PROJECTS PORTFOLIO



Via Tizzano 46/2 40033 Casalecchio di Reno Bologna - Italy Partita I.V.A. 02568991208



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PROJECTS PORTFOLIO

INDEX

 Stadiums 	Pag. 3
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•	Bridges and	l Footbridges	Pag. 25

- Buildings
 Pag. 42
- Indoor Stadiums
 Pag. 61
- Exhibition Halls
 Pag. 73
- Historical Buildings
 Pag. 93

STADIUMS



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Cairo – New Stadium



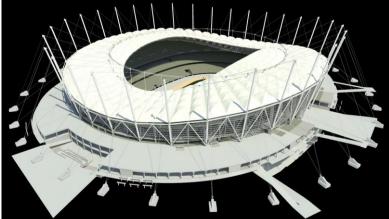








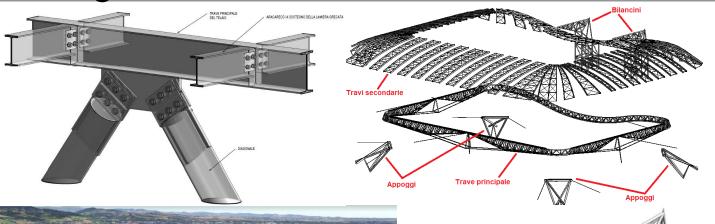




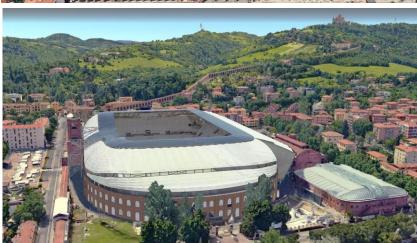
WORK DATA		
Location	Cairo (EGY)	
Year	2019 – 2022 under construction	
Owner	Egyptian government	
Client	ORASCOM	
Seats	93'000	
Work budget	€ 270'000'000	
STRUCTURAL	DESIGN	
Tender	X	
Preliminary	X	
Final	X	
Building site support	X	
DESIGNED EL	DESIGNED ELEMENTS	
Risers	Precast concrete structures	
Grandstands	Cast in situ and precast concrete structures	
Roof	Tensile structure	
Roof Cover	Membrane	
Foundation	Slab on ground and piles	

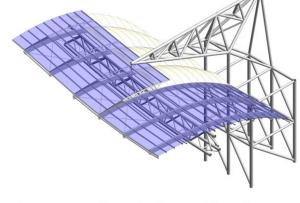
Bologna – New Renato Dall'Ara Stadium

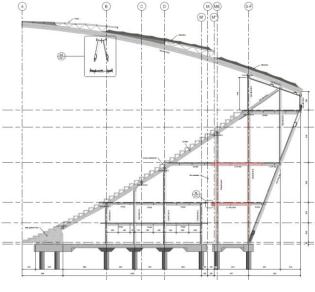












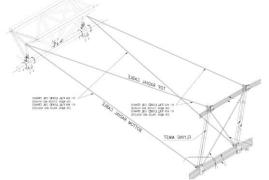
WORK DATA		
Location	Bologna (ITA)	
Year	2017 – 2022	
Owner	Bologna Football Club	
Client	GauArena	
Seats	30,000	
Structural work budget	€ 63'000'000	

STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	In progress
Building site support	-

DESIGNED ELEMENTS	
Risers	Precast concrete structures
Grandstands	Cast in situ and steel structures
Roof	Structural system with main steel beams and seconday beams
Roof Cover	Membrane and palram
Foundation	Slab on ground and piles

Yaoundé – Paul Biya Stadium



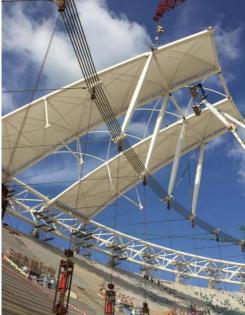








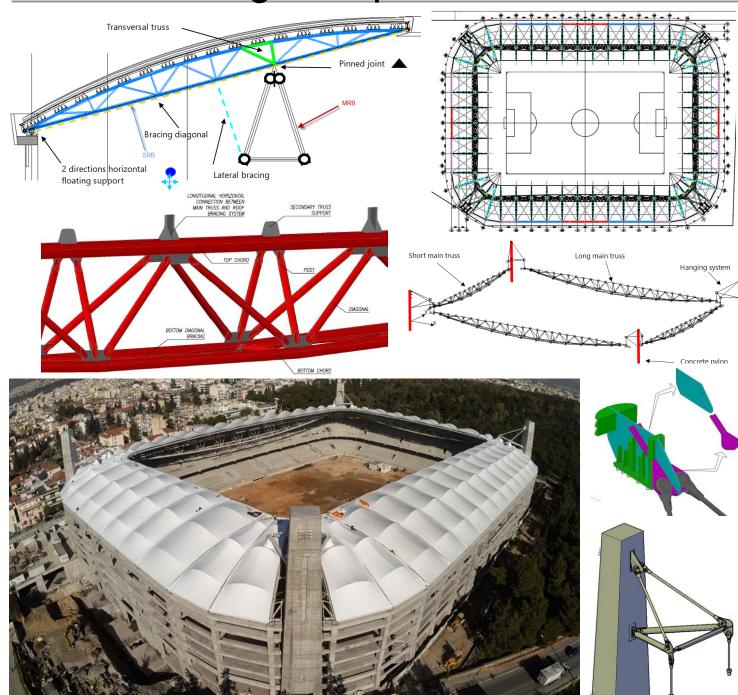




WORK DATA	
Location	Yaoundè (CMR)
Year	2017 – 2022
Owner	Cameroon Governement
Client	Piccini Group
Seats	60,000
Works budget	€ 92′500′000
STRUCTURAL	DESIGN
Tender	X
Preliminary	X
Final	X
Building site support	X
DESIGNED EL	LEMENTS
Risers	Precast concrete structures
Grandstands	Cast in situ and steel structures
Roof	Spoke Wheel structure
Roof Cover	Membrane
Foundation	Slab on ground and piles

Athens – Agia Sophia Stadium





	Structures	
WORK DATA		
Location	Atens (GRC)	
Year	2017 – 2021	
Owner	AEK Athens Football Club	
Client	AEK Athens Football Club	
Seats	33'000	
Works budget	€ 12'000'000	
STRUCTURAL	STRUCTURAL DESIGN	
Tender	X	
Preliminary	X	
Final	X	
Building site support	-	
DESIGNED ELEMENTS		
Roof	Structural system with hanged main steel beams and seconday beams	
Roof Cover	Membrane	

Istanbul – Vodafone Arena





01 STEEL LAYOUT TRANSVERSAL SECTION

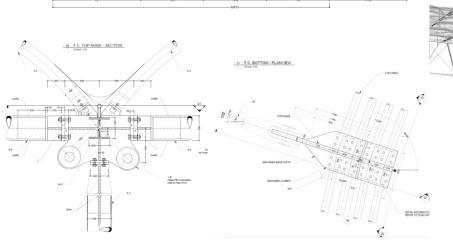




WORK DATA	VORK DATA	
Location	Istanbul (TR)	
Year	2014 – 2015	
Owner	Besiktas	
Client	Besiktas	
Seats	42'590	
Works budget	€ 125'000'000	

	STRUCTURAL DESIGN	
	Tender	-
	Preliminary	-
	Final design validation	X
	DESIGNED ELEMENTS	

DESIGNED ELEMENTS	
Roof	Spoke Wheel Structures
Roof Cover	Membrane



Udine – Dacia Arena











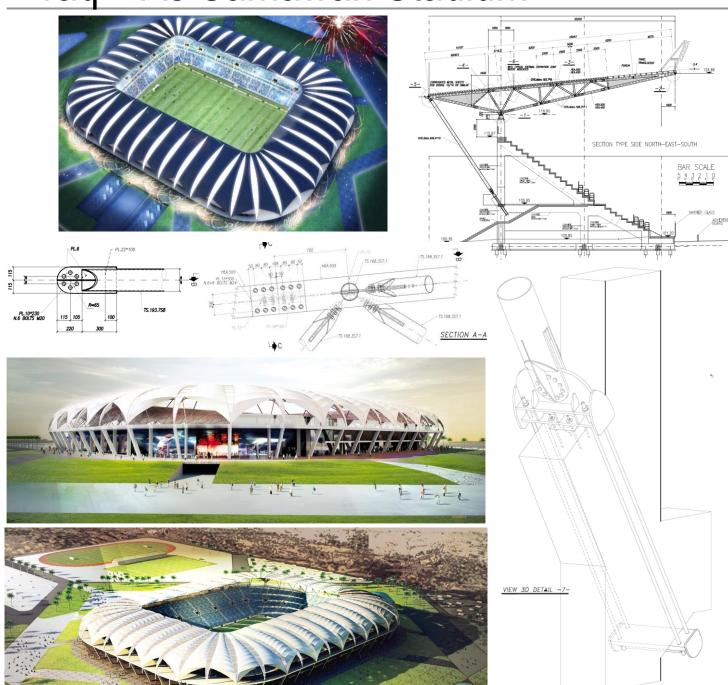




WORK DATA	
Location	Udine (ITA)
Year	2014
Owner	Udine Municipality
Client	Udinese Calcio SpA
Seats	25'312
Works budget	€ 30'000'000
STRUCTURAL	_ DESIGN
Tender	-
Preliminary	-
Final design cunsultant	X
DESIGNED ELEMENTS	
Roof	Coupling reticular steel trusses joined by reticular beams that support secondary elements.
Roof Cover	Corrugated sheet and corrugated alveolar polycarbonate

Iraq – As Samawah Stadium

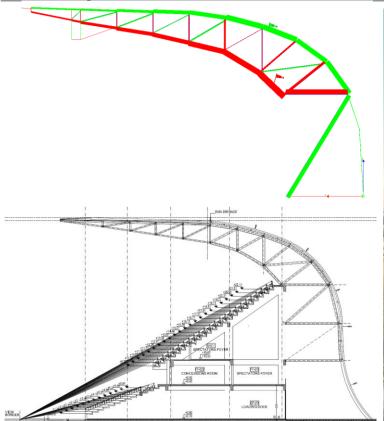




WORK DATA		
Location	As Samawah (IRQ)	
Year	2013 – 2015	
Owner	Republic of Iraq	
Client	T&T Costruzione S.r.l.	
Seats	20'000	
Works budget	€ 50'000'000	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
Building site support	-	
DESIGNED ELEMENTS		
Risers	Precast concrete structures	
Grandstands	Cast in situ and steel structures	
Roof	Cantilever steel structure	
Roof Cover	Membrane	
Foundation	Piles	

Iraq – Karbala Stadium





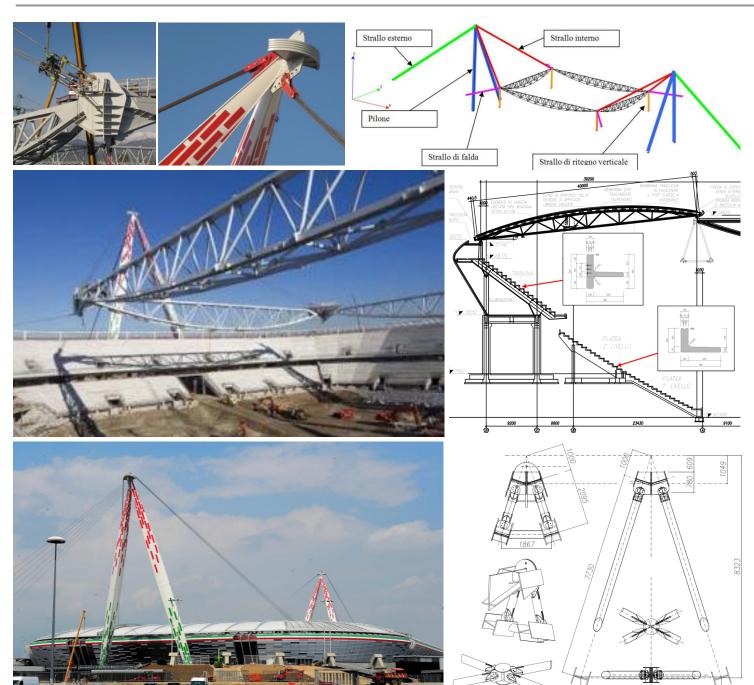




WORK DATA	
Location	Karbala (IRQ)
Year	2012 – 2013
Owner	Ministry of Youth and Sport of Iraq (MOYS)
Client	Open Project
Seats	30'000
Works budget	€ 75'000'000
STRUCTURAL DESIGN	
Tender	-
Preliminary	-
Final design validation	Х
Building site support	-
DESIGNED ELEMENTS	
Risers	Precast concrete structures
Grandstands	Cast in situ structures
Roof	Cantilever steel structure
Roof Cover	Polycarbonate
Foundation	Slab

Turin – Allianz Stadium Juventus

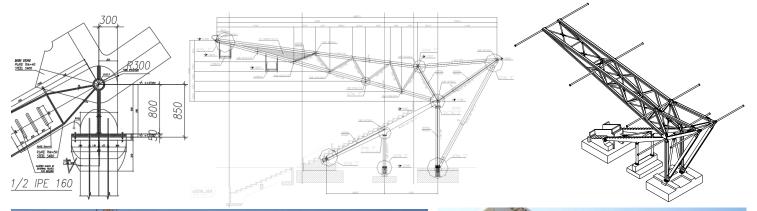




	structures	
WORK DATA		
Location	Turin (ITA)	
Year	2008 – 2010	
Owner	Juventus F.C.	
Client	Juventus F.C.	
Seats	42'000	
Works budget	€ 105'000'000	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
Building site support	X	
DESIGNED ELEMENTS		
Risers	Precast concrete structures	
Grandstands	Cast in situ and steel structures	
Roof	Structural system with hanged main steel beams and seconday beams	
Roof Cover	Membrane	
Foundation	Slab on ground and piles	

Larissa – AEL FC Arena







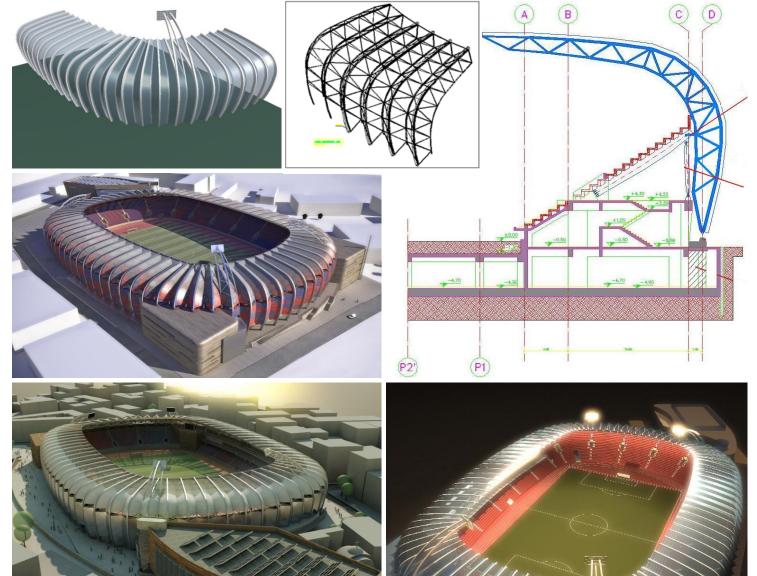




WORK DATA		
Location	Larissa (GRC)	
Year	2009 – 2012	
Owner	Larissa F.C.	
Client	Larissa F.C.	
Seats	16'000	
Works budget	€ 41'000'000	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
Building site support	-	
DESIGNED EL	DESIGNED ELEMENTS	
Risers	Precast concrete structures	
Grandstands	Steel structures	
Roof	Cantilever steel structure	
Roof Cover	Corrugated steel sheet	
Foundation	Slab on ground	

