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P O R T F O L I O

WORKS AND DESIGN & BUILD TENDERS

I T A L Y

C R E A T I N G A B E T T E R R E A L I T Y

ATI | Project



WE DESIGN
NEW BUSINESS
OPPORTUNITIES FOR
OUR CUSTOMERS



400+

TENDERS WON



45%

SUCCESS RATE



€ 3 Billion

IN AMOUNT
OF WORKS

^ PORTFOLIO WORKS AND D&B TENDERS

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OUR CONSOLIDATED SUCCESS
IN THE SECTOR IS BASED ON
THE TEAM'S MULTIDISCIPLINARY
EXPERTISE, KNOW-HOW RELATING
TO INNOVATIVE MANAGEMENT
TOOLS, CLOSE COLLABORATION
WITH SUPPLIERS AND CONTINUOUS
DEVELOPMENT AND INNOVATION

PISA
MILAN
ROME
BELGRADE
ODENSE
COPENHAGEN
PARIS
GENEVA

▲ PROFILE

Creating a better reality

Architecture, landscape and technology conceived as a source of inspiration and enrichment of everyday life.

ATI Project is an international firm specialized in **integrated design** in the field of architecture and engineering, committed to the development of **sustainable buildings** with a reduced environmental impact.

The studio was established in 2011 by **Branko Zrnic** and **Luca Serri**, founders dedicated to research in bioclimatic architecture and renewable energy.

In twelve years, the **team** has grown from **2 to 350 collaborators**.

The initial outline of the office is the same that still drives its growth today: a young, visionary, technological studio that

natively uses **BIM** to promote **multidisciplinarity**, as well as **innovation** and sustainability.

The complexity and number of projects reflect the **internationality** of the studio, which today, in addition to its headquarters in **Pisa**, has offices in **Milan, Rome, Belgrade, Odense, Paris, Copenhagen** and **Geneva**.



15

YEARS OF CONSTANT
GROWTH



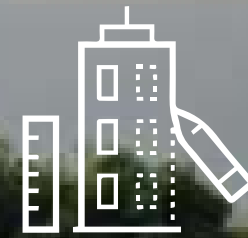
27.5 Mln

TURNOVER
IN EUROS



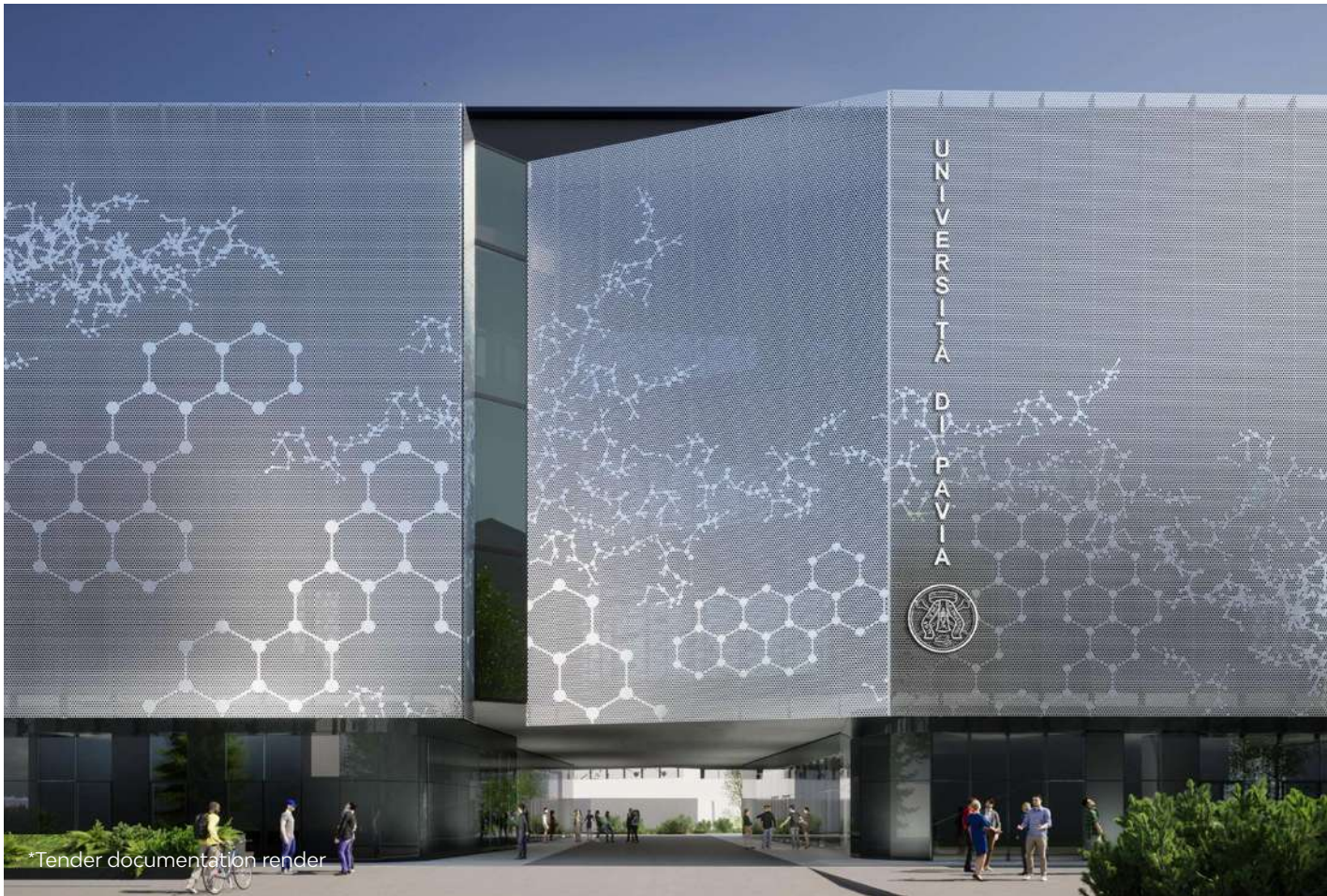
1+ Million of m²

OF COMPLETED OR
ONGOING PROJECTS



FOCUS ARCHITECTURE





FOCUS ARCHITECTURE

UNIPV Pharmaceutical Sciences Center

LOCATION
Pavia, Italy

TYPE OF INTERVENTION
Education

CONTRACTING AUTHORITY
University of Pavia

CONTRACTOR
ITI Impresa Generale Spa

BUDGET
€ 48.3 mln

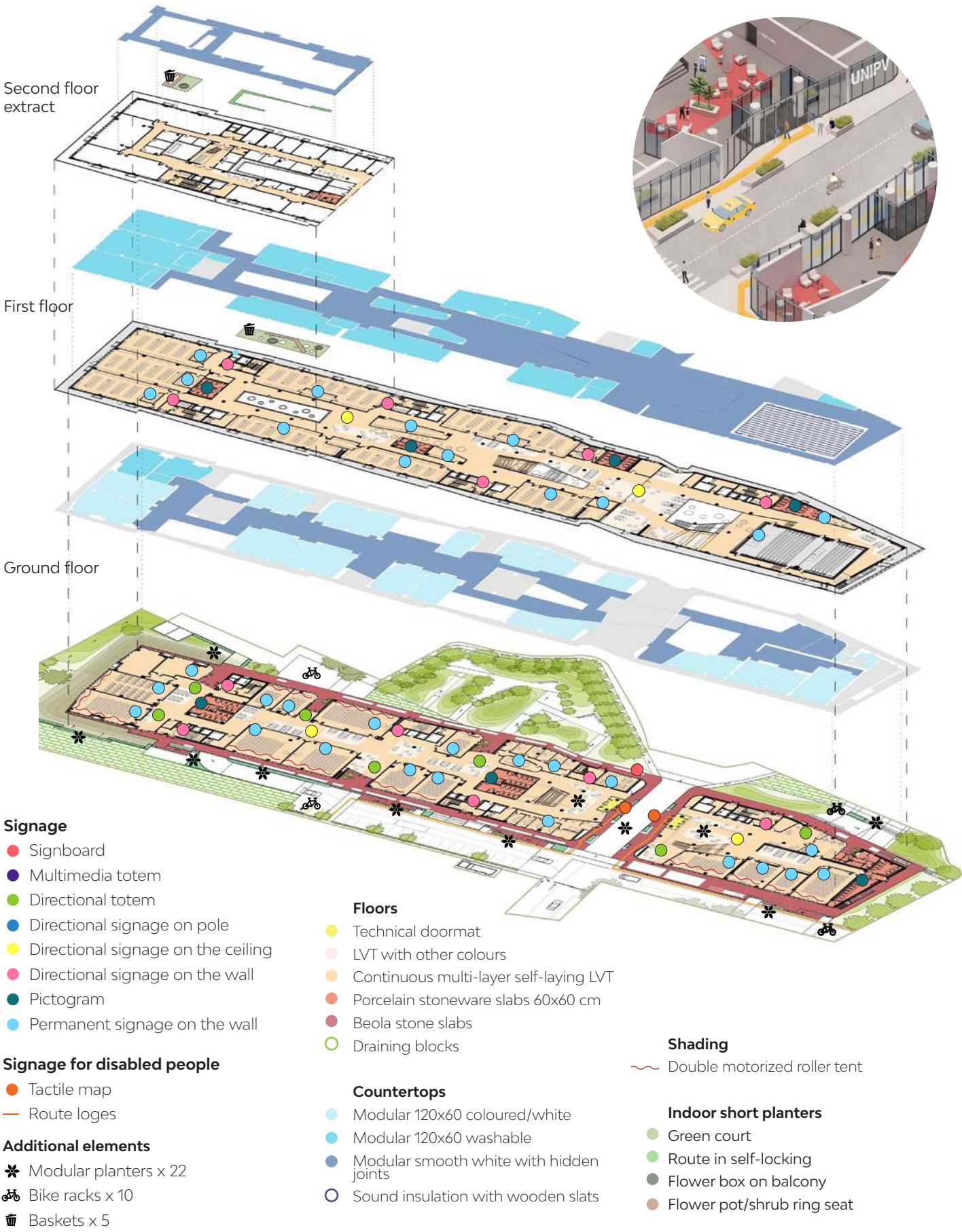
SERVICES
Technical improvements project,
executive design

TYPE OF CONTRACT
Design & Build

Integrated contract
for the executive
design and
execution of works
for the construction
of the new Didactic
Pole Institutes
and Departments
of Chemistry and
Pharmaceutical
Sciences

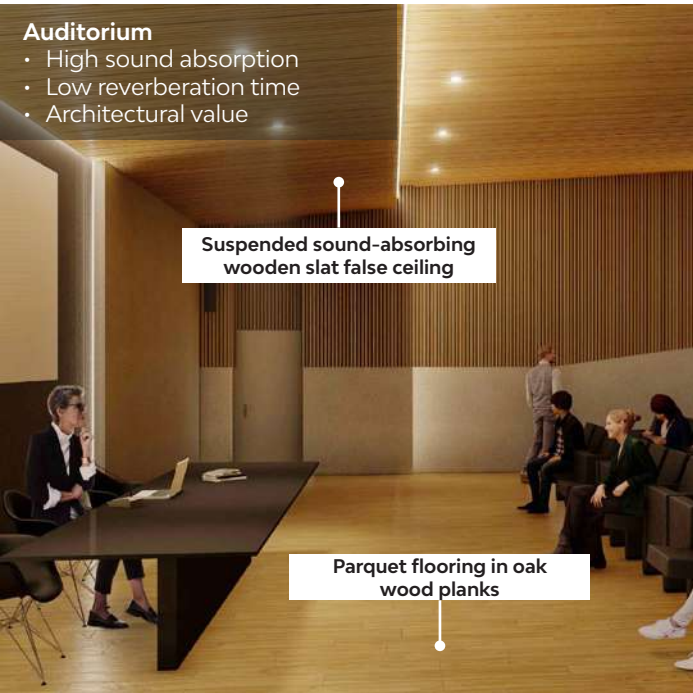
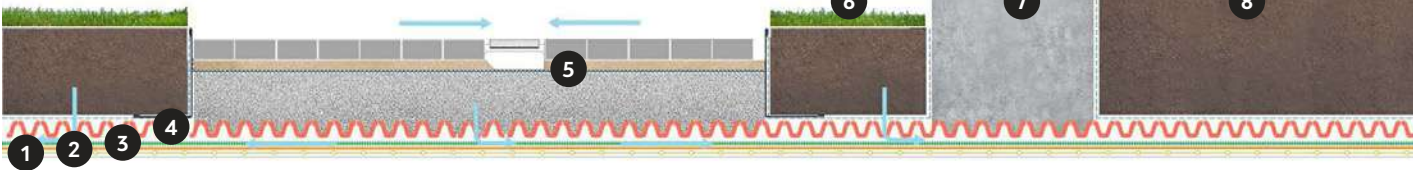
*Final design and
tender basis render:
Manens Spa - Studio
Architetti Mar

Usability and functionality of the building



Continuous drainage system inside the courtyard

- | | |
|--|------------------|
| 1. TNT compensation layer | 6. Natural lawn |
| 2. Anti-root waterproofing | 7. Concrete seat |
| 3. Accumulation and protection felt | 8. Filter cloth |
| 4. Drainage and aeration layer | 9. Shrubby |
| 5. Self-locking path on a bed of sand and gravel | |





*Tender documentation render



*Tender documentation render



Integrated contract for the definitive and executive design, safety coordination in the design phase and construction of the works of the new primary school in via Ozanam in the municipality of Concorezzo

*Preliminary and tender documentation render: J+S Spa Architecture & Engineering

FOCUS ARCHITECTURE

School Complex in Via Ozanam

LOCATION

Concorezzo, Italy

TYPE OF INTERVENTION

Education

CONTRACTING AUTHORITY

Municipality of Concorezzo

CONTRACTOR

SELI Manutenzioni Generali Srl

BUDGET

€ 12 mln

SERVICES

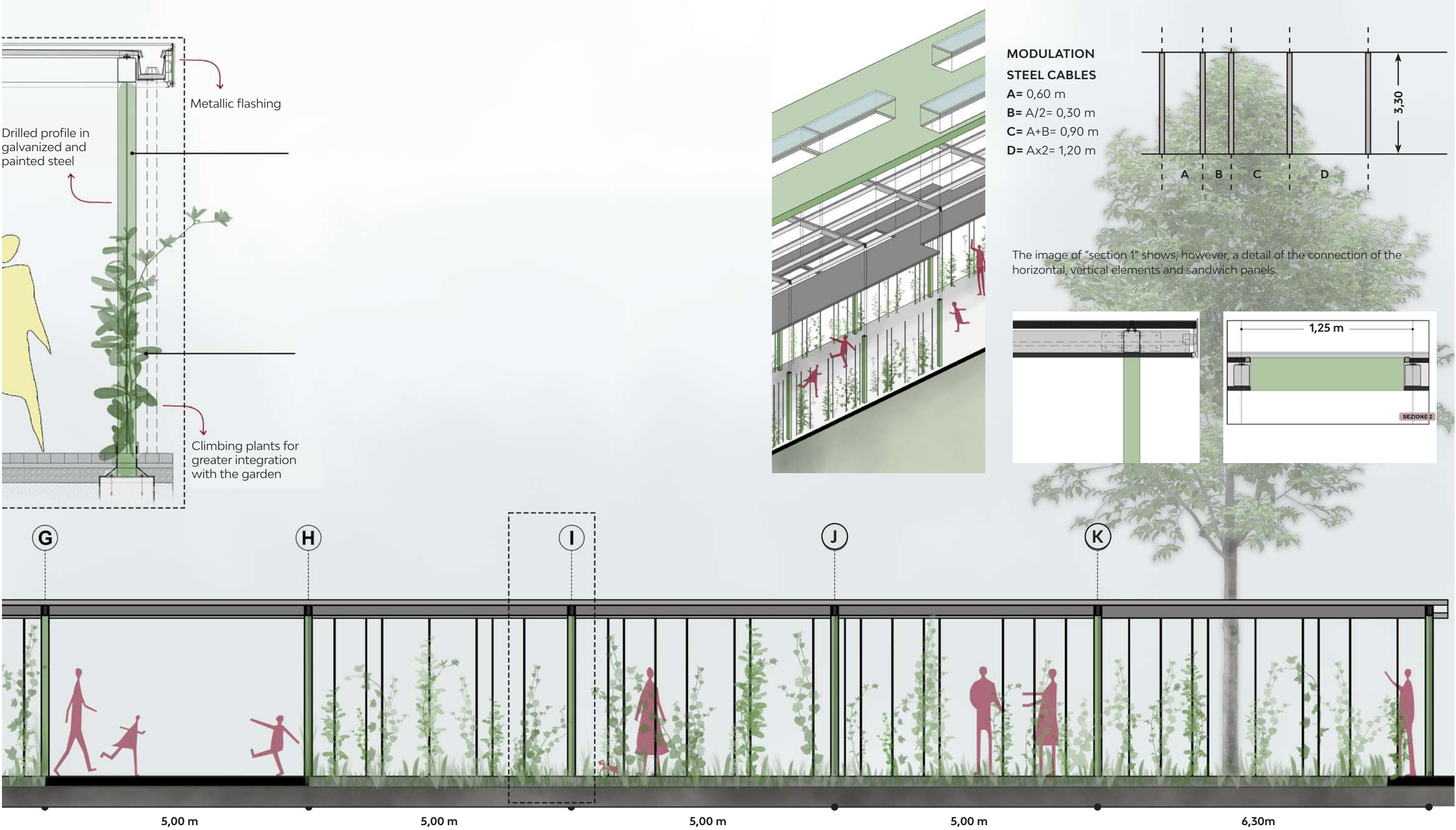
Technical improvements project, definitive and executive design

