

Cost and Quantity Tables

work	Quantity	Notes	Price
Heating, conditioning, Central ventilation and pool filter			
Structure metals works	998 ton		600000\$
Sound insulation			
Electrical works			
MAIN CABLES			
TELEPHONE SYSTEM CCTV SYSTEM		fire alarm security alarm security cameras telephone socket	
Sanitary works		Clean water (cold, hot) dirty water (Building's drainage, parking Building drainage, car washing)	
Electric turbine	1		
Elevator for special needs	1		

Elevator for all people	1		
Concrete floor works	1500 m ²		15 \$/ m ²
Clay work in parking	2000 m ²		45 \$/ m ²
Painting works in parking	2000 m ²		6 \$/ m ²
Rainforest concrete (350 KG)	299 m ³		100 \$/ m ³
The waterproofing of the basement walls and floors	2100 m ²		4.5 \$/ m ²
Excavation works	6150 m ²		3 \$/ m ³
Backfill works	510 m ²		1.5 \$/ m ³
Rainforest concrete hollow slabs	1750 m ³		115 \$/ m ³
Ceramics for swimming pool	155 m ²		11 \$/ m ²
Handrail	400 m ² for each storey	chrome	90 \$/ m
	Number:72	Wood	50 \$/ m
Fountain	Number: 4		90 \$/ each one
Glass and aluminum works for facades	1140 m ²		10 \$/ m ²
Sandwich panels for facades	1410 m ²		10 \$/ m ²
Roof slab with insulation	480 m ²		10 \$/ m ²
Insulated plant pot on the roof	Number:4		
Exterior plant pot	Number:1	First floor	300 \$/ each one

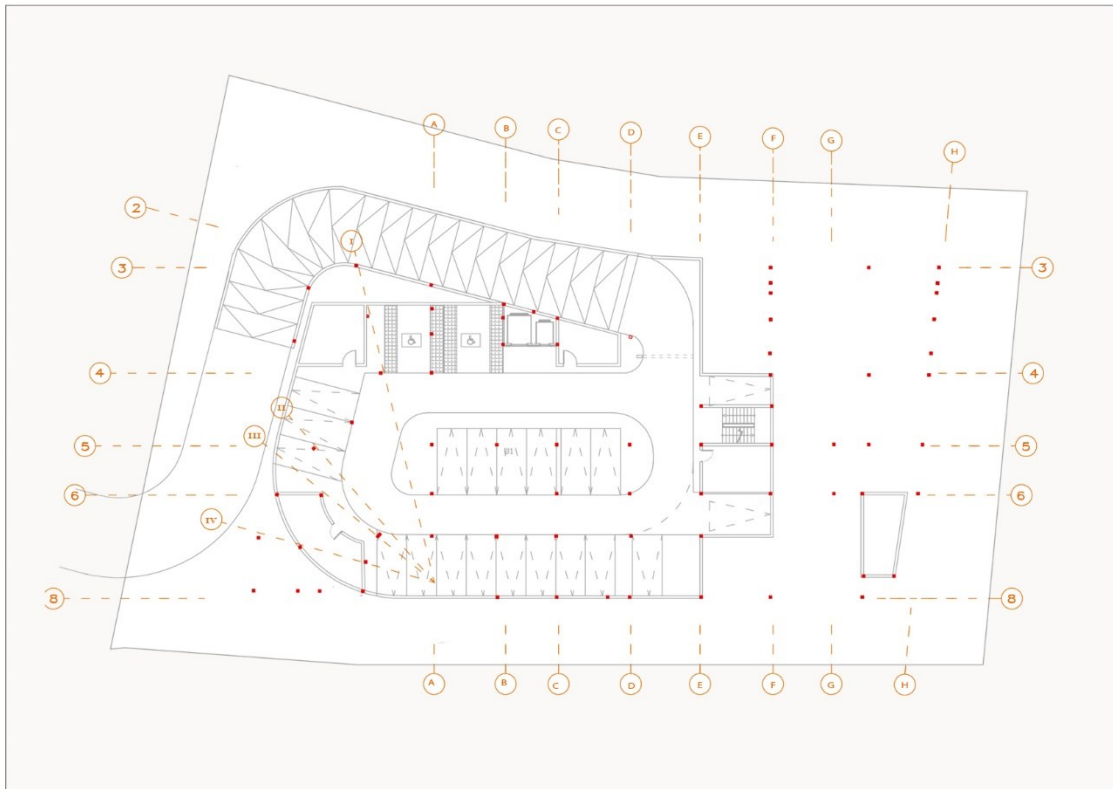
Interior plant pot	Number: 3	Ground floor	250 \$/ each one
Interior sandwich panels sections	3200 m ²		
Interior glass sections	50 m ²		10 \$/ m ²
Marble	3100 m ²		35 \$/ m ²
Ceramics for walls	830 m ²		10 \$/ m ²
vinyl flooring	150 m ²		4 \$/ m ²
False ceiling	3200 m ²		9 \$/ m ²
Wooden doors	Number:94		150 \$/ each one
Furniture			
Wooden chairs	Number:24		
Coffee equipment	Number: 4		500 \$/ each one
sink	Number:54		60 \$/ each one
WC	Number:23		75 \$/ each one
WC for special needs	Number:5		125 \$/ each one
Urinal	Number:6		
Dressing table	Number:36		
Wardrobe	Number:1		
Cabinet with shelves	Number:23		
Small trampoline	Number:1		
Therapeutic trampoline	Number:1		
Anchor points (rings, hooks) on the ceiling	For the section c		