Athens – Panionios AC Stadium

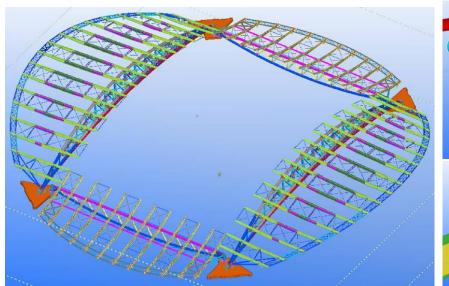


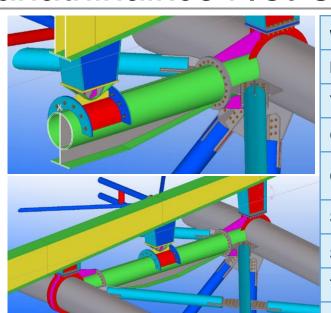


WORK DATA	WORK DATA		
Location	Athens (GRC)		
Year	2009		
Owner	Panionios Gymnastikos Syllogos Smyrnis - P.G.S.S.		
Client	Dimand S.A.		
Seats	12'500		
STRUCTURAL DESIGN			
Tender	X		
Preliminary	-		
Final	-		
Building site support	-		
DESIGNED EL	DESIGNED ELEMENTS		
Risers	Precast concrete structures		
Grandstands	Cast in situ and steel structures		
Roof	Spatial steel truss with curved beams		
Roof Cover	Membrane		
Foundation	Slab on ground		

Athens – Roof of the Panathinaikos F.C. Stadium







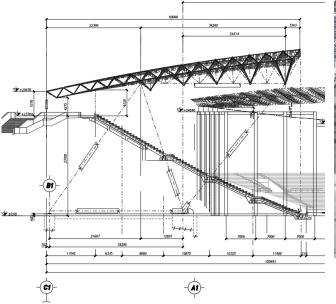


WORK DATA		
Location	Athens (GRC)	
Year	2008	
Owner	Panathinaikos F.C.	
Client	Design & Application Engineers S.A.	
Seats	40'500	
STRUCTURAL DESIGN		
Tender	-	
Preliminary	-	
Consultancy to final project	X	
Building site support	-	
DESIGNED ELEMENTS		
Roof	Reticular space structure with curved steel beams	
Roof Cover	Corrugated steel sheet	

Messina – Municipal Stadium









WORK DATA	
Location	Messina (ITA)
Year	2005 - 2006
Owner	F.C. Messina Peloro srl
Client	F.C. Messina Peloro srl
Seats	45'000
Works budget	€ 20'000'000
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
DESIGNED ELEMENTS	
Roof	Reticular space structures composed by double-layer grid with lowered configuration
Roof Cover	Membrane

Modena – Alberto Braglia Stadium











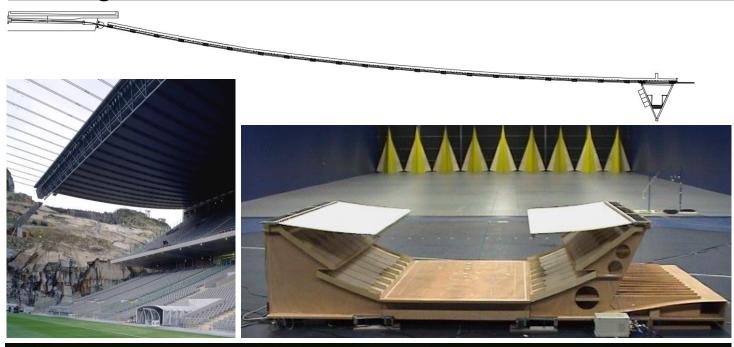




WORK DATA	
Location	Modena (ITA)
Year	2004 – 2006
Owner	Modena Municipality
Client	Modena Municipality
Seats	22'000
Works budget	€ 10'300'000
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
Building site support	-
DESIGNED EL	LEMENTS
Risers	Precast concrete structures
Grandstands	Steel structures
Roof	Cantilever steel structure
Roof Cover	Membrane
Foundation	Slab on ground and piles

Braga – Council Stadium Roof







WORK DATA		
Location	Braga (PRT)	
Year	2003 – 2004	
Owner	Braga Municipality	
Client	Soc. Soares da Costa	
Seats	30'500	
Works budget	€ 120'000'000	
STRUCTURAL DESIGN		
Tender	-	
Preliminary	-	
Final	Х	
Building site support	-	
DESIGNED ELEMENTS		
Roof	Cables and concrete structures	
Roof Cover	Concrete slab	

Athens – Olympiakos Stadium



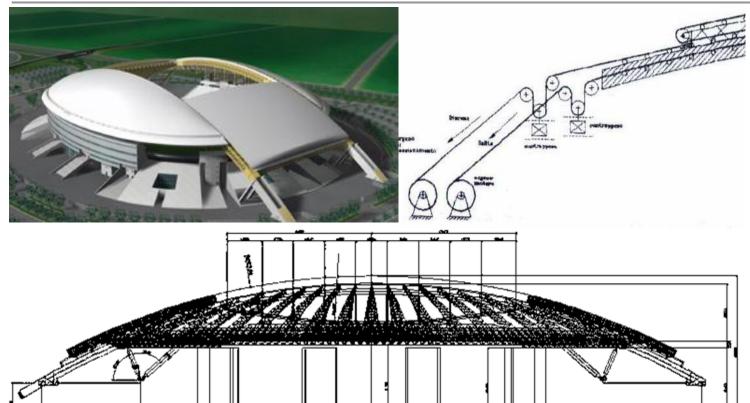


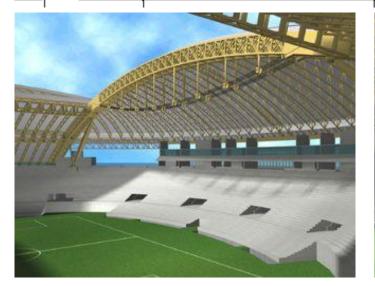


WORK DATA	
Location	Athens (GRC)
Year	2002 – 2004
Owner	Karaiskaki S.A.
Client	Karaiskaki S.A.
Seats	34'000
Works budget	€ 40'000'000
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
Building site support	-
DESIGNED ELEMENTS	
Grandstands	Steel structures
Roof	Cantilever steel structure
Roof Cover	Membrane

Venice – Marco Polo Stadium





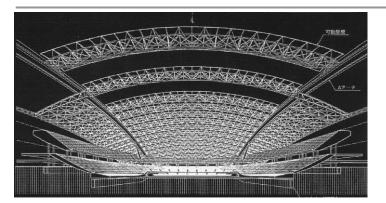


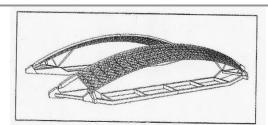


	3 61 4 6 6 4 1 6 3
WORK DATA	
Location	Venice (ITA)
Year	1999
Owner	Marco Polo S.r.l.
Client	Impresa Mazzi S.p.a.
Seats	30,000
Works budget	€ 62'000'000
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	-
Building site support	-
DESIGNED ELEMENTS	
Risers	Precast concrete structures
Grandstands	Cast in situ concrete structures
Roof	Spatial retractable steel truss structure
Roof Cover	Membrane
Foundation	Slab on ground and piles

Ohita – Stadium















WORK DATA	
Location	Ohita (JPN)
Year	1998
Owner	Kajima Corporation Ohita Giappone
Client	Kajima Corporation Ohita Giappone
Seats	35'000
Works budget	€ 120'000'000
STRUCTURAL DESIGN	
Tender	X
Preliminary	-
Final	-
Building site support	-
DESIGNED ELEMENTS	
Risers	Precast concrete structures
Grandstands	Cast in situ concrete structures
Roof	Spatial retractable steel truss structure
Roof Cover	Membrane

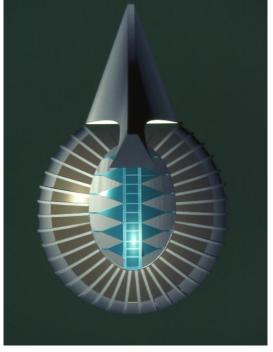
Montréal – Olympic Stadium

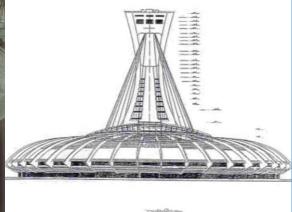












WORK DATA	
Location	Montréal (CAN)
Year	1992-1995
Owner	Régie des installations olympiques
Client	Régie des installations olympiques
Seats	68'500
Works budget	€ 25'830'000
STRUCTURAL	_ DESIGN
Tender	-
Preliminary	-
Final	-
Consulting	Х
DESIGNED EL	LEMENTS
Roof	Covering tensile structure to replace the collapsed structure following extraordinary wind events in 1988 and 1991
Roof Cover	Membrane

Turin – Delle Alpi Stadium





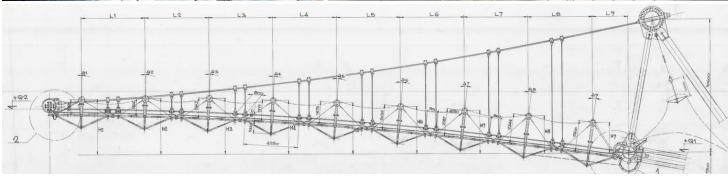
	3114614163
WORK DATA	
Location	Turin (ITA)
Year	1990
Owner	Comune di Turin e Juventus Football Club S.p.A.
Client	Acqua Marcia S.p.a.
Seats	70'000
Works budget	€ 65'000'000
STRUCTURAL DESIGN	
Tender	X
Preliminary	Х
Final	Х
Building site support	-
DESIGNED ELEMENTS	
Roof	Tensile structure
Roof Cover	Membrane

Rome – Olympic Stadium Roof













WORK DATA	
Location	Rome (ITA)
Year	1990
Owner	CONI - Rome
Client	CONI - Rome
Seats	70'500
Works budget	€ 80'000'000
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
Building site support	X
DESIGNED EL	LEMENTS
Roof	Tensile structure
Roof Cover	Membrane

BRIDGES AND FOOTBRIDGES



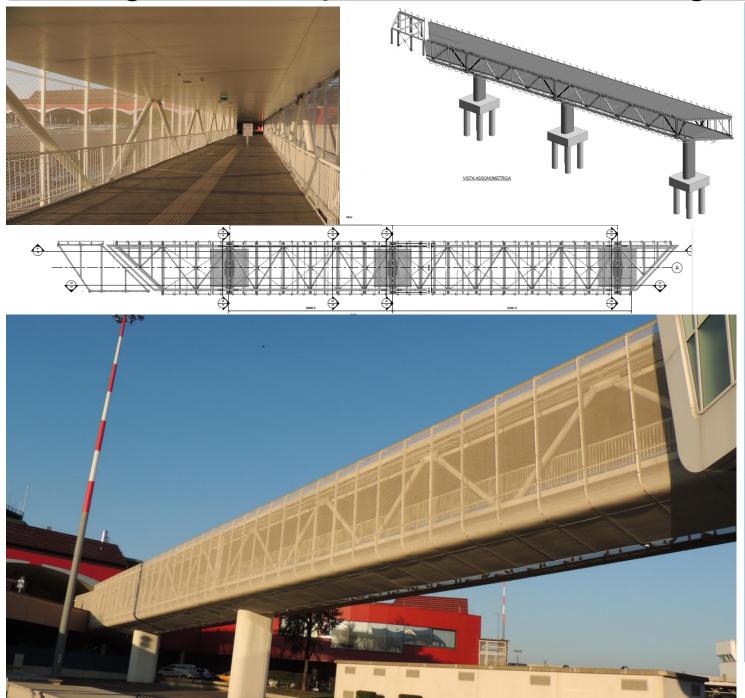
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Bologna – People Mover Footbridge





Bologna (ITA)	
Bologna (ITA)	
• ,	
2018 – 2019	
Bologna Airport	
Open Project	
£ 581'000	
New construction	
STRUCTURAL DESIGN	
X	
Χ	
X	
CHARACTERISTICS	
Pedestrian Bridge over road	
65m	
ōm	
2 + 2 cantilever	
21m – 31m	
Reticular steel beams	
Steel corrugated sheet with a concrete slab working together	
Piles	

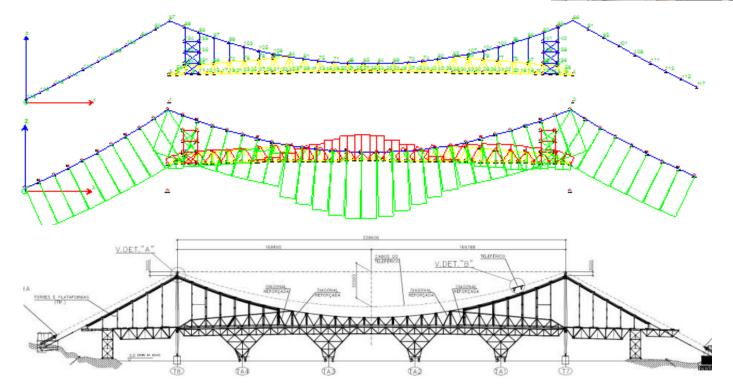
Florianopolis – Ponte Hercilio Luz











WORK DATA		
Location	Florianopolis (BRA)	
Year	2016	
Owner	Municipalidad Santa Catarina	
Client	MMI	
Structural Work budget	€ 30'000'000	
Type of work	Measureson of structural reinforcement	
STRUCTURAL	DESIGN	
Tender	-	
Preliminary	-	
Final	-	
Final design cunsultant	X	
CHARACTERISTICS		
Туре	Road suspension bridge over river route	
Length	820m	
Width	13m	
n° span	3	
Span	340m	
Main Structure	Cables and steel towers	
Deck	2 piers in the river	

Perth – Footbridge over Swan River











	Structures	
WORK DATA		
Location	Perth (AUS)	
Year	2015 – 2020	
Owner	Mainroads Western Australia	
Client	York Rizzani Joint Venture	
Structural Work budget	€ 40'000'000	
Type of work	New construction	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
CHARACTERISTICS		
Туре	Pedastrian suspension bridge over river route	
Length	372m	
Width	13m	
n° span	3	
Span	103.5m – 165m – 103.5m	
Main Structure	Steel arches	
Deck	Connected concrete slab	
Substructure	2 piers in the river and 2 abutment on piles	