TYPE OF CONTRACT

Design & Build

Improvement of external areas

Flowering of the shelter



Path that leads to the shelter intended for carrying out outdoor educational activities



*Tender documentation render



*Tender documentation render



Construction work
for the new “Fabio
Besta” Middle School

*Project and tender
documentation
render: Teco +
Partners Stp Srl

FOCUS ARCHITECTURE

“Fabio Besta” School Complex

LOCATION
Bologna, Italy

TYPE OF INTERVENTION
Education

CONTRACTING AUTHORITY
Municipality of Bologna

CONTRACTOR
ITI Impresa Generale Spa

BUDGET
€ 18.1 mln

SERVICES
Technical improvements
project

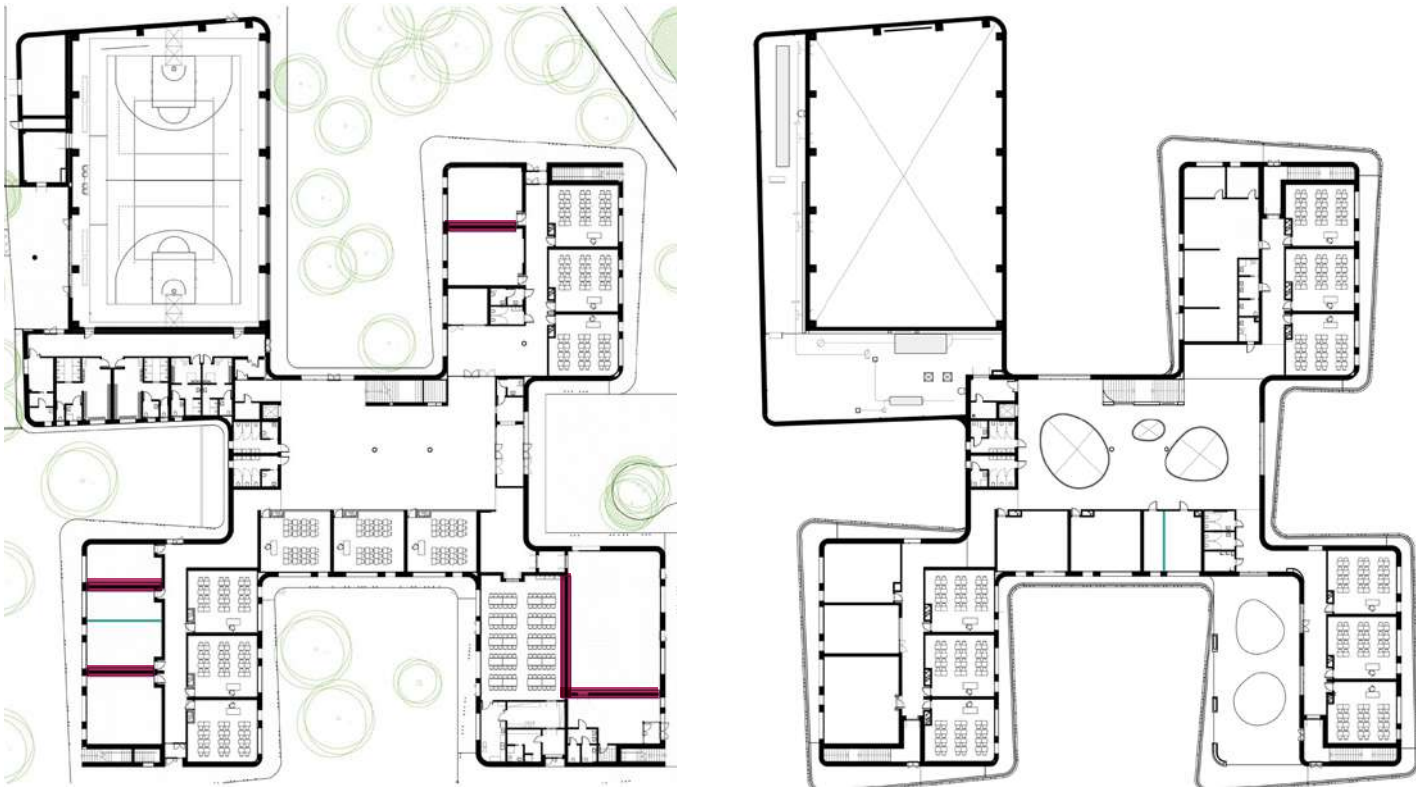
TYPE OF CONTRACT
Design & Build, Construction



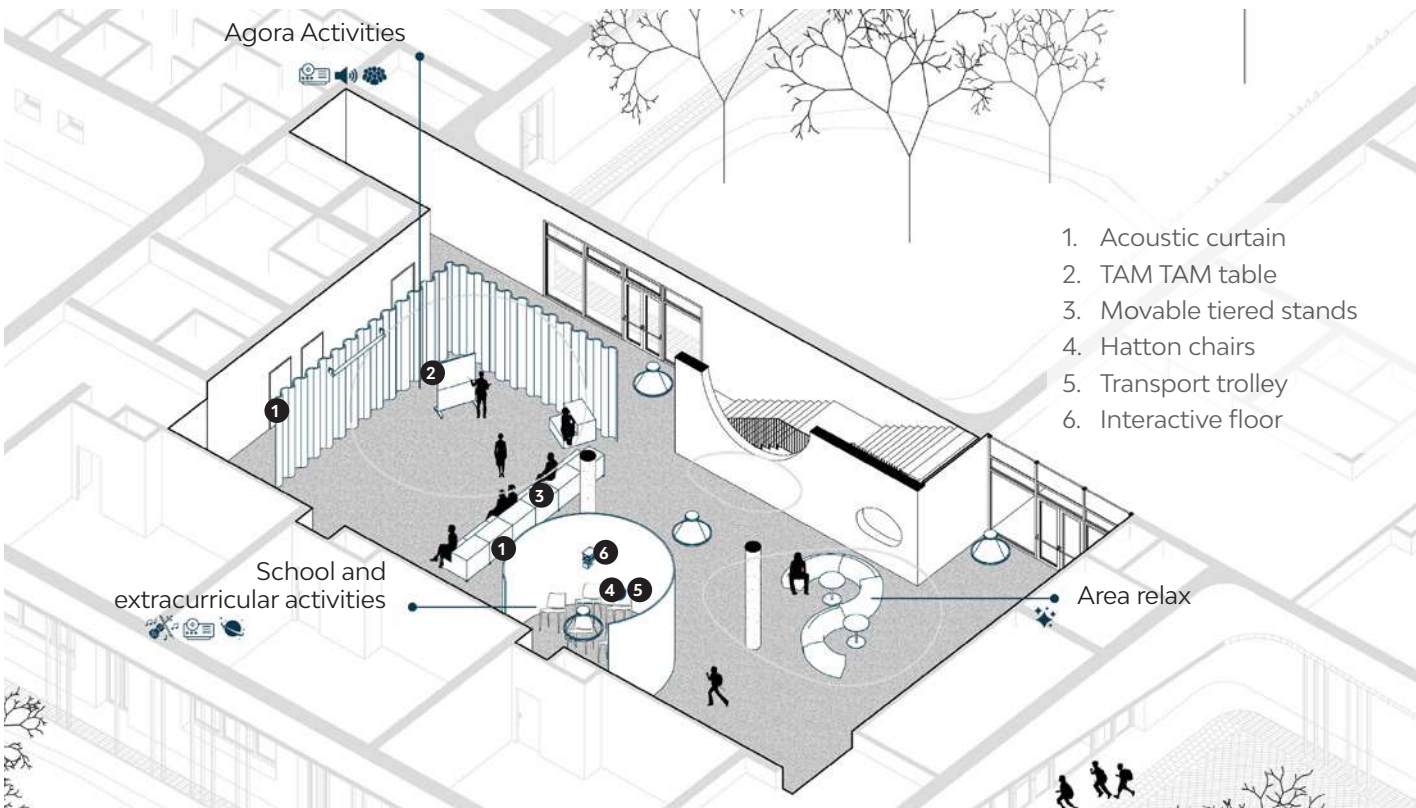
*Tender documentation render

Multifunctionality of spaces

Operable soundproof walls

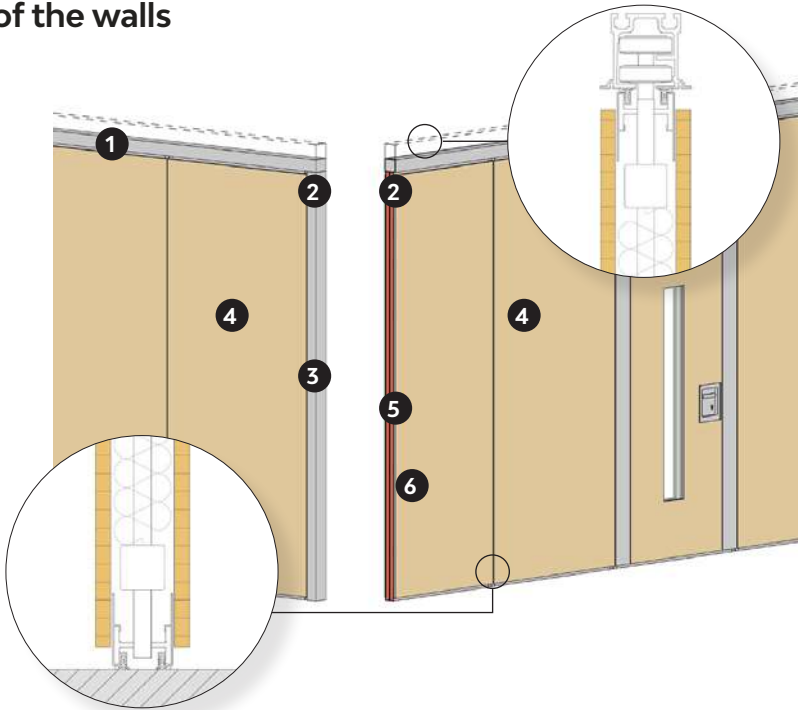


Hall configuration



Technological solution and movement of the walls

- 1. Horizontal seals**
 - Panel stability
 - Maximum acoustic insulation
- 2. Corner seals**
 - Elastic corner elements that increase stability and sound insulation
- 3. Vertical seals**
 - Flexible Vertical Sealing Tapes
 - Tapes that stretch to ensure effective interlocking
- 4. Roofing panels**
 - Low weight that allows free oscillation
 - Surface can be coated or covered with any material
- 5. Sound insulation material**
 - Customizable according to acoustic requirements
 - Requested, choice of 60 dB type
- 6. Chassis**
 - In aluminum and steel



Advantages

- Greater flexibility of teaching spaces
- Reduced thickness (88 mm) and overall size
- Insulation ($R_w = 60$ dB) and acoustic comfort
- Wide choice of materials and finishes
- Reduced weight and easy maneuverability
- Reaction to fire (EI 30)
- Single operation

Configuration with open operable wall



Configuration with closed operable wall





FOCUS
CONSTRUCTION
SITE





Photo of the current state



*Tender documentation visualization



Works for the restoration and redevelopment of the ASAC – Historical Archive of Contemporary Arts of the Venice Arsenal

*Tender documentation project and visualization: TA Srl
Torsello Architettura - Seres di Martina Serafin Sas - Ottavio Di Blasi & Partners Srl - Milan Ingegneria Spa - TFE Ingegneria Srl

FOCUS CONSTRUCTION

Venitian Arsenal Historical Archive Restoration

LOCATION
Venice, Italy

TYPE OF INTERVENTION
Culture

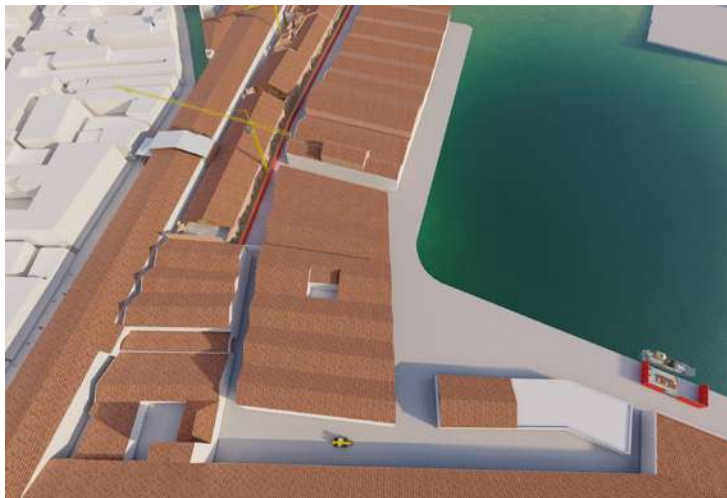
CONTRACTING AUTHORITY
Fondazione La Biennale di Venezia

CONTRACTOR
Setten Genesio Spa

BUDGET
€ 24.6 mln

SERVICES
Technical Improvements Project

TYPE OF CONTRACT
Construction



Procurement plan

Detailed analysis for structural works: Concrete casting

CONCRETE CASTING					
Element	Quantity (mc)	Transport	Travels	Productivity	Layout days
Slab Area 1	299	Concrete mixer capacity 12 m3 on barge	25	30 (mc/gg)	10
Micropiles Area 1	136		12	100 (mc/gg)	2
Plinths Area 1	6,2		1	20 (mc/gg)	1
Pillars Area 1	64		9	20 (mc/gg)	7
Slabs Area 1	68,4		6	50 (mc/gg)	2
Xlam cap Area 1	32,2		3	150 (mc/gg)	1
Beams Area 1	2		3	20 (mc/gg)	2
Slab Area 2	372		31	30 (mc/gg)	13
Plinths Area 2	127		11	20 (mc/gg)	3
Pillars Area 2	15,7		2	20 (mc/gg)	1
Slabs Area 2	107		9	50 (mc/gg)	3



timetable: 19.00-23.00 - 04.00-8.00

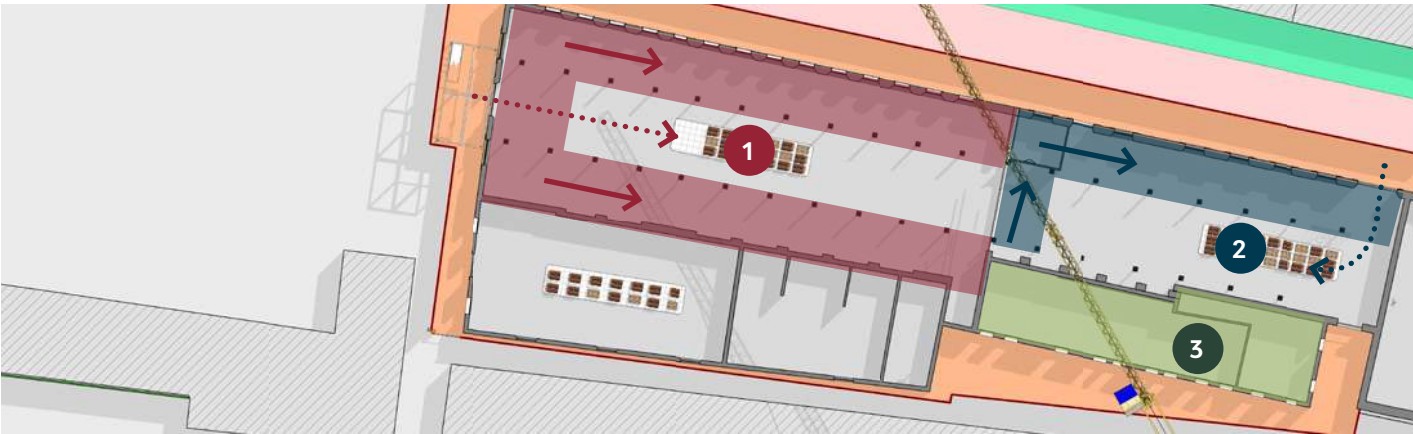
Construction site castings:



timetable: 19.00-23.00 - 04.00-8.00

Detailed analysis for structural works: Xlam slabs

SOLAI XLAM							
Area	Quantity	Transport	Travels	Productivity	Days of pose	Storage 1	Storage 2
1	377 mq	mototopo 220q with crane with capacity of 9q	3	200 (mq/gg)	3	x	
2	275 mq		4	200 (mq/gg)	2		x
3	165 mq		2	200 (mq/gg)	1		x