Triangle table with 3 chairs	Number:28		
Chairs	Number:40		
Chairs for kids	Number:6		
Wheel chairs	Number:7		
Office table with chair	Number: 31		
Projectors	Number:2		
Mirror	Number:2		
gymnastics equipment	Number:1		
Swedish wall	Number:2		
Rocher cage	Number:1		
Mattresses	20 m ²		
Sofas	Number: 18	Different sizes	
Tables	Number:10		
Bed	Number:5		
Movement section	4		
Server room equipment	4		
Changing rooms equipment	5		

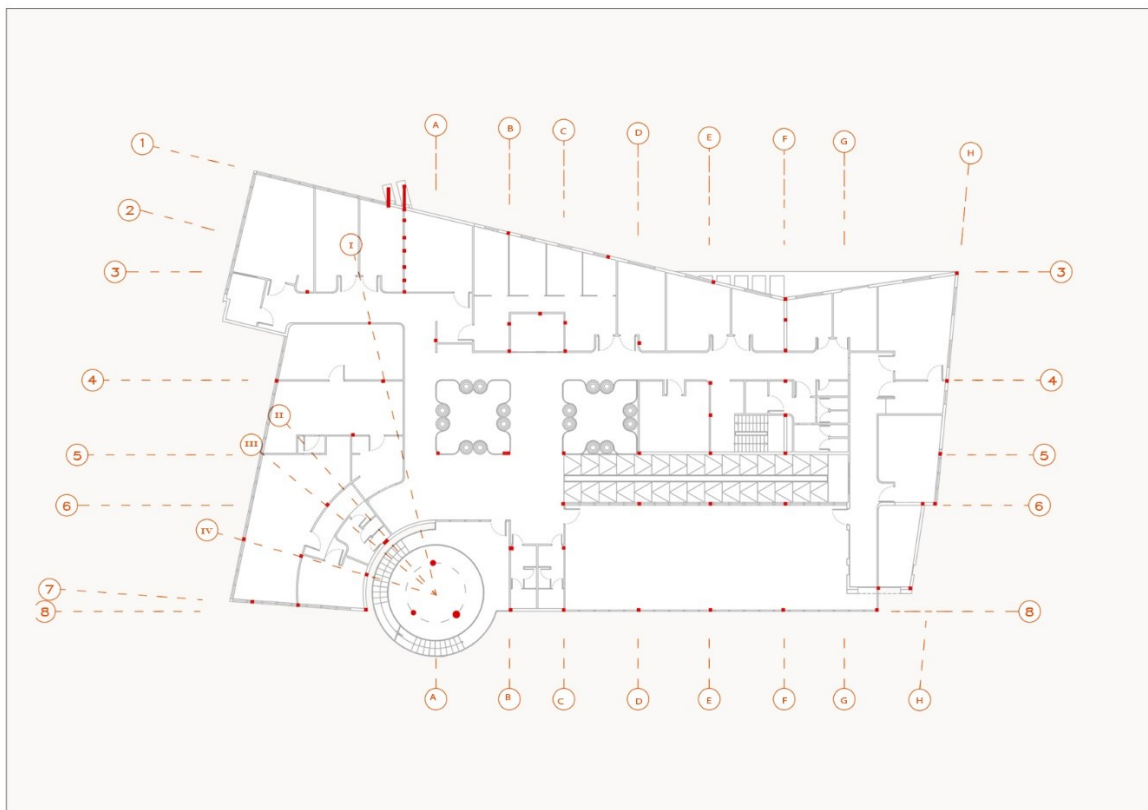
Project cost	
Exterior cladding	265000 \$
Interior architecture works	245000 \$
Concrete / Excavation/ Backfill works	250000 \$
Structure metals works	575000\$
MEP	425000\$
Total cost	1515000\$ = 1400000€