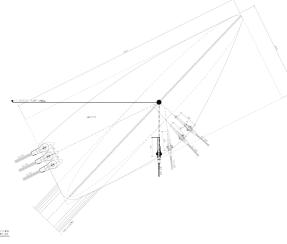
Milan – Assago Footbridge

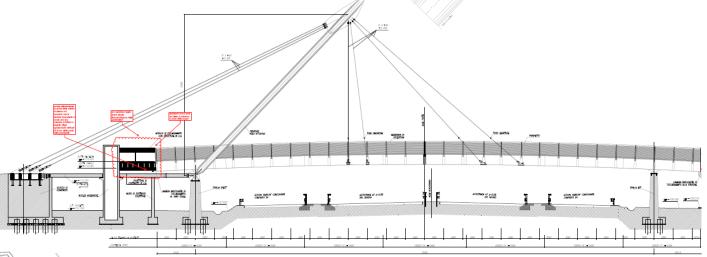








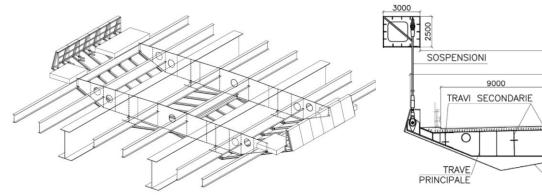


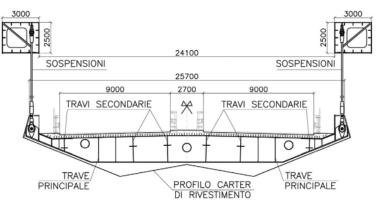


WORK DATA	
Location	Assago (ITA)
Year	2013 – 2015
Owner	LaValleVerde Srl
Client	LaValleVerde Srl
Structural Work budget	€ 500'000
Type of work	New construction
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
CHARACTERISTICS	
Туре	Pedastrian cable-stayed bridge over road
Length	73m
Width	Variable 2.5m – 5m
n° span	3
Span	6.1m - 73m – 7.6m
Main Structure	Inclined column and carrying cable system
Deck	Connected concrete slab
Substructure	Piers on piles

Milan – EXPO Bridges on the A4 and A8 motorways structures













	JUIGUUTUS	
WORK DATA		
Location	Milan (ITA)	
Year	2012	
Owner	Infrastrutture Lombarde S.p.A.	
Client	Politecnica	
Structural Work budget	€ 13'000'000	
Type of work	New construction	
STRUCTURAL DESIGN		

STRUCTURAL DESIGN	
Tender	-
Preliminary	-
Final	-
Final design cunsultant	X

CHARACTERISTICS

Substructure

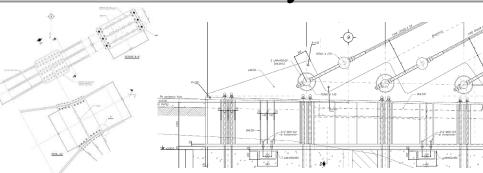
Туре	Road suspension arched bridges over road
Length	A4: 140m - A8: 90m
Width	A4: 24m - A8: 13m
n° span	A4: 1 - A8: 1
Span	A4: 114m - A8: 90m
Main Structure	Steel arches and cables
Deck	Connected concrete slab

Plinths on piles

Casalecchio – Cable-stayed Footbridge



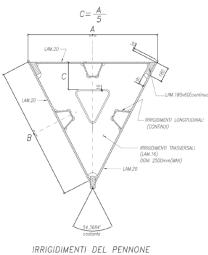








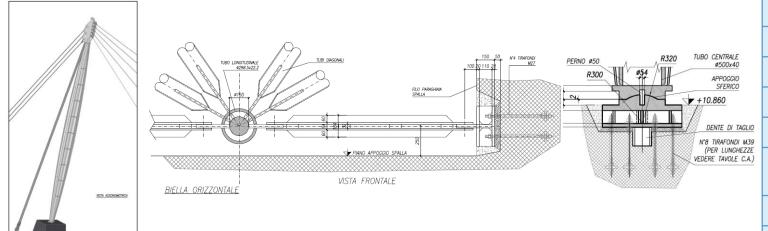


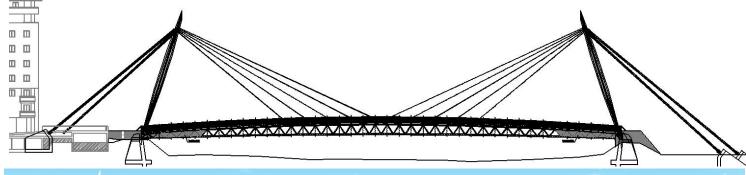


	Structures
WORK DATA	
Location	Casalecchio di Reno (ITA)
Year	2009 - 2011
Owner	Municipality of Casalecchio di Reno
Client	Municipality of Casalecchio di Reno
Structural Work budget	€ 750'000
Type of work	New construction
STRUCTURAL DESIGN	
Tender	X
Preliminary	Х
Final	Х
CHARACTERISTICS	
Туре	Pedastrian cable-stayed bridge over river route
Length	100m
Width	2.95m
n° span	2
Span	75m - 22m
Main Structure	Inclined column and carrying cable system
Deck	Spatial reticular structure
Substructure	Plinths on piles

Pesaro – Footbridge





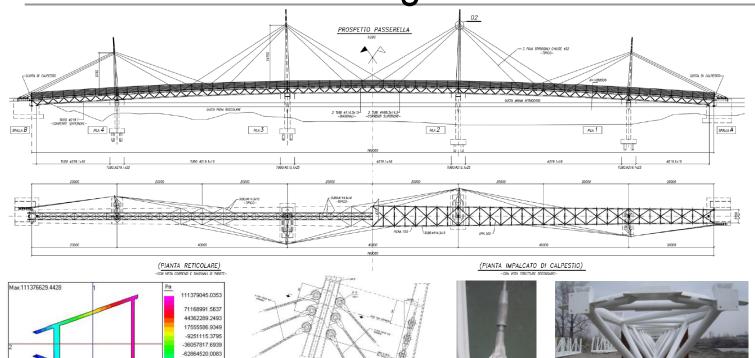


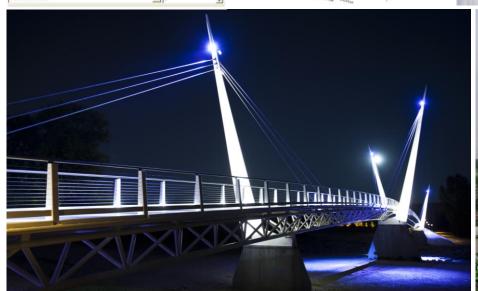


		structures
	WORK DATA	
	Location	Pesaro (ITA)
	Year	2008 – 2010
	Owner	Municipality of Pesaro
)	Client	Municipality of Pesaro
)	Structural Work budget	€ 800'000
	Type of work	New construction
	STRUCTURAL DESIGN	
	Tender	Χ
	Preliminary	X
	Final	X
	CHARACTERIS	STICS
	Туре	Pedastrian cable-stayed bridge over river route
	Length	100m
	Width	Variable from 2.5m to 5m
	n° span	1
	Span	100m
	Main Structure	Asimmetric cable-stayed structure
	Deck	Spatial reticular structure
	Substructure	Abutments (without piers in the river bed)

Sassuolo – Footbridge over Secchia River







-116477924.6371 -143284626.9515

Min:-156685032-3876

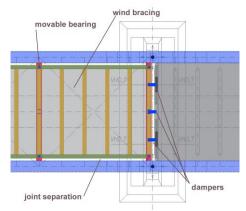


GI		structures	
	WORK DATA		
	Location	Sassuolo (ITA)	
	Year	2007 - 2009	
	Owner	Provincial Administration of Modena	
	Client	Provincial Administration of Modena	
	Structural Work budget	€ 1'020'000	
	Type of work	New construction	
	STRUCTURAL DESIGN		
	Tender	Х	
	Preliminary	X	
	Final	X	
	CHARACTERISTICS		
	Туре	Pedastrian cable-stayed bridge over river route	
	Length	160m	
	Width	Variable from 2.8m to 4.4m	
	n° span	5	
	Span	20m – 40m – 40m – 40m – 20m	
	Main Structure	4 inclined steel columns and cables	
	Deck	Spatial reticular structure	
	Substructure	Plinths on piles	

Korintos – Railway bridge









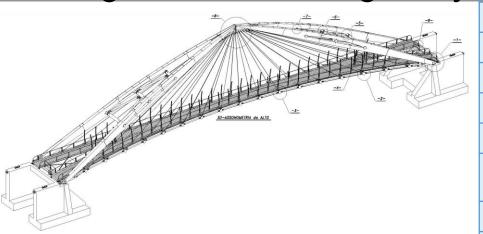


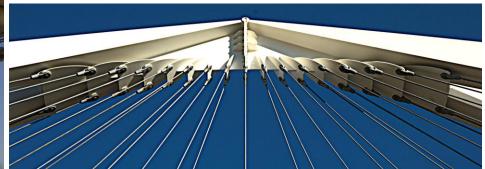
		Structures	
	WORK DATA		
	Location	Korintos (GRC)	
	Year	2007 - 2008	
	Owner	Hellenic Railways Organisation	
	Client	Hellenic Railways Organisation	
	Structural Work budget	€ 10'000'000	
	Type of work	New construction	
	STRUCTURAL DESIGN		
	Tender	-	
	Preliminary	-	
	Final	Х	
	CHARACTERISTICS		
	Туре	Railway cable-stayed bridge over road	
	Length	260m	
	Width	14.5m	
	n° span	3	
	Span	45m – 170m – 45m	
	Main Structure	Steel beams and cables	
	Deck	Mixed steel-concrete	
	Substructure	Plinths on piles	

Bologna – Footbridge over A13 Highway







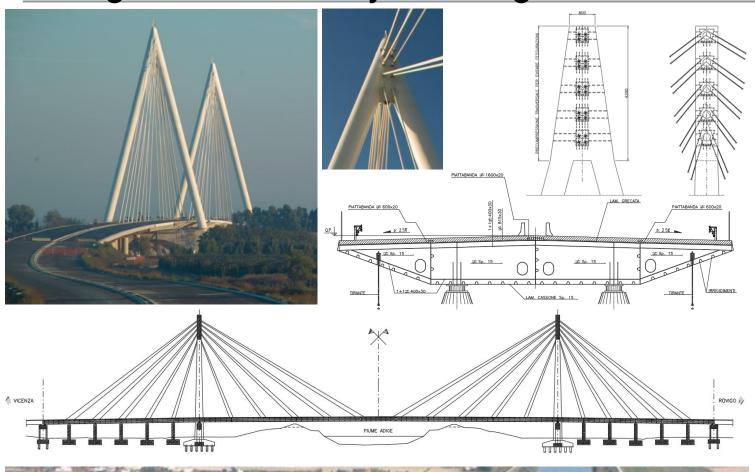




WORK DATA				
Location	Dozza (ITA)			
Year	2006 – 2009			
Owner	Municipality of Bologna			
Client	Municipality of Bologna			
Structural Work budget	€ 2'100'000			
Type of work	New construction			
STRUCTURAL	STRUCTURAL DESIGN			
Tender	X			
Preliminary	X			
Final	Х			
CHARACTERISTICS				
Туре	Pedestrian cable-stayed bridge over road			
Length	100m			
Width	3.7m			
n° span	1			
Span	100m			
Main Structure	Steel beams and cables			
Deck	Mixed steel-concrete			
Substructure	Plinths on piles			

Adige – Cable-Stayed Bridge



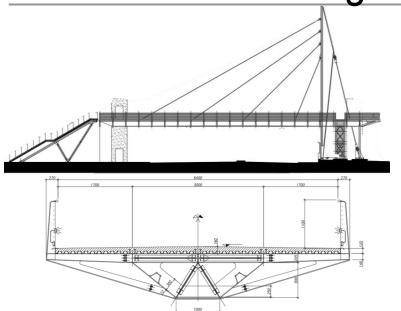




	structures	
WORK DATA		
Location	Piacenza d'Adige (ITA)	
Year	2006 – 2007	
Owner	«Autostrada Brescia Verona Vicenza Padova» joint-stock company	
Client	Technical Service Center RPA Engineering Consultans S.r.l.	
Structural Work budget	€ 30'000'000	
Type of work	New construction	
STRUCTURAL	STRUCTURAL DESIGN	
Tender	X	
Preliminary	Х	
Final	X	
CHARACTERIS	STICS	
Туре	Road cable-stayed bridge over river road	
Length	580m	
Width	29.70	
n° span	1	
Span	310m	
Main Structure	Columns and cables	
Deck	Mixed steel-concrete	
Substructure	Plinths on piles	

Athens – Footbridge





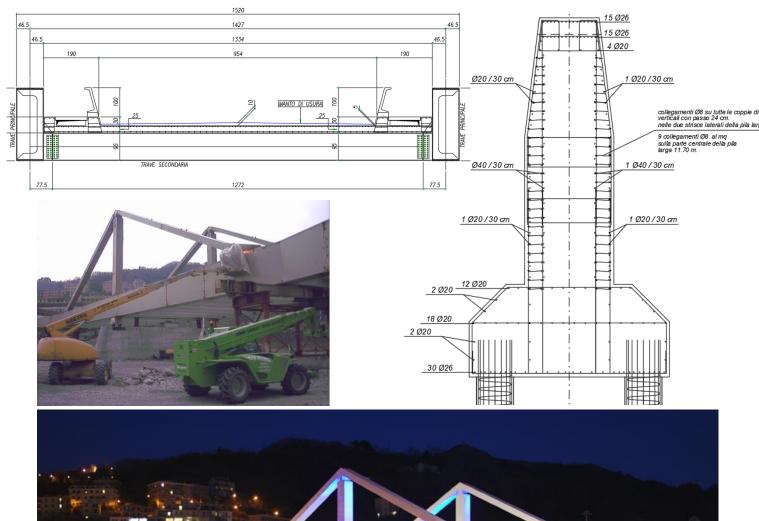




WORK DATA	
Location	Athens (GRC)
Year	2006 - 2007
Owner	Property of Piraeus Port
Client	Property of Piraeus Port
Structural Work budget	€ 1'000'000
Type of work	New construction
STRUCTURAL	DESIGN
Tender	-
Preliminary	-
Final	X
CHARACTERISTICS	
Туре	Pedestrian cable-stayed bridge over road
Length	45.5m
Width	6.4m
n° span	1
Span	45.5m
Main Structure	Column with variable section and cable-stayed
Deck	Mixed steel-concrete
Substructure	Plinths on piles

Genova – Bridge over Polcevera River

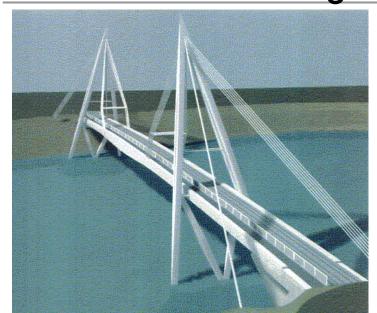




_		3 61 4 6 6 4 1 6 5
	WORK DATA	
	Location	Genova (ITA)
	Year	2005 - 2007
di	Owner	Municipality di Genova
m	Client	Municipality di Genova
	Structural Work budget	€ 2'357'504
	Type of work	New construction
	STRUCTURAL DESIGN	
	Tender	X
	Preliminary	Х
	Final	X
	CHARACTERISTICS	
	Туре	Road cable-stayed bridge over river road
	Length	110m
	Width	Variable from 15.2m to 27m
	n° span	2
	Span	54.75m – 54.75m
	Main Structure	Reinforced concrete columns and cable-stays
	Deck	Mixed steel-concrete
	Substructure	Plinths on piles