Arrival and movement to the construction site:
x 1



timetable: 6.00-8.00

Installation Area 1 (●) and 2 (●):
x 2



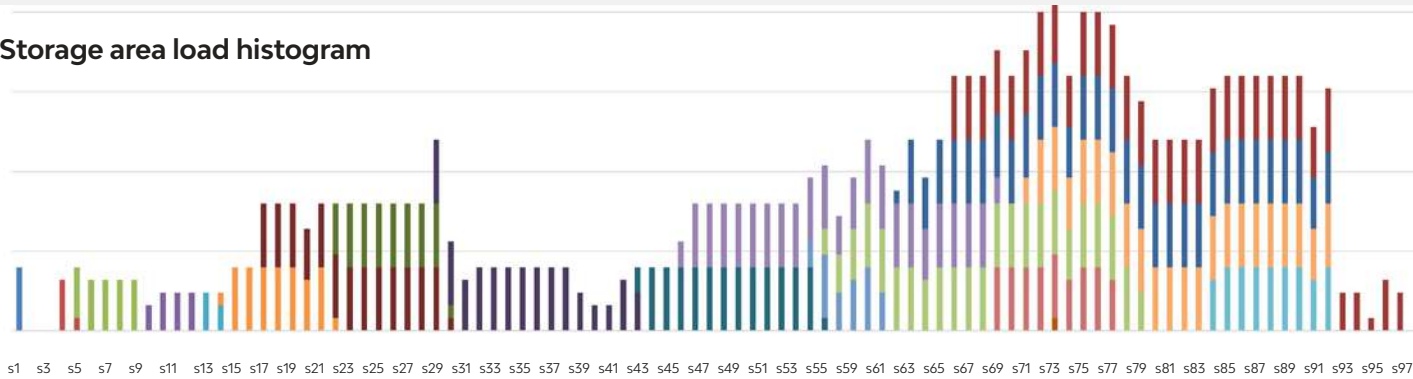
timetable: no limitations

Installation Area 3 (●):
x 1



01 Sizing of storage areas

Storage area load histogram



- Cop Waste

Concrete

XLAM

Interior Floors and Cladding
- Waste Partition walls

Foundations

Restoration materials

Windows
- Waste Structures

Reinforced concrete structures

Insulation and waterproofing

Other materials
- Floor and slab waste

Steel structural components

Screeds

Mechanical systems
- Earthmoving waste

Reinforced plaster

Internal partitions

Electrical and special systems



FOCUS CONSTRUCTION

ECMWF Data Center

Construction of the ECMWF Data Center through the recovery of the real estate complex of the former Manifattura Tabacchi in Bologna

*Tender documentation render: Gmp Architekten
Von Gerkan, Marg And Partner - Studio T -
Werner Sobek
Stuttgart - Land Italia

LOCATION
Bologna, Italy

TYPE OF INTERVENTION
Industrial

CONTRACTING AUTHORITY
Finanziaria Bologna Metropolitana Spa

CONTRACTOR
Frimat Spa - Site Spa -
Gianni Benvenuto Spa

BUDGET
€ 37 mln

SERVICES
Technical improvement project,
construction design

TYPE OF CONTRACT
Design & Build

Construction site organization & logistics

Site construction

Demolitions

Excavations & Consolidations

PHASE 1

West entrance view

View of material storage area

Internal works

Installation of systems

L2 Construction

PHASE 3

View of the construction of internal works

View of the buildings of the L2 building

Construction of foundations

Consolidation Building L1

Consolidation & Construction of roofing

PHASE 2

View of material storage area

View of material storage area

Building Delivery B2, B3 & L2

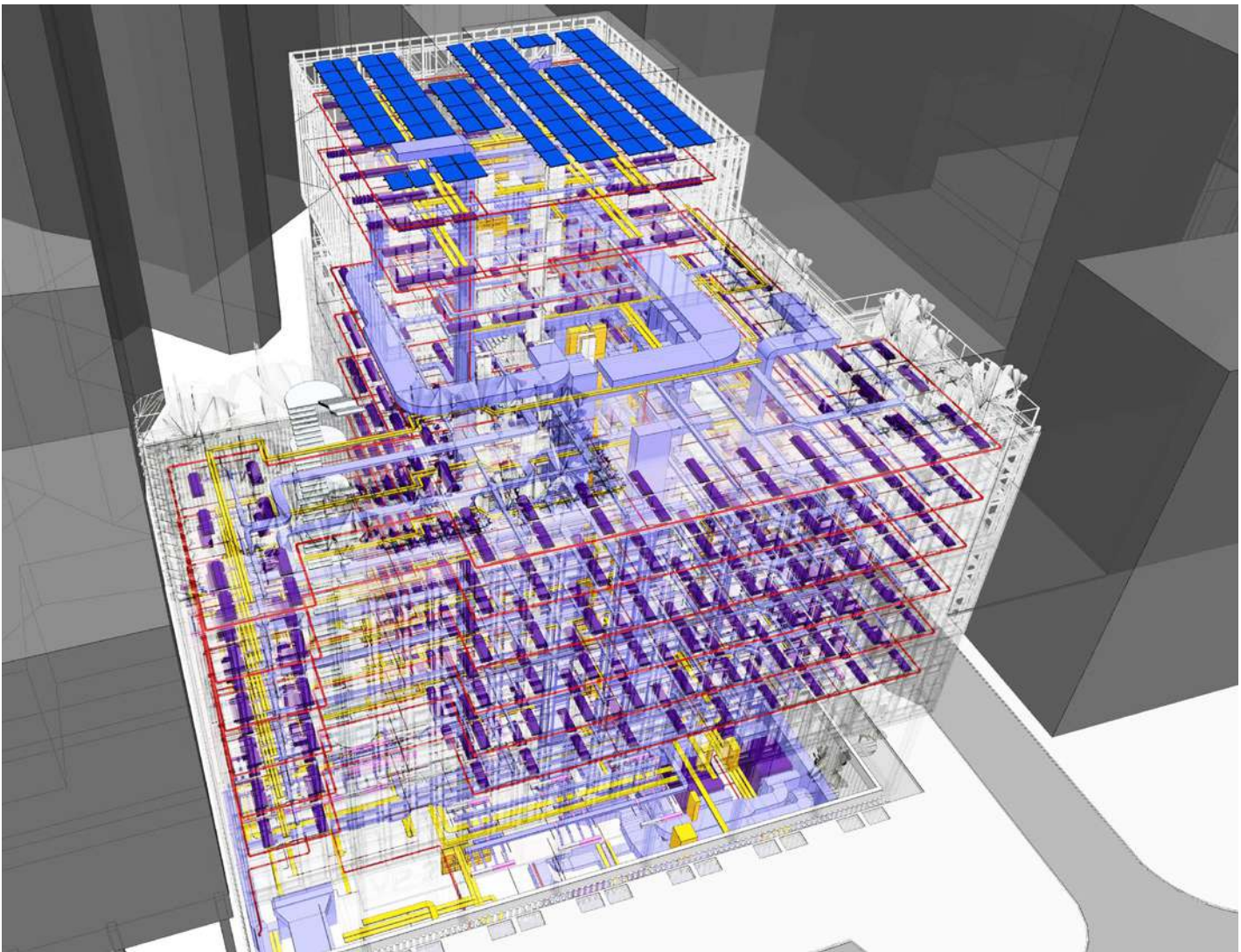
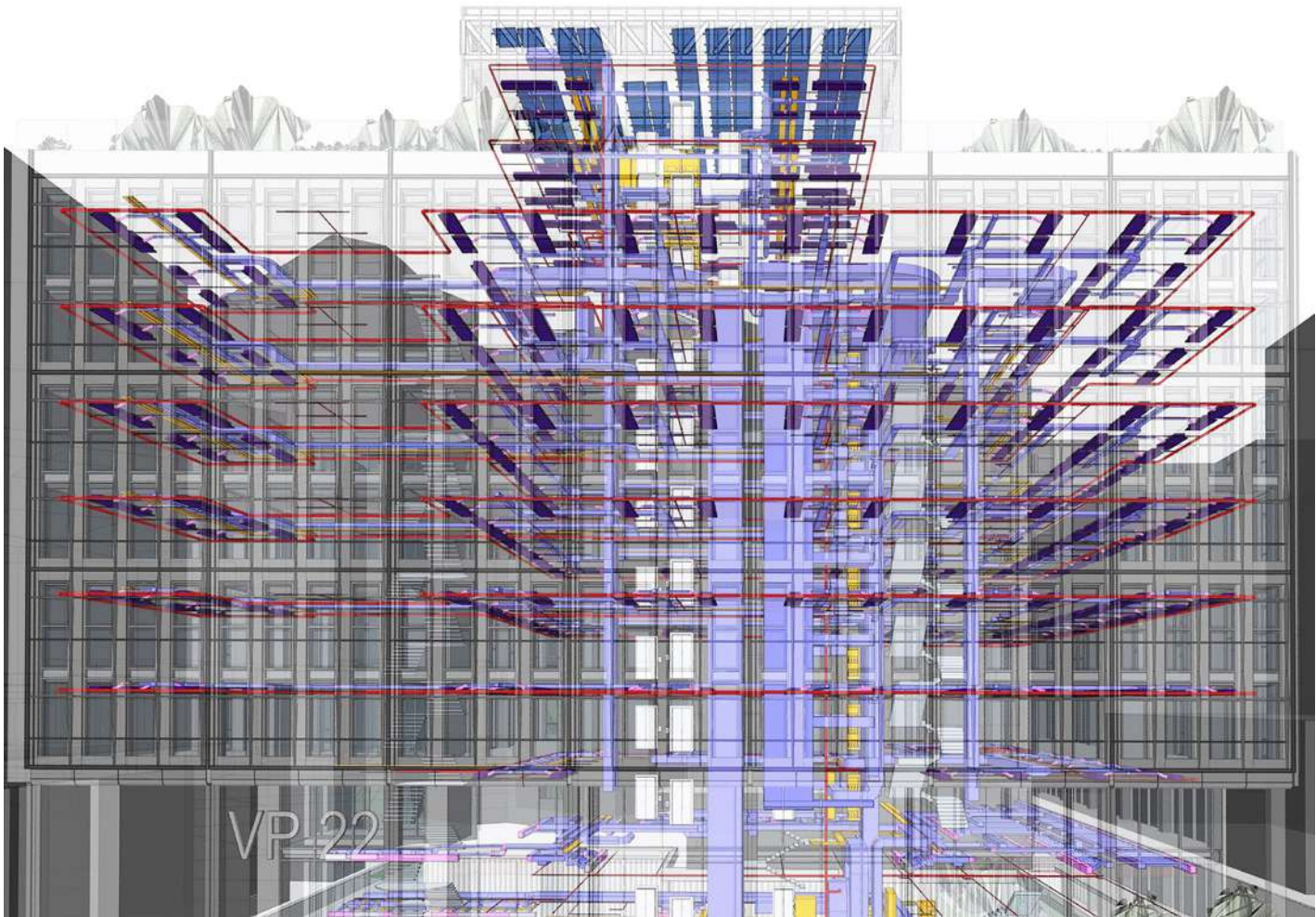
Installation of systems buildings B1&L1

Scanning and external works

PHASE 4

View of material storage area

Scanning view



FOCUS CONSTRUCTION

VP22 Building

Construction of
the tower for A.M.
Holdings, near Milan
Central Station

*Tender documentation
project: Tectoo Srl -
Milan Ingegneria Srl
- Ariatta Ingegneria Dei
Sistemi Spa - Ariatta
Ingegneria Dei Sistemi
Spa - Erika Skabar

LOCATION
Milan, Italy

TYPE OF INTERVENTION
Offices

CONTRACTING AUTHORITY
AM Hodings

CONTRACTOR
Ediltecnorestauri

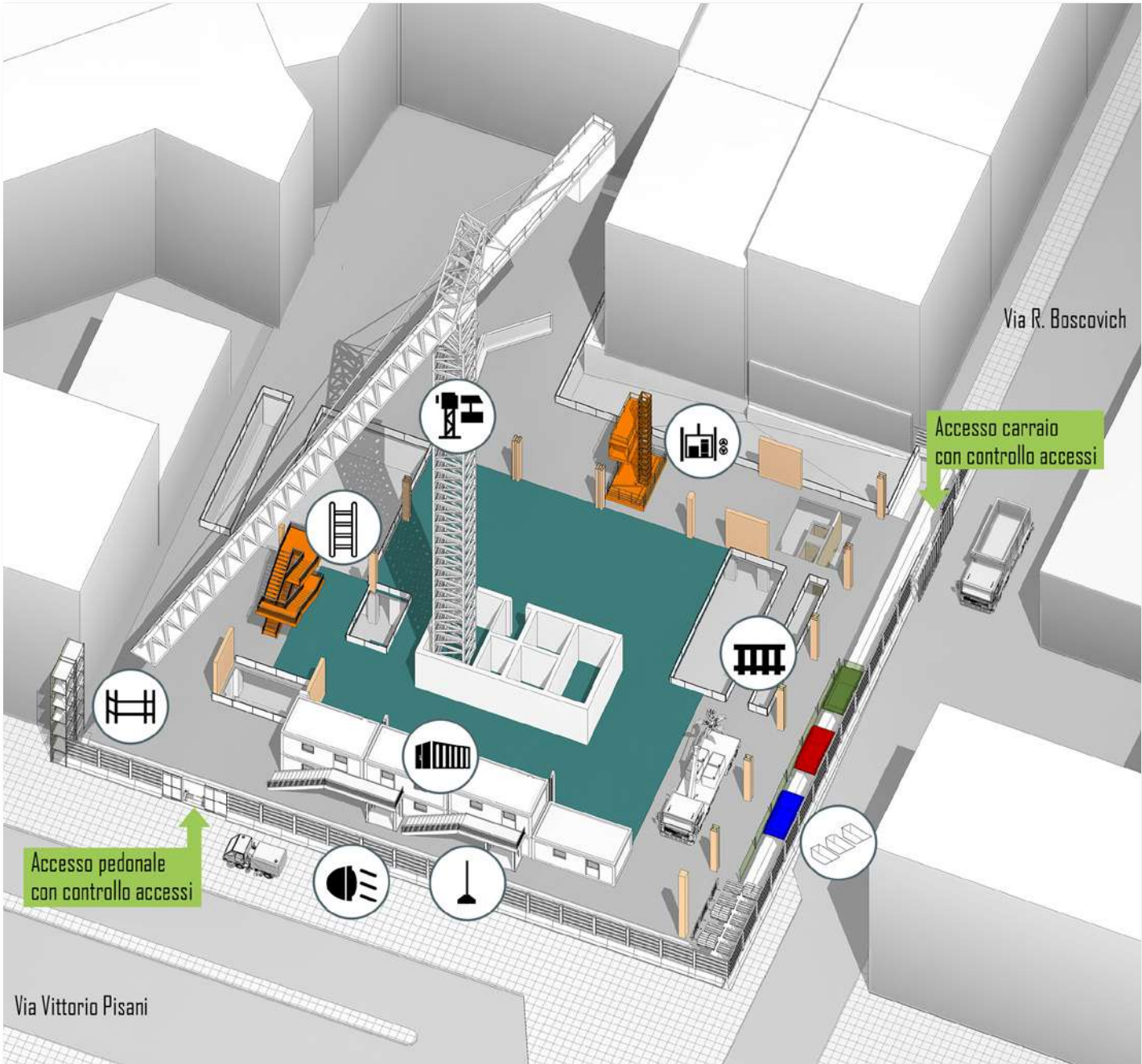
BUDGET
€ 30 mln

SERVICES
Technical improvements project,
construction BIM

TYPE OF CONTRACT
Design & Build

Construction site organization & layout

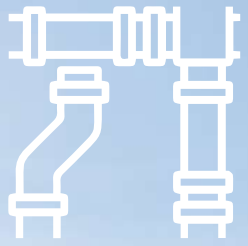
Construction site layout



- | | | | | | |
|--|--|---|--------------------------|--|---|
|  | Signal lantern |  | Construction site hoists |  | Construction site shacks in phase 2 |
|  | Differentiated skip bins and waste material storage area |  | Parapets |  | Construction site fence H.3mt on new jersey barrier |
|  | Construction site ladder |  | Crane |  | Scaffolding with sheet metal with safety net |