The prices taken from www.alibaba.com

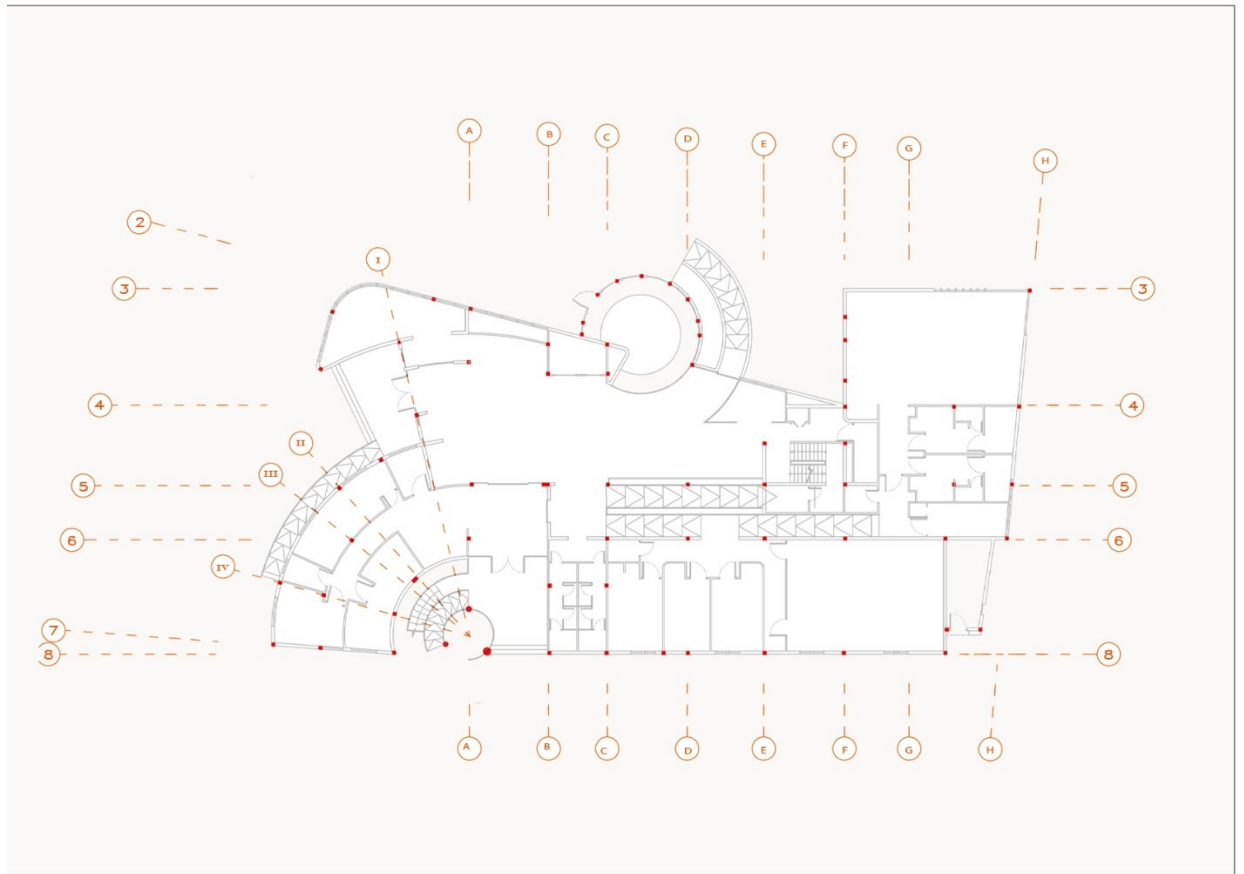
Structural plans:



STRUCTURE UNDERGROUND PLAN 1/400

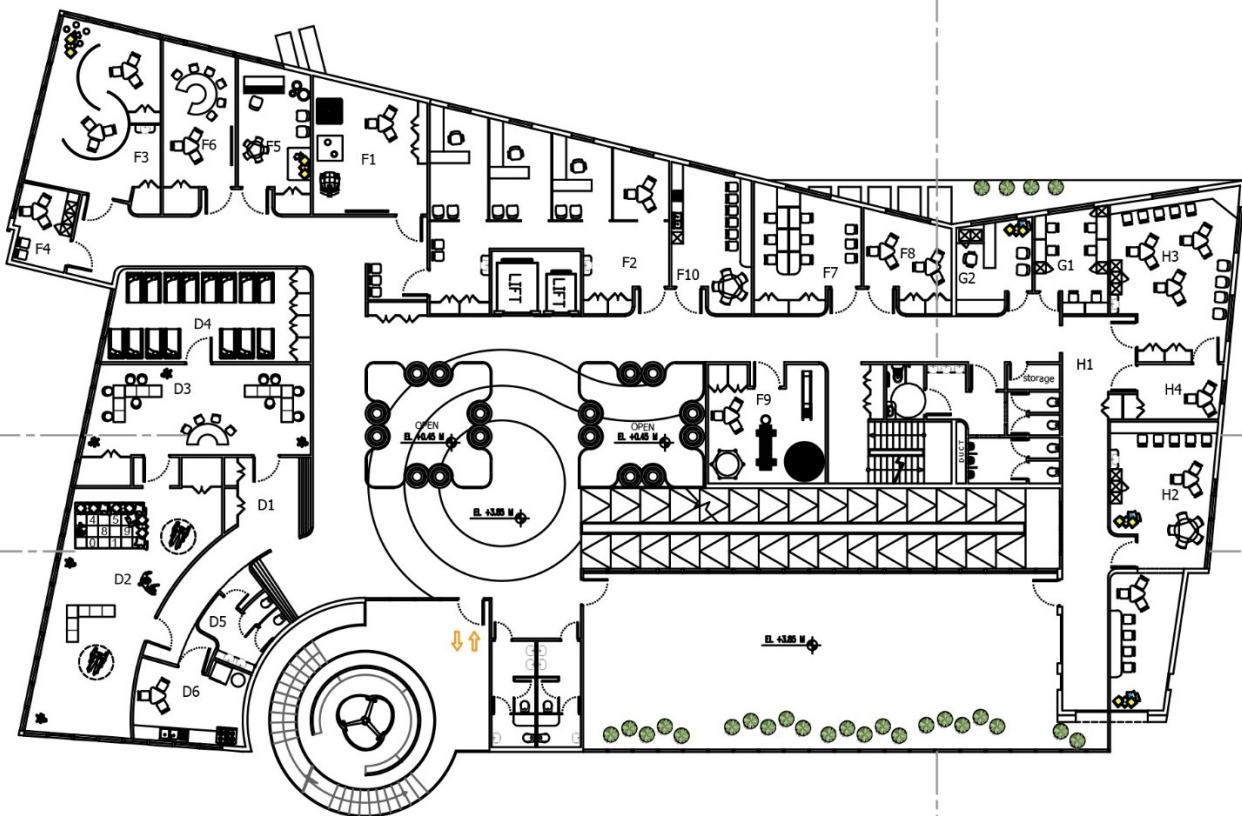
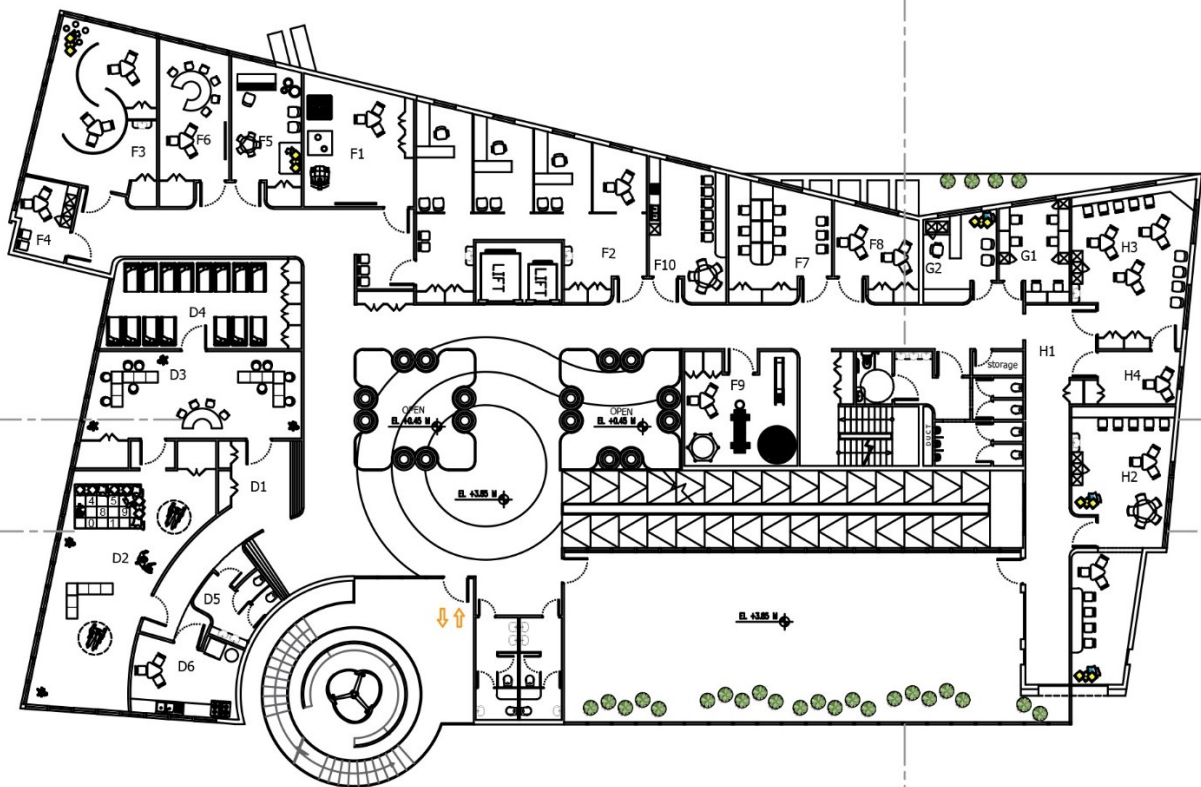