Stockholm – Bridge over Oxhalssundet fjord







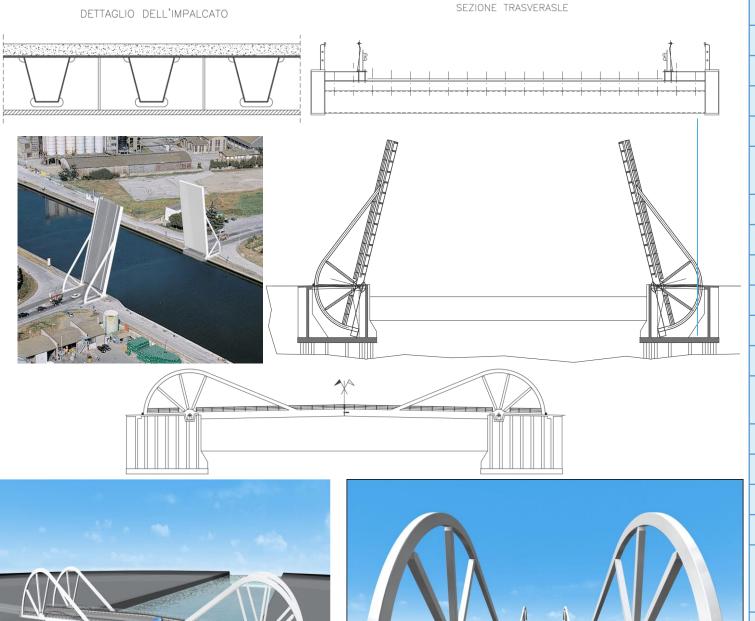




WORK DATA		
Location	Stockholm (SE)	
Year	2003 - 2004	
Owner	Swedish government	
Client	EdilCoop Scrl	
Structural Work budget	€ 10'329'137	
Type of work	New construction	
STRUCTURAL	DESIGN	
Tender	X	
Preliminary	-	
Final	-	
CHARACTERISTICS		
Туре	Railway and pedestrian cable- stayed bridge over fjord	
Length	110m	
Width	16m	
n° span	1	
Span	110m	
Main Structure	Inclined column and cables	
Deck	Mixed steel-concrete	
Substructure	Plinths on piles in river	

Ravenna – Bridge over Candiano river





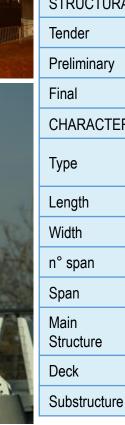
	Structures	
WORK DATA		
Location	Ravenna (ITA)	
Year	2003 - 2004	
Owner	Port Authority of Ravenna	
Client	Port Authority of Ravenna	
Structural Work budget	€ 3'100'000	
Type of work	New construction	
STRUCTURAL	STRUCTURAL DESIGN	
Tender	X	
Preliminary	-	
Final	-	
CHARACTERI	CHARACTERISTICS	
Туре	Mobile bridge for vehicles and pedestrians over river road	
Length	32m	
Width	14.5m	
n° span	1	
Span	32m	
Main Structure	Box-section beams stiffened with tie rod and three radial struts	
Deck	Mixed steel-concrete	
Substructure	Abutments on piles	

Casalecchio – Footbridge over Reno River



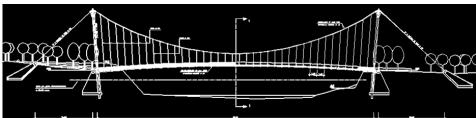






WORK DATA	
Location	Casalecchio di Reno (ITA)
Year	2002 - 2004
Owner	Municipality of Casalecchio Reno
Client	Municipality of Casalecchio Reno
Structural Work budget	€ 620'000
Type of work	New construction
STRUCTURAL DESIGN	
Tender	Х
Preliminary	Х
Final	Х
CHARACTERISTICS	
Туре	Pedestrian suspended bridg over river road
Length	157m
Width	Variable from 3.5m to 6m
n° span	1
Span	98m
Main Structure	Steel «A» columns and cab
Deck	Mixed steel-concrete

Abutments





BUILDINGS



Via Tizzano 46/2 40033 Casalecchio di Reno Bologna - Italy Partita I.V.A. 02568991208

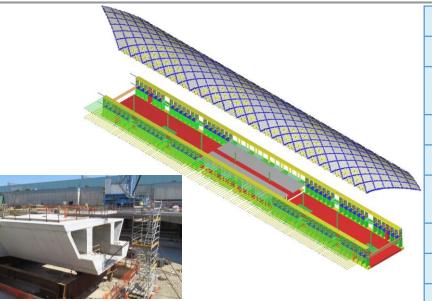


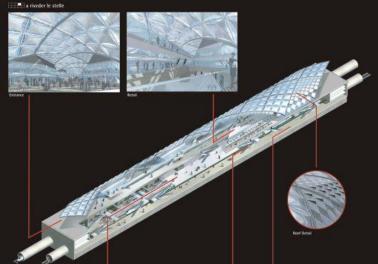
Tel. +39 051 576232 Fax. +39 051 576006 studio@majowiecki.com www.mjwstructures.com

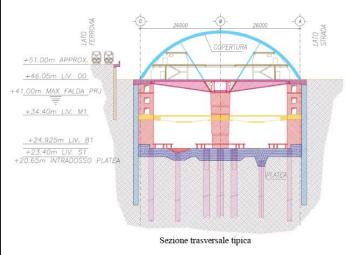
Florence – TAV











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PIANTA COPERTURA	

	WORK DATA	
	Location	Florence (ITA)
	Year	2008 - 2011, 2015 - 2016, 2020 – under construction
	Owner	RFI Rete Ferroviaria Italiana
	Client	RFI Rete Ferroviaria Italiana
A	Structural Work cost	€ 250'000'000
	Туре	New construction
	STRUCTURAL	DESIGN
	Tender	-
	Preliminary	-
	Final	Х
	CHARACTERISTICS	
	Plan Area	500m x 52m = 26'000 m ²
	Storey	2 underground + 2 above ground
	Height	16 m above ground
	Main Structure	Barrel Vault Roof with arches Diagrid (first, second e third order arches)
	Slabs	Metal sheet slabs for commercial area levels
	Foundation	Slab on piles, bulkheads and mezzain floor slab (top-down erection)

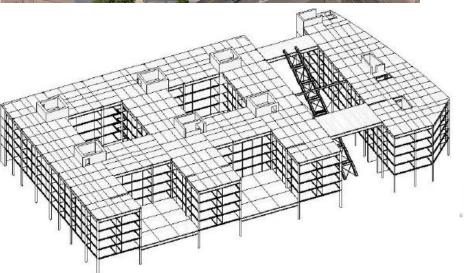
Florence – Belfiore Hall of Residence









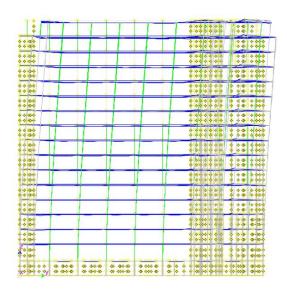


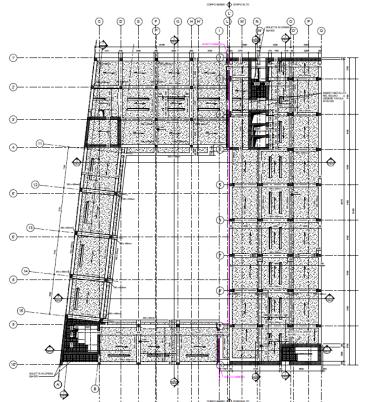


	3114614163	
WORK DATA		
Location	Florecen (ITA)	
Year	2018 - 2019	
Owner	TSH Student Hotel	
Client	TSH Student Hotel	
Structural Work cost	€ 8'000'000	
Туре	New construction	
STRUCTURAL	DESIGN	
Tender	X	
Preliminary	X	
Final	-	
CHARACTERISTICS		
Plan Area	Building A: 82x67=5494m ² Building B: 17x67=1139m ²	
Storey	4 underground + 5 above ground	
Height	13.9m underground + 24.7m above ground	
Main Structure	Concrete cores and secondary steel columns. Levels 1,2,3 and 4 are hanged to the Roof steel beams.	
Slabs	Precast precast formwork	
Foundation	Concrete Box foundation with 4 underground floors	

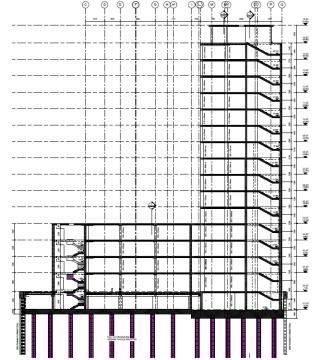
Bologna – Serlio Street Hall of Residence











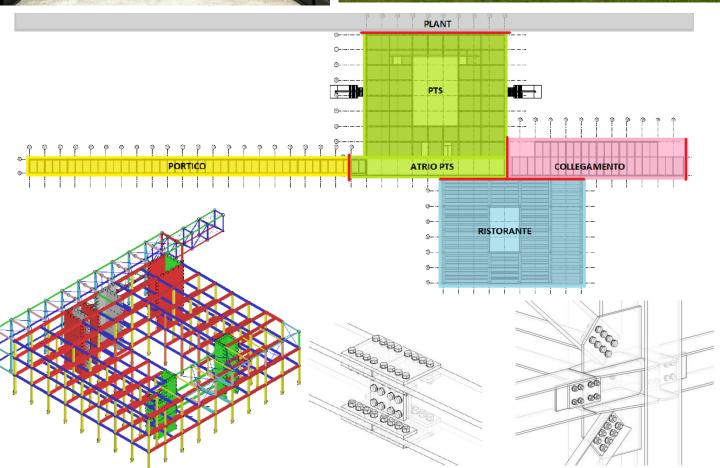
_		
	WORK DATA	
	Location	Bologna (ITA)
	Year	2018 – 2019 under construction
	Owner	Fiera 2000 s.r.l.
	Client	Open Project
	Structural Work cost	€ 6'309'000
	Туре	New construction
	STRUCTURAL	DESIGN
	Tender	X
	Preliminary	X
	Final	X
	CHARACTERISTICS	
	Plan Area	Tall building:16x53 = 848m ² Small building:30x60 = 1600m ²
	Storey	Tall building:17-Small building:5
	Height	Tall building: 52m Small building: 16.7m
	Main Structure	Concrete cores and columns. Concrete beams.
	Slabs	Precast formwork with cast in situ slab. Lowered ground floor made by precast hollow elements «Spiroll».
	Foundation	Concrete Box foundation on piles.

Calderara di Reno – Bonfiglioli Headquarter









WORK DATA	
Location	Calderara di Reno (ITA)
Year	2018 – 2021
Owner	Bonfiglioli Riduttori SpA
Client	Open Project srl
Structural Work cost	€ 4'000'000
Туре	New construction
STRUCTURAL	DESIGN
Tender	X
Preliminary	X
Final	X
CHARACTERISTICS	
Plan Area	2 000m ²
Storey	3
Height	13.1m
Main Structure	Concrete columns, cores and beams. Main atrium with steel portals.
Slabs	Concrete+masonry slabs and Metal sheet slabs for the main atrium.
Foundation	Concrete foundation slab
Additional Structures	Steel covered walkways and precast structure canteen.

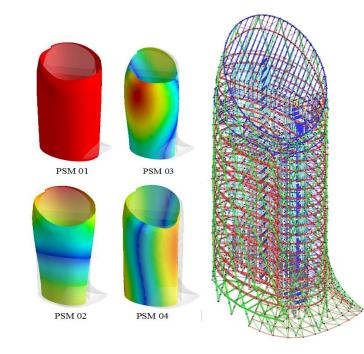
Milan – Unipol Tower











WORK DATA	
Location	Milan (ITA)
Year	2017 – 2022 under construction
Owner	UnipolSai Assurance
Client	UnipolSai Assurance
Structural Work cost	€ 32'000'000
Туре	New construction
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
DLS	X
CHARACTERISTICS	
Plan Area	Elliptic shape 52m x 31.3m Area: 1600m ²
Storey	23
Height	120 m
Main Structure	External steel Diagrid linked to the Slabs each 3 Floors. Central concrete core.
Slabs	Concrete cast in situ slabs
Foundation	Platea su pali

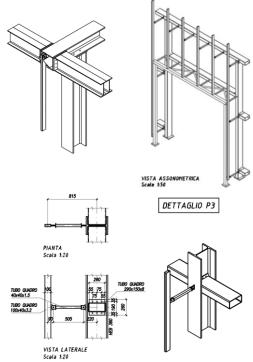
Valenza – Bulgari Headquarter











WORK DATA		
Location	Valenza (ITA)	
Year	2015 - 2017	
Owner	Bulgari SpA	
Client	Open Project Srl	
Structural Work cost	€ 3'000'000	
Туре	New construction e esistente	
STRUCTURAL	DESIGN	
Tender	X	
Preliminary	X	
Final	X	
CHARACTERISTICS		
Plan Area	91.65m x 84.38m Area: 7750m ²	
Storey	3	
Height	12 m	
Main Structure	Concrete core and columns. Facade: steel frames that hang steel panels vertical support.	
Slabs	Concrete slab over precast hollow elements or prestressed elements.	
Foundation	Concrete slabs	

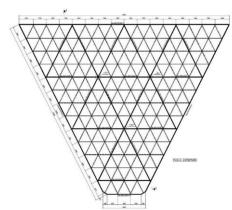
Modena – Old Hospital yard Roof











WORK DATA	
Location	Modena (ITA)
Year	2014
Owner	Fondazione Cassa di Risparmio di Modena
Client	Open Project Srl
Structural Work cost	€ 150'000
Туре	New construction
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
CHARACTERISTICS	
Plan Area	Area: 450m ²
Storey	1
Height	14m
Main Structure	Spatial steel truss supporting glass cover roof.

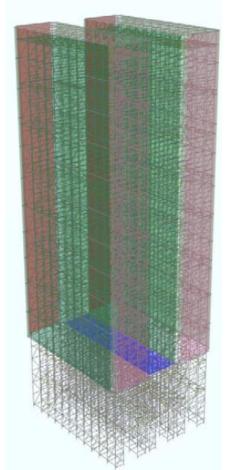


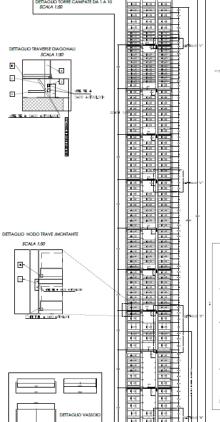
Modena – Book Towers

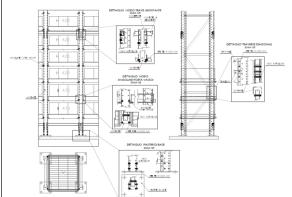










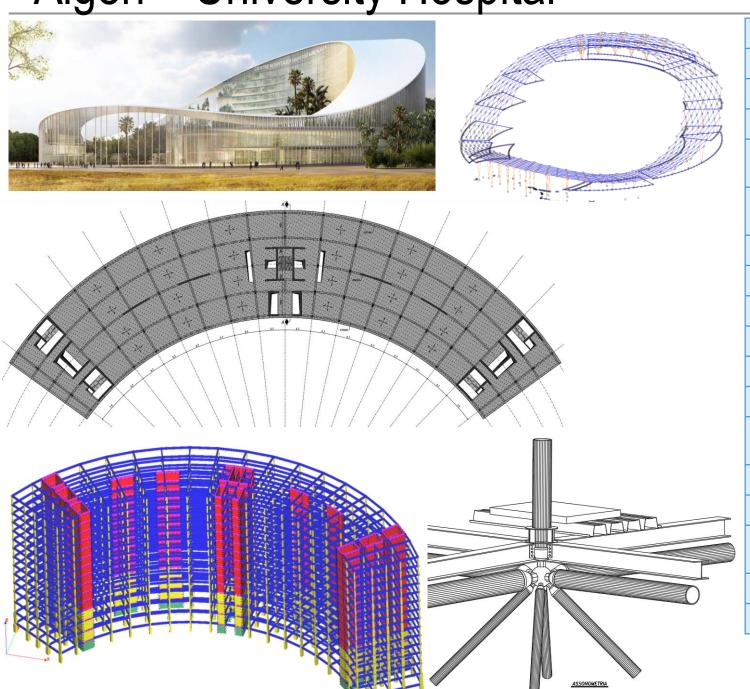


	SCAL	LA 1:50	DETTAGLIO STRUTTURE TRA LE TORRI CAMPATE DA 1 A 10
CAMPATE DA 20 A 30	DETTAGLIO STRUTTURE BASSE SOTTO TERRA CAMPATE DA 13 A 19	CAMPATE 11-12	II II
1		10 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1
# 30	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# 50	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

	WORK DATA		
	Location	Modena (ITA)	
1	Year	2014	
The second second	Owner	Fondazione Cassa di Risparmio di Modena	
	Client	Open Project Srl	
	Structural Work cost	€ 150'000	
L	Туре	New construction	
	STRUCTURAL DESIGN		
	Tender	Х	
	Preliminary	Х	
	Final	Х	
	CHARACTERISTICS		
	Plan Area	12.00m x 4.30m Area: 51.60m ²	
	Storey	10	
	Height	30.40 m	
	Main Structure	Parallel Steel frame with concentric bracing, spaced by a service corridor.	
	Foundation	Concrete slab.	