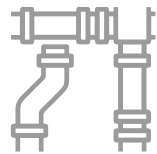
BIM Perspective Views





FOCUS
SYSTEMS





Works for the completion of the Department of Veterinary Sciences, comprehensive of external areas and urbanization works in San Piero a Grado, Pisa, Italy

*Tender documentation project and render: Mythos Consorzio Stabile-Tecnicaer Engineering - Politecnica

FOCUS IMPIANTI

Dipartimento di Scienze Veterinarie UNIPi

LOCATION
Pisa, Italy

TYPE OF INTERVENTION
Education

CONTRACTING AUTHORITY
University of Pisa

CONTRACTOR
ITI Impresa Generale Spa

BUDGET
€ 39.2 mln

SERVICES
Technical improvements project

TYPE OF CONTRACT
Design & Build



Lighting quality and aesthetics

- 

3F Filippi Linda
DALI technology
Power consumption 28 W
Luminous flux 4340 lm
Color temperature 4000 K
Efficiency 155 lm/W
- 

Zumtobel Vivo II
DALI
Power 27 W - Flux 2700 lm
Temperature 4000 K - Eff. 102 lm/W
- 

Tecmar Agape
DALI
Power 35 W - Flux 4049 lm
Temperature 4000 K - Efficiency 127 lm/W
- 

Zumtobel Amphibia
DALI technology
Power consumption 17 W
Luminous flux 2730 lm
Color temperature 4000 K
Efficiency 162 lm/W
- 

Zumtobel Panos
DALI technology
Power consumption 19 W
Luminous flux 2619 lm
Color temperature 4000 K
Efficiency 138 lm/W
- 

Thorn Omega Pro 2 Tunable White
DALI technology
Power consumption 35 W
Luminous flux 4450 lm
Color temperature 2700/6500 K
Efficiency 92 lm/W
- 

Thorn Omega Pro 2
DALI technology
Power consumption 35 W
Luminous flux 4450 lm
Color temperature 4000 K
Efficiency 127 lm/W
- 

Zumtobel SLOTLIGHT D800
DALI technology
Power consumption 63 W
Luminous flux 6333 lm
Color temperature 4000 K
Efficiency 101 lm/W
- 

Zumtobel SLOTLIGHT D1500
DALI technology
Power consumption 92 W
Luminous flux 9407 lm
Color temperature 4000 K
Efficiency 102 lm/W
- 

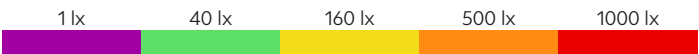
Zumtobel SLOTLIGHT D1200
DALI technology
Power consumption 71 W
Luminous flux 7198 lm
Color temperature 4000 K
Efficiency 101 lm/W



Interior lighting simulation

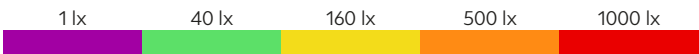
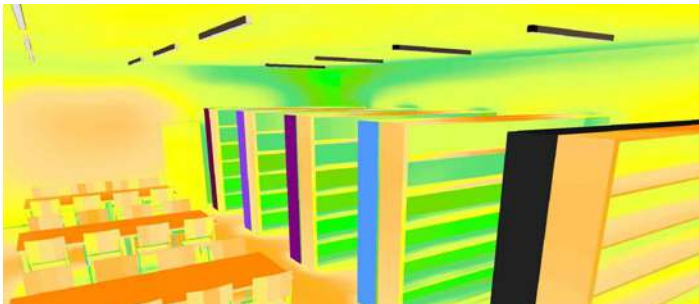
GROUND FLOOR ATRIUM EDUCATIONAL CENTER

Zumtobel Slotlight Sloin or similar.
Required illumination level 100 lux
Improved illumination level > 200 lux



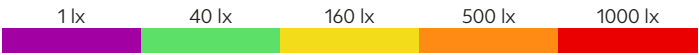
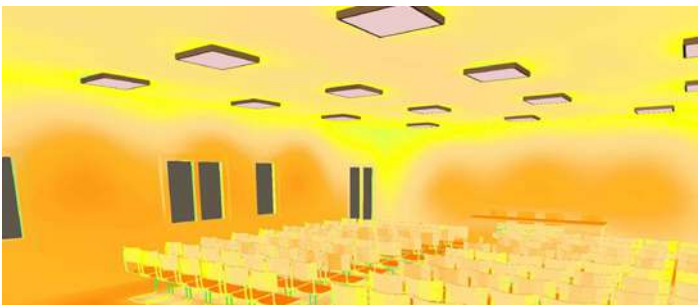
BIBLIOTECA POLO DIDATTICO

Tecmare Agape or similar.
Required illuminance level not stated
Improvement illuminance level > 500 lux



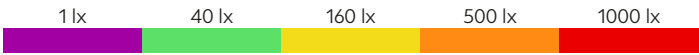
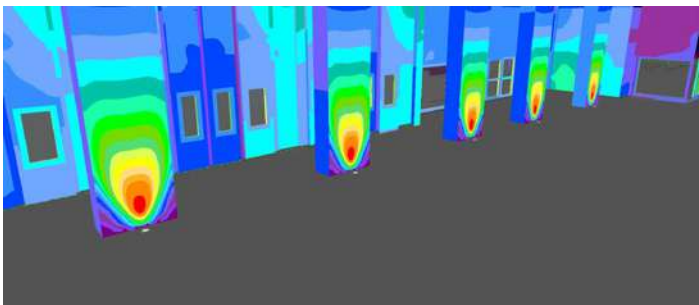
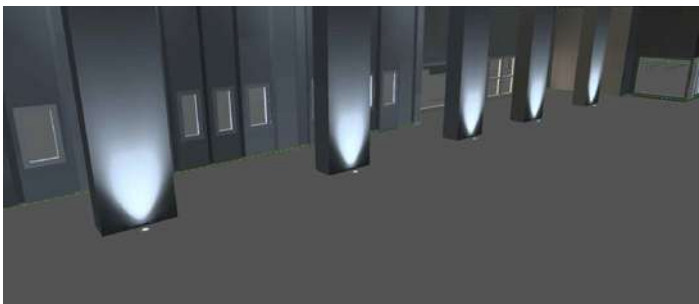
EDUCATIONAL CENTER CLASSROOM

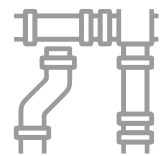
Thorn Omega Pro 2 or similar.
Required illuminance level not stated
Improvement illuminance level > 500 lux



ENTRANCE TO THE EDUCATIONAL CENTER

Civic Era or similar.
Required illuminance level not stated
Improvement illuminance level > 50 lux





Design & Build tender for the executive design and construction of two new university buildings and a multi-storey car park in the former San Rocco hospital area, to support and complete the Biomedical Chemical Pole of the University of Ferrara

*Tender documentation project: Rossiprodi Associati Srl - S.B.Arch - Ingegneri Riuniti Spa - Geo Group Srl

FOCUS SYSTEMS

UNIFE Biomedical Chemical Hub Extension

LOCATION
Ferrara, Italy

TYPE OF INTERVENTION
Education

CONTRACTING AUTHORITY
University of Ferrara

CONTRACTOR
ITI Impresa Generale Spa - Milani Srl

BUDGET
€ 24.2 mln

SERVICES
Technical improvements project, executive design

TYPE OF CONTRACT
Design & Build



Technical and functional quality UTA

Supply air



Air flow rate
24.000 m³/h



Engine power
1 x 15,000 kW



Heating
80,97 kW



Heating
48,30 kW



CHW-cooling
264,24 kW



Humidification
94,47 kg/h

Air expelled



Air flow rate
24.000 m³/h

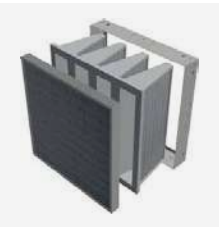


Engine power
1 x 7,500 kW

Recovery efficiency



Thermal efficiency
74,4 %



SUPPLY AIR

Pocket filters with flat filter on frame

- Technical features
-  Class F7
 -  dP initial 86 Pa
 -  dP final 186 Pa
 -  Filter surface 29,60 m²

BATTERY RECOVERY

Cooling

- Technical features
-  Rank 18R
 -  Power 150,52 kW
 -  Air intake 23,00 °C
 -  Air outlet 4,70 °C
 -  Thermal efficiency 73,2 %

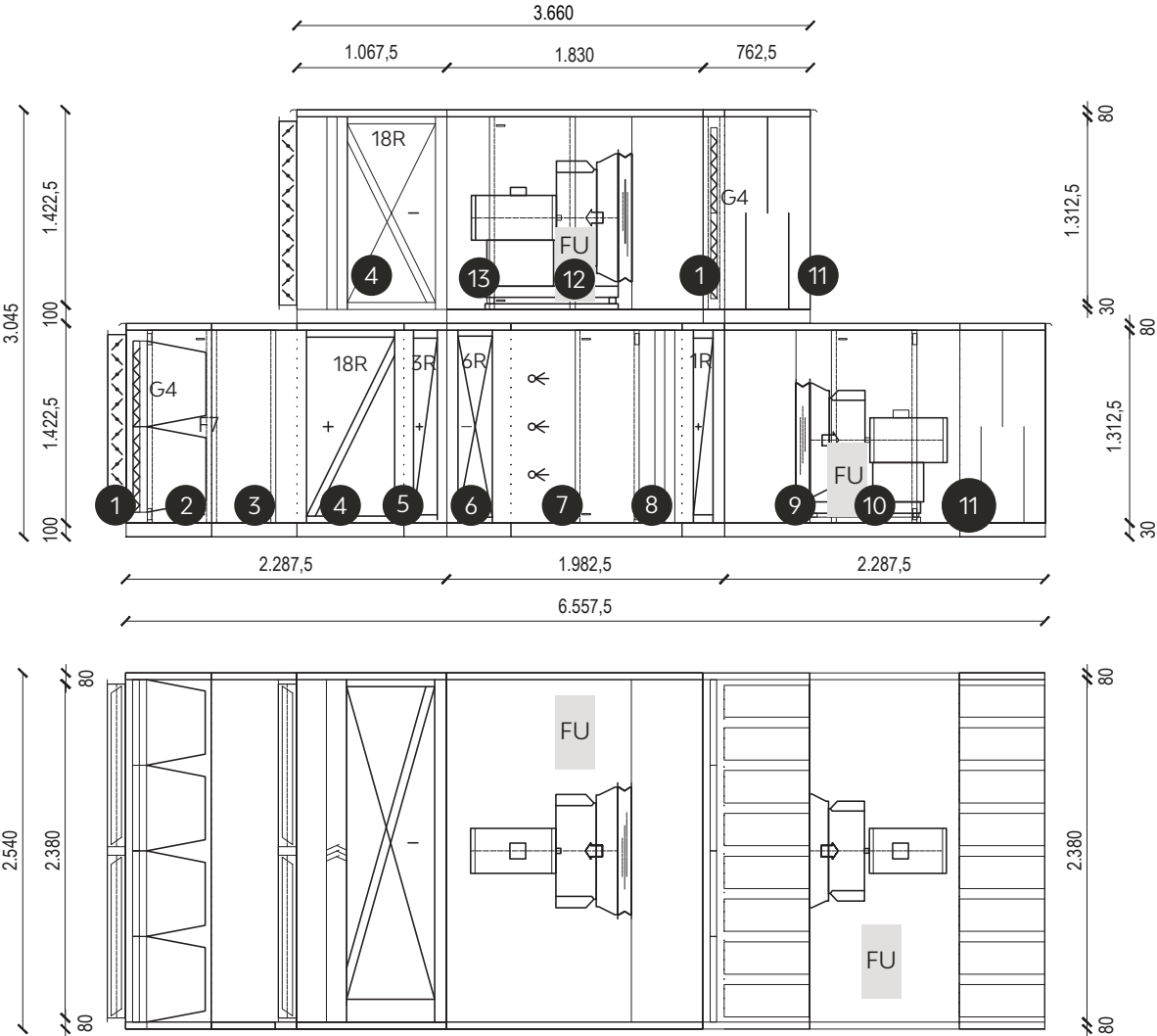


Coarse pre-filter

- Technical features
-  Class G4
 -  dP initial 63 Pa
 -  dp final 113 Pa
 -  Filter surface 4,80 m²

Heating

- Technical features
-  Rank 18R
 -  Power 150,52 kW
 -  Air intake -2,00 °C
 -  Air outlet 16,61 °C
 -  Thermal efficiency 74,4 %



Legend

- 1. Coarse filter class G4
- 2. Fine filter class F7
- 3. UV germicidal section
- 4. Battery recuperator
- 5. Heating battery
- 6. Cooling battery
- 7. Steam humidifier
- 8. Post-heating battery
- 9. Supply fan
- 10. Inverter on supply fan
- 11. Silencer
- 12. Return fan
- 13. Inverter on return fan

Technical data

Series	ZHK Inova DG
Unit size	24 / 13,5
Inner panel	Galvanized
Bottom inner panel	Galvanized
Guides	Galvanized
Outer panel	Plasticized galvanized

COOLING BATTERY

- Technical features
-  Speed 2,36 m/s
 -  Power 264,24 kW
 -  Air intake 30,00 °C



-  Air outlet 14,00 °C
-  dP dry air side 129 Pa
-  SHR 0,49

FREE IMPELLER SUPPLY FAN

- Technical features
-  Fan 710
 -  External pressure 200 Pa
 -  Sound power 91,6 dB (A)



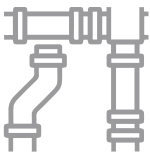
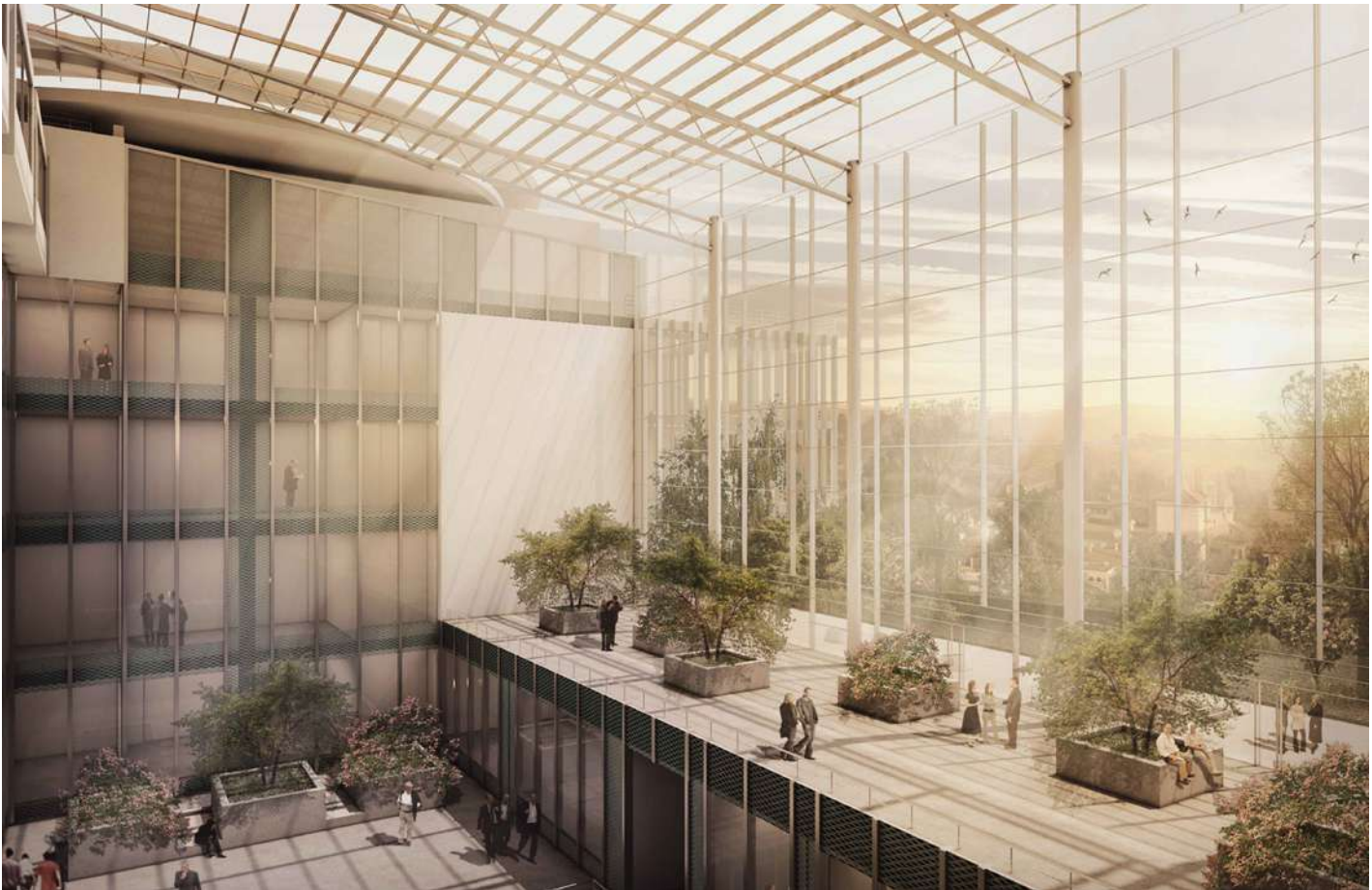
-  Power absorbed 10,01 kW
-  Yield 76,9%
-  Motor 160-4

