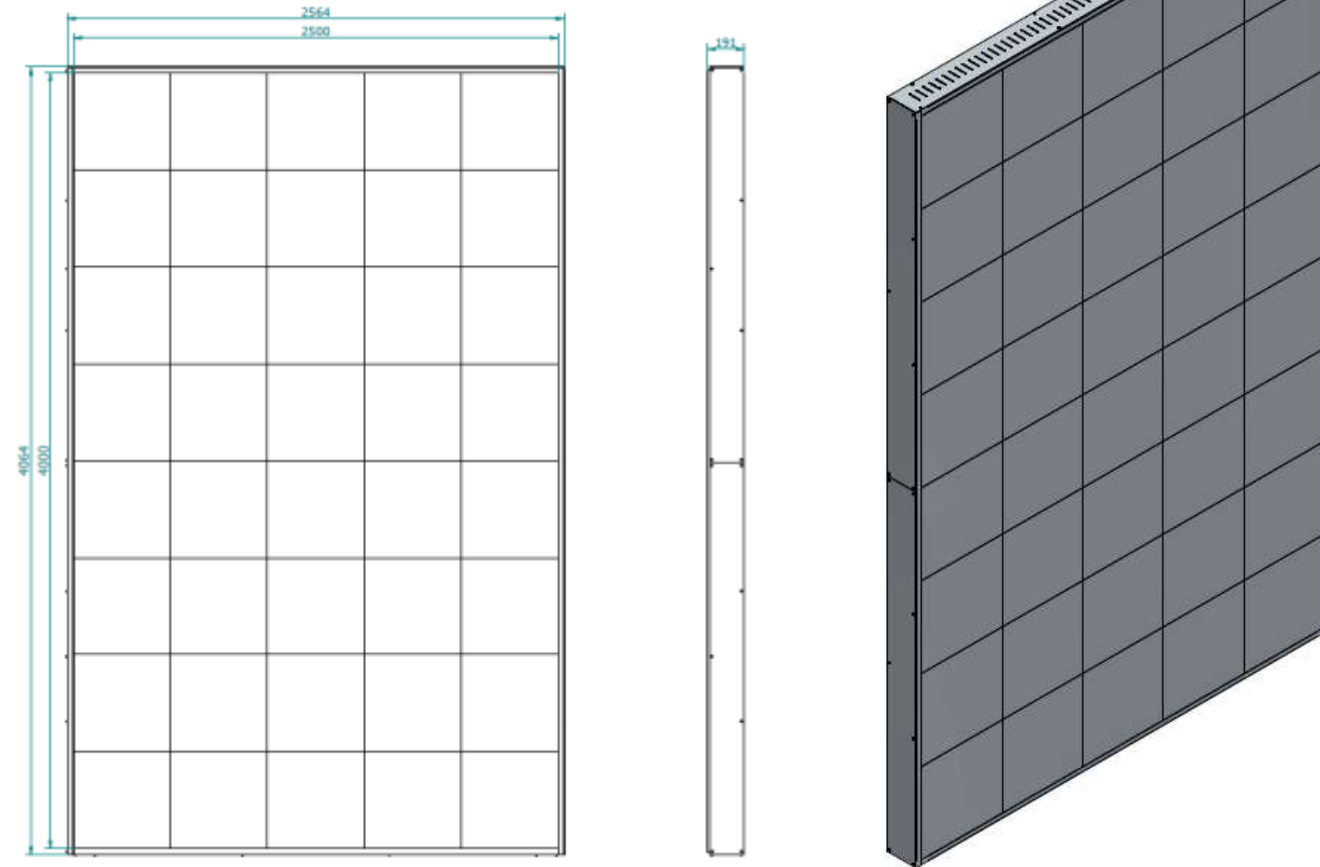
- FINAL INSTALLATION with OMB STRUCTURE



Request your structure without obligation: [REQUEST](#)

# LED wall Outdoor

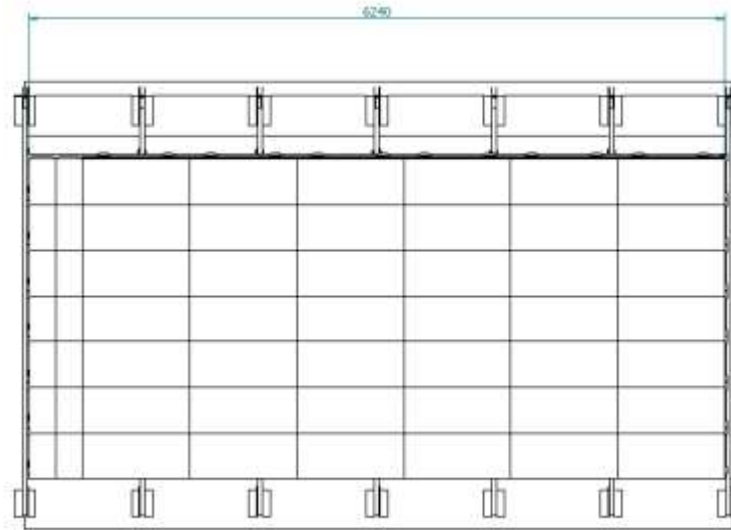
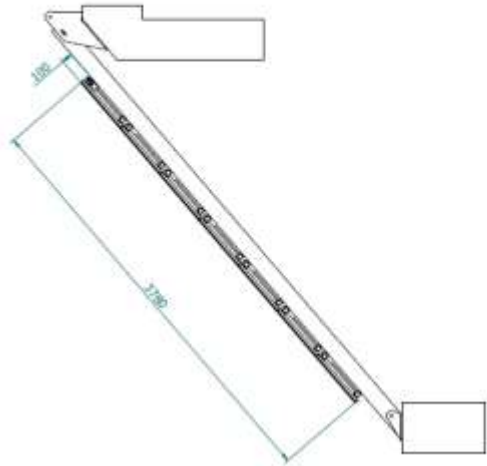
- Metal Frame around LEDwall
- structure in galvanized and painted iron
- X, Y and Z axis adjustment



You can finish your LED with an aesthetic frame  
This frame will also be useful as a protection from any accidental damage

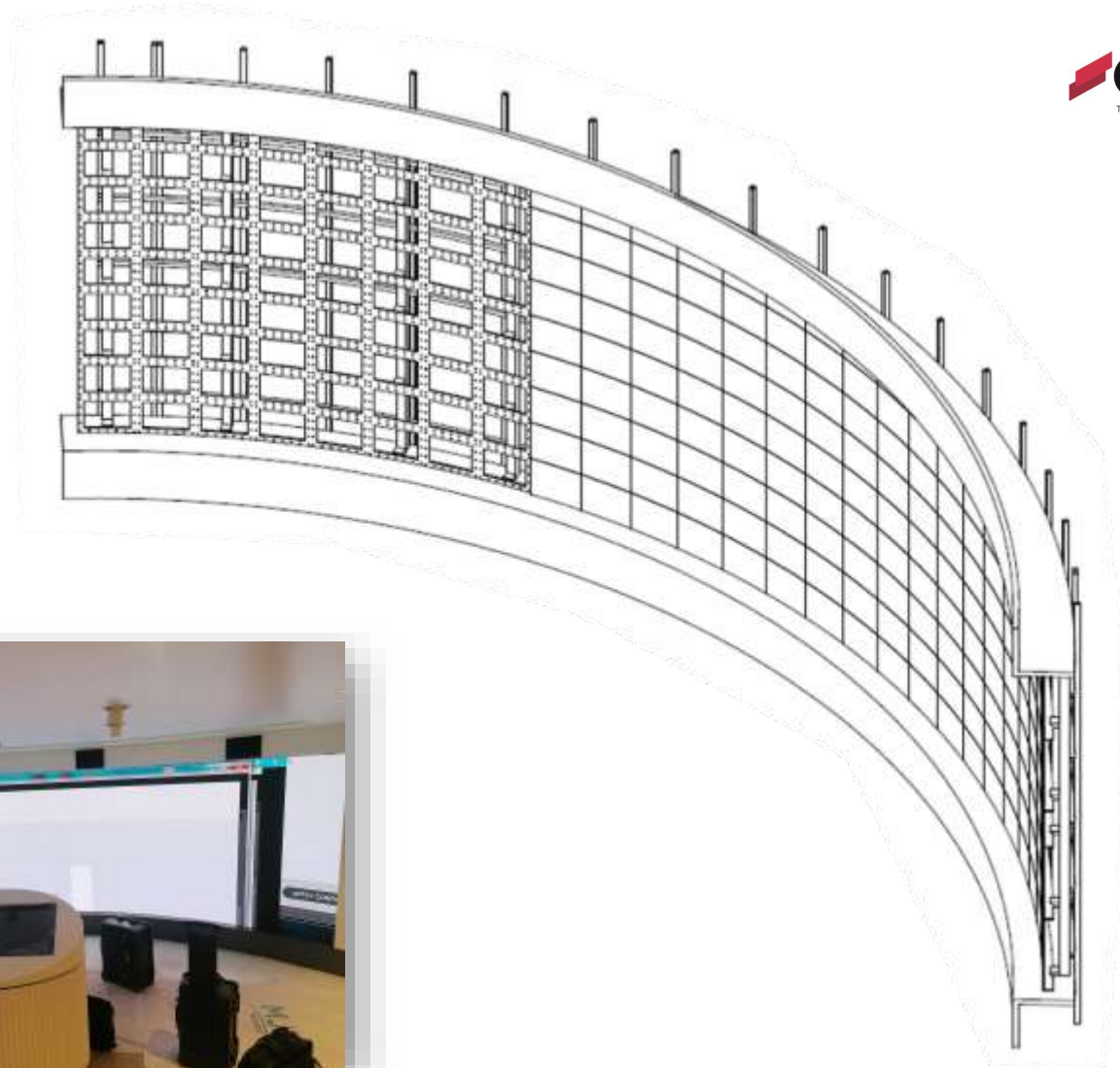
# LED ceiling structure

- Metal Frame around LEDwall
- structure in painted iron
- X, Y and Z axis adjustment



You can finish your LED with an aesthetic frame  
This frame will also be useful as a protection from any accidental damage