Algeri – University Hospital

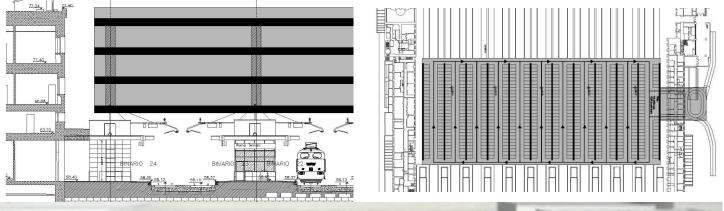




WORK DATA	
Location	Algeri (DZA)
Year	2014
Owner	San Raffaele Hospital
Client	Rizzani De Eccher and San Raffaele
Structural Work cost	€ 60'000'000
Туре	New construction
STRUCTURAL	DESIGN
Tender	X
Preliminary	-
Final	-
CHARACTERISTICS	
Total Gross Area	88'560 m ²
Storey	Bulding 1:16 Building 2 e 3: 11
Height	72 m
Main Structure	Beams and columns with isolation at ground floor.
Slabs	Lighten concrete slab
Foundation	Cocrete slab on piles

Rome – New Termini Station Parking









WORK DATA	
Location	Rome (ITA)
Year	2012 - 2018
Owner	Termini Scarl.
Client	Termini Scarl.
Structural Work cost	€ 62'000'000
Туре	New construction
STRUCTURAL	DESIGN
Tender	-
Preliminary	-
Final	X
CHARACTERIS	STICS
Total Gross Area	14'080 m²
Storey	3
Height	16 m
Main Structure	Steel beams and columns.
Slabs	Metal sheet with cast in situ slab.
Foundation	Concrete plinths with micropiles.

Milan – Lombardia City Square Roof

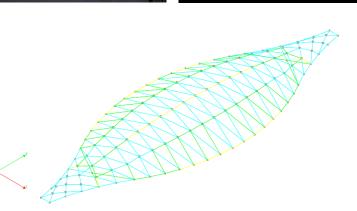


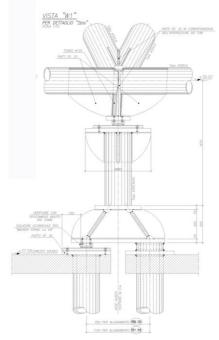










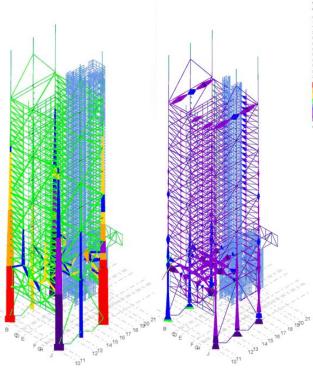


WORK DATA			
Location	Milan (ITA)		
Year	2011		
Owner	Regione Lombardia		
Client	Regione Lombardia		
Structural Work cost	€ 1'350'000		
Туре	New construction – Special Steel structures		
STRUCTURAL	STRUCTURAL DESIGN		
Tender	X		
Preliminary	X		
Final	-		
CHARACTERIS	CHARACTERISTICS		
Plan Area	Area: 3800m ²		
Storey	1		
Height	32 m		
Main Structure	Spatial monolayer steel truss, with triangular elements that support ETFE cushions.		

Turin – Intesa Sanpaolo Skyscraper





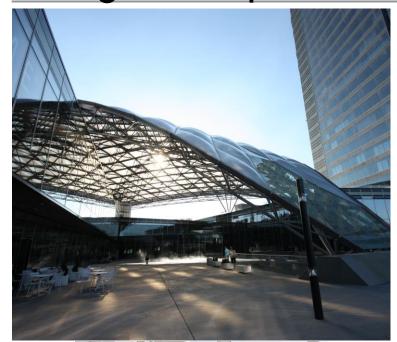




	Structures
WORK DATA	
Location	Turin (ITA)
Year	2009 – 2012
Owner	Intesa Sanpaolo
Client	Renzo Piano
Structural Work cost	€ 235'000'000
Туре	New construction
STRUCTURAL	DESIGN
Tender	-
Preliminary	-
Consultant to Final	X
CHARACTERIS	STICS
Plan Area	1750m ²
Storey	39
Height	184 m
Main Structure	Central concrete core and big steel columns along the perimeter.
Slabs	Concrete cast in situ slabs
Foundation	Variable depth concrete depth.

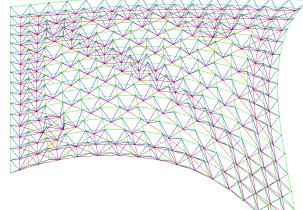
Bologna – Spatial truss cover «Sail»











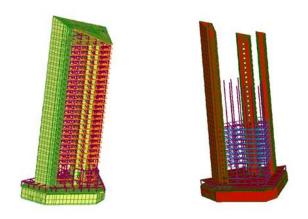
WORK DATA	WORK DATA	
Location	Bologna (ITA)	
Year	2009 – 2011	
Owner	Unifimm s.r.l.	
Client	Unifimm s.r.l.	
Structural Work cost	€ 1'200'000	
Туре	New construction	
STRUCTURAL	DESIGN	
Tender	Х	
Preliminary	Х	
Final	Х	
CHARACTERIS	STICS	
Plan Area	3'600m ²	
Storey	1	
Height	16 m	
Main Structure	Steel spatial truss with elements dimension 4m x 4m. Roof membrane with ETFE cushions under pressure.	

Bologna – Unipol Tower









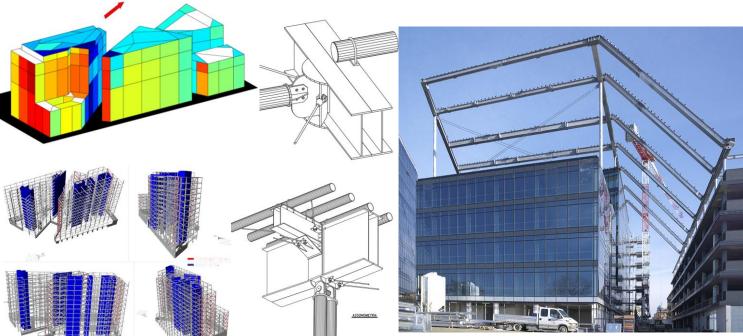
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WORK DATA		
Location	Bologna (ITA)	
Year	2006 – 2009	
Owner	Unifimm s.r.l.	
Client	Unifimm s.r.l.	
Structural Work cost	€ 62'000'000	
Туре	New construction	
STRUCTURAL	DESIGN	
Tender	X	
Preliminary	Х	
Final	X	
CHARACTERISTICS		
Plan Area	670m ²	
Storey	28 above ground, 2 underground	
Height	128 m	
Main Structure	Concrete cores. Steel columns and beams.	
Slabs	Metal sheet with cast in situ slab over two order of steel beams.	
Foundation	Concrete box foundation in c.a. on piles.	

Bologna – Municipality Headquarter









WORK DATA		
Location	Bologna (ITA)	
Year	2005 – 2008	
Owner	Bologna Municipality	
Client	Bologna Municipality	
Structural Work cost	€ 68'000'000	
Туре	New construction	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
CHARACTERISTICS		
Plan Area	8385m ²	
Storey	Buildings A e B: 12 Building C: 10 Building 3: 8	
Height	Respectively 48, 48, 38 e 16 m	
Main Structure	Concrete cores, steel beams and columns.	
Slabs	Precast formwork with cast in situ slab.	
Foundation	Buildings A and B: concrete slab on piles Buildings C e D: concrete slab	

Rome – High Speed Station «Tiburtina»





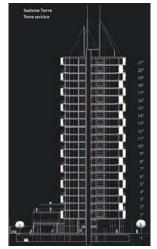
Rome (ITA)
2005 – 2008
Ferrovie dello Stato Italiane
Ferrovie dello Stato Italiane
€ 158'000'000
New construction
DESIGN
X
X
Х
STICS
17'680 m²
2
26m
Spatial steel truss that hang below structure and it is supported by 20 steel columns
Steel grid supported by steel columns
Existing Piles Foundations

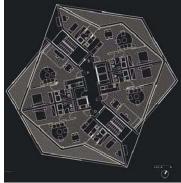
Jesolo – Aquileia Tower











WORK DATA	
Location	Jesolo (ITA)
Year	2004 – 2009
Owner	Boldrin SpA
Client	Boldrin SpA
Structural Work cost	€ 45'000'000
Туре	New construction
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
CHARACTERISTICS	
Plan Area	756m ²
Storey	22
Height	73 m
Main Structure	Concrete cores
Slabs	Concrete cast in situ slab
Foundation	Concrete slab on piles

Urbino – Observatory









	J LT U C L U T C J	
WORK DATA		
Location	Urbino (ITA)	
Year	1998 - 2005	
Owner	Comune di Urbino	
Client	Comune di Urbino	
Work cost	€ 6'713'940,00	
Туре	New construction	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
CHARACTERISTICS		
Plan Area	245m ²	
Storey	Concrete building: 3 Steel building: 3	
Height	Concrete building: 8 m Steel building: 8 m	
Main Structure	Concrete cores	
Slabs	Concrete cast in situ slabs and metal sheet with concrete cast in situ slabs.	
Foundation	Cast in situ slabs with micropiles and support walls with ties.	

INDOOR STADIUMS



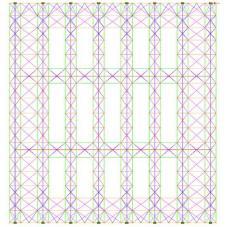
Via Tizzano 46/2 40033 Casalecchio di Reno Bologna - Italy Partita I.V.A. 02568991208

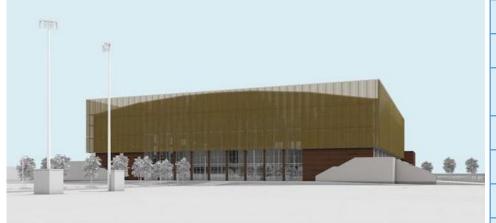


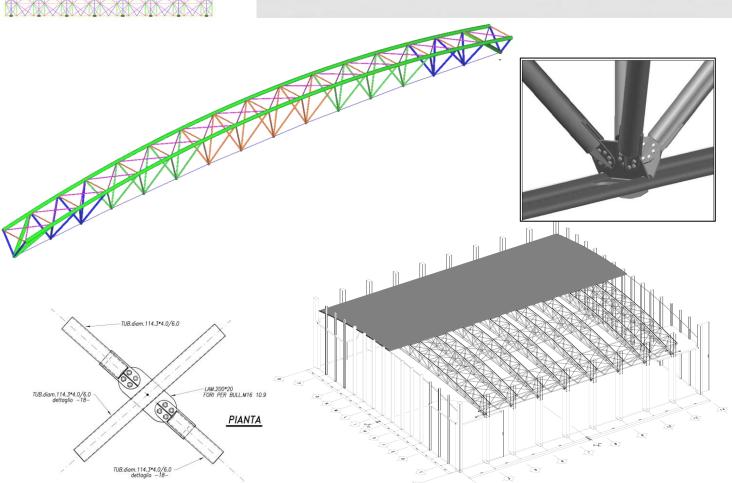
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Ravenna – New Multi-purpose Arena





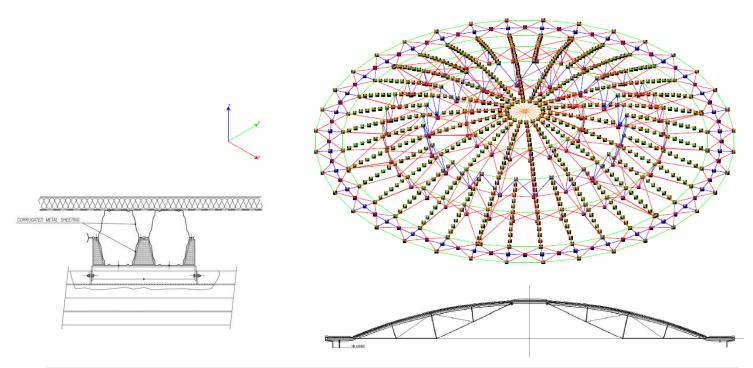


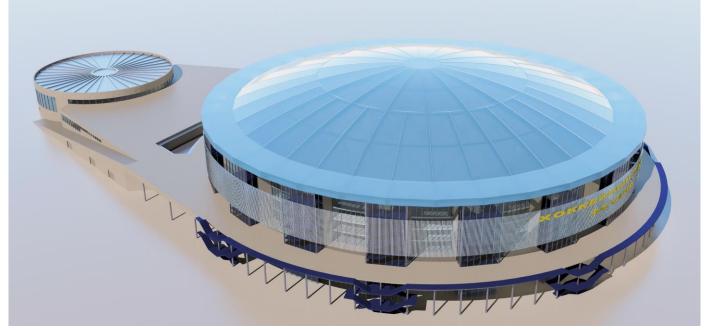


	0 0 0 0 0 0 0 0 0 0	
WORK DATA		
Location	Ravenna (ITA)	
Year	2019 – 2022 under construction	
Owner	Ravenna Municipality	
Client	Ravenna Municipality	
Seats	6'000	
Work budget	€ 7'000'000	
Purpose	Multi-purpose (theatre, concerts, international sport events, exhibition events)	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
DLS		
CHARACTERI	STICS	
Covered Area	7'200m²	
Plan	80m x 90m	
Roof	Steel trusses with 79m span, each 10m	
Roof Cover	Corrugated metal sheet	

Astana – Arena Hockey Stadium







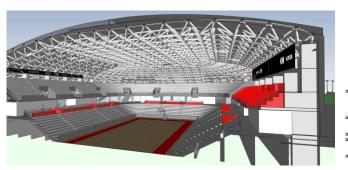
3114614163
Astana (KZ)
2012 - 2013
National Society Kazakhstan temir zholy
National Society Kazakhstan temir zholy
9'500
€ 7'700'000
Hockey Arena, school and hotel.
DESIGN
X
X
X
STICS
18'000m ²
Circle with 150m diameter
Tied dome with radial cable- beams system
2 layers of corrugated metal sheets.