SILENCER

- Technical features
-  Phono-asso septum type 230 MFK
 -  Execution/model standard
 -  Frame material galvanized

-  Insulating mineral wool
-  Insulating class A1
-  Pressure 26 Pa





Technical proposal prepared by ATI Project for the contract award regarding the construction works of the Umberto Parini Regional Unified Hospital in Aosta

* Executive Design, Renderings : CSPE Srl

FOCUS SYSTEMS

Umberto Parini Hospital Complex

LOCATION
Aosta, Italy

TYPE OF INTERVENTION
Health

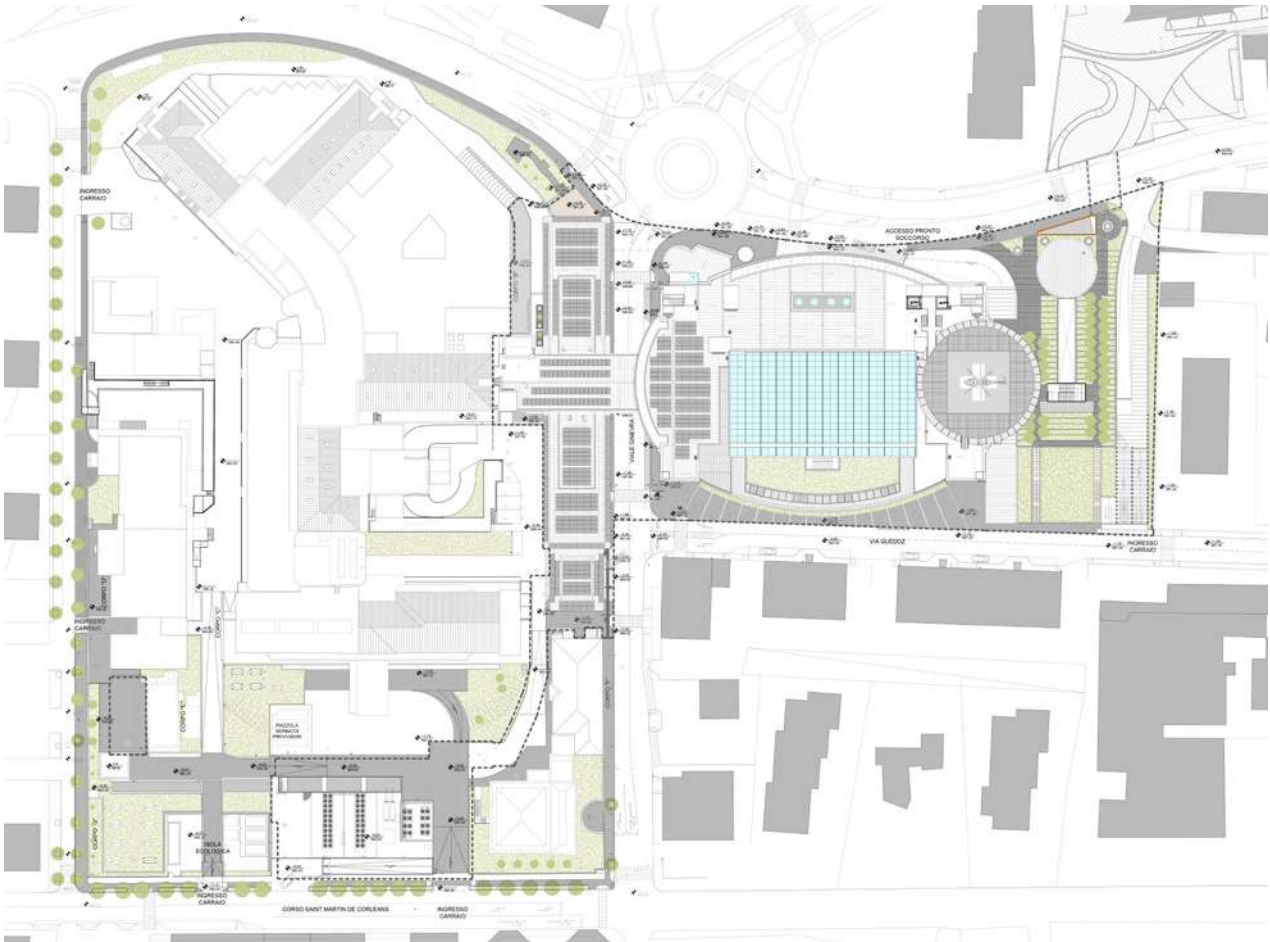
CONTRACTING AUTHORITY
Société Infrastructures Valdôtaines s.r.l

CONTRACTOR
CMC Ravenna S.p.A, Guastamacchia Spa, Strever Spa

BUDGET
€ 140 mln

SERVICES
Technical improvements project, executive design

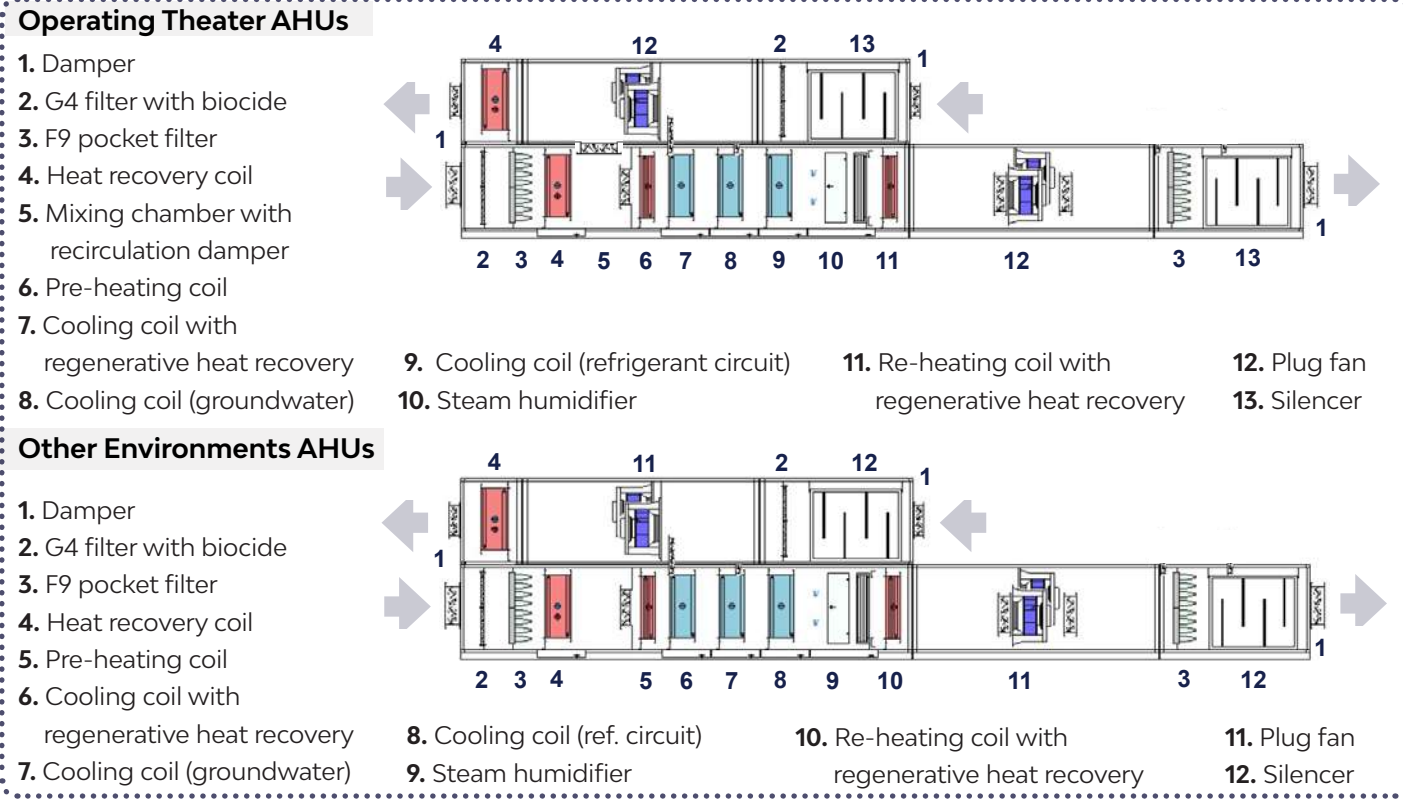
TYPE OF CONTRACT
Design & Build, Construction



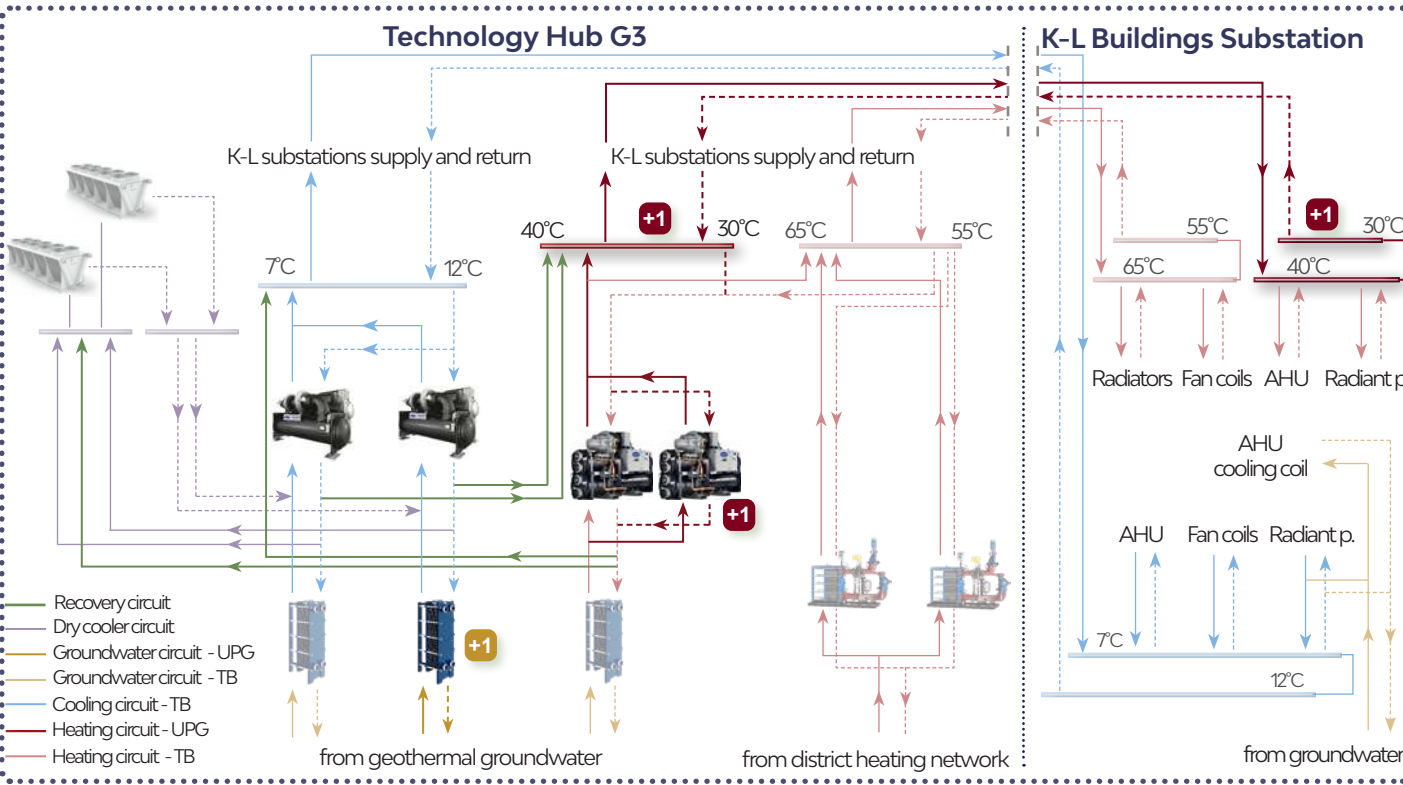
MEP Systems Upgrades



New AHU configuration replacing the original tender baseline:
optimization and higher airflow rate, reduction of indoor thermal loads, enhanced hygiene standards, and mitigation of energy consumption.



Optimized system layout for Technology Hub G3 and K-L substations:
representation of hydronic circuits featuring split hot/cold manifolds and integrated energy recovery systems.





FOCUS
BIM



Works for the development of the Cornadero intermunicipal water extraction system serving the municipalities of Milano Nord

*Tender documentation render: ETC Engineering Srl

FOCUS BIM

Intermunicipal Water Plant

LOCATION
Cornadero, Italy

TYPE OF INTERVENTION
Industrial

CONTRACTING AUTHORITY
CAP Holding spa

CONTRACTOR
Giudici Spa - Civelli Costruzioni Srl

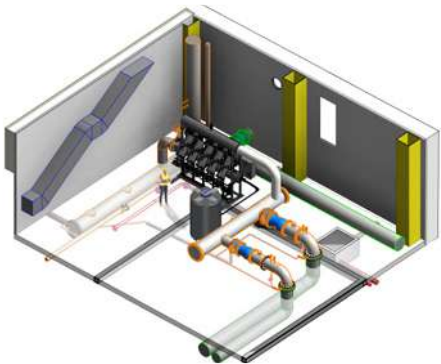
BUDGET
€ 10.8 mln

SERVICES
Technical improvements project

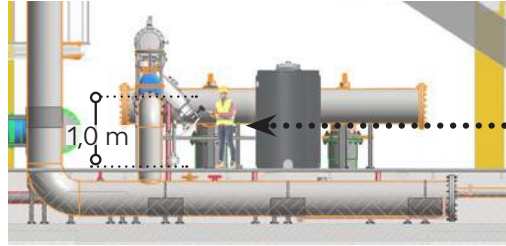
TYPE OF CONTRACT
Design & Build

BIM modeling. As-built production and construction site management

Product warranties and maintenance aspects



Section

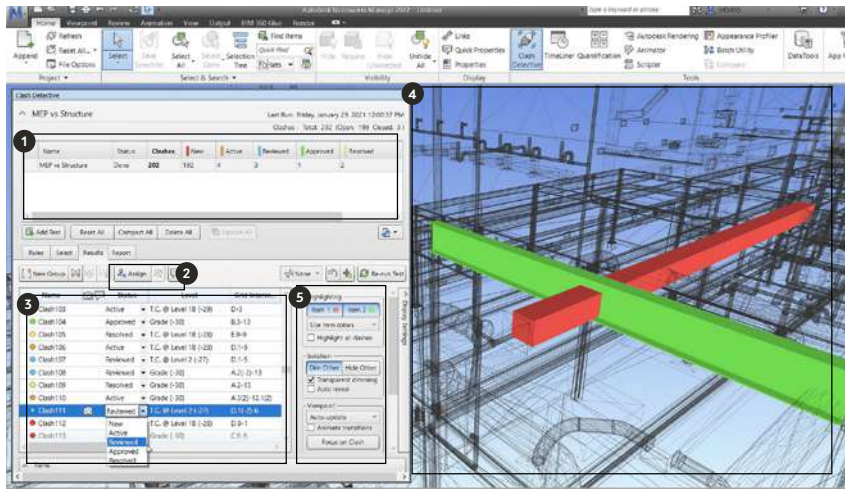


The operator can position himself directly in front of the 5 filters and will not need additional preparations to perform the maintenance activity. The small size of the individual components will also facilitate their movement.

The improvement project includes the replacement and increase of the filters. These will be tilted downwards to allow easy access and viewing by the maintenance worker without the aid of ladders or other preparations.

Example of a screen with a geometric interference highlighted

- 1. Summary table**
Summary sheet describing all the Clash Detections detected.
- 2. Assignment of the order**
The resolution of interferences is assigned to the person in charge, inserting clarifying comments.
- 3. Interference Information**
All the interferences found are reported here, with the main characteristics.
- 4. 3D View**
You can visualize the geometric interference found, so you can identify and resolve it more easily.
- 5. Viewing options**
Using the options provided, you can customize the display of graphic elements in the 3D viewport.