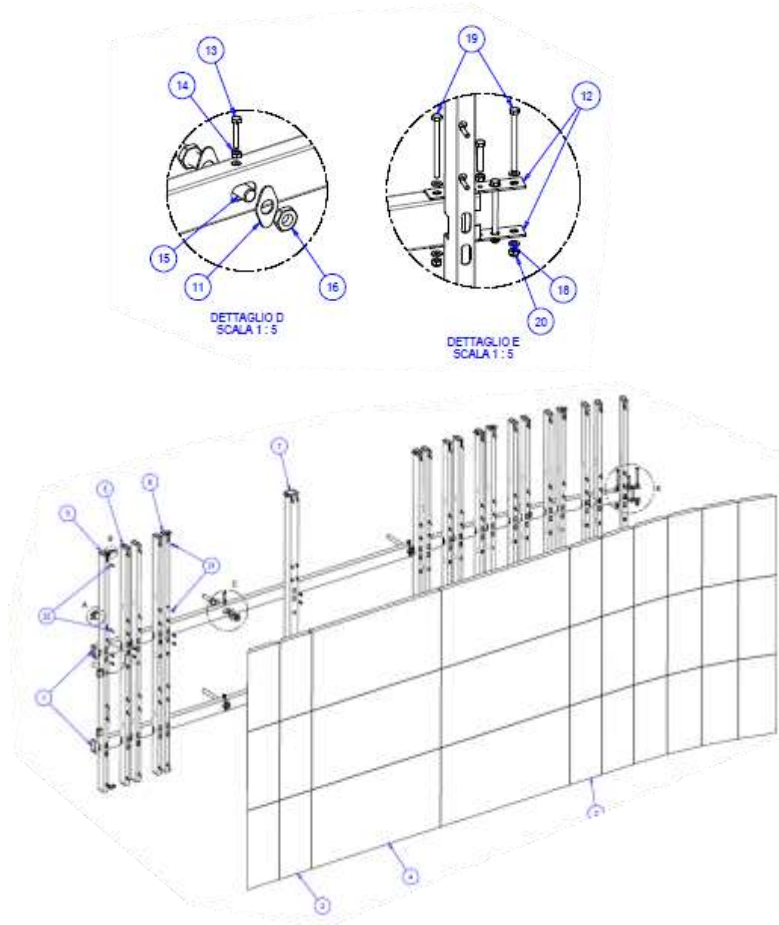
# Curved LED wall



If your wall is curved,  
we at OMB will find the most suitable solution

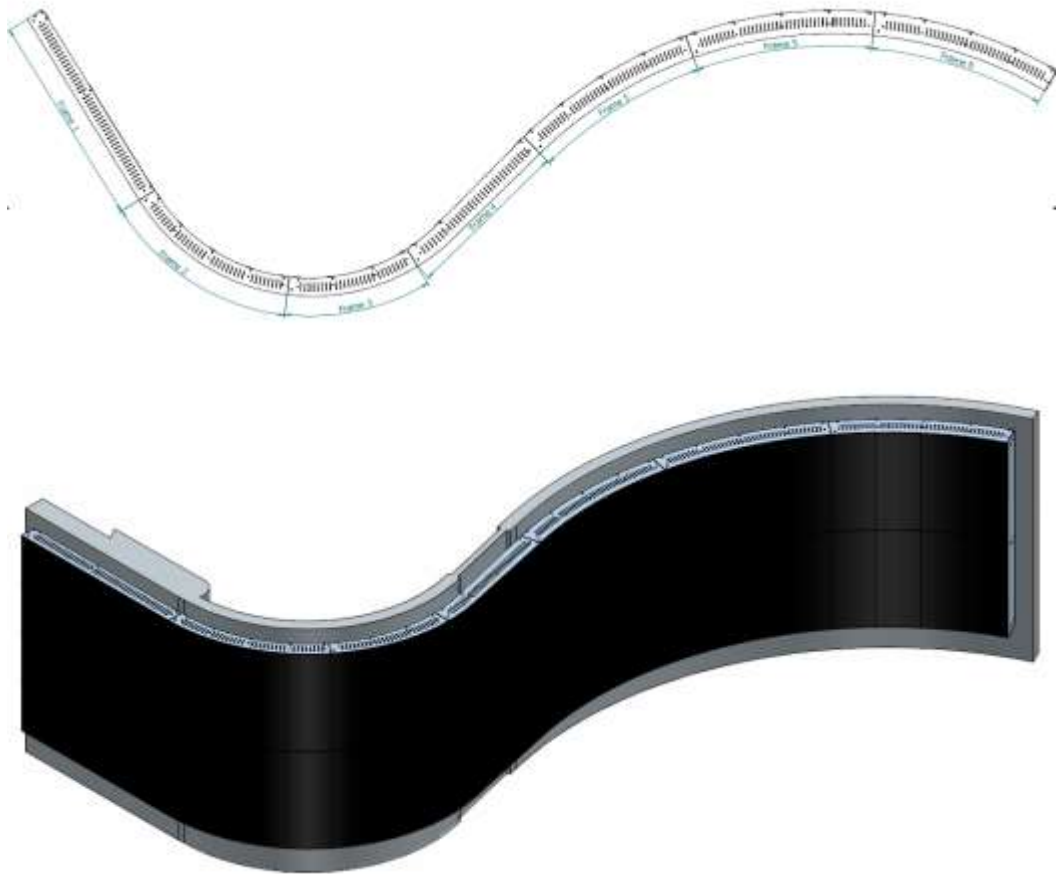


# Curved LED wall



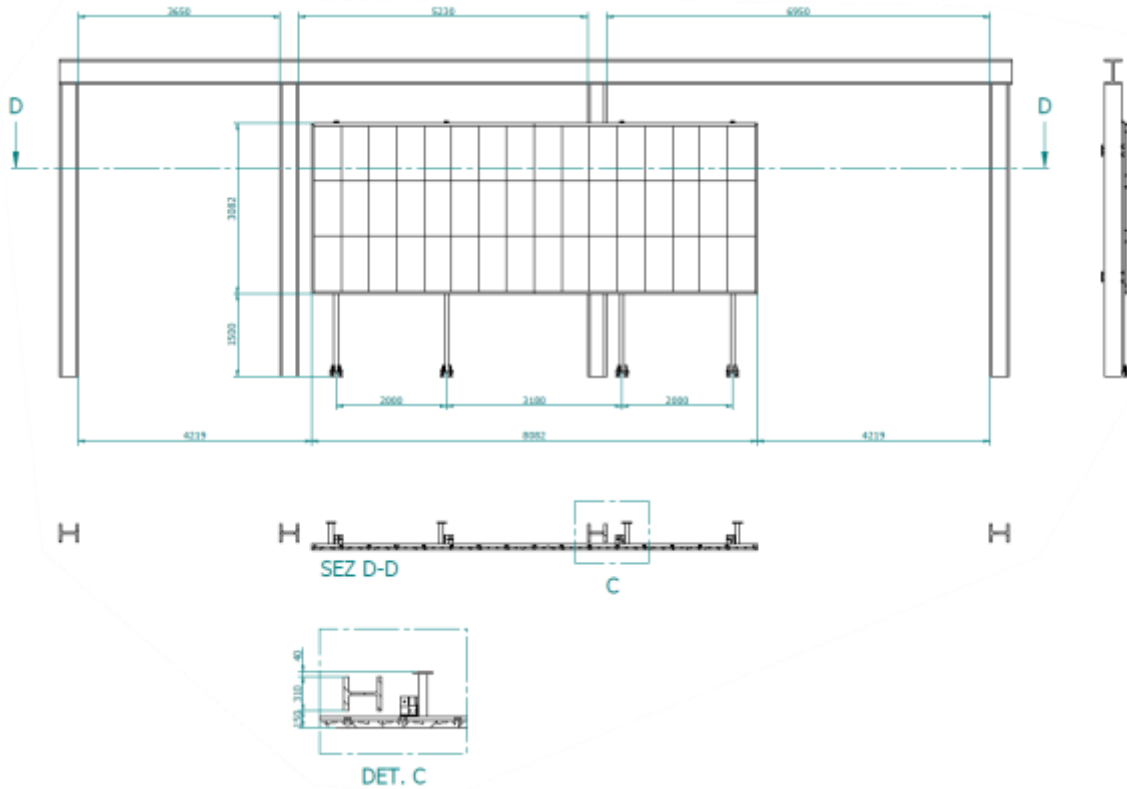
If your wall is concave or convex,  
we at OMB will find the most suitable solution

# Curved LED wall



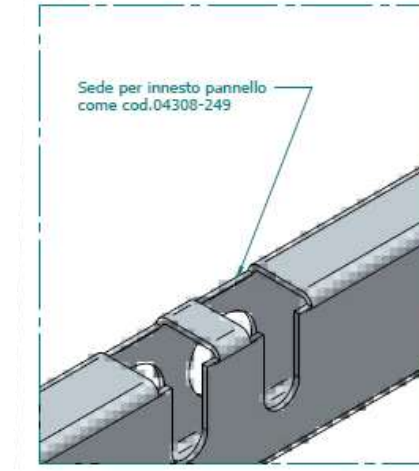
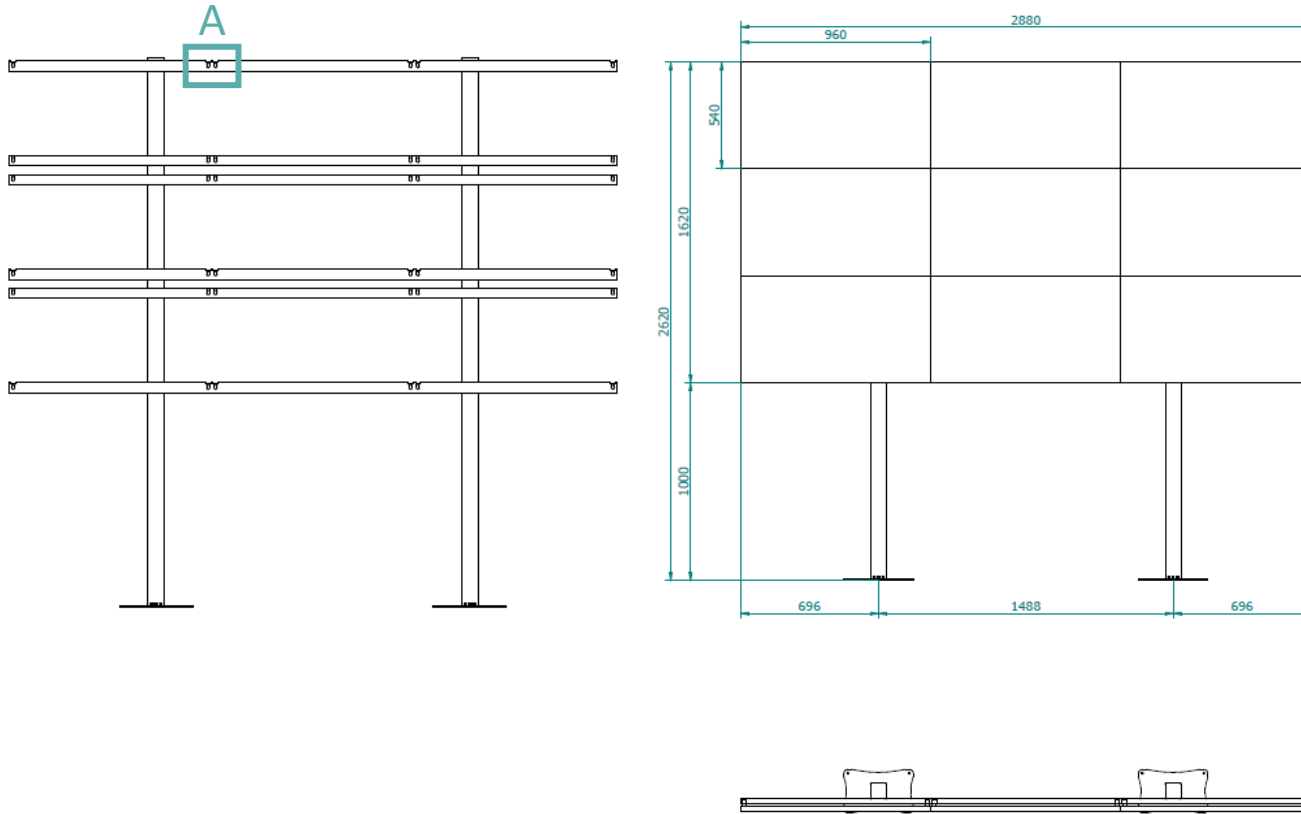
If your wall is concave or convex,  
we at OMB will find the most suitable solution

# Floor to Wall or Bolt-Down structures



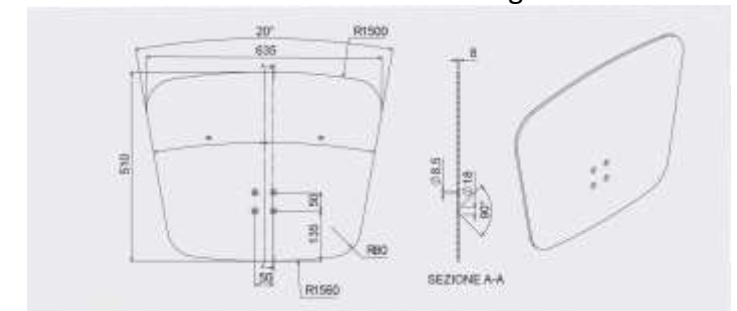
If the wall cannot support the weight of the LED, we can develop Floor to Wall solutions or Bolt-Down solutions

# Bolt-Down structures



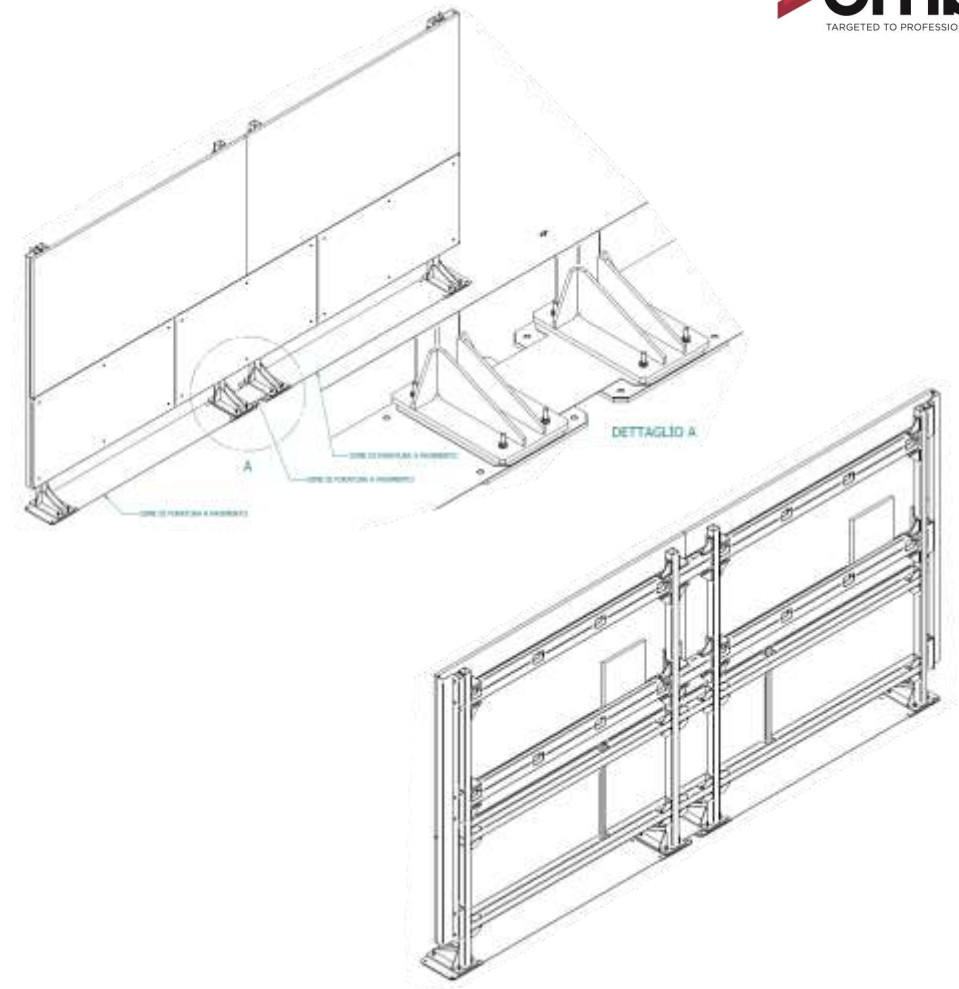
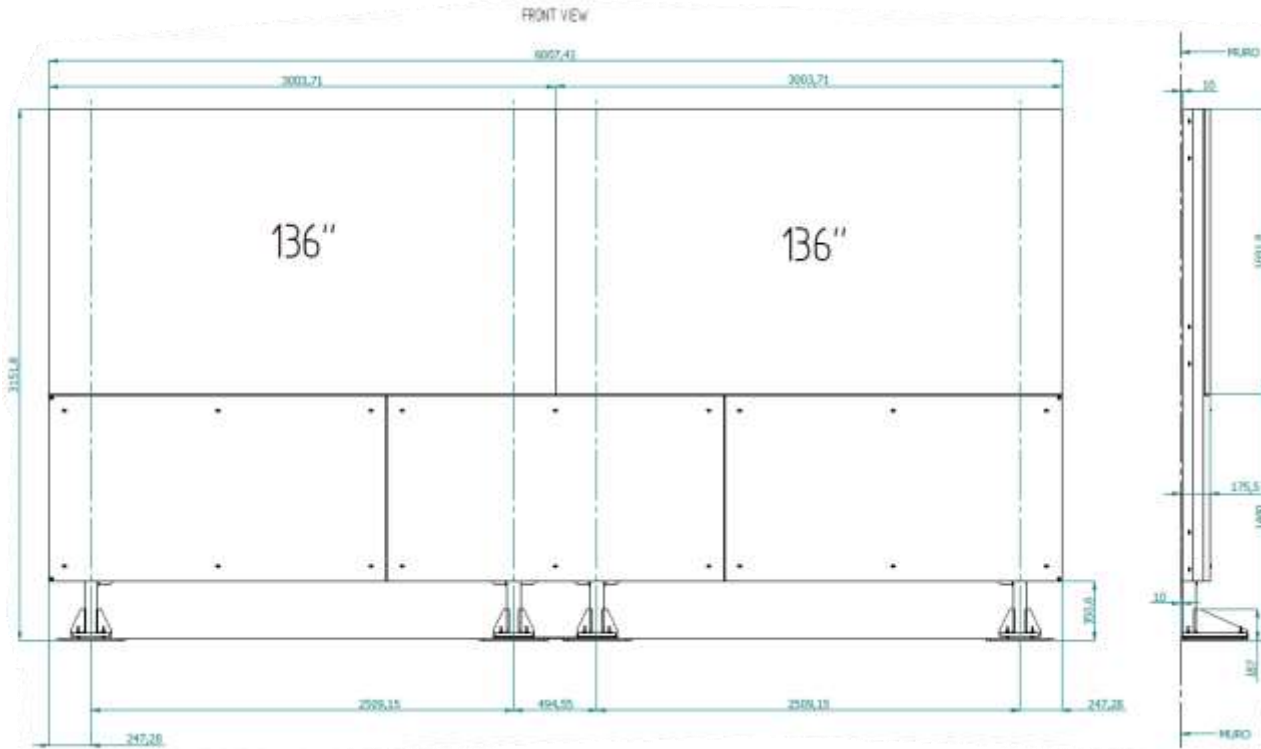
DETTAGLIO A