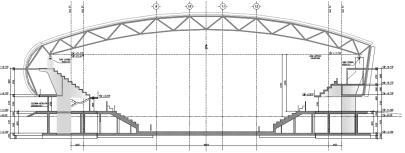
Milan – Palalido



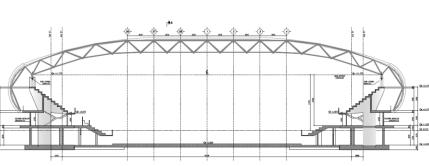












WORK DATA			
Location	Milan (ITA)		
Year	2011		
Owner	Milan Sport		
Client	Studio Teco		
Seats	5'420		
Work budget	€ 18'000'000		
Purpose	Palazzetto dello sport		
STRUCTURAL	STRUCTURAL DESIGN		
Tender	X		
Preliminary	X		
Final	-		
CHARACTERI	STICS		
Covered Area	5'500m2		
Plan	65.63m x 83.22m		
Roof	Two layers spatial steel truss with rectangular mesh.		
Roof Cover	Corrugated metal sheet		

Musile di Piave – New Gym Roof









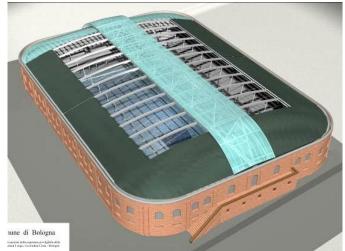


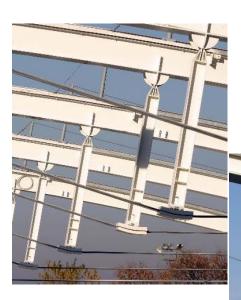
WORK DATA		
Location	Musile di Piave (ITA)	
Year	2004 - 2006	
Owner	Musile di Piave Municipality	
Client	Interstudio	
Seats	-	
Work budget	€ 600'000	
Purpose	School Gym	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
DLS		
CHARACTERI	STICS	
Covered Area	926m²	
Plan	37.6m x 24.624m	
Roof	Planar steel frames shaped according to architectural design. Concrete slab foundation.	
Roof Cover	Corrugated metal sheet	

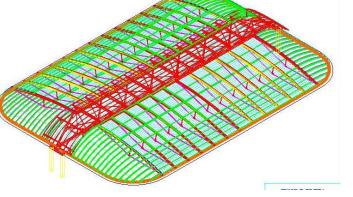
Bologna – Carmen Longo Swimmingpool









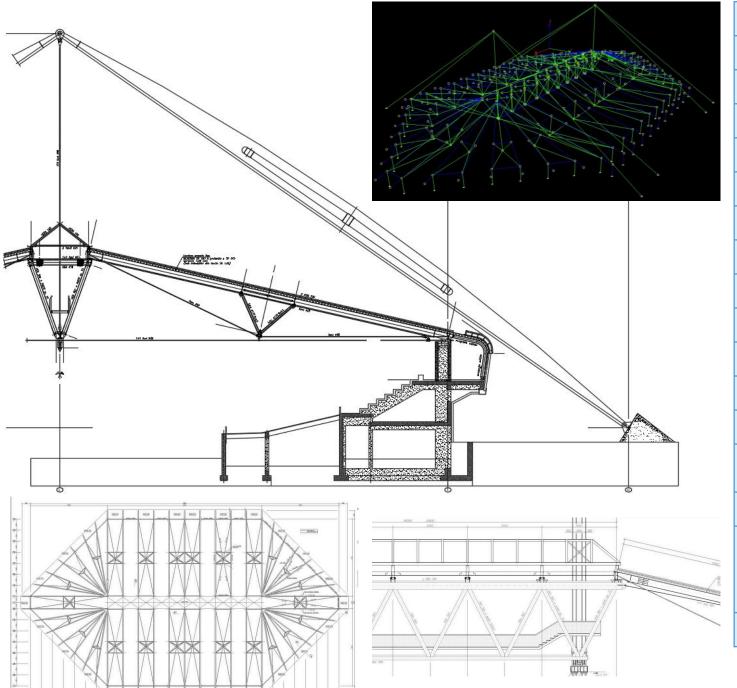




WORK DATA			
Location	Bologna (ITA)		
Year	2003 - 2004		
Owner	Bologna Municipality		
Client	Bologna Municipality		
Seats	1'200		
Work budget	€ 7'000'000		
Purpose	Swimmingpool		
STRUCTURAL DESIGN			
Tender	X		
Preliminary	X		
Final	X		
CHARACTERI	CHARACTERISTICS		
Covered Area	3'500m ²		
Plan	70.0m x 50.8m		
Roof	Main longitudinal spatial steel truss and transversal hybrid string beams		
Roof Cover	Roof made by fixed and movable panels		

Treviso – Velodrome





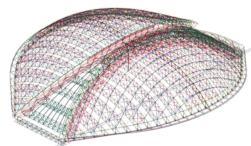
WORK DATA	
Location	Treviso (ITA)
Year	1999
Owner	CONI
Client	CONI
Seats	6'000
Work budget	€ 10'330'000
Purpose	Velodrome
STRUCTURAL	_ DESIGN
Tender	X
Preliminary	X
Final	X
CHARACTERI	STICS
Covered Area	8'050m ²
Plan	125m x 64.40m
Roof	Longitudinal spatial steel truss hanged by two pylons and a transversal system of reinforced trusses.
Roof Cover	Corrugated metal sheet

Pesaro – Adriatic Arena



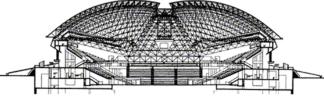








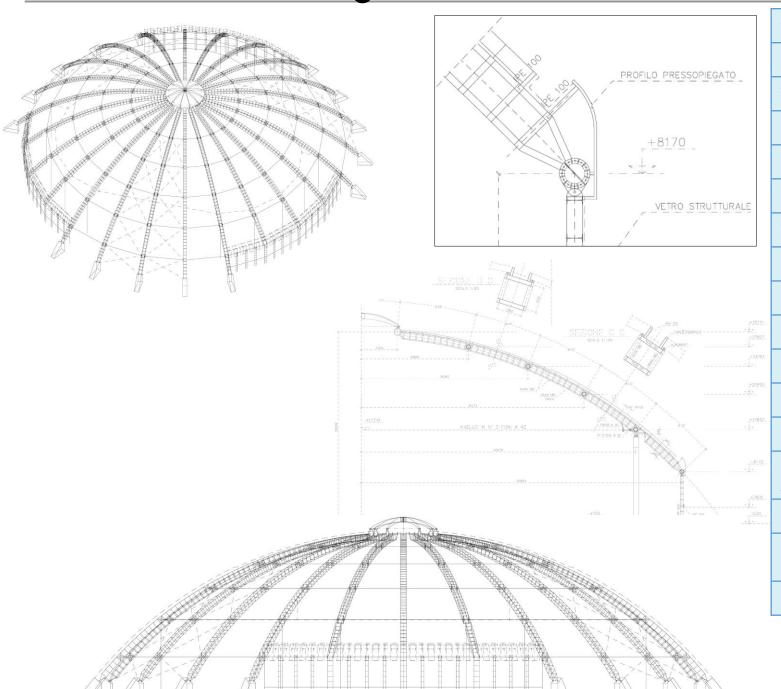




	structures	
WORK DATA		
Location	Pesaro (ITA)	
Year	1997 - 1999	
Owner	Pesaro Municipality	
Client	Pesaro Municipality	
Seats	10'323	
Work budget	€ 22'210'000	
Purpose	Multipurpose (sports and concerts)	
STRUCTURAL	STRUCTURAL DESIGN	
Tender	X	
Preliminary	X	
Final	X	
CHARACTERI	STICS	
Covered Area	12'000m ²	
Plan	120.0m x 105.2m	
Roof	Central spatial truss steel arch. Transversal beams made by 2 arches with the same radius. Stabilizing cables at the extrados of the beams.	
Roof Cover	Corrugated metal sheet and prestressed membrane.	
	Location Year Owner Client Seats Work budget Purpose STRUCTURAL Tender Preliminary Final CHARACTERI Covered Area Plan Roof	

Livorno – Modigliani Forum

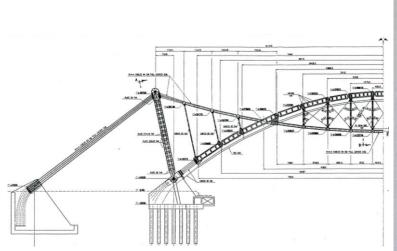


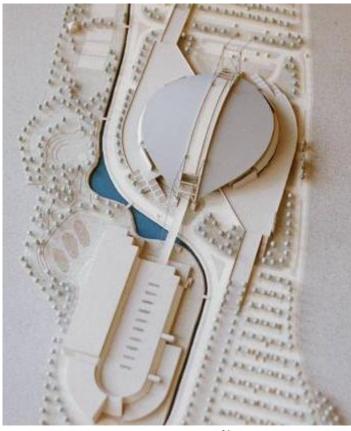


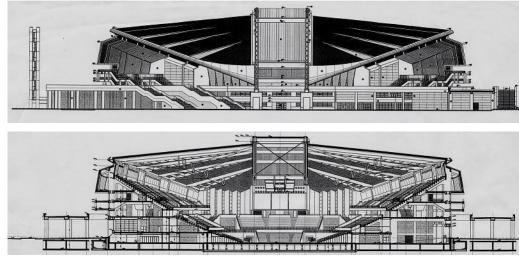
		3 01 4 0 0 4 1 0 3
	WORK DATA	
	Location	Livorno (ITA)
	Year	1997
	Owner	Comune di Livorno
	Client	Comune di Livorno
	Seats	8'033
	Work budget	€ 5'580'000
	Purpose	Multipurpose
	STRUCTURAL DESIGN	
	Tender	X
	Preliminary	-
-	Final	-
E.	CHARACTERI	STICS
	Covered Area	10'000m ²
	Plan	Circle with 70m radius
	Roof	Steel arches with a prestressed cable ring.
	Roof Cover	Corrugated metal sheet

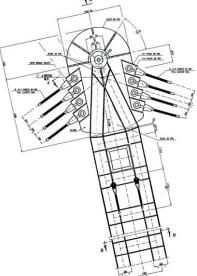
Thessaloniki –Thermis Olympic Complex











WORK DATA	
Location	Thessaloniki (GRC)
Year	1995
Owner	G.G.A.
Client	G.G.A.
Seats	10'000
Work budget	€ 129'120'000
Purpose	Sport and training arena
STRUCTURAL DESIGN	
Tender	Χ
Preliminary	Χ
Final	Χ
CHARACTERI	STICS
Covered Area	16'000m ²
Plan	Circolare di raggio 68m
Roof	Sport Hall: Longitudinal system with prestressed beams and cables; Training Hall: two leyers steel truss supported with cables.
Roof Cover	Corrugated metal sheet

Ravenna – Pala De Andrè















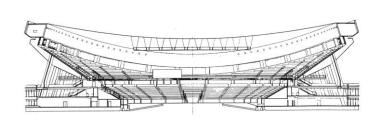
WORK DATA	
Location	Ravenna (ITA)
Year	1991
Owner	Comune di Ravenna
Client	Ferruzzi SpA
Seats	3'320
Work budget	€ 3'620'000
Purpose	Multipurpose (sports and concerts)
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	X
CHARACTERI	STICS
Covered Area	1'090m²
Plan	33m x 33m
Roof	Two leyers spatial steel truss, defined by 4 crossed cylindrical surfaces.
Roof Cover	PTFE Membrane

Athens – Peace and Friendship Stadium











WORK DATA		
Location	Athens (GRC)	
Year	1983 - 1987	
Owner	Greek Governement	
Client	Athletic General Secretary	
Seats	15'000	
Work budget	€ 3'000'000	
Purpose	Sport Arena	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	X	
Final	X	
CHARACTERISTICS		
Covered Area	10 ² 07m ²	
Plan	Circle with 114m diameter	
Roof	Cable net with orthogonal mesh and saddle surface with a total negative curvature and a prestressed concrete ring.	
Roof Cover	Membrane	

EXHIBITION HALLS



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Bologna – Exhibition Hall 37













WORK DATA	
Location	Bologna (ITA)
Year	2018-2021
Owner	Bologna Fiere SpA
Client	Bologna Fiere SpA
Structural Work cost	€ 14'000'000
Туре	Exhibition hall
STRUCTURAL	DESIGN
Tender	X
Preliminary	X
Final	X
CHARACTERIS	STICS
Covered Area	15'000m ²
Plan	80.8m x 184m
Floors	Piano Terra - Roof
Steel structures	Retractable roof made up of variable section twin-sided truss beam
Concrete structures	Reinforced concrete core
Additional Structures	Corpo est (2-storey steel structure) Mall (2-storey steel structure)

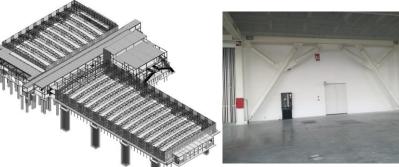
Bologna – Exhibition Halls 29 and 30









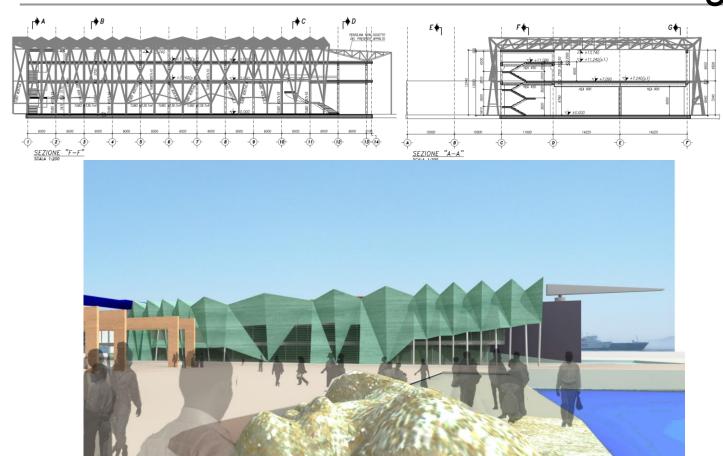


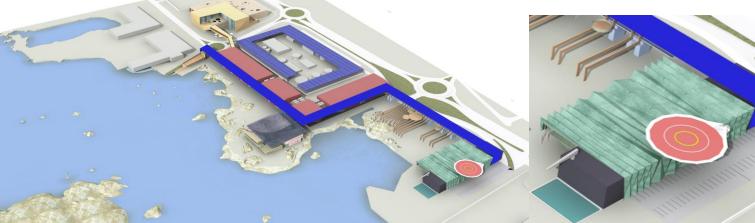


WORK DATA	
Location	Bologna (ITA)
Year	2017 - 2018
Owner	Bologna Fiere SpA
Client	Bologna Fiere SpA
Structural Work cost	€ 33'000'000
Туре	Exhibition hall
STRUCTURAL	DESIGN
Tender	X
Preliminary	X
Final	-
CHARACTERIS	STICS
Covered Area	7'740m ² 14'050m ²
Plan	68.8m x 112.50m 81.20m x 173m
Floors	Ground floor - Roof
Steel structures	Roof made up of truss beam
Concrete structures	Reinforced concrete core
Additional Structures	Multi-purpose building (2-storey steel structure) «Mall» (2-storey steel structure)