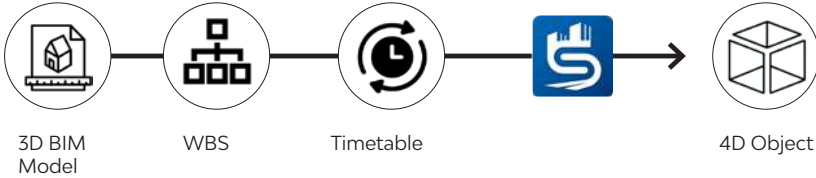
Checks for space-time interference: Management software and 4D modeling



To improve and supervise the timing and operations of the construction site, the use of a **4D management software such as SYNCHRO Pro** by Bentley Systems or similar, distributed in Italy by Teamsystem Construction or similar, is planned. The program collects all the information

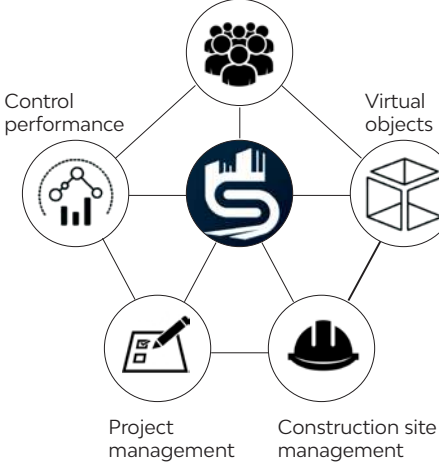
that characterizes the model, combined with the WBS classification and the time program, exploits the potential of high-precision graphics, reducing errors on the construction site, thanks to the creation of construction sequences, assembly simulations and feasibility analysis of critical operations.

Workflow

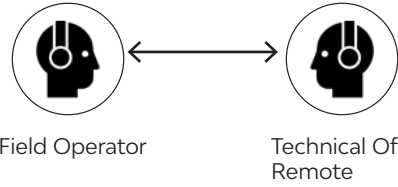


Controlled parameters

Constant communication



Direct connection



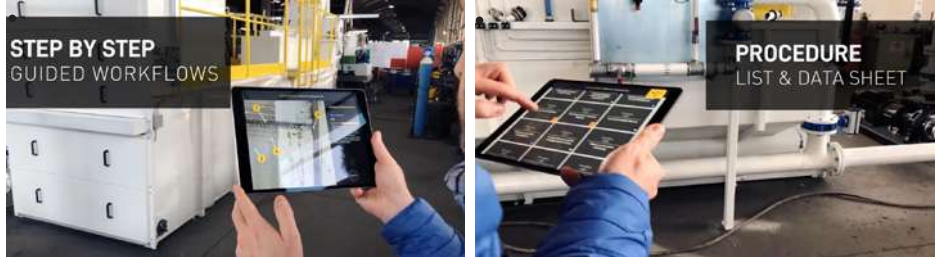
How to use

- Accesso al sistema tramite le proprie credenziali o delle credenziali Guest ID;
- Avvio della chiamata, selezionando un contatto online dalla lista Contatti;
- Attivazione delle funzionalità necessarie per lo svolgimento della sessione (modalità streaming, modalità foto, etc.);
- Utilizzo di elementi grafici virtuali (widget) disponibili durante la chiamata. Possono essere inseriti all'interno di un video o di un'immagine grazie alla Realtà Aumentata.
- La funzionalità di condivisione documenti consente agli operatori di inviare manuali, tabelle, immagini e altri documenti al proprio interlocutore, per facilitare il completamento dell'intervento.

Functionality



- Graphic instructions overlaid on videos;
- Real-time commands;
- Animated cursors that facilitate service operations.



- Advanced photographic instructions;
- Detailed description of each procedure;
- Numbered labels to indicate the elements and areas of intervention;
- Progressive numbers show the correct sequence of the processes.
- Entire list of procedures filtered by categories;
- Easy identification of categories, through the use of icons;
- Summary documentation with detailed information.

Adequacy of Professional Figures



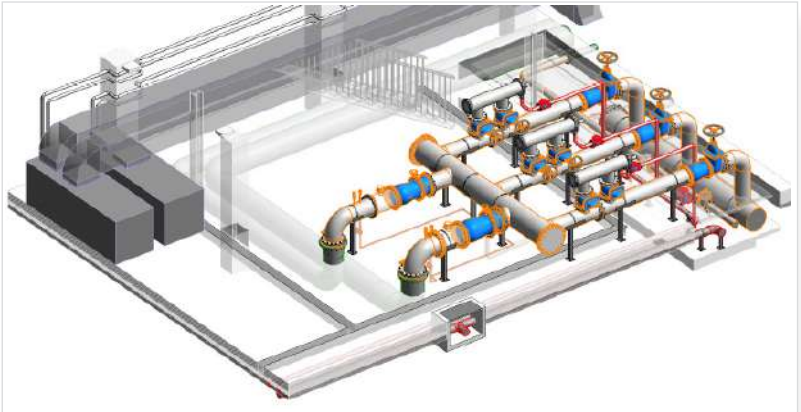
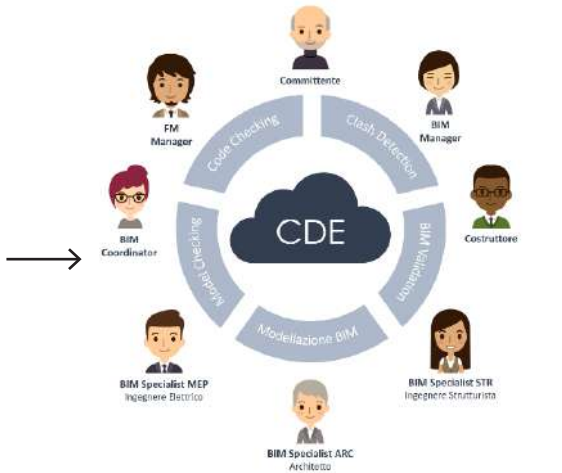
BIM Manager
Manager of the interdisciplinary BIM model and the effective integration of all data. He is responsible for the development and compliance with the BEP, the coordination of file sharing servers, the choice and management of software licenses and the company BIM library.

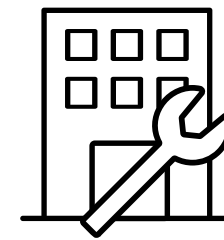
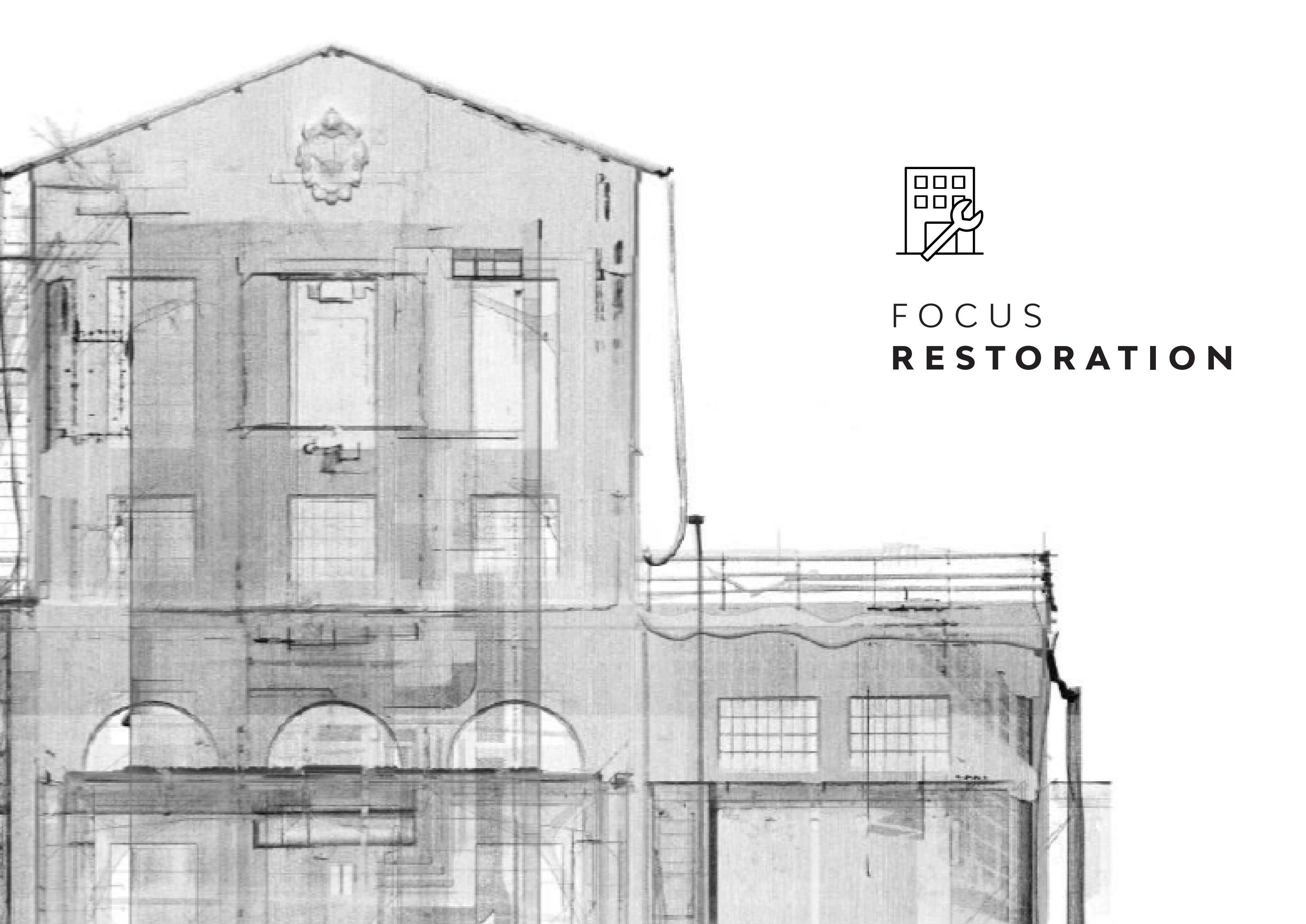


BIM Coordinator
Responsible for the interdisciplinary coordination of BIM specialist activities, development and updating of contents.



BIM Specialist
Specialized manager of 3D modeling, with specific knowledge of data management and information flows.





FOCUS
RESTORATION



*Tender documentation render



*Tender documentation render



Works for the renovation and restoration of the ex Enel plant in the former Amcm sector in Modena: Nuovo Teatro delle Passioni.

* Tender documentation project and render: Politecnica Ingegneria e Architettura Soc. Coop.

FOCUS RESTORATION

Ex Enel Plant Renovation

LOCATION
Modena, Italy

TYPE OF INTERVENTION
Culture

CONTRACTING AUTHORITY
Municipality of Modena

CONTRACTOR
AeC Costruzioni Srl

BUDGET
€ 7.6 mln

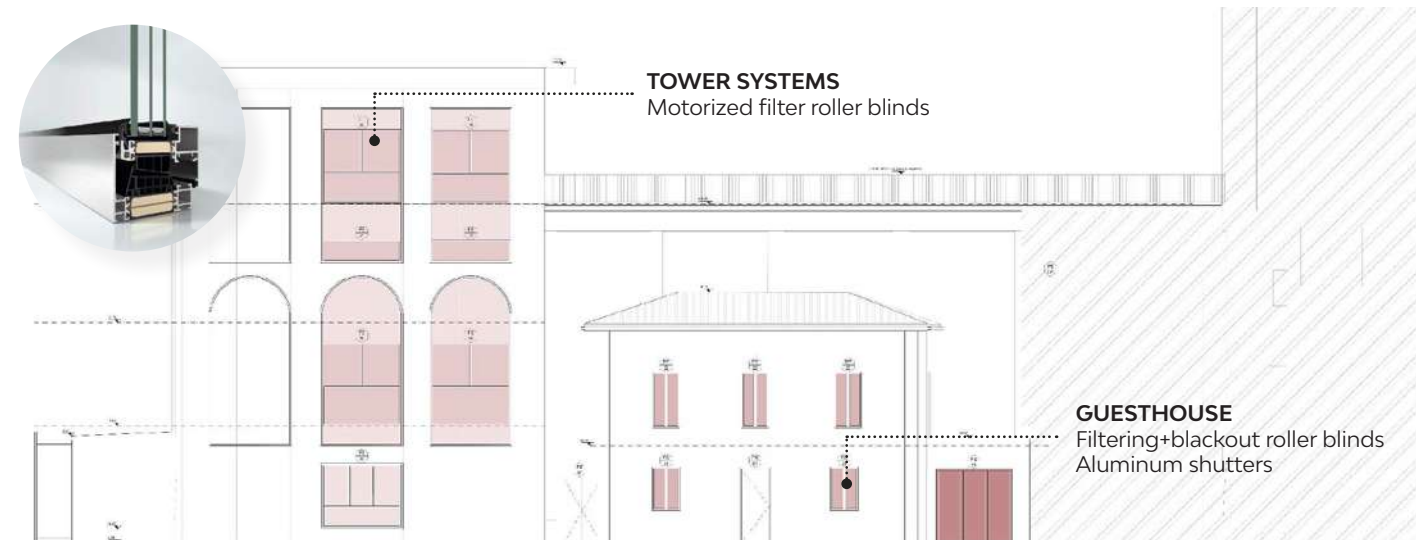
SERVICES
Technical improvements project

TYPE OF CONTRACT
Gara OEV



*Tender documentation render

Improving design performance



Improvement of transparent window frames

- Aluminium window frame type Schüco AWS 90.SI+ or similar
- Thermal break frame with $U_f=0.7$ W/m²K performance
- Cradle to Cradle Certification, plastic materials from renewable sources
- Aluminium window frame for French windows type Schüco ADS 90.SI or similar
- Thermal break frame with $U_f=1.4$ W/m²K performance
- Cradle to Cradle Certification, plastic materials from renewable sources
- Triple glazing, Saint Gobain type or similar (in all the windows presented)
- High thermal performance $U_g=0.5$ W/m²K
- Excellent acoustic performance $R_w=52$ dB

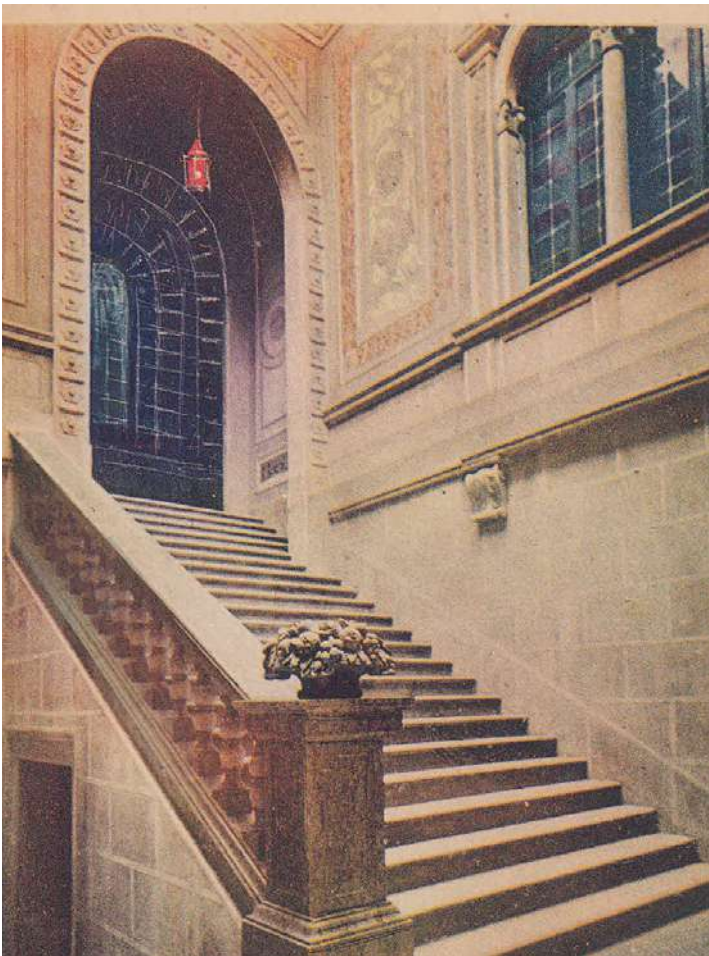


Improvement of opaque internal fixtures

- Single-leaf fire doors type SEBINO Chiusure or similar
- Double-leaf fire doors, type SEBINO Chiusure or similar
- Accessories for fire doors
- Protective systems for internal doors

Improved shielding systems

- Motorized roller blind filtering, type Latemar by Pellini or similar
- Motorized roller blind darkening and filtering, type Latemar by Pellini or similar
- Motorized Venetian blind type ScreenLine SL20-22MB by Pellini or similar
- Aluminum shutter with wood finish