Base dimension for freestanding solutions



Example of structures to be fixed to the floor or freestanding  
Suitable for small size LEDs (up to approx. 220")

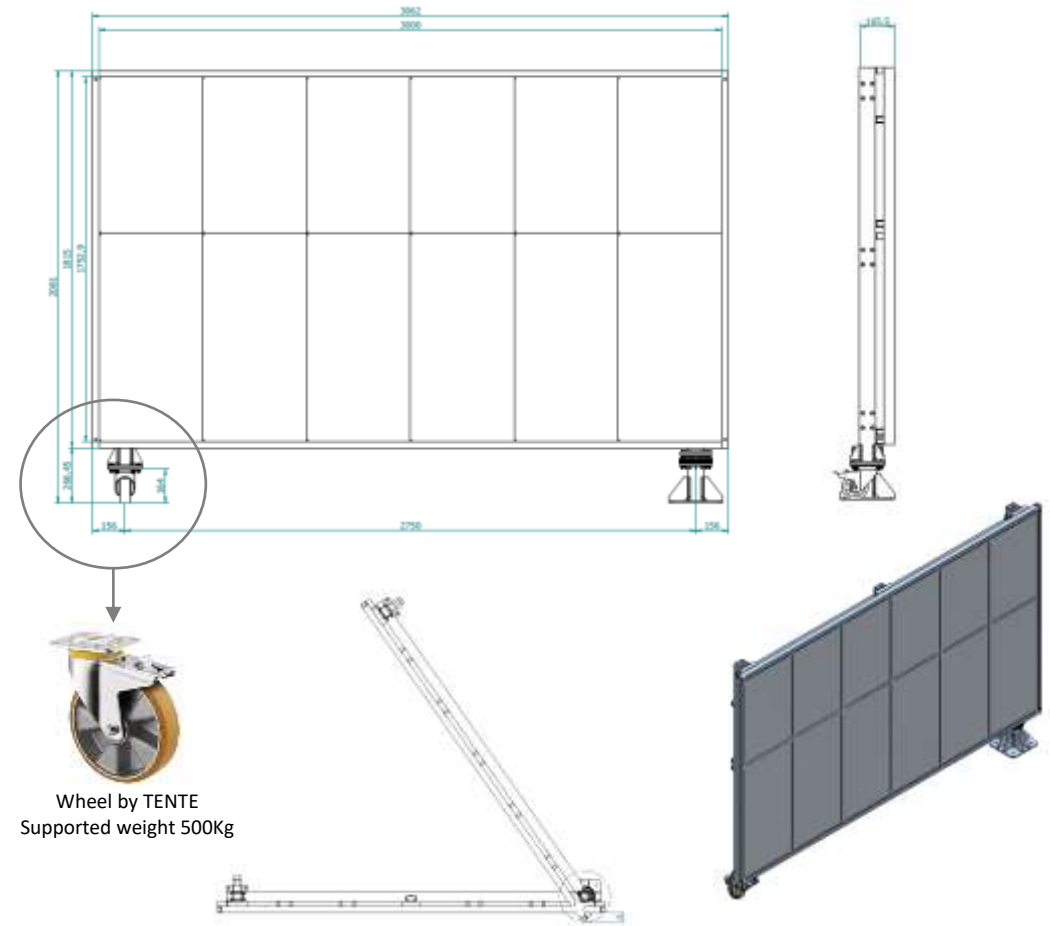
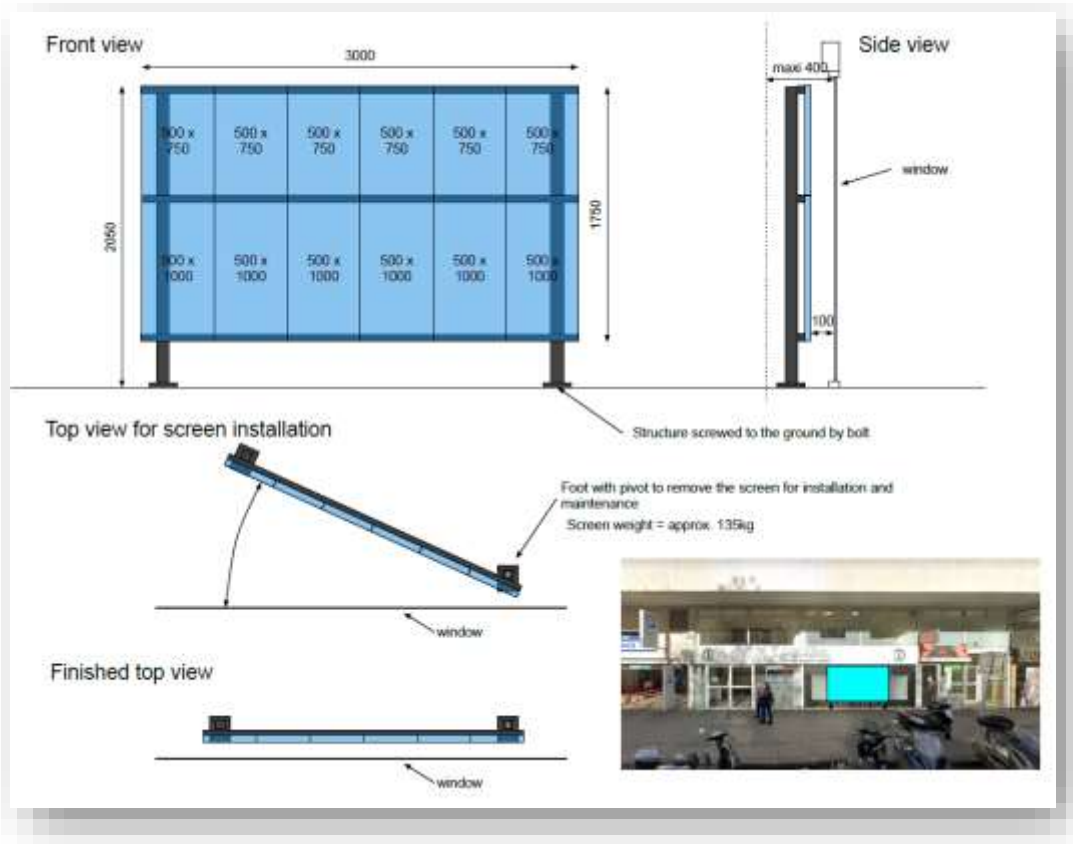
# Bolt-Down structures



Example of structures to be fixed to the floor

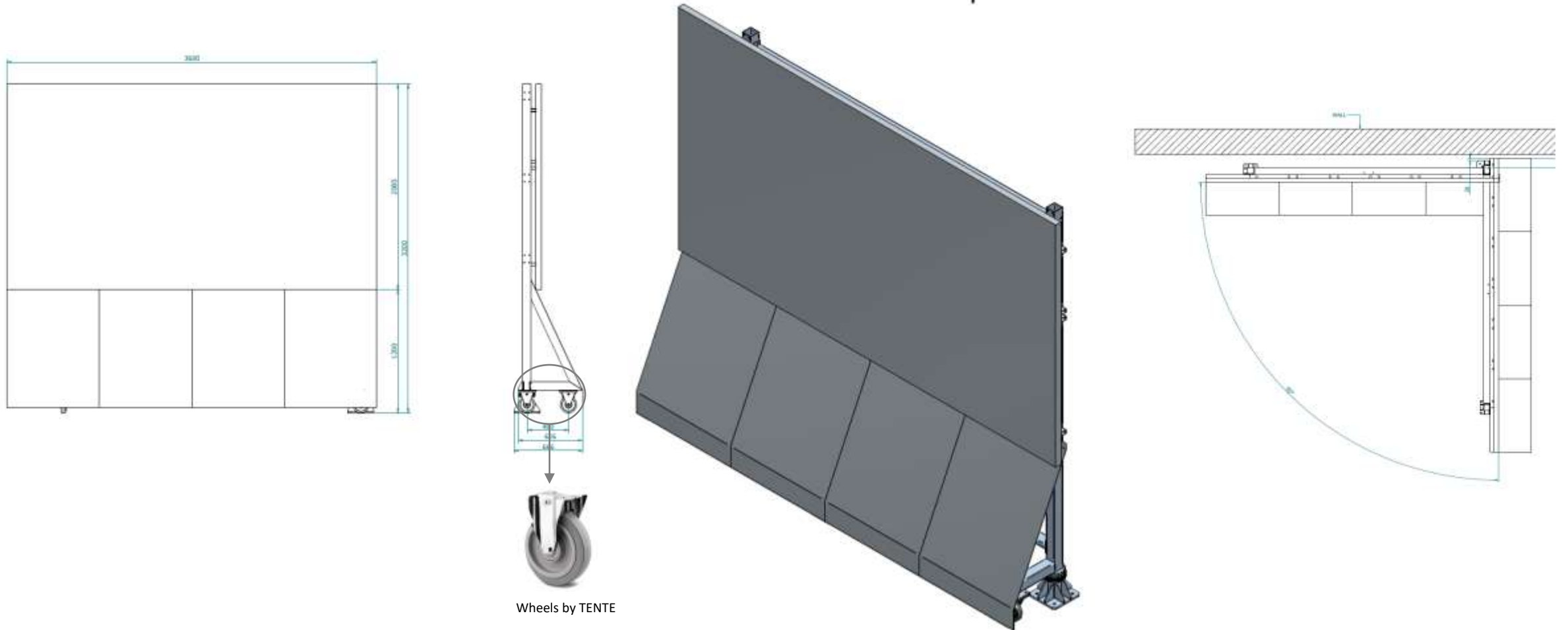
# Bolt-Down structures with rotation

Request from customer for front window LED structure



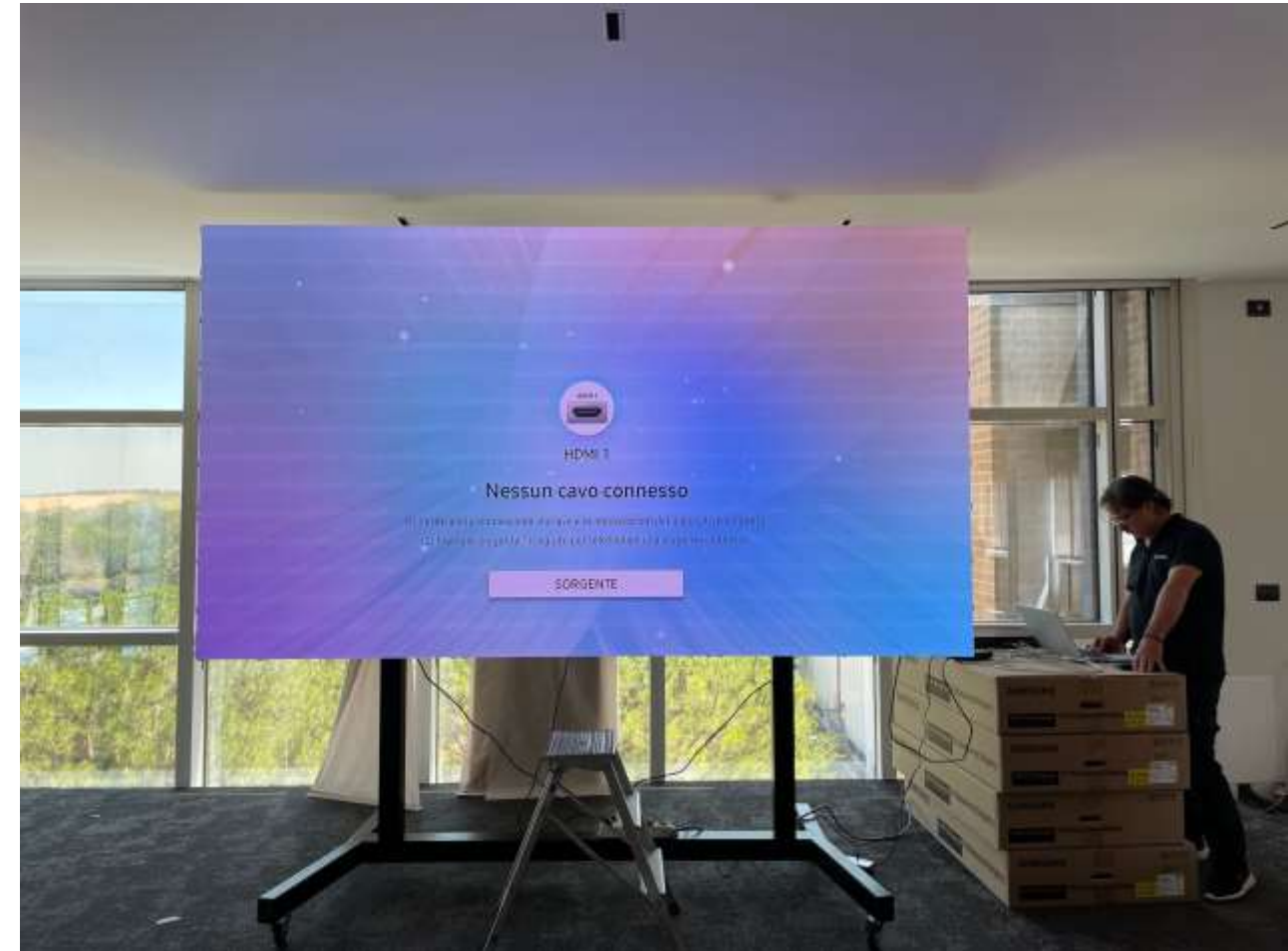
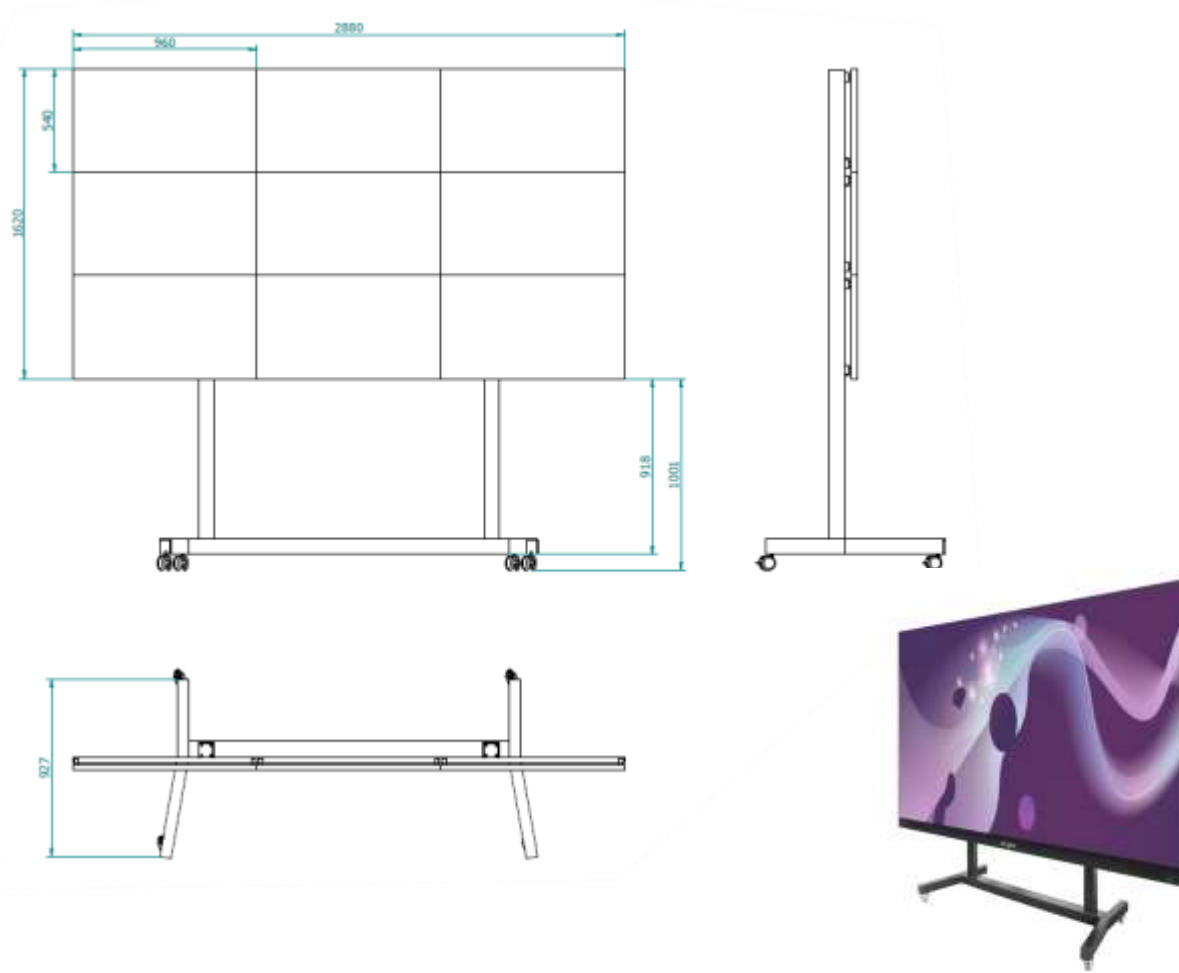
Example of structures to be fixed to the floor or freestanding  
Suitable for small size LEDs (up to approx. 220")