Olbia – Business incubator technology park



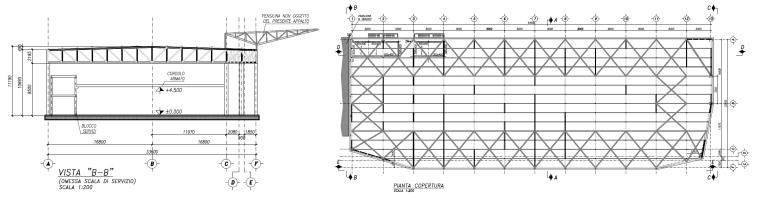




Olbia (ITA)	
2013 - 2015	
North East Sardinia Provincial Industrial Consortium – Gallura	
Open Project srl	
€ 300'000	
Multifunctional center serving the nautical district North East Sardinia	
STRUCTURAL DESIGN	
X	
Х	
- X	
X - STICS	
-	
- STICS	
- STICS 7'740m ²	
- STICS 7'740m ² 39.45m x 73.1m	

Olbia – Exhibition Hall 3







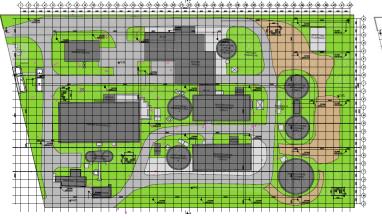


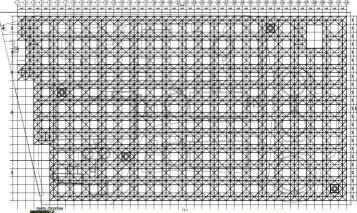


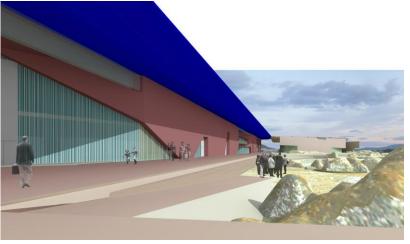
		3114614163
	WORK DATA	
	Location	Olbia (ITA)
	Year	2013 - 2015
	Owner	North East Sardinia Provincial Industrial Consortium – Gallura
	Client	Open Project srl
	Structural Work cost	€ 1'300'000
	Туре	Exhibition and shopping hall
	STRUCTURAL DESIGN	
	Tender	X
	Preliminary	X
	Final	-
	CHARACTERISTICS	
	Covered Area	3'180m ²
	Plan	94.6m x 33.6m
	Floors	Ground floor - Roof
	Steel structures	Plane frame structures roof
K	Concrete structures	Concrete columns

Olbia – Area of purifier roof

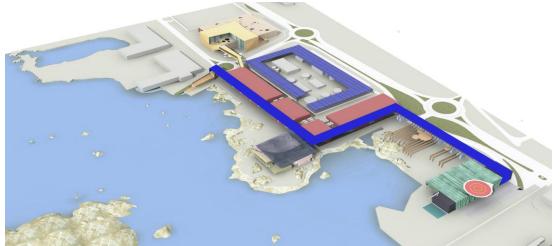












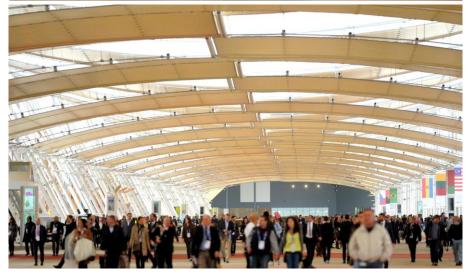
WORK DATA	
Location	Olbia (ITA)
Year	2013 - 2015
Owner	North East Sardinia Provincial Industrial Consortium – Gallura – Gallura
Client	Open Project srl
Structural Work cost	€ 2'400'000
Туре	Area roof
STRUCTURAL DESIGN	
Tender	X
Preliminary	X
Final	-
CHARACTERIS	STICS
Covered Area	15'088m²
Plan	92m x 164m
Floors	Ground floor - Roof
Steel structures	Space frame and purlins that support photovoltaic systems

Milan – EXPO 2015 Pedestrian Paths Cover















WORK DATA	
Location	Milan (ITA)
Year	2012 - 2015
Owner	Metropolitana Milanese SpA
Client	Metropolitana Milanese SpA
Structural Work cost	€ 22'000'000
Туре	Footpaths coverage
STRUCTURAL	DESIGN
Tender	X
Preliminary	X
Final	X
CHARACTERISTICS	
Covered Area	7'740m²
Plan	81.20m x 173m
Floors	Ground floor - Roof
Steel structures	Opposed ropes tensile structure Pre-stressed membrane roof Vertical anchorage structures
Concrete structures	Foundation plinths

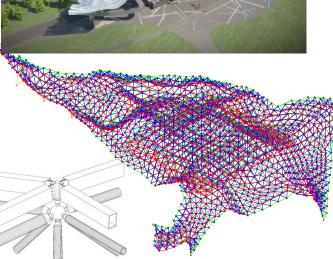
Milan – Milan Exhibition «Comet»









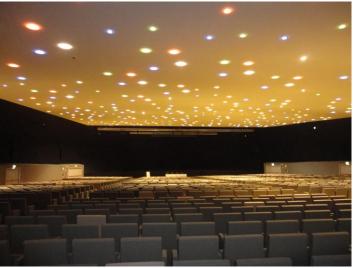


WORK DATA		
Location	Milan (ITA)	
Year	2008 - 2010	
Owner	Ente Sistema Fiera Milan	
Client	Ente Sistema Fiera Milan	
Structural Work cost	€ 18'000'000	
Туре	Multipurpose area roof	
STRUCTURAL	STRUCTURAL DESIGN	
Tender	-	
Preliminary	-	
Final	X	
CHARACTERISTICS		
Covered Area	15'000m²	
Plan	200m x 140m	
Floors	-	
Steel structures	Double-layered space frame that support a covering layer made up of anodized aluminum micro-perforate panels	
Concrete structures	-	

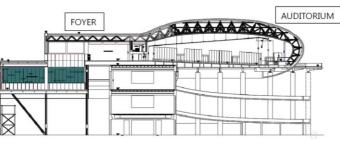
Milan – Milan Exhibition - Auditorium









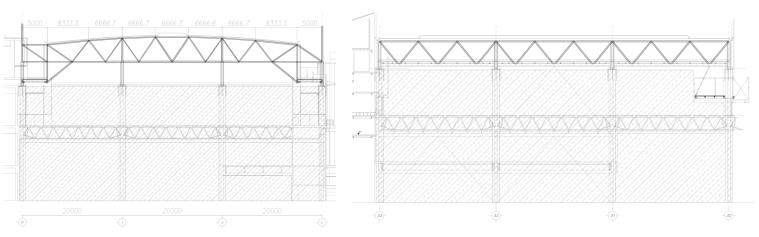




	Structures	
WORK DATA		
Location	Milan (ITA)	
Year	2008 - 2010	
Owner	Ente Sistema Fiera Milan	
Client	Ente Sistema Fiera Milan	
Structural Work cost	€ 19'000'000	
Туре	Auditorium (1'500 Seats)	
STRUCTURAL DESIGN		
Tender	-	
Preliminary	-	
Final	Х	
CHARACTERISTICS		
Covered Area	4'000m²	
Plan	97m x 48.6m	
Floors	Auditorium - Roof	
Steel structures	Space frame edge that support the slab. Space frame roof covered with bent perforated sheet supported by steel columns hinged to existing concrete columns	
Concrete structures	Predalles concrete slab with reinforced concrete slab	

Milan – Milan Exhibition – Plenary hall





	3 01 4 0 0 4 1 0 3
WORK DATA	
Location	Milan (ITA)
Year	2008 - 2010
Owner	Ente Sistema Fiera Milan
Client	Ente Sistema Fiera Milan
Structural Work cost	€ 13'000'000
Туре	Plenary hall
STRUCTURAL DESIGN	
Tender	-
Preliminary	-
Final	X
CHARACTERISTICS	
Covered Area	3'600m²
Plan	60.0m x 60.0m
Floors	-

Steel space frame and steel

concrete columns

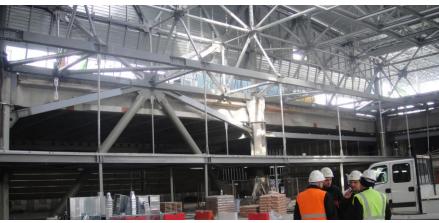
columns to extend the existing

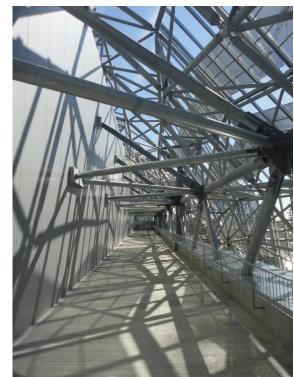
Steel

structures

Concrete structures

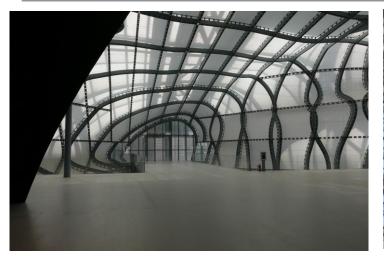






Rome – EUR Convention Center – The Cloud Structures

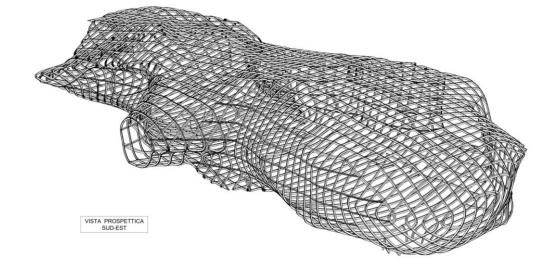












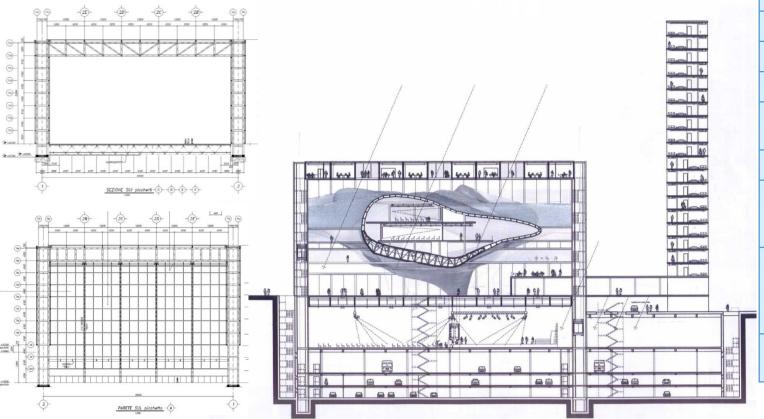
	3010000103
WORK DATA	
Location	Rome (ITA)
Year	2008 - 2010
Owner	EUR SpA
Client	EUR SpA
Structural Work cost	€ 9'600'000
Туре	Auditorium (1'800 Seats)
STRUCTURAL	DESIGN
Tender	X
Preliminary	Х
Final	X
CHARACTERISTICS	
Covered Area	-
Plan	Highly irregular
Floors	1
Steel structures	Plane frame at the bottom and double-layered space frame at the top. Single layered sheel structure, which is the casing
Concrete structures	Support columns

Rome – EUR Convention Center – The Theca Structures





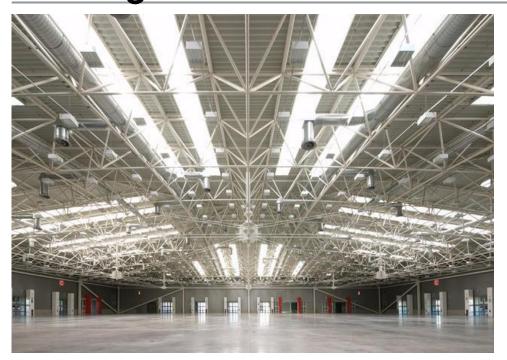




WORK DATA		
Location	Rome (ITA)	
Year	2008 - 2010	
Owner	EUR SpA	
Client	EUR SpA	
Structural Work cost	€ 23'400'000	
Туре	Convention Center	
STRUCTURAL	DESIGN	
Tender	X	
Preliminary	X	
Final	X	
CHARACTERISTICS		
Covered Area	12'250m ²	
Plan	70m x 175m	
Floors	Ground floor - Roof Inside there are substructures (The Cloud)	
Steel structures	Frames (Vierendeel columns and space frames crosspieces) span 66m and height 39m, spacing 33m	
Concrete structures	Concrete columns and walls that support the frames	

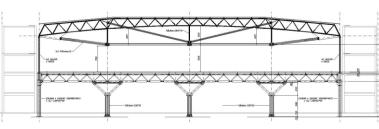
Bologna – 14 and 15 Exhibition Halls













_		311 4 2 1 4 1 2 3
	WORK DATA	
	Location	Bologna (ITA)
	Year	2006 - 2008
	Owner	Bologna Fiere SpA
	Client	Bologna Fiere SpA
	Structural Work cost	€ 55'500'000
	Туре	Exhibition hall
	STRUCTURAL DESIGN	
	Tender	X
	Preliminary	X
	Final	X
	CHARACTERISTICS	
	Covered Area	8'420m ²
	Plan	88.00m x 95.70m
	Floors	Grounf floor – Desk at 12.00m – Roof
	Steel structures	Plane frames that support the desk at +12.00m, all supported by steel columns. Space frame roof
	Concrete structures	Pile caps
	Additional Structures	4 three-storey buildings housings tecnichal areas

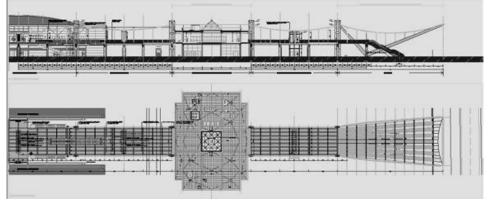
Rome – Exhibition – The Sails

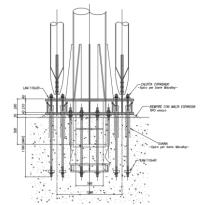












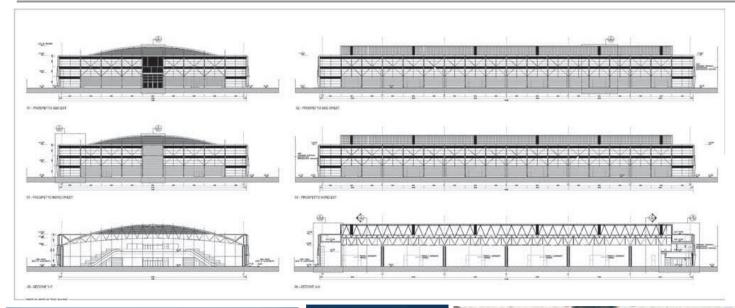
WORK DATA	
Location	Rome (ITA)
Year	2005 - 2006
Owner	Fiera di Rome SpA
Client	Lamaro Appalti
Structural Work cost	€ 131'000'000
Туре	Inox Steel Suspended roof as cover for the walkway between the two adjacent exhibition halls.
STRUCTURAL DESIGN	

ı	OTTOOTOTVIL DEGIGIT	
	Tender	X
	Preliminary	X
	Final	X

	CHARACTERISTICS	
	Covered Area	19'000m ²
	Plan	10m x 1900m
	Floors	Ground floor – Roof
	Steel structures	Tensile structure made up of stainless steel strips and supported by steel stands, also the structure is stabilized by steel tubes
	Concrete structures	Pylons support edge beams and predalles slabs

Rome – Exhibition – Exhibition Halls



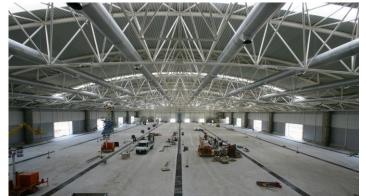












	3114614163
WORK DATA	
Location	Rome (ITA)
Year	2005 - 2006
Owner	Fiera di Rome SpA
Client	Lamaro Appalti
Structural Work cost	€ 131'000'000
Туре	Exhibition halls
STRUCTURAL	DESIGN
Tender	X
Preliminary	X
Final	X
CHARACTERISTICS	
Covered Area	186'000m² tot.
Plan	72,60m x var. (72.60-114.60m)
Floors	Ground floor - Roof
Steel structures	On-board space truss beams and trasverse. Corrugated sheets roof. Foundations made up of steel driven piles.
Concrete structures	Concrete columns spaced 24m
	Location Year Owner Client Structural Work cost Type STRUCTURAL Tender Preliminary Final CHARACTERIS Covered Area Plan Floors Steel structures Concrete

Bologna – Exhibition Halls 21 and 24 connection structures











WORK DATA	
Location	Bologna (ITA)
Year	2004 - 2005
Owner	Finanziaria Bologna Metropolitana
Client	Finanziaria Bologna Metropolitana
Structural Work cost	€ 4'000'000
Туре	Exhibition Halls connection
STRUCTURAL	DESIGN
Tender	X
Preliminary	X
Final	X
CHARACTERISTICS	
Covered Area	1'188m²
Plan	88.0m x 13.50m
Floors	Slbab at +6.00m level - Roof
Steel structures	Two longitudinal steel truss supported by 4+4 steel columns filled by concrete.
Concrete structures	Concrete plynths on piles.