Renovation work
on the Mirandola
Town Hall

*Tender
documentation
render: Enerplan Srl

^ FOCUS RESTORATION

Renovation of the “Town Hall” in Mirandola

LOCATION
Mirandola, Italy

BUDGET
€ 5.2 mln

TYPE OF INTERVENTION
Mixed use

SERVICES
Technical improvements project

CONTRACTING AUTHORITY
Unione Comuni Modenesi Area Nord

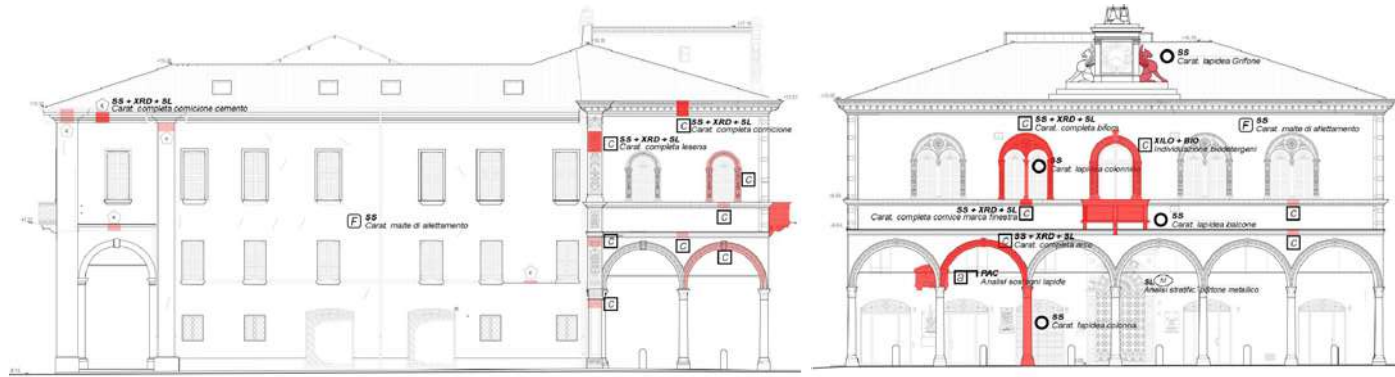
TYPE OF CONTRACT
Construction

CONTRACTOR
AeC Costruzioni Srl -
Alchimia_Laboratorio di Restauro

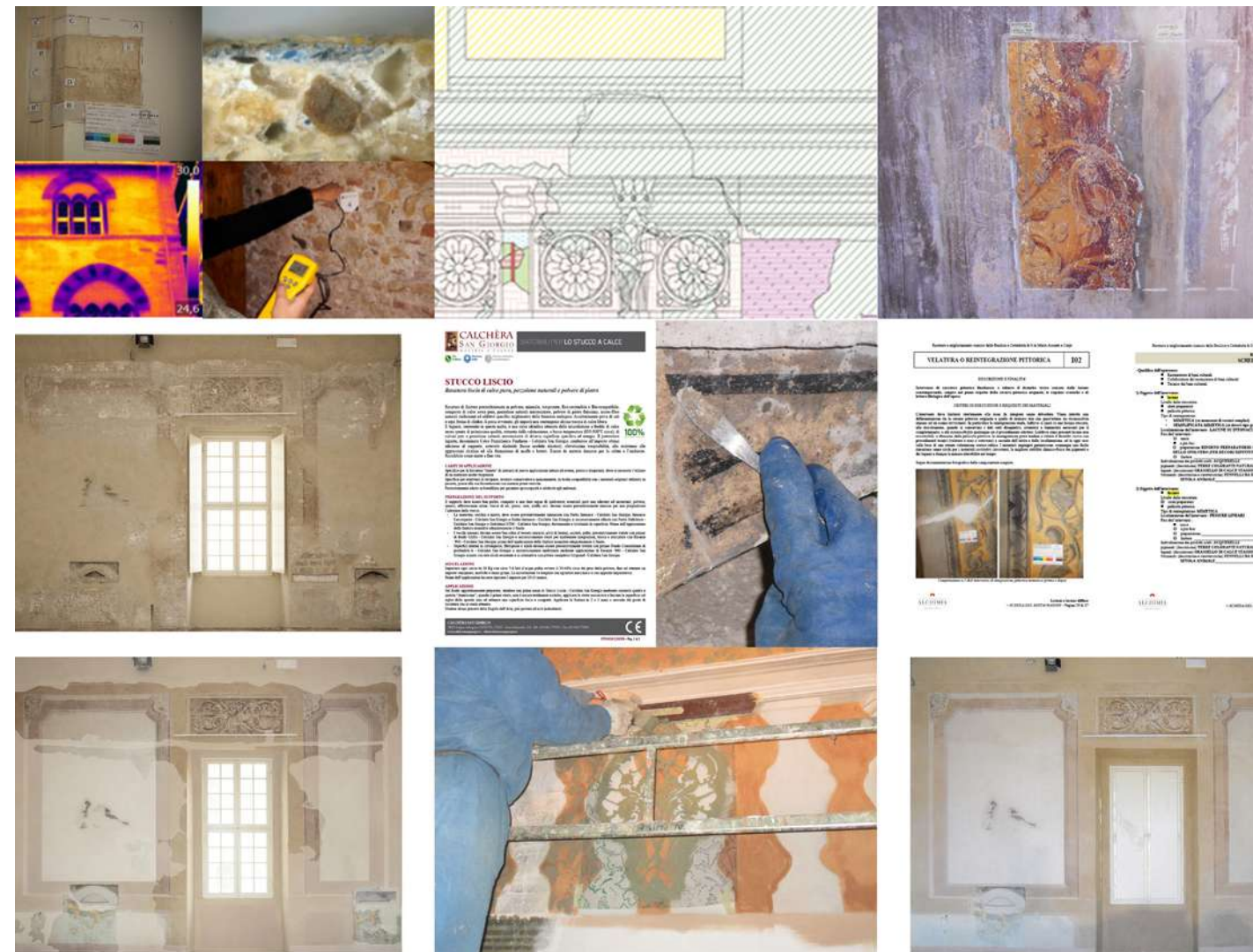


Restoration works with seismic improvement

Investigations into the existing

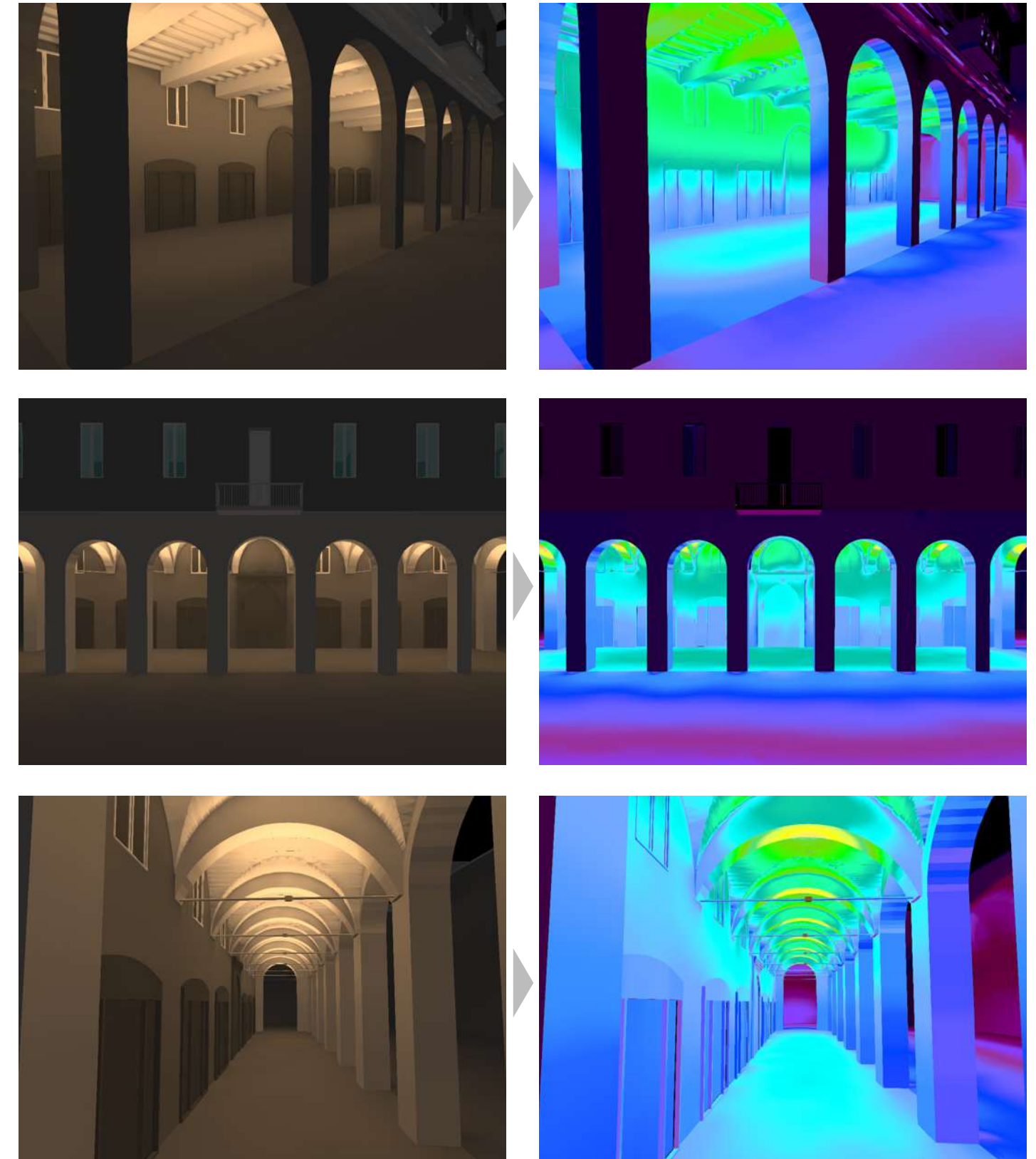


Restoration intervention approach - GREAT HALL



Improved external lighting

Check lighting levels





FOCUS
STRUCTURES



Construction work
for a sound stage
and related dressing
rooms and equipment
in the C4A and C4B
areas of Cinecittà

*Tender
documentation
project: Arch. Bruno
Moauero - Prof. Ing.
Francesco Sylos
Labini - Ing. Carmine
Sommella - Ing.
Joseph De Santis -
Ing. Alfredo Innocenti
- Ing. Anna Tarsitano
- Arch. Massimiliano
Moauero

FOCUS STRUCTURES

Cinecittà Studios

LOCATION
Rome, Italy

TYPE OF INTERVENTION
Culture

CONTRACTING AUTHORITY
Cinecittà

CONTRACTOR
Setten Genesio Spa

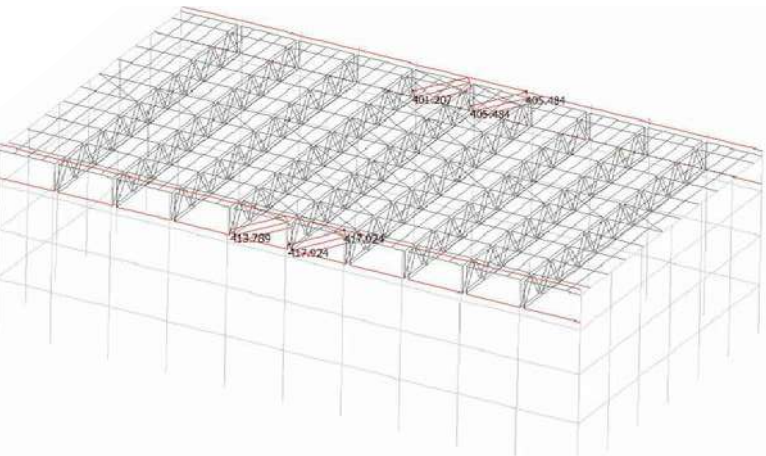
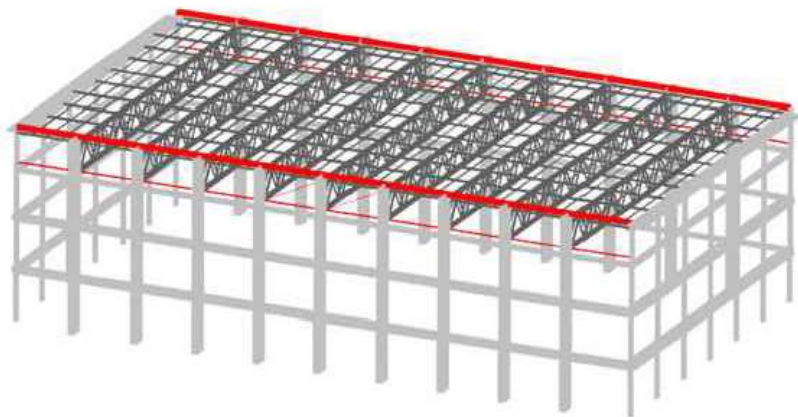
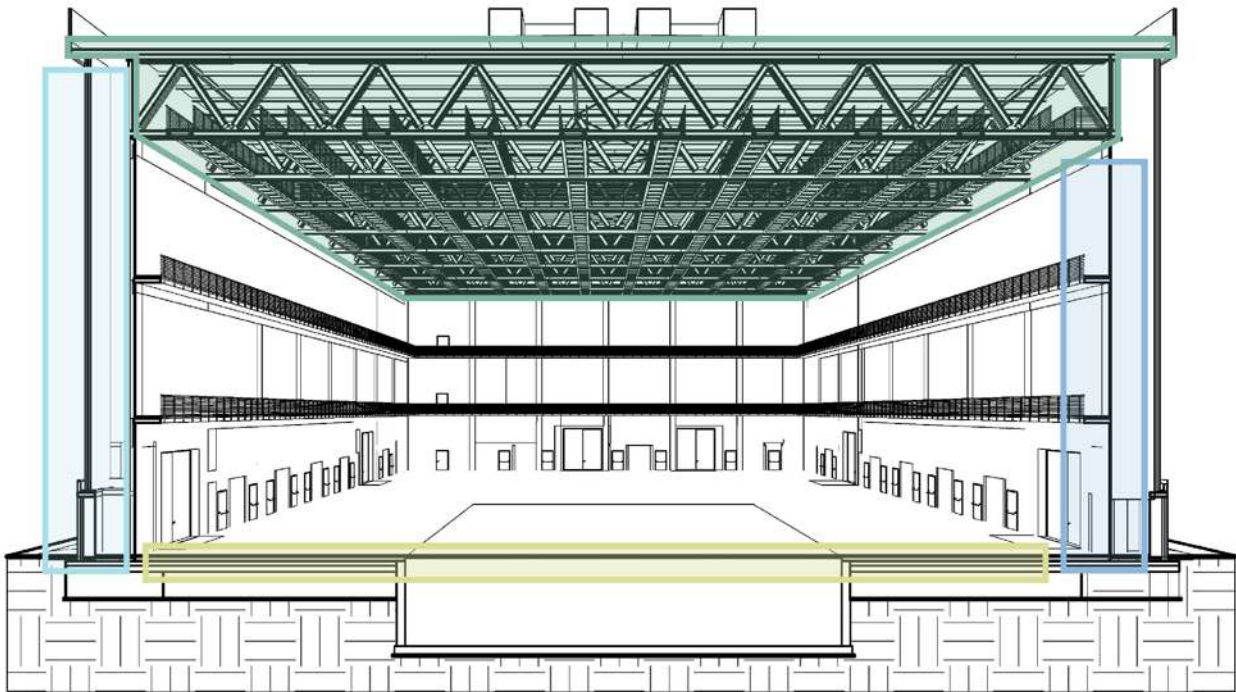
BUDGET
€ 30 mln

SERVICES
Technical improvements project

TYPE OF CONTRACT
Construction



Improving structural performance



Coverage

As regards the roofing, additional longitudinal bracing and infill support elements have been identified.

The additional 2L60x8 braces were also sized.

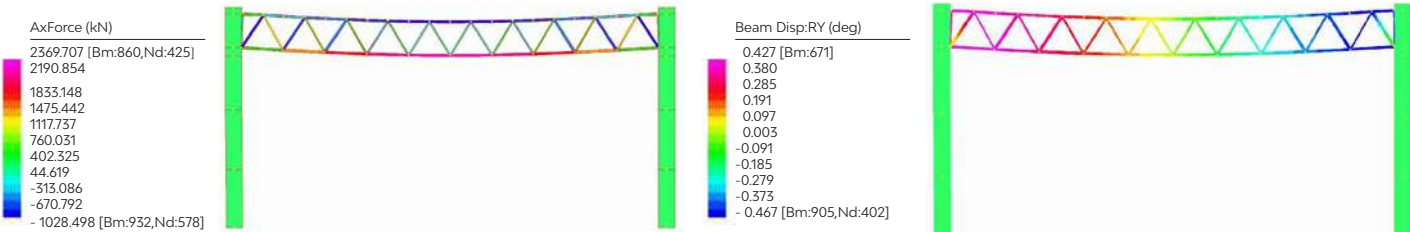
	MIN	MAX
AxForce (kN)	-414.214	417.924
	[Bm:2405]	[Bm:2406]

Advantages

Insertion of elements not present in the base of the wind bracing system capable of stiffening the structure, giving it the resources necessary to resist horizontal forces, such as wind force and earthquakes.