# Bolt-Down structures with rotation



Example of structures to be fixed to the floor or freestanding  
Suitable for small size LEDs (up to approx. 220")

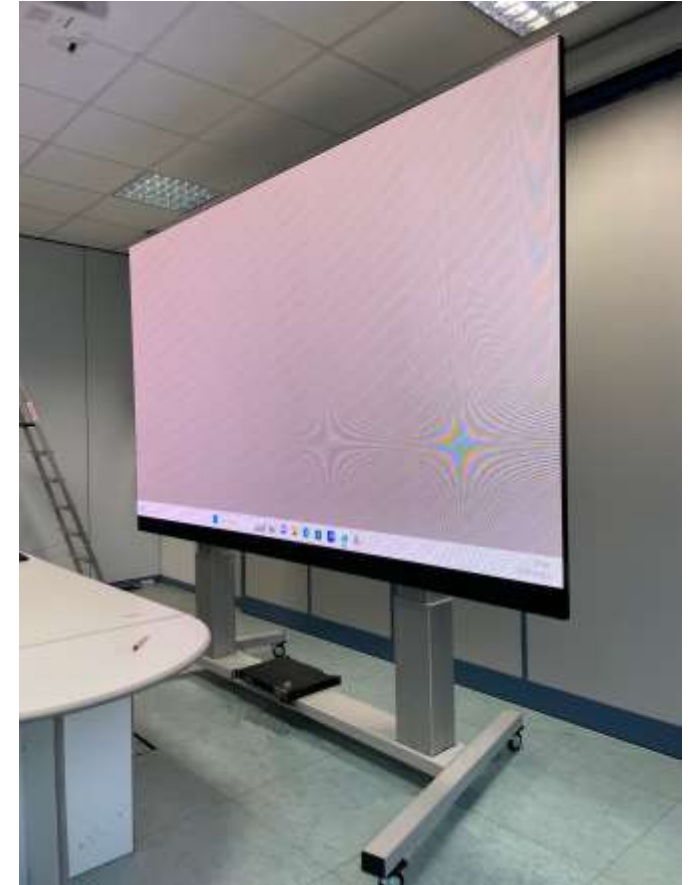
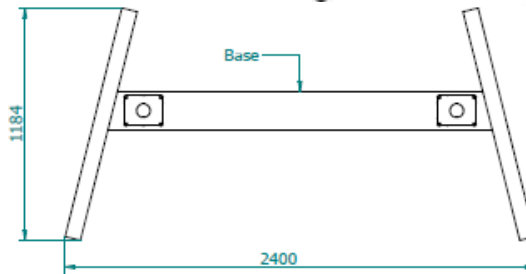
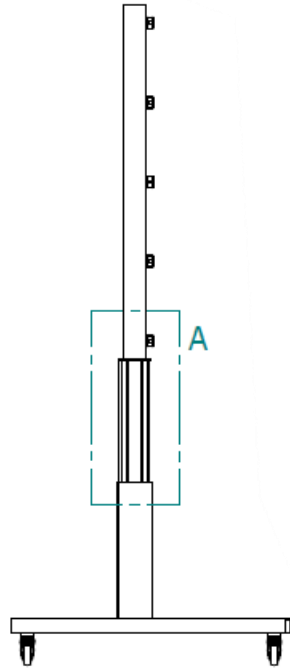
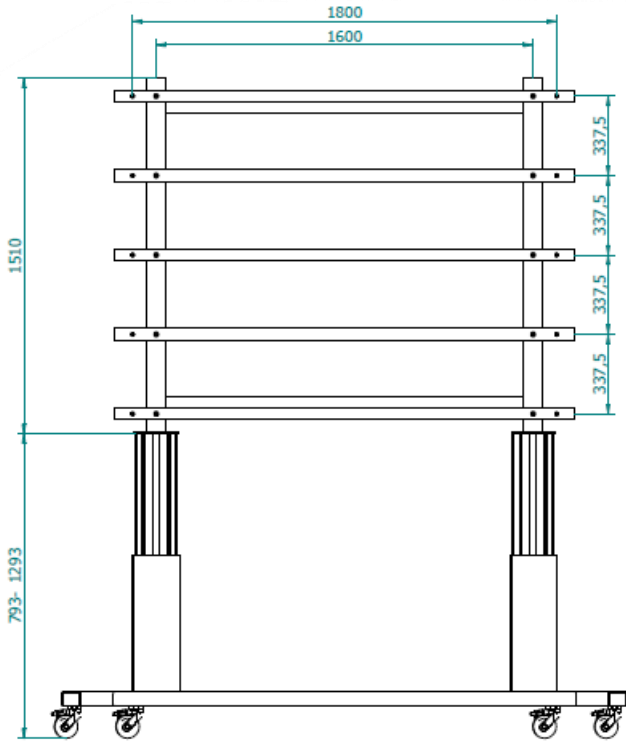
# Mobile structures



If you need mobile LED (up to around 165"),  
we have the most cost-effective solution

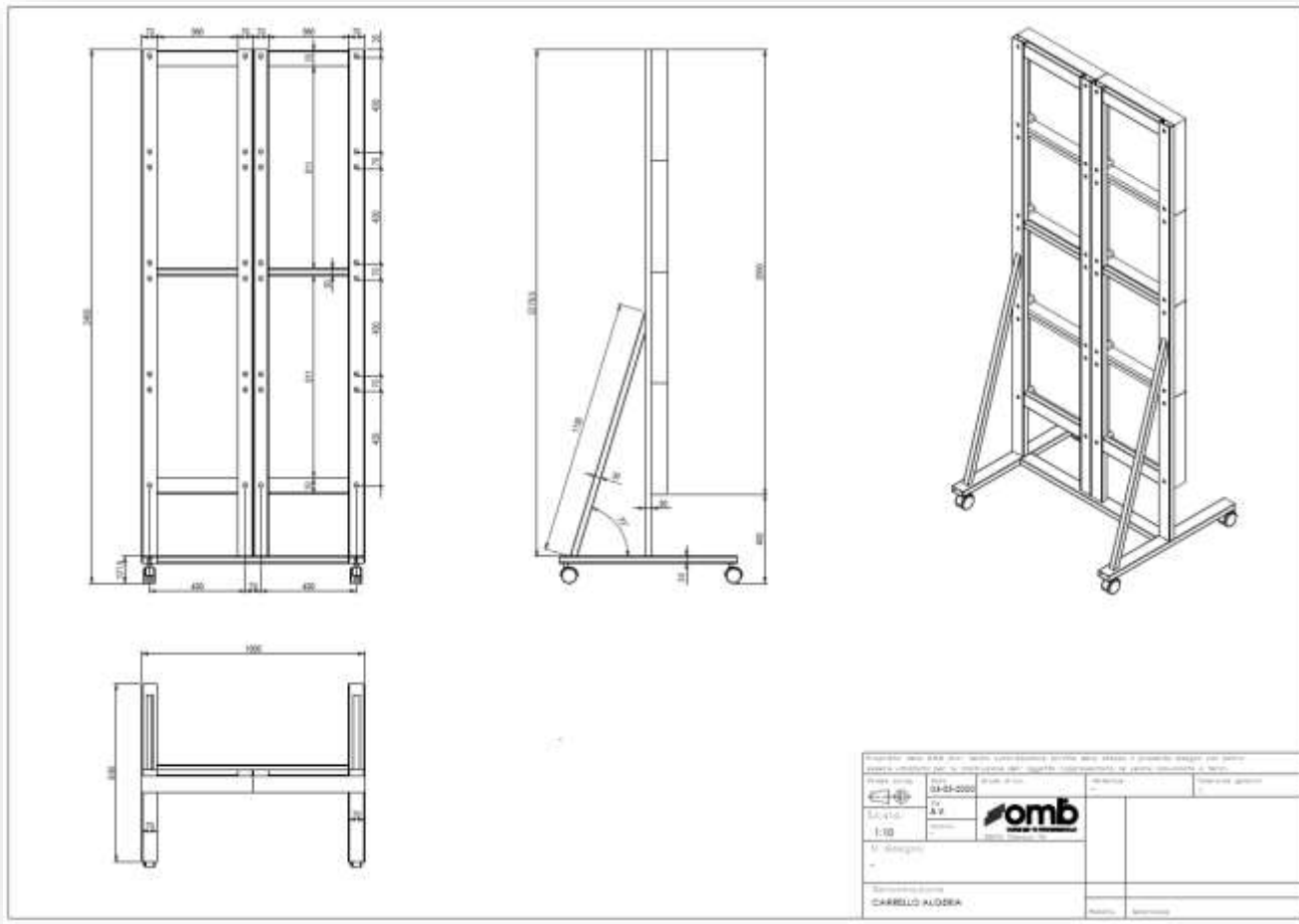


# Mobile Motorized structures – up to 165”

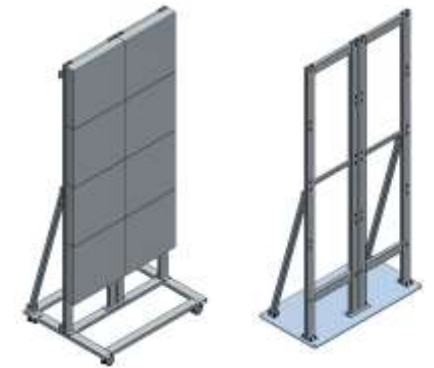


Motorized trolley for LED All-in-One or with single tiles.  
Doble motorized column (color grey RAL9016)