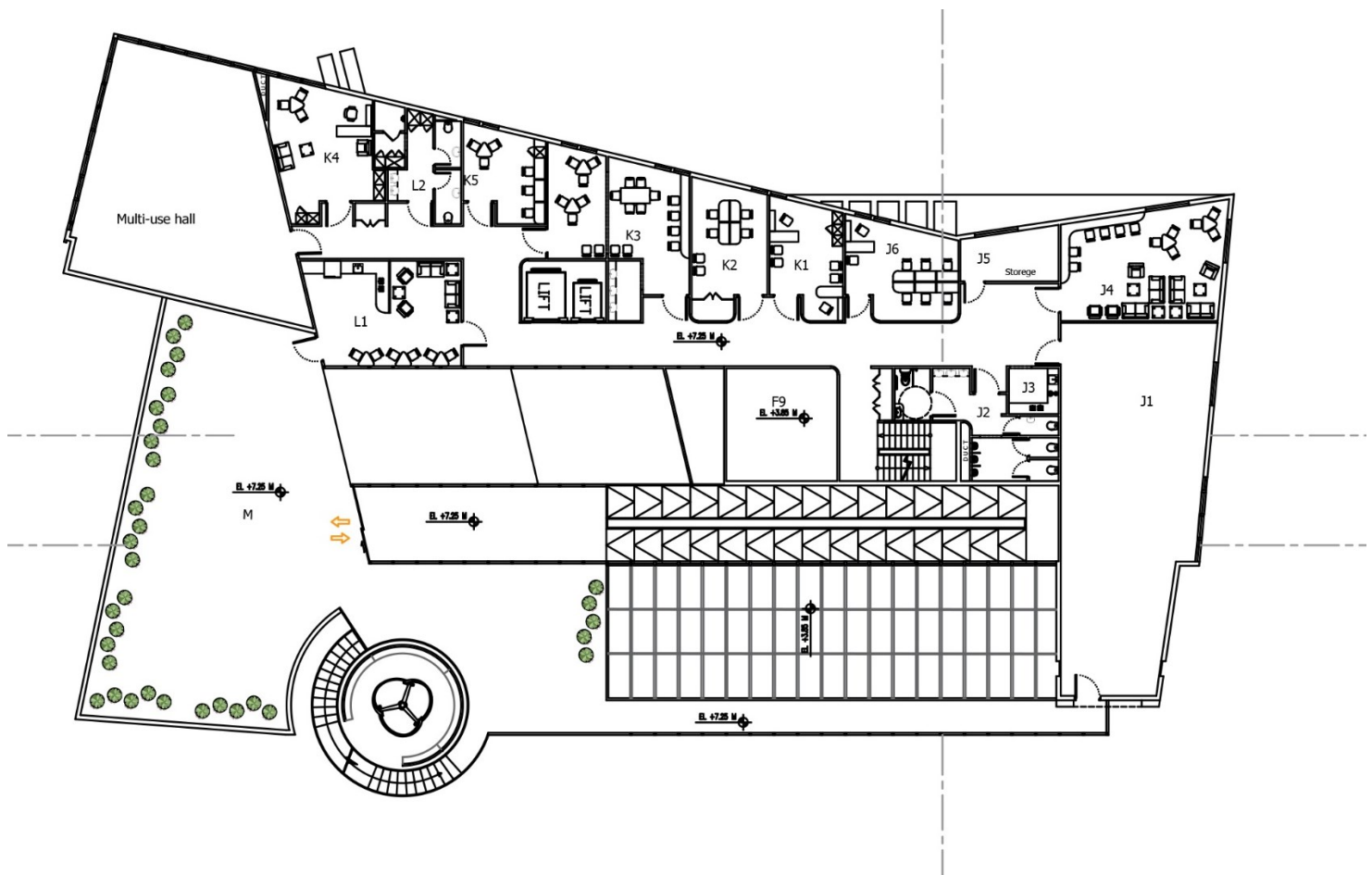
STRUCTURE FIRST FLOOR PLAN 1/400