Support devices

The correct calculation of the roof girder was carried out, taking into account the yielding of the supports and the eccentricity with respect to the barycentric axis of the columns, and the rotation at the imposts at the SLU was evaluated for the optimal choice of the support device.



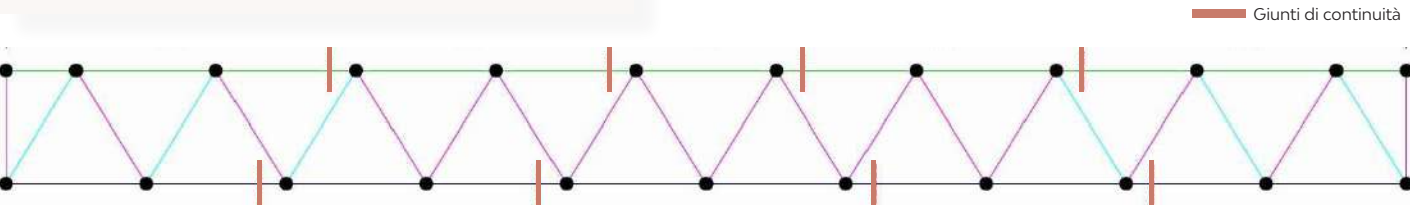
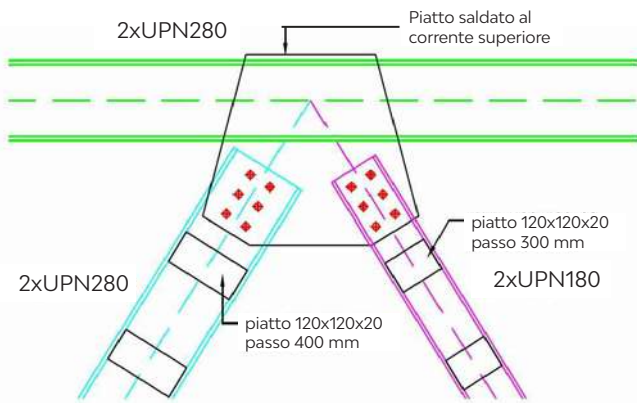
The use of a confined elastomeric disk bearing device is proposed. Based on the maximum rotation allowed for this type of device, equal to 2%, the device type VF 200-60 from FIP MEC or similar has been identified.

Truss beam: connections and joints

The solution envisaged on the basis of the tender includes bolted connections to be made on site. The improvement project proposes the creation of the unions of the steel elements of the lattice truss mainly in the workshop and the replacement of the bolting of the diagonals with welding in the workshop. The positioning of the continuity joints of the beams is also revised so that they are placed in the points subject to less stress.

Advantages

- Optimization of connections by making them in the workshop and reducing bolting
- Revision of the continuity joints of the beams
- Optimization of transport and installation times



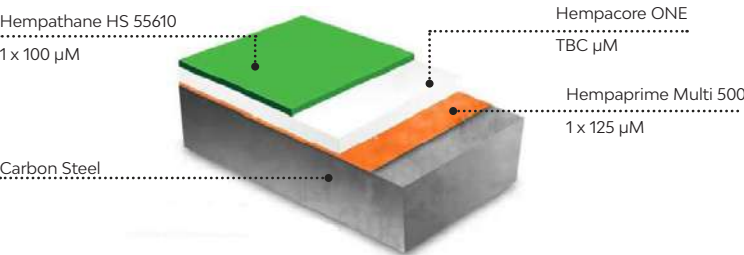
Confined elastomeric disc bearings

PTFE steel bearings in which rotations around any horizontal axis are ensured by the deformability of a rubber disc confined in a monolithic steel base.

Fire protection

To improve the fire behavior of the roof slab, the corrugated sheet metal is reinforced with bars of the type B 450 C.

It is also expected to offer additional protection of the metal carpentry of the roof against fire with R90 single-component intumescent paint in aqueous emulsion applied in three layers such as Hempel or similar. For each of the profiles constituting the roofing lattice beams, a specific dimensioning of the thickness of the intumescent paint to be applied has been carried out in order to guarantee the correct protection.





*Tender documentation render



*Tender documentation render



FOCUS STRUCTURES

Renovation Mugello Hospital

LOCATION

Borgo San Lorenzo, Italy

TYPE OF INTERVENTION

Health

CONTRACTING AUTHORITY

Azienda U.S.L. Toscana centro

CONTRACTOR

Nbi Spa - Webuild Group

BUDGET

€ 35 mln

SERVICES

Technical improvements project

TYPE OF CONTRACT

Construction

Renovation and expansion works with seismic adaptation of the hospital facility of the Mugello Hospital - Excerpt 1: Technology center, buildings under expansion and seismic adaptation

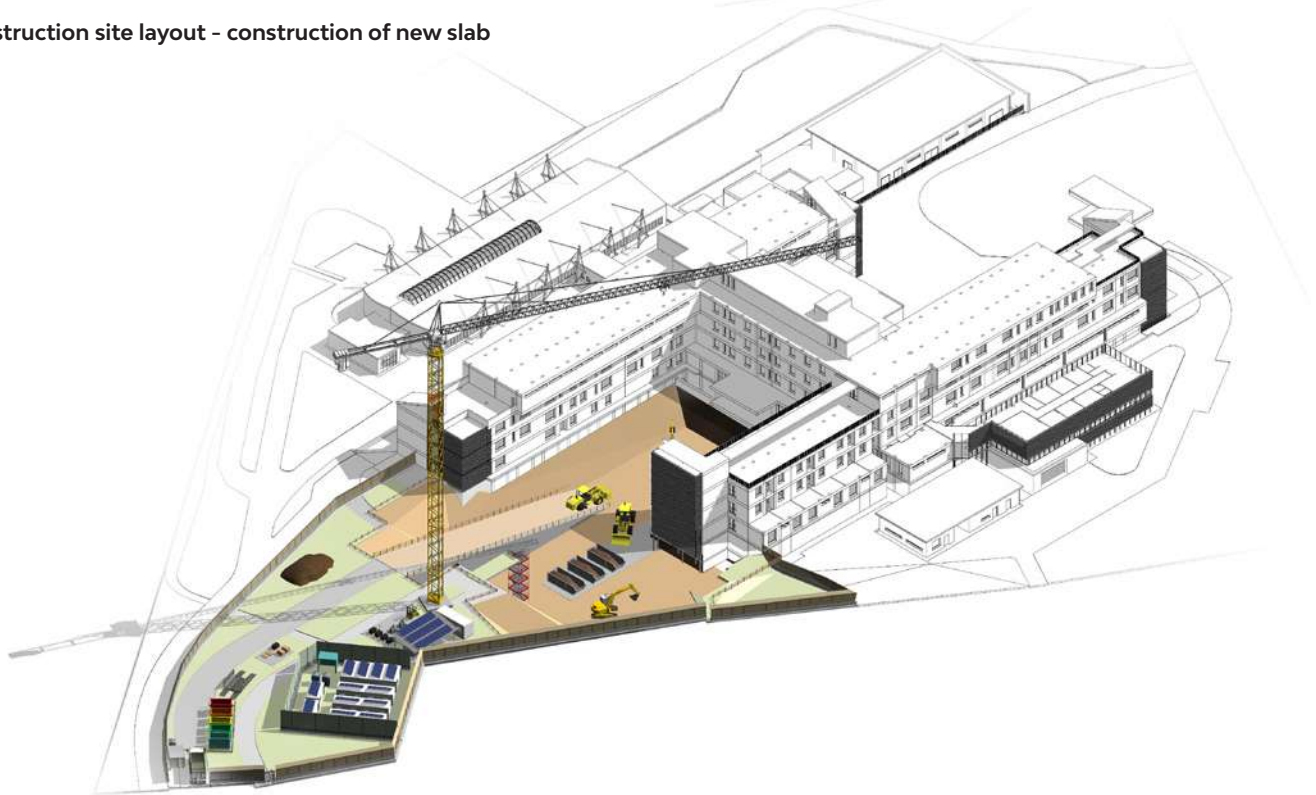
*Tender documentation project and render: Tecnicaer, consorziata Mythos Scar - aei progetti - M&E Management and Engineering



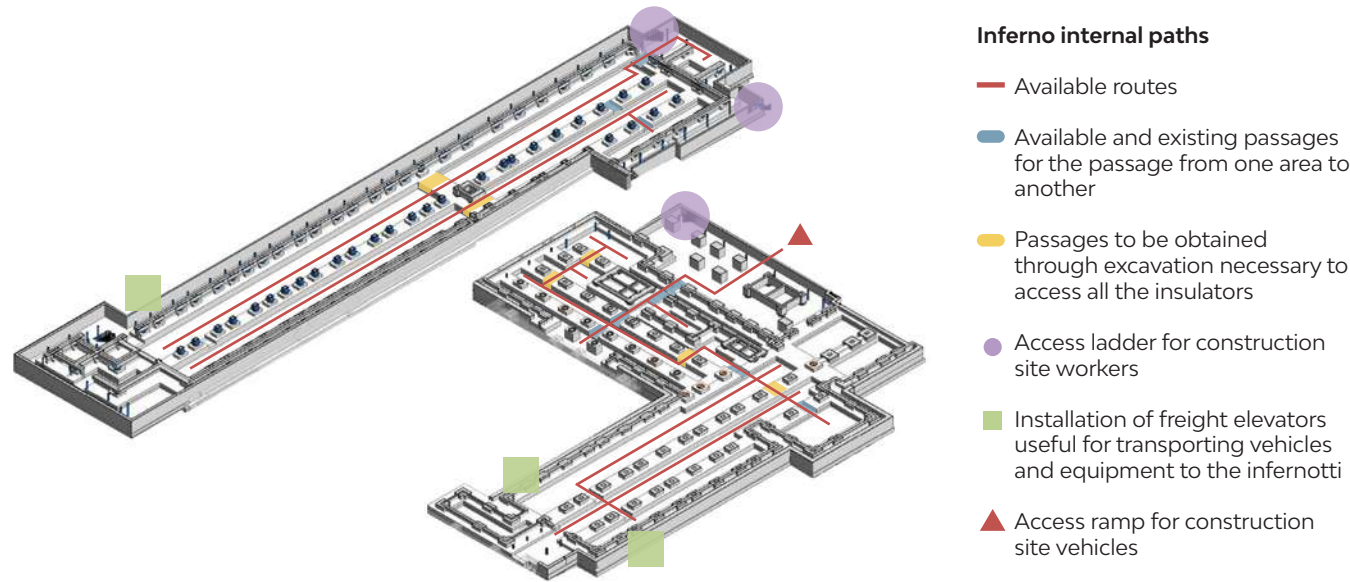
*Tender documentation render

Optimization of structural works

Construction site layout - construction of new slab

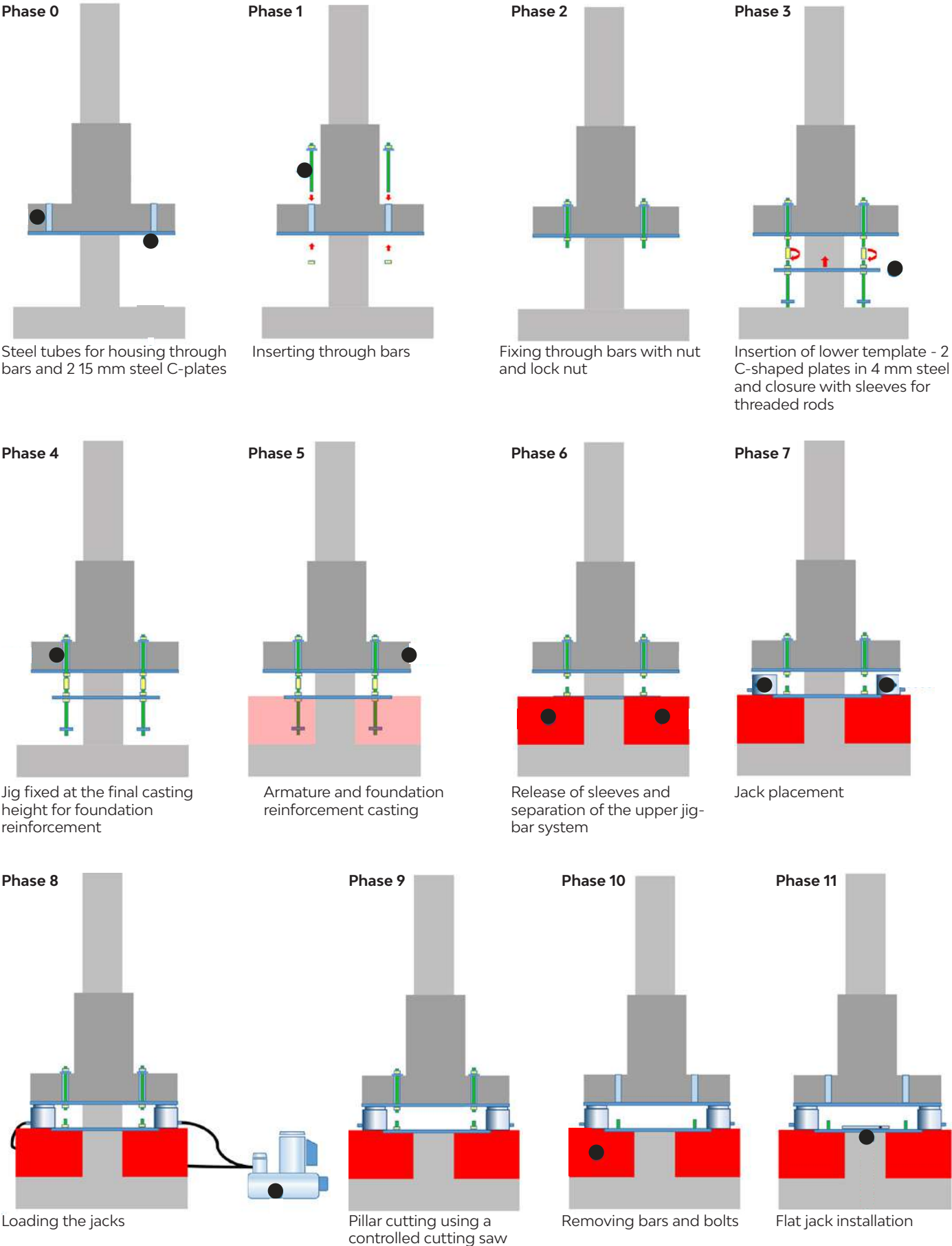


Access methods and sequence of laying of insulators



In order to reduce the risk of minimum possible settlements in the loading phase of the isolators, it was considered appropriate to integrate the system of cylindrical jacks for loading the structures preparatory to cutting the pillars, with a flat jack to be positioned under the isolator. The flat jack allows the isolator to be loaded before the cylindrical jacks for loading the structure are unloaded, thus ensuring better contact with the pillar with a reduction in the risk of minimum possible settlements occurring with other procedures.

This procedure, borrowed from the interventions for replacing structural supports for bridges in operation, guarantees a significant reduction in the risk of settlement due to settlements caused by imperfect contact between the isolator and the pillar base. The proposed solution also aims to resolve, through a lower template, the problems of positioning, alignment and fixing of the isolators.



Certifications



BIM UNI PDR 74:2019
CERTIFIED COMPANY



ISO 9001:2015
CERTIFIED COMPANY



ISO 14001:2015
CERTIFIED COMPANY



ISO 45001:2018
CERTIFIED COMPANY



UNI PDR 125:2022
CERTIFIED COMPANY



SA 8000:2014
CERTIFIED COMPANY



ASSOCIATE OF
CONFINDUSTRIA
ASSOIMMOBILIARE



MEMBER OF
OICE



MEMBER OF
EFCA



MEMBER OF CNETO
CENTRO NAZIONALE EDILIZIA
E TECNICA OSPEDALIERA



BIM QUALITY
ENVIRONMENT POLICY



SOCIAL RESPONSABILITY
POLICY



GENDER EQUALITY
POLICY

ATI | Project

CREATING A BETTER REALITY

PISA
MILAN
ROME
BELGRADE
ODENSE
COPENHAGEN
PARIS
GENEVA