# Trolley or Totem-style



These trolleys can also be combined to create a larger LED



You can remove the caster base and mount a free-standing base

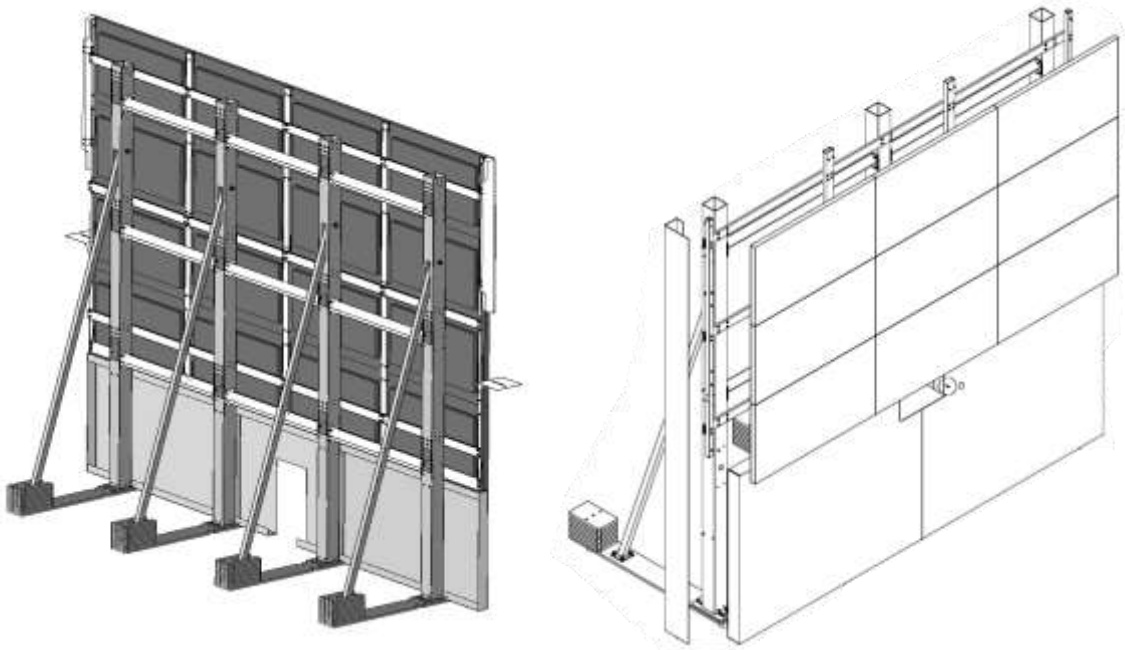


A flexible and modular solution

# Freestanding structures

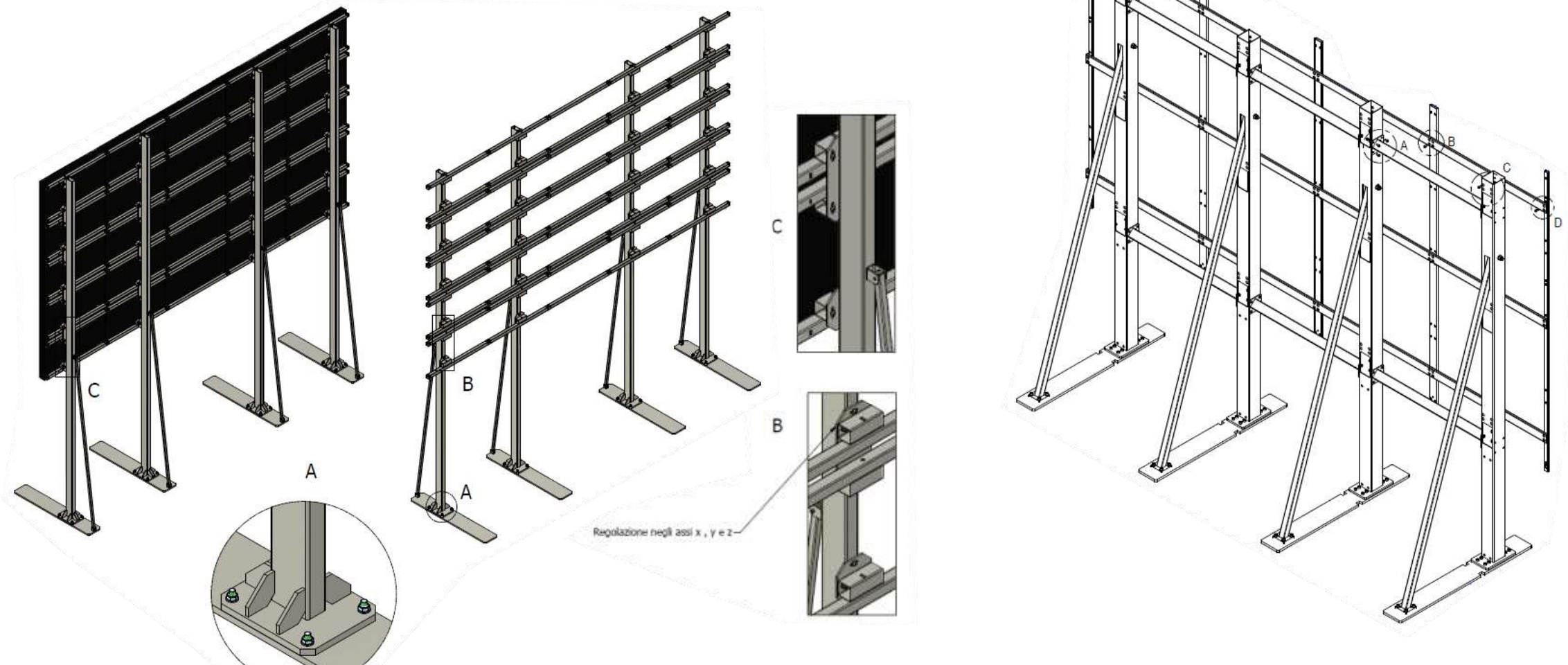
The structures are normally designed with space at the back so as not to hinder the speaker. If necessary we can develop them with feet towards the front

The structures can be supplied with metal front cover to mask the base



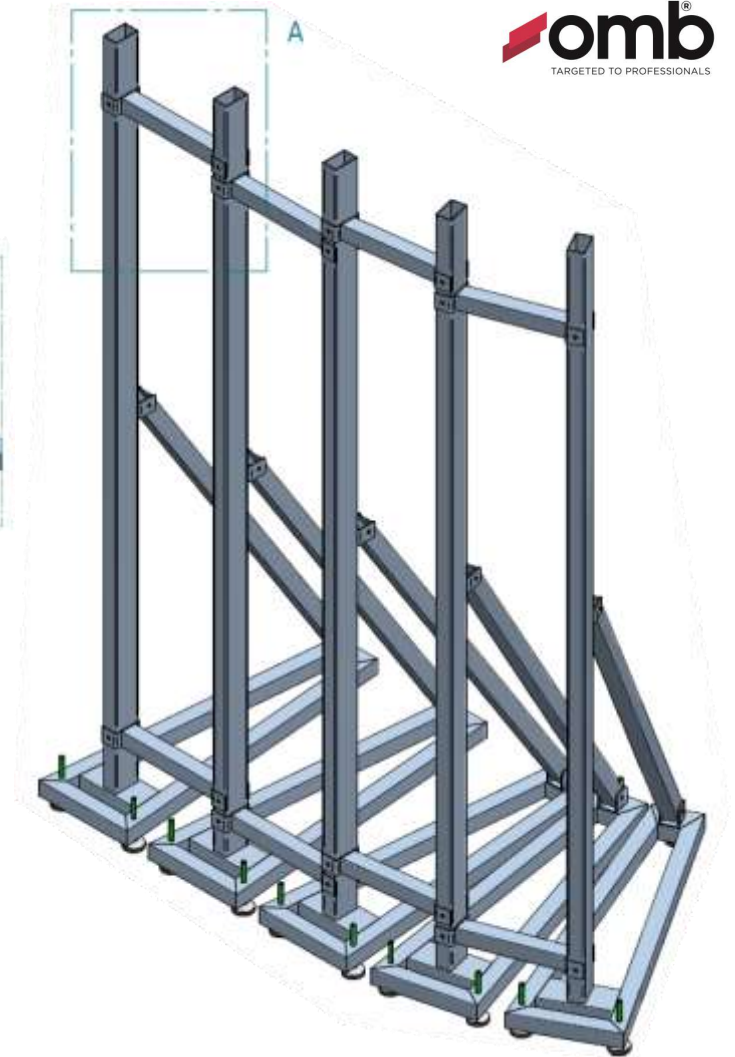
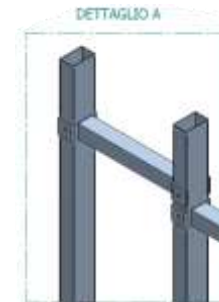
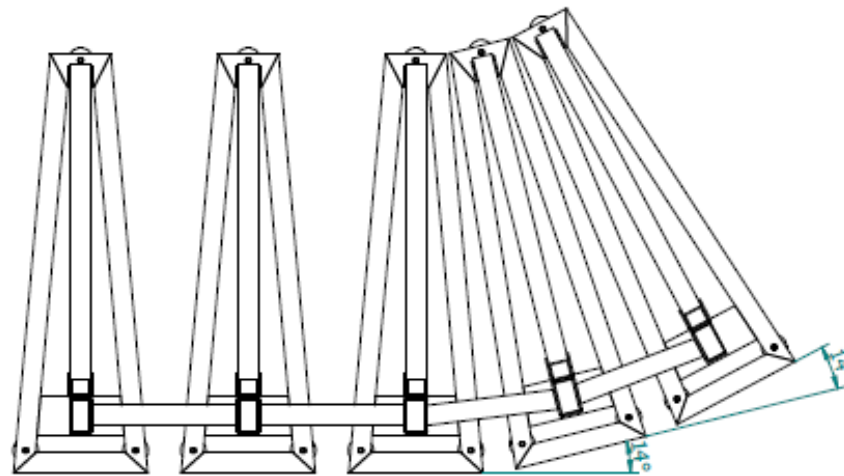
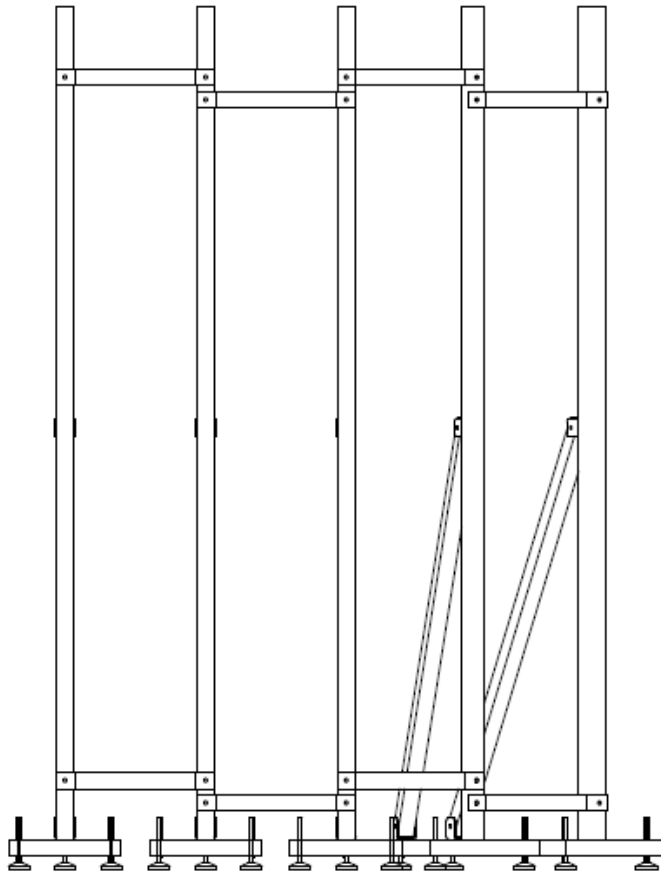
A flexible and modular solution