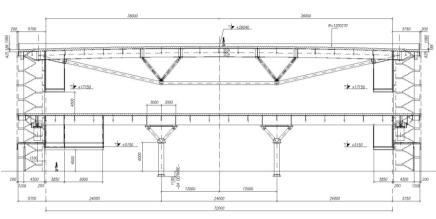
Bologna – Exhibition Hall 16-18

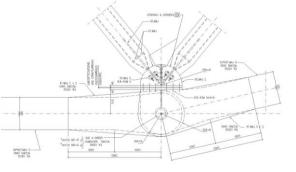








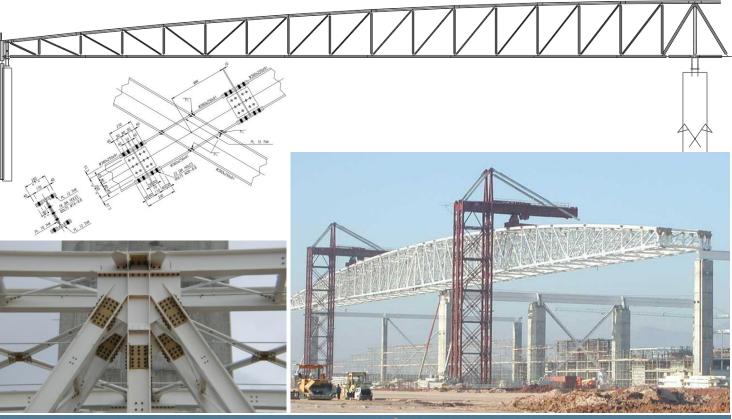




WORK DATA	
Location	Bologna (ITA)
Year	2003 - 2004
Owner	Bologna Fiere SpA
Client	Bologna Fiere SpA
Structural Work cost	€ 35'000'000
Туре	Exhibition Hall
STRUCTURAL	DESIGN
Tender	X
Preliminary	Х
Final	X
CHARACTERISTICS	
Covered Area	14'435m²
Plan	83.8m x 112m
Floors	2
Steel structures	Main level beams and Prestressed reinforced steel beams roof.
Concrete structures	Concrete main towers/columns
Additional Structures	Buildings A and B for office services and plant rooms.

Athens – Olympic Airways Hangar







		Structures
	WORK DATA	
	Location	Athens (GRC)
, "	Year	2000 - 2001
	Owner	Olympic Airways
	Client	Tecnodomiki
	Structural Work cost	€ 20'000'000
	Туре	Airport Hangar
	STRUCTURAL DESIGN	
	Tender	X
	Preliminary	X
	Final	X
612	CHARACTERISTICS	
	Covered Area	25'500m ²
_	Plan	85m x 300m
∇	Floors	1
	Steel structures	10 roof steel trusses 300m length and trasversal rectangular steel box beams
	Concrete structures	Rectangular concrete columns.
£	Additional Structures	-

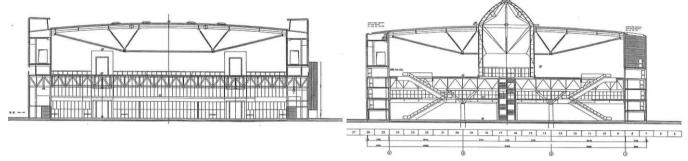
Bologna – Exhibition Hall 19-20











	structures
WORK DATA	
Location	Bologna (ITA)
Year	1995 - 1996
Owner	Bologna Fiere SpA
Client	Bologna Fiere SpA
Structural Work cost	€ 28'405'129
Туре	Exhibition Hall
STRUCTURAL DESIGN	
Tender	Х
Preliminary	Х
Final	Y

,	
Final	X
CHARACTERIS	STICS
Covered Area	13'680m²
Plan	76m x 180m
Floors	Ground Floor – Floor at +11.50m level – Roof
Steel structures	Coupled steel trusses supporting +11.50m deck. Prestressed reinforced spatial steel roof trusses, with reiforced secondary steel beams and Corrugated metal sheet cover. Teflon and glass dome.

Main concrete cores on piles.

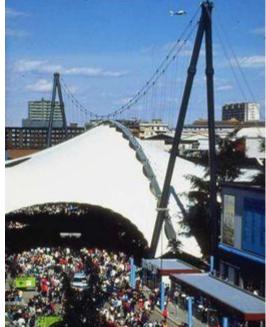
Concrete

structures

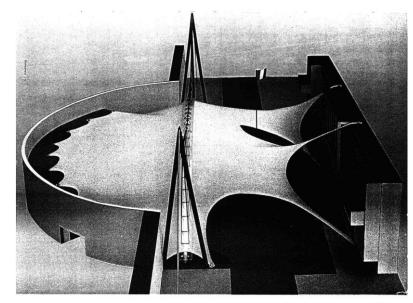
Milan – Piazza Italia Roof Cover













WORK DATA		
Location	Milan (ITA)	
Year	1986-1988	
Owner	Fiera di Milan	
Client	Fiera di Milan	
Structural Work cost	€ 1'500'000	
Туре	Tensile Structure	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	Х	
Final	X	
CHARACTERISTICS		
Covered Area	6'000m ²	
Plan	80m x 105m	
Floors	Ground Floor –Roof	
Steel structures	Tensile Structure	
Roof	Membrane	

HISTORICAL BUILDINGS



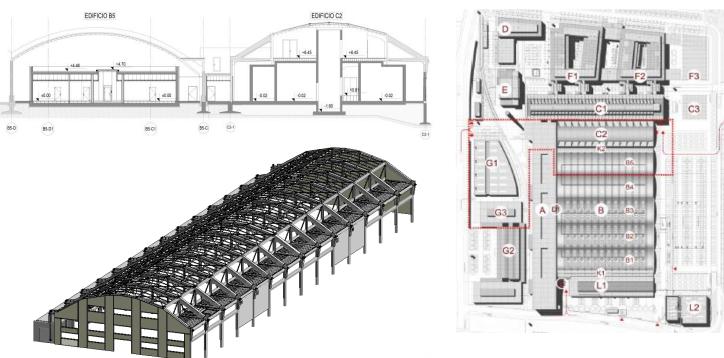
Via Tizzano 46/2 40033 Casalecchio di Reno Bologna - Italy Partita I.V.A. 02568991208

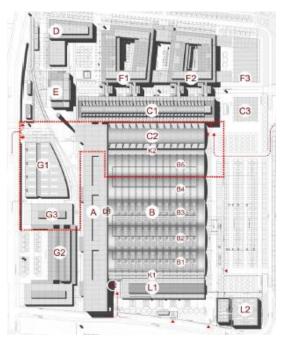


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Bologna – Technical Center – C2





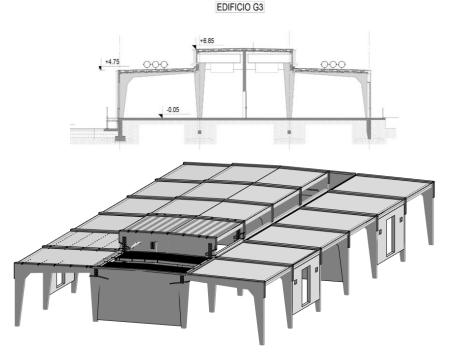


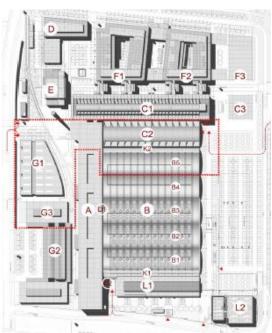


	Structures
WORK DATA	
Location	Bologna (ITA)
Year	2021 – 2022
Owner	Cineca
Client	Cineca
Structural Work cost	€ 1'160'000
Work performed	Rehabilitation of existing reinforced concrete building
STRUCTURAL	DESIGN
Tender	-
Preliminary	-
Final	X
CHARACTERIS	STICS
Plan Area	3290m ²
Floors	1
Height	12m
Measures	 Replacement of central slabs with steel structure Replacement of lateral slabs with new latero-cement floor Structural reinforcements with steel elements and FRP Insertion of structural sets for seismic actions

Bologna – Technical Center – G3









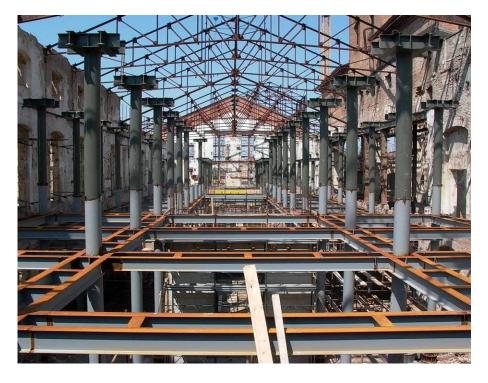
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WORK DATA	
Location	Bologna (ITA)
Year	2021 – 2022
Owner	Cineca
Client	Cineca
Structural Work cost	€ 480'000
Work performed	Rehabilitation of existing reinforced concrete building
STRUCTURAL	DESIGN
Tender	-
Preliminary	-
Final	X
CHARACTERIS	STICS
Plan Area	1152m ²
Floors	1
Height	7m
Measures	 Reinforcement of the floors with hanging system to steel beam Reinforcement of existing column and beam with new reinforced concrete Addition of steel details to trasmit actions between the components of the structure

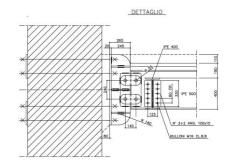
Classe – Archaeological Museum

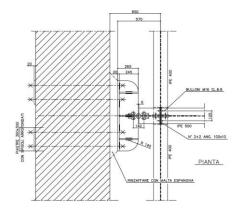










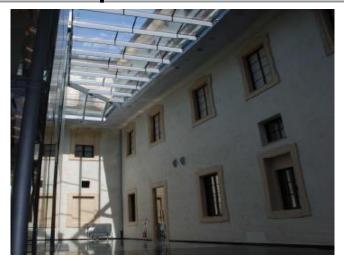


	Structures		
WORK DATA			
Location	Classe (ITA)		
Year	2009 – 2010		
Owner	Municipality of Ravenna		
Client	Municipality of Ravenna		
Structural Work budget	€ 19'200'000		
Work performed	Rehabilitation of existing buildings		
STRUCTURAL DESIGN			
Tender	X		
Preliminary	X		
Final	Х		
BUILDING CHARACTERISTICS			
Area	Respectively buildings A,B,C,D,E: 1795m ² , 950m ² , 390m ² , 650m ² , 210m ²		
Floors	Respectively buildings A,B,C,D,E: 3, 4, 5, 3, 2		
Height	Respectively buildings A,B,C,D,E: 20m, 20m, 20m, 10m, 15m		
Measures	 Realization of two new buildings D and E; For buildings A, B and C conservation of the external walls and inside realization of new steel structure 		

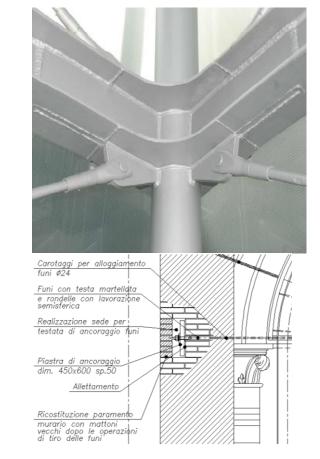
Bologna – Palazzo Pepoli

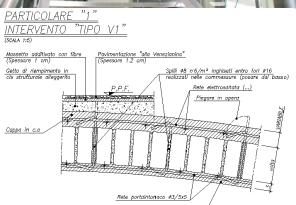














Lalibela – Covering of Churches

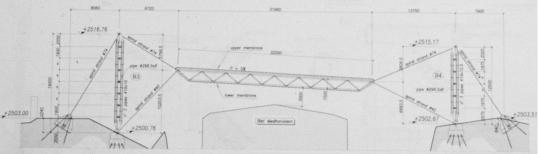








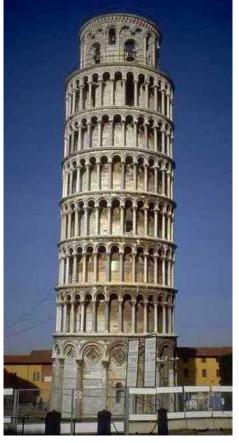


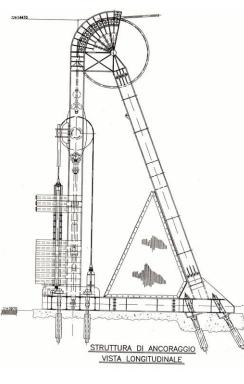


WORK DATA			
Location	Lalibela (ETH)		
Year	2000-2001		
Owner	Ministry of Information and Culture - Federal Democratic Republic of Ethiopia		
Client	Ministry of Information and Culture - Federal Democratic Republic of Ethiopia		
Structural Work budget	€ 1'610'000		
Work performed	Existing buildings		
STRUCTURAL DESIGN			
Tender	Х		
Preliminary	Х		
Final	X		
BUILDING CHARACTERISTICS			
Area	Shelter A: 32x24m Shelter B: 32x44m Shelter C: 16x20m Shelter D: 24x24m		
Floors	1		
Height	Variable		
Measures	Covers made with tensile structures and spatial reticolar		
	Location Year Owner Client Structural Work budget Work performed STRUCTURAL Tender Preliminary Final BUILDING CHA Area Floors Height		

Pisa – Tower of Pisa cable stayed support system structures







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<u> </u>	structures	
WORK DATA		
Location	Pisa (ITA)	
Year	1996	
Owner	Committee for strengthening and reliability of Tower of Pisa	
Client	Committee for strengthening and reliability of Tower of Pisa	
Work budget	€ 1'810'000	
Work performed	Existing buildings	
STRUCTURAL DESIGN		
Tender	X	
Preliminary	Х	
Final	Х	
BUILDING CHARACTERISTICS		
Measures	Sub-horizontal temporary support system, integral part of the work for the consolidation and restoration work of the Tower of Pisa. The stays consist of high resistance steel cables, configured in accordance with	

the counter-curve tensile

structure layout.