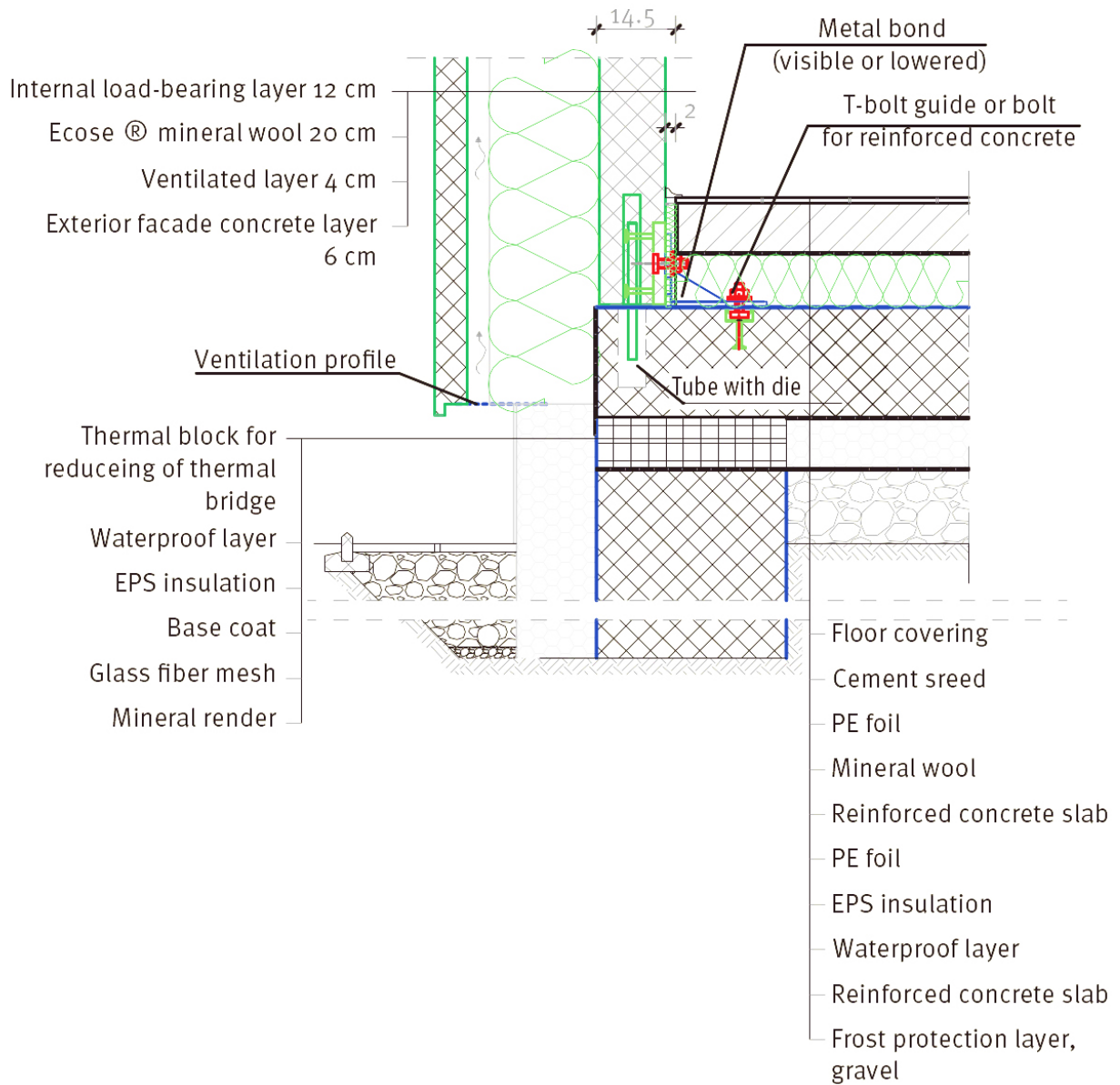
STRUCTURE GROUND FLOOR PLAN 1/400

Architecture plans:






Sandwich panels details: www.eco-sandwich.hr

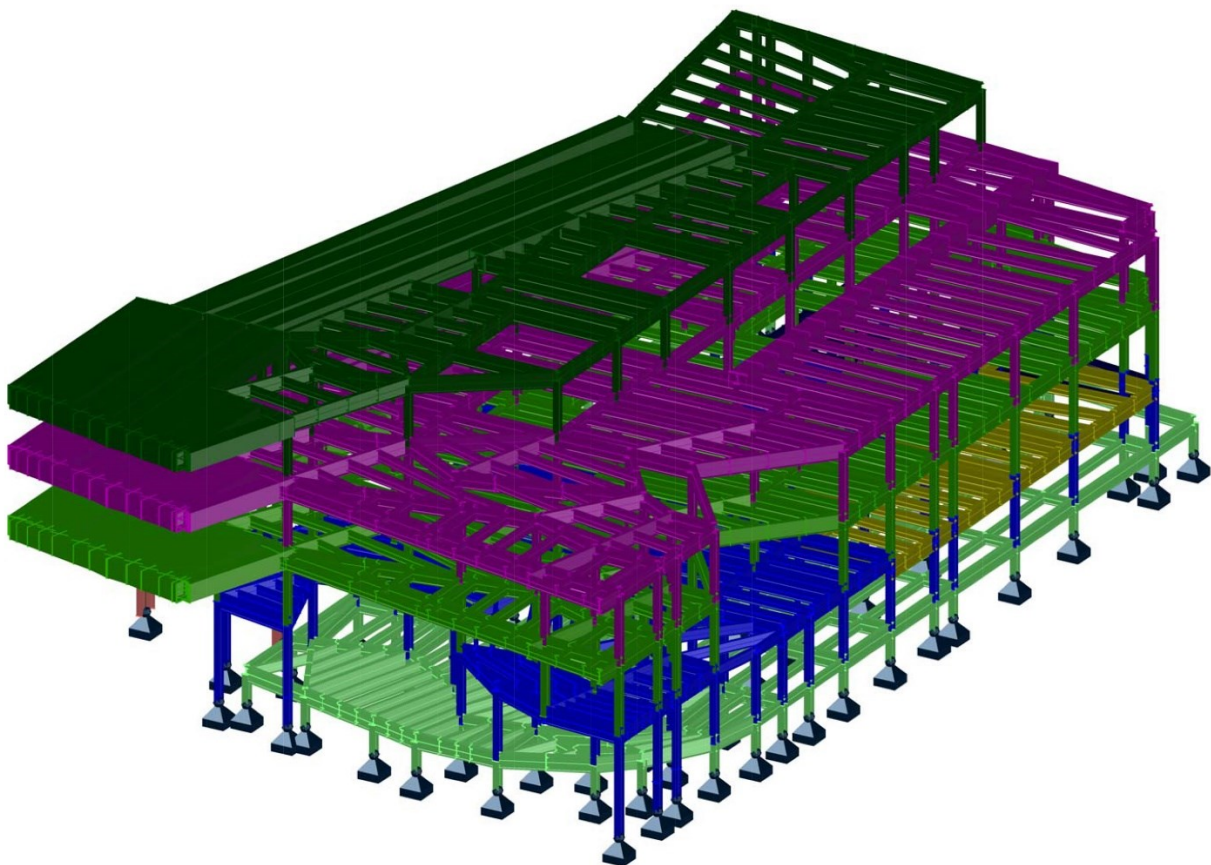


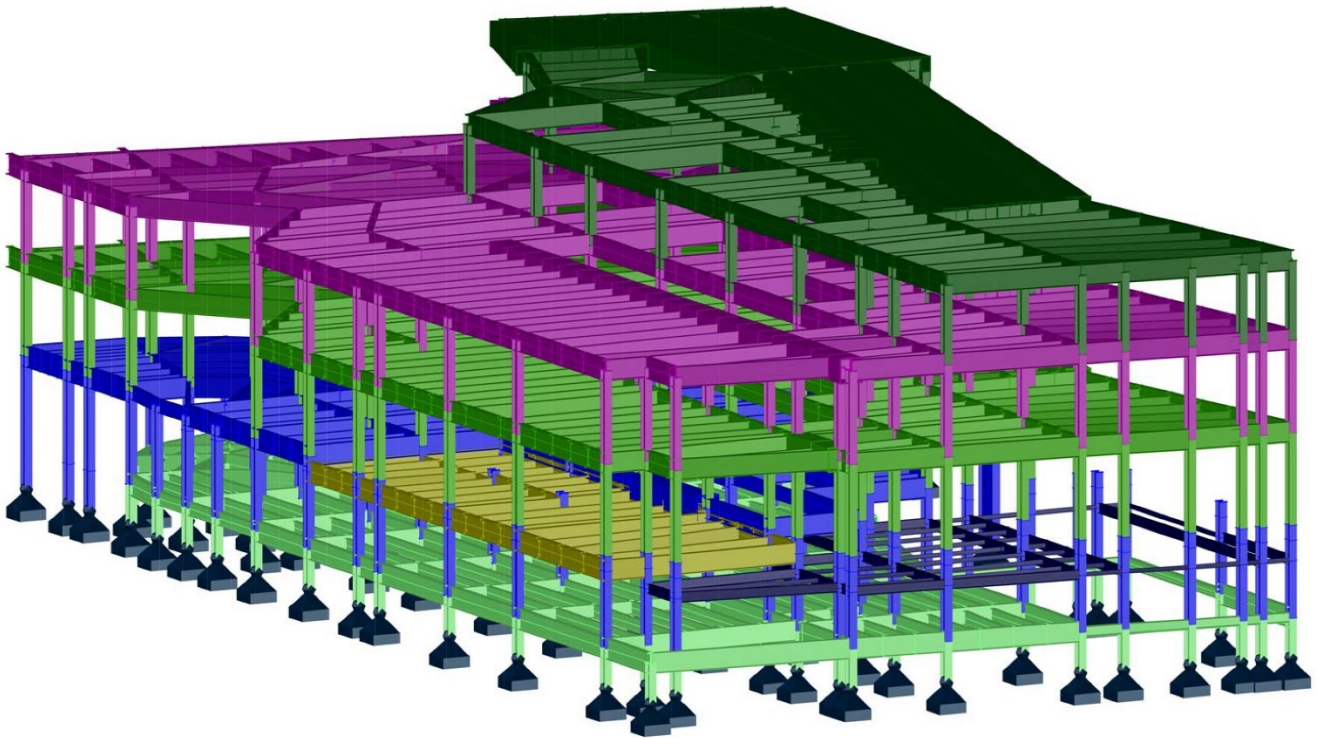
Structure construction:

Structure elements weights:

Total per					
HEB 36	370	1074.63	141.85	152434.23	152434
HEB 40	3	11.22	155.31	1742.60	1743
HEB 80	20	82.02	262.42	21523.92	21524
HEB 11	10	37.50	333.77	12516.46	12516
IPE 160	29	89.54	15.78	1412.71	1413
IPE 500	523	2056.27	90.72	186539.71	186540
IPE 600	20	177.97	122.49	21799.84	21800
IPE 750	499	2020.17	137.10	276964.29	276964
IPEA 36	23	109.07	50.23	5478.64	5479
RECT	105	817.08	389.63	318355.81	318356
Total		total weight (kg): 			998768

Structure elements perspective:





Steel material definition:

Steel Concrete Aluminum