# Freestanding structures



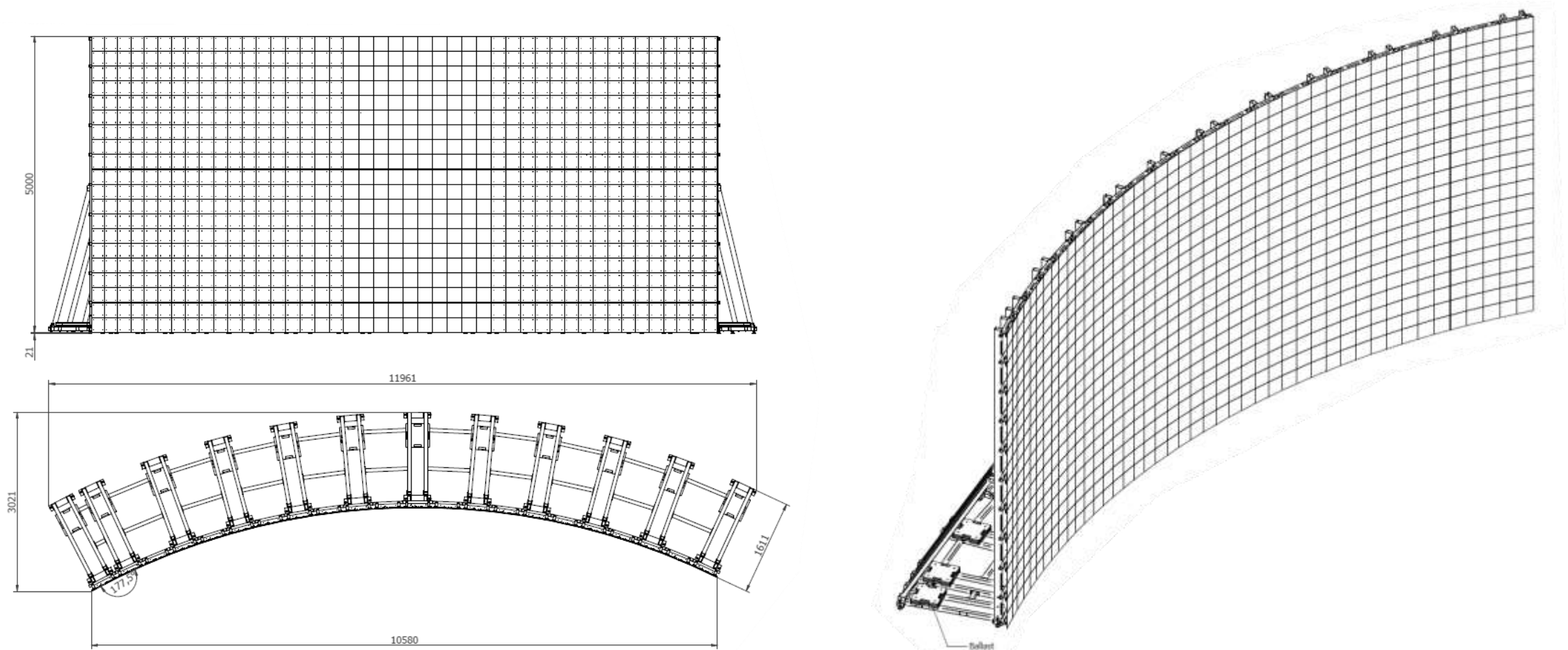
A flexible and modular solution

# Curved self-supporting structures



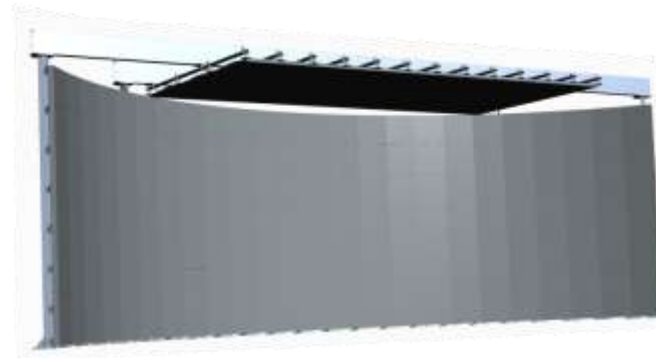
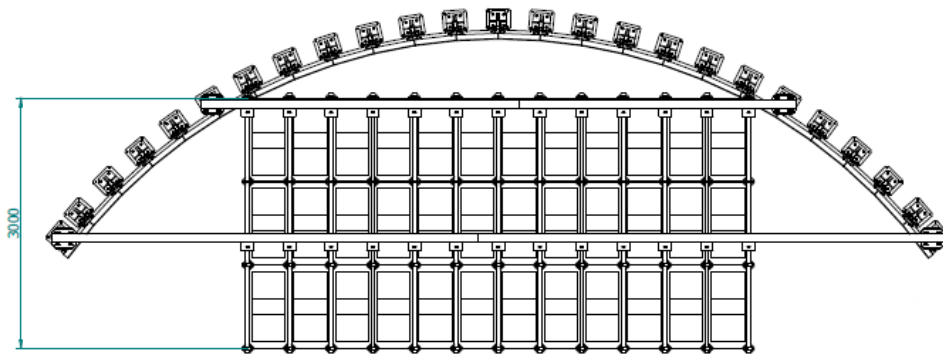
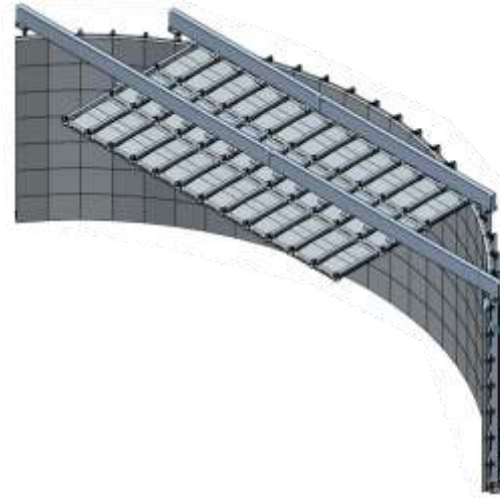
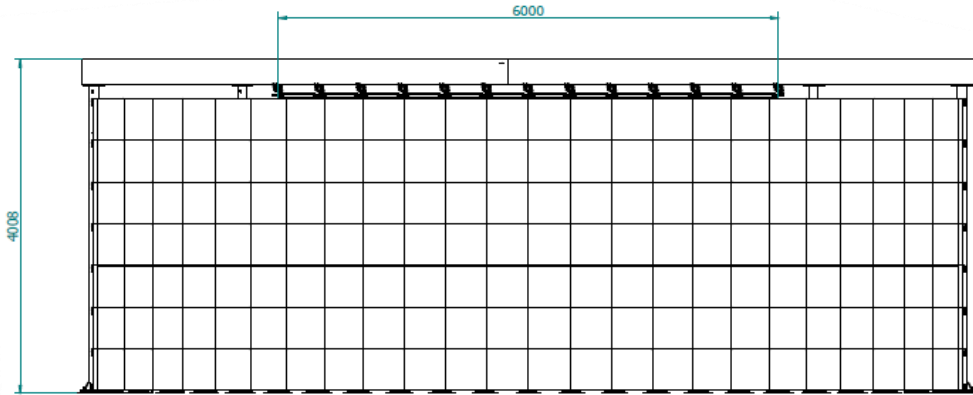
Even with self-supporting structures  
we can install curved LEDs

# Curved self-supporting structures



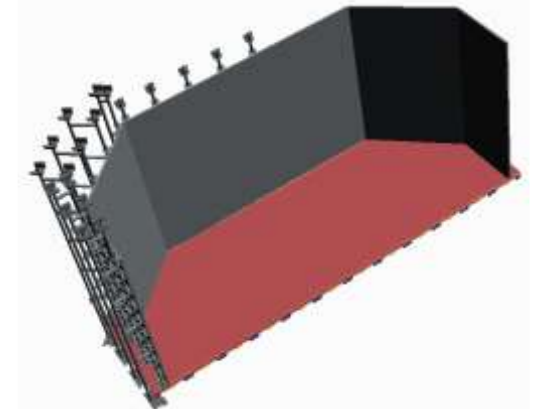
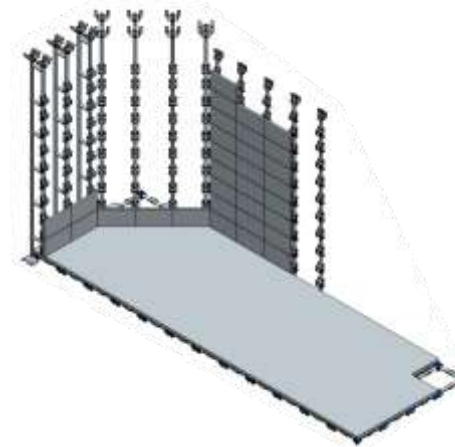
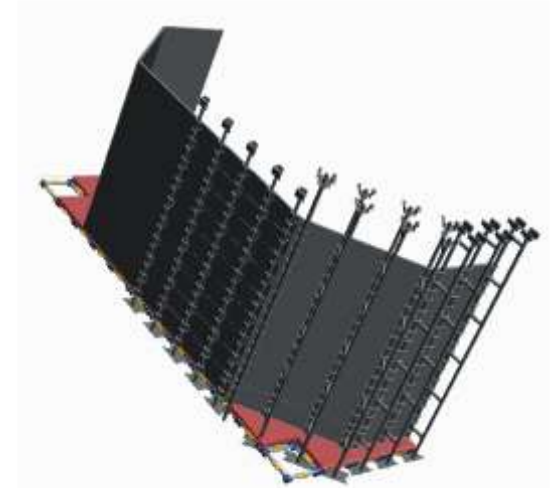
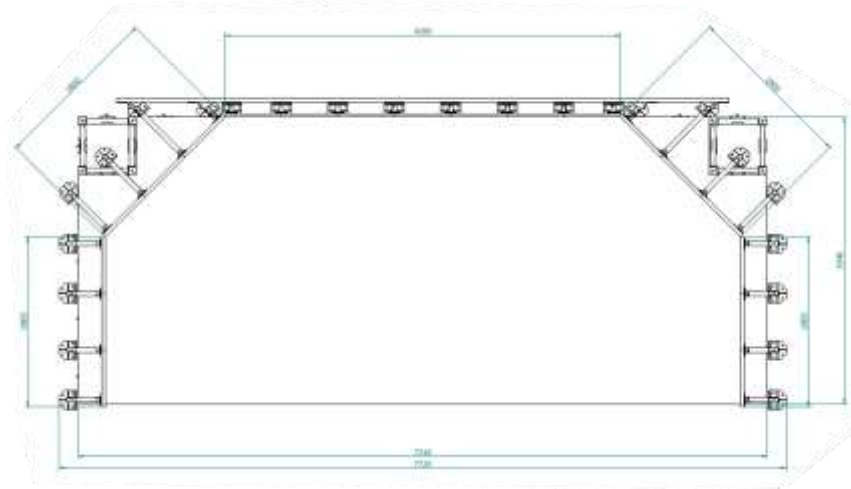
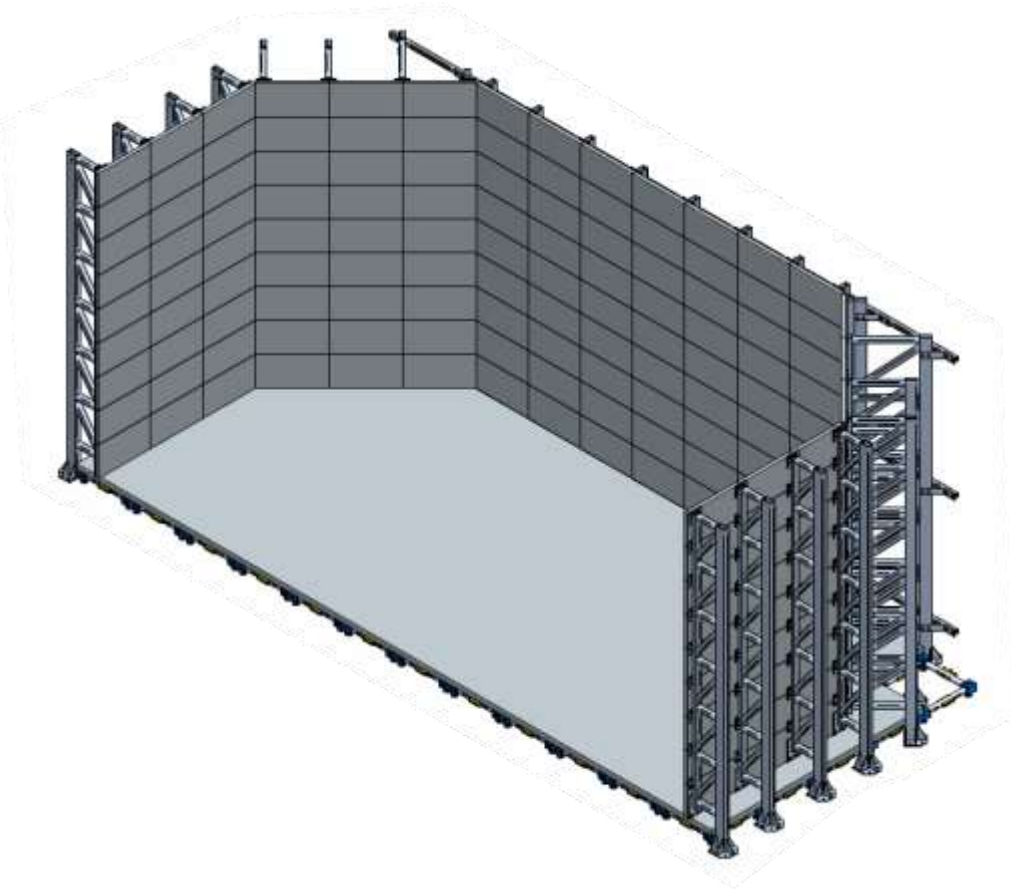
Even with self-supporting structures  
we can install curved LEDs

# Structures for Virtual Stage



We are specialized in complex projects  
such as VIRTUAL STAGE

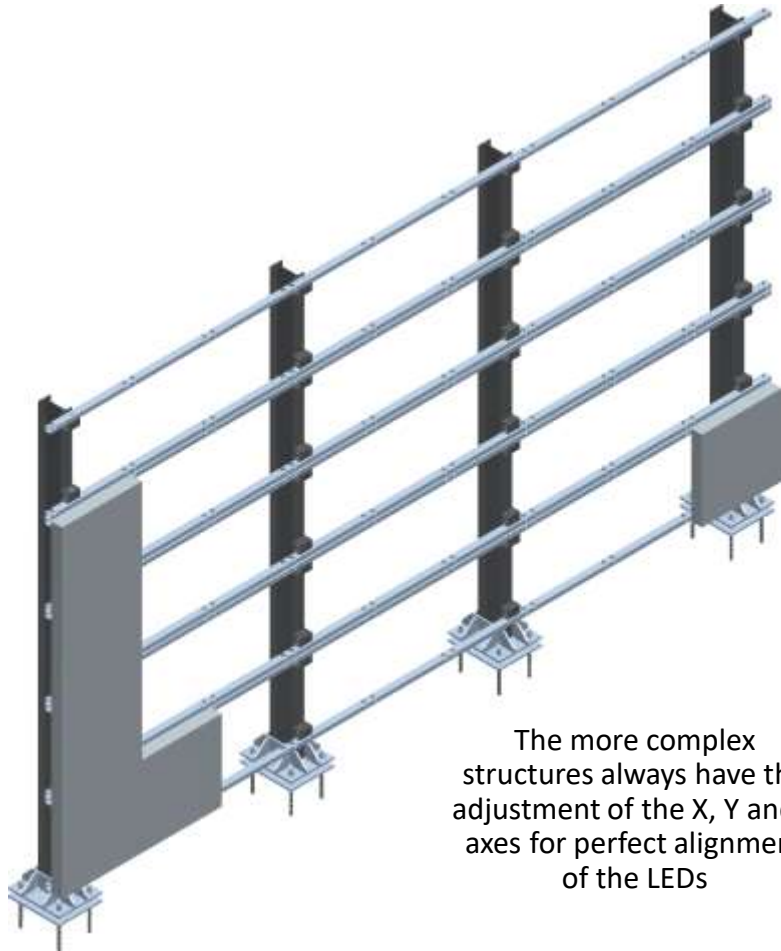
# Structures for TV Studio



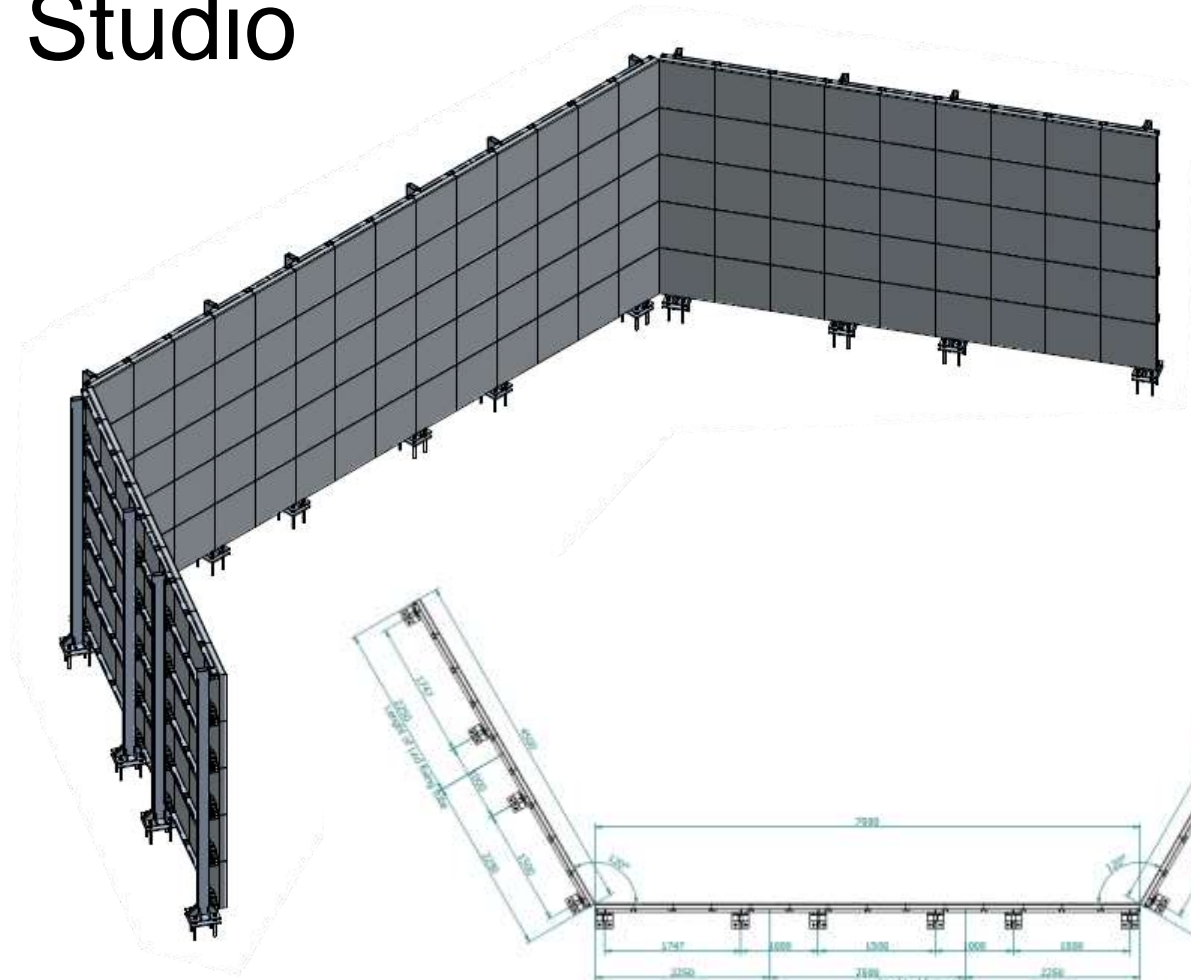
We are specialized in complex projects  
such as TV STUDIO



# Structures for TV Studio

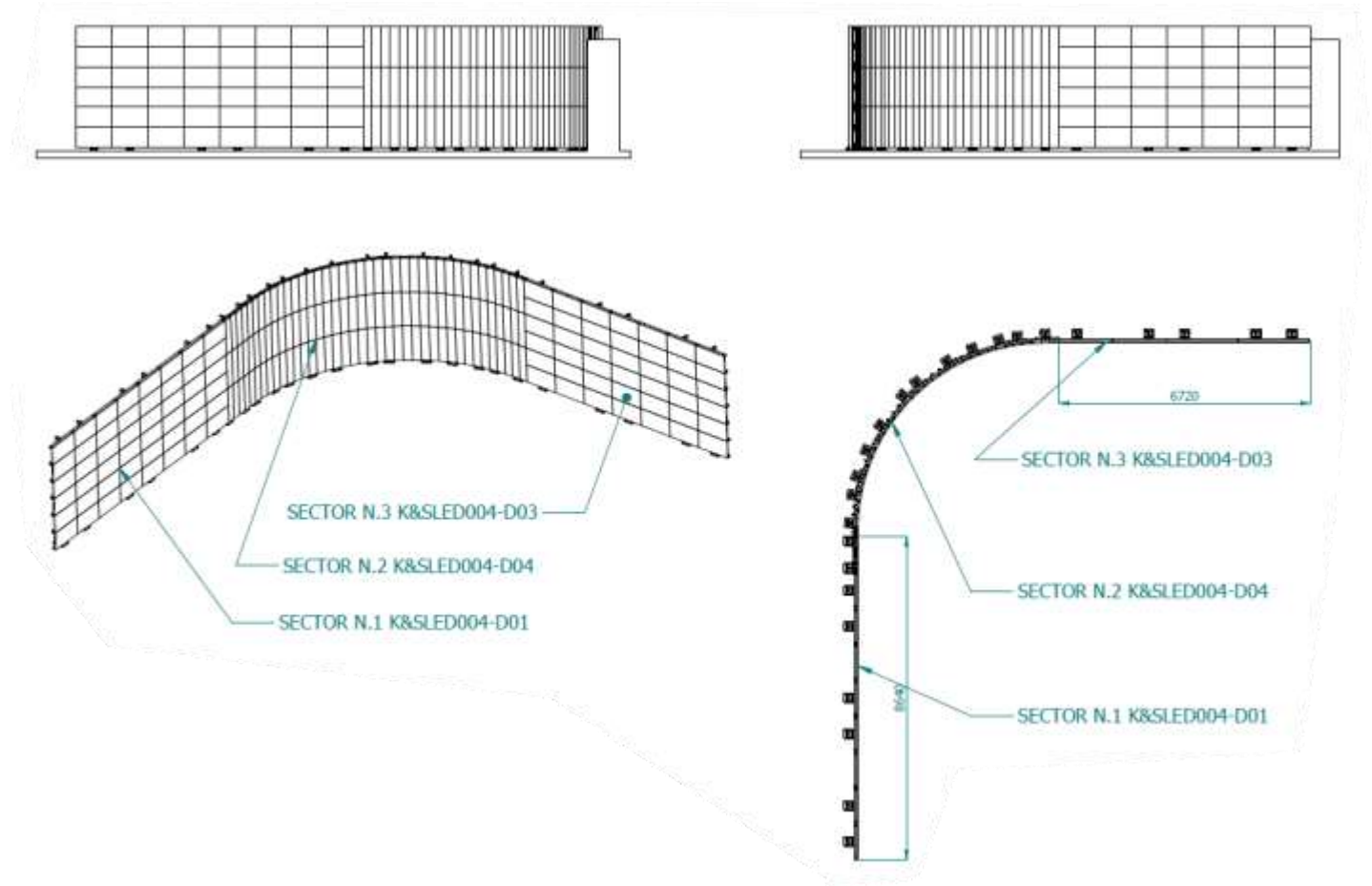
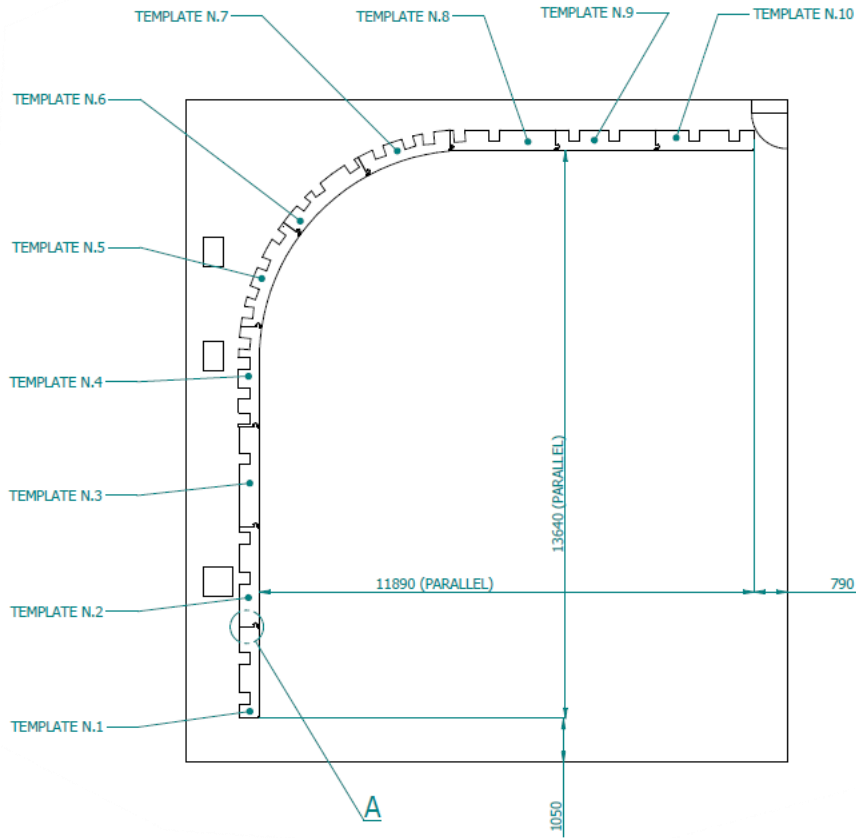


The more complex structures always have the adjustment of the X, Y and Z axes for perfect alignment of the LEDs



More complex LED structures require experience.  
We have it thanks to several projects done

# Structures for TV Studio



More complex LED structures require experience.  
We have it thanks to several projects done

# Structures for TV Studio

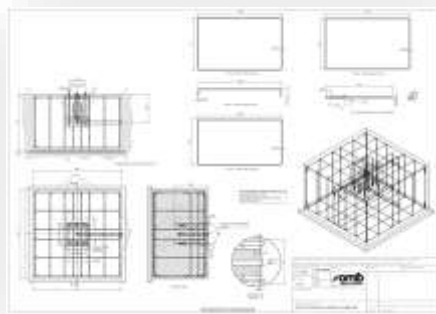


More complex LED structures require experience.  
We have it thanks to several projects done

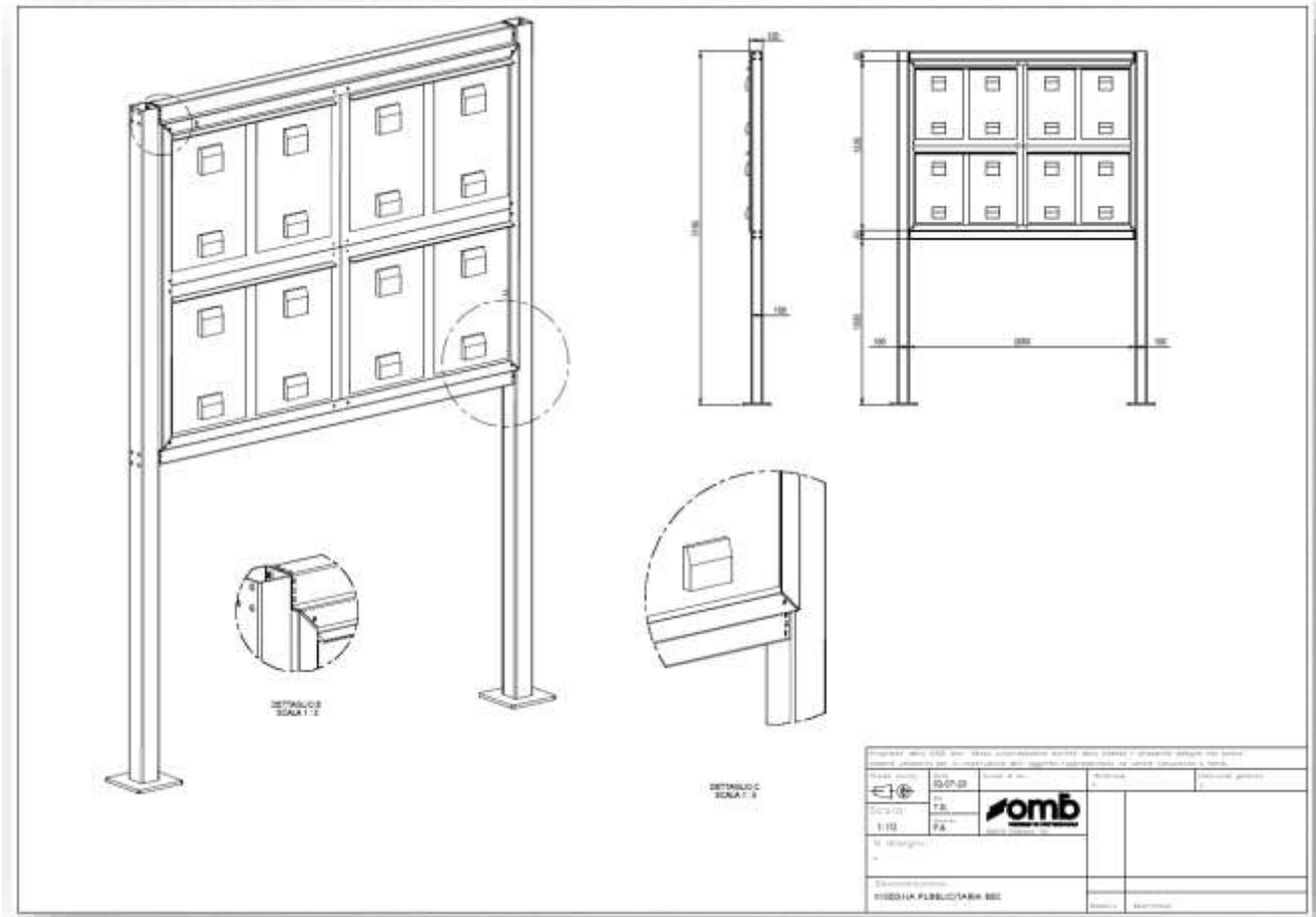
# Outdoor structure



OUTDOOR structures are certified EN1090

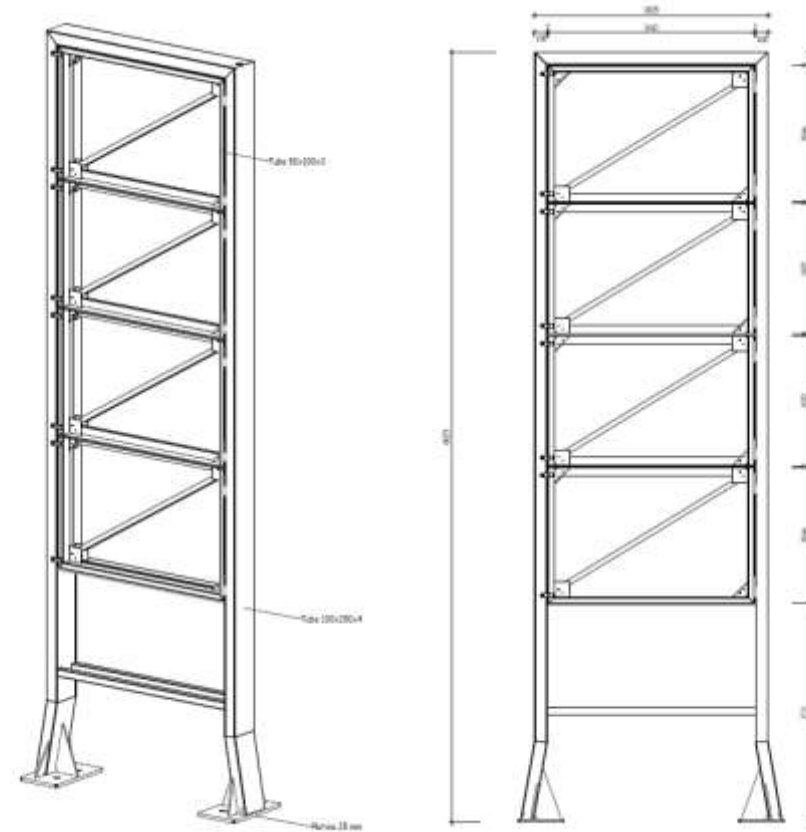
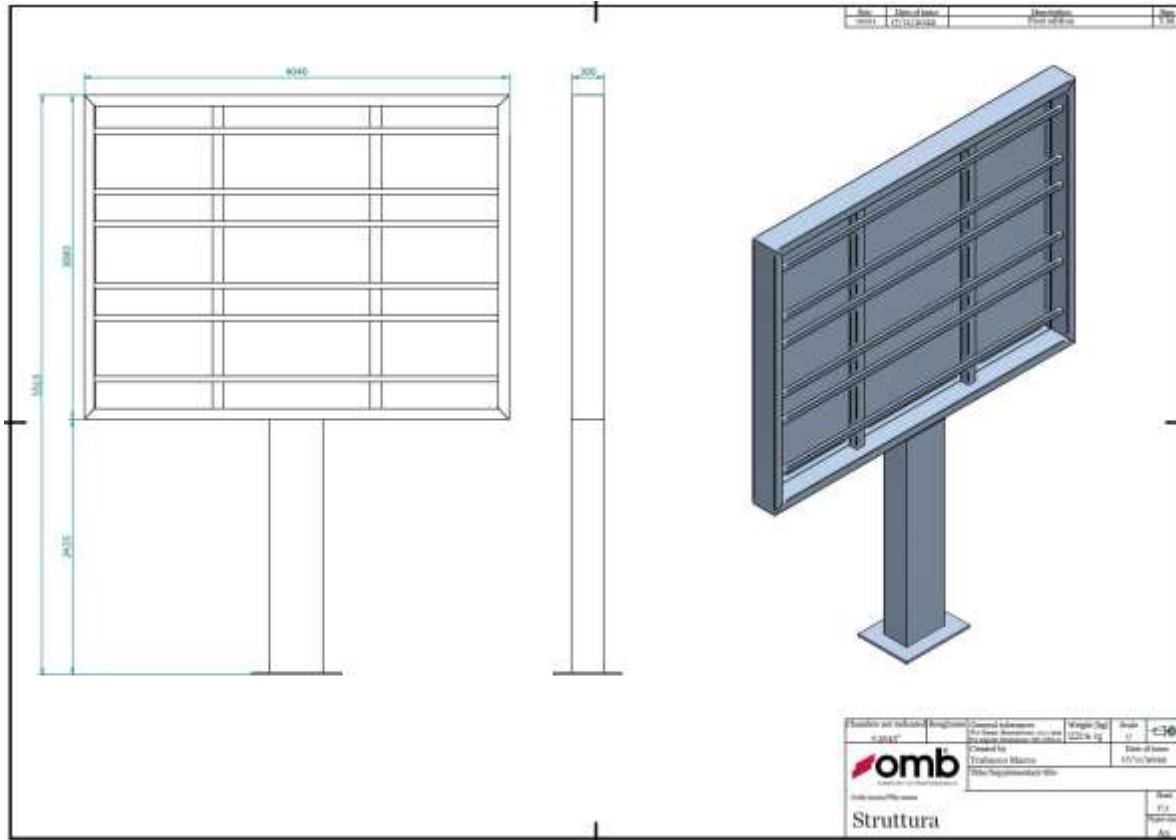


OMB also supplies the design of the concrete plinths



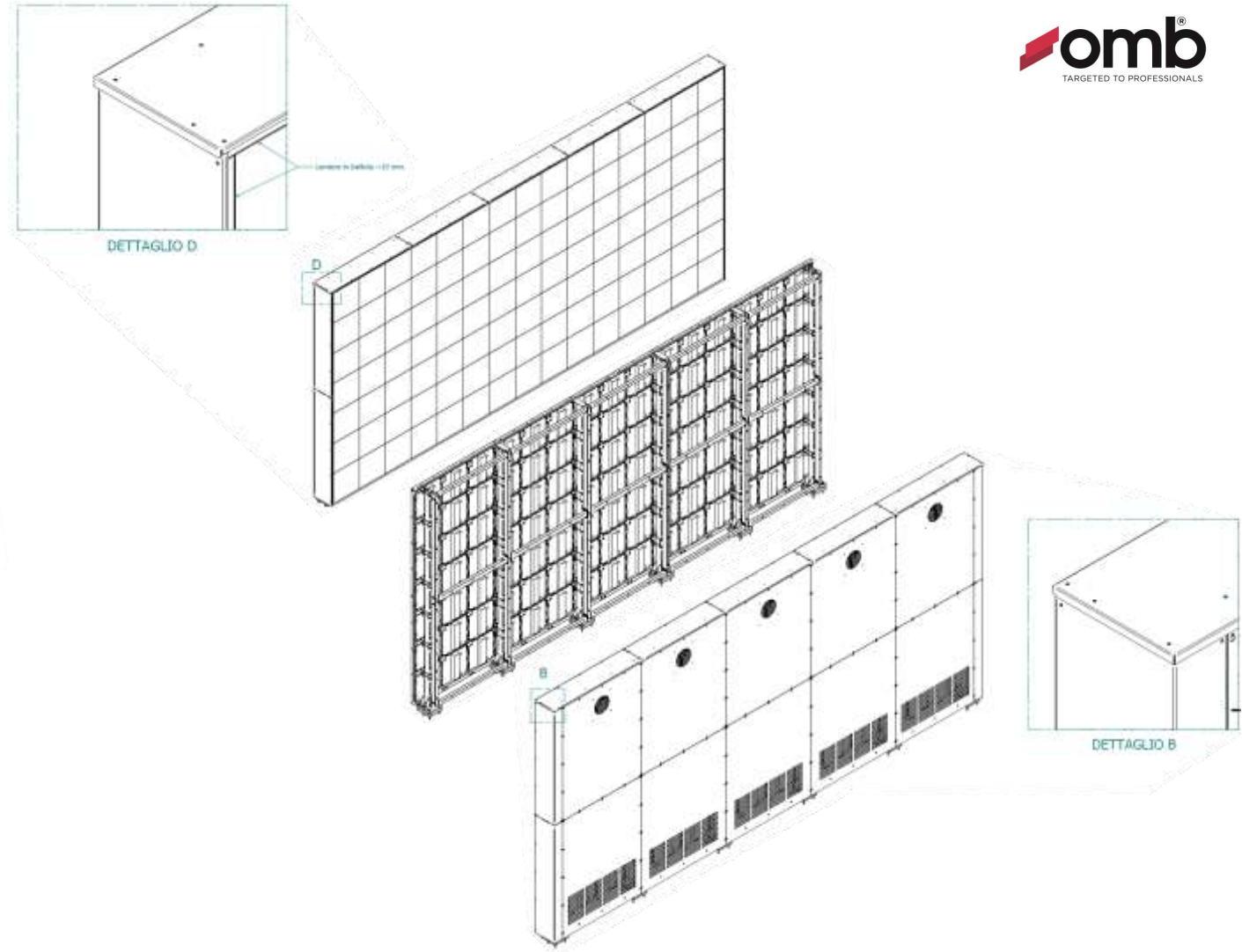
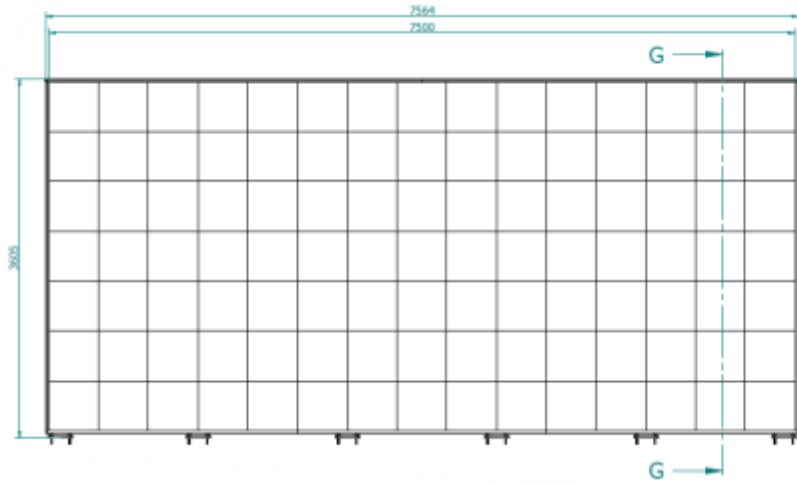
More complex LED structures require experience.  
We have it thanks to several projects done

# Outdoor structure



More complex LED structures require experience.  
We have it thanks to several projects done

# Outdoor structure



More complex LED structures require experience.  
We have it thanks to several projects done

# Structural calculation report

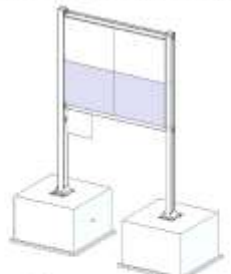
Ita\_20\_19COMB  
Rev. 0.0  
15.07.2020


**Relazione di calcolo**

Oggetto: **INSEGNA PUBBLICITARIA IN ACCIAIO A SOSTEGNO DI PANNELLI LED**

Committente: **OMB Srl**  
Via Risorgimento, 25 - 38070 STERICO (TN) ITALY  
Tel. ++39.0461.771824 - Fax ++39.0461.771823  
[www.ombitaly.it](http://www.ombitaly.it)

Sito installazione: **ZONA DEL COMUNE DI LIVORNO**  
Ambientazione: **ESTERNO - ZONA URBANA - SUB URBANA**

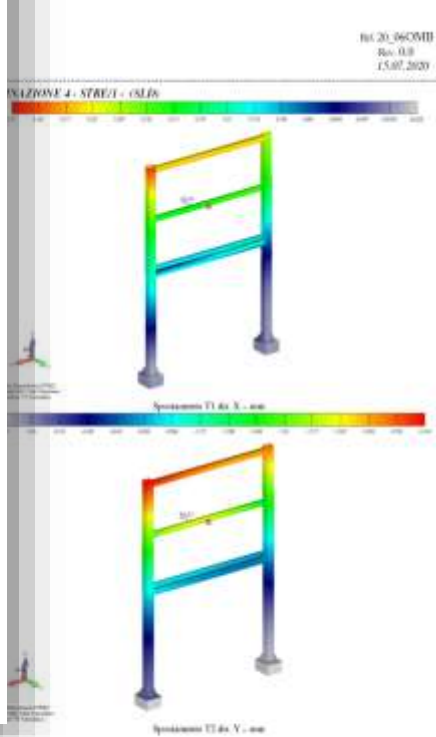


Calcolatore:   
ING. PAOLO ARINI  
INGEGNERE DI STRUTTURE  
ISCR. ING. PAOLO ARINI  
Incarico N. 01/18/0

Pag. 1

Ita\_20\_19COMB  
Rev. 0.0  
15.07.2020

**FIGURAZIONE 4 - STRUTTI - CALDA**



per la verifica delle strutture e il D.M. del 17 gennaio 2018

e i documenti integrativi relativi:

Decreto 2019 N° 7 Istruzioni per l'applicazione delle "Norme di calcolo sismotekniche 17 gennaio 2018.

Art. 0 - Criteri generali di progettazione strutturale

Art. 1 - Azioni sulle strutture - Parte 1-4: azioni in generale -

Art. 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: edifici

Art. 3 - Progettazione delle strutture di acciaio - Parte 1-1: edifici

Art. 4 - Progettazione delle strutture di acciaio - Parte 1-4: edifici

Art. 5 - Progettazione delle strutture di acciaio - Parte 1-4: edifici

Art. 6 - Progettazione delle strutture di acciaio e di alluminio - Parte 2: Requisiti

Art. 7 - Parte 1: Specificazioni, prestazioni, produzione e

Pag. 4/12

Pag. 49

Santello Ing. Andrea  
piazza Giuseppe Mazzini, 68 - 38070 Camponogaro (TN)  
Tel. ++39.0461.771824 - Fax ++39.0461.771823

**STRUCTURAL ANALYSIS**

PROJECT: **LED WALL STRUCTURE Michigan Ross Business 701 Tappan Ave - Ann Arbor MI 48106 - United States**

CLIENT: **OMB SRL Via Risorgimento, 4 38070 Stenico TN Italy**

CREATED BY: **Santello Ing. Andrea**



MEMO A.20.11 - Versione 02 elaborazione calcolo calcolo FEM

Santello Ing. Andrea  
piazza Giuseppe Mazzini, 68 - 38070 Camponogaro (TN)  
Tel. ++39.0461.771824 - Fax ++39.0461.771823

**MODEL**

**MODEL - GENERAL DATA**

Model Name	MODEL
Project Name	LED WALL STRUCTURE Michigan Ross Business 701 Tappan Ave - Ann Arbor MI 48106 - United States
Client Name	OMB SRL
Project Location	Via Risorgimento, 4 38070 Stenico TN Italy
Model Type	Structural Analysis
Analysis Type	Linear Static
Analysis Method	Finite Element Method (FEM)
Analysis Software	ANSYS APDL
Analysis Date	15/07/2020
Analysis User	Santello Ing. Andrea

**FE MESH SETTINGS**

Element Type	Shell
Element Order	4
Element Size	100 mm
Element Shape	Quadrilateral
Element Material	Steel
Element Thickness	10 mm
Element Mass	7850 kg/m³
Element Density	7850 kg/m³
Element Poisson Ratio	0.3
Element Young Modulus	210000 N/mm²

**1.3 MATERIALS**

Mat. No.	Material Name	Thickness	Area	Volume	Mass	Weight	Center of Gravity	Volume Ratio	Weight Ratio
1	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000

**1.4 SURFACES**

Surface No.	Surface Name	Material	Thickness	Area	Volume	Mass	Weight	Center of Gravity	Volume Ratio	Weight Ratio
1	Top	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000
2	Bottom	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000
3	Left	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000
4	Right	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000

**1.4.2 SURFACES - INTEGRATED OBJECTS**

Object No.	Object Name	Material	Thickness	Area	Volume	Mass	Weight	Center of Gravity	Volume Ratio	Weight Ratio
1	Top	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000
2	Bottom	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000
3	Left	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000
4	Right	Steel	10 mm	0.100000	0.100000	0.100000	7850.000	0.000000	0.000000	0.000000

MEMO A.20.11 - Versione 02 elaborazione calcolo calcolo FEM

A STRUCTURAL CALCULATION REPORT is provided for all structures on request.  
Available in Italian or English (International) standards

# Ask to us

Define the size and model  
of the LED with your  
supplier

Request the most suitable structure for  
your Project by filling in the online  
format: OMB CONFIGURATOR

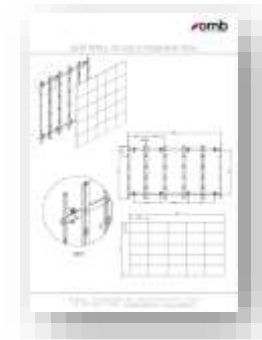
[Link](#)  
**CONFIGURATOR**

OMB will contact you to  
define the details and costs



You will order the  
structure directly from  
your reference distributor

You will receive the structure and  
useful information for assembly



how to identify the most suitable LED structure??  
Ask to us





[www.ombitaly.it](http://www.ombitaly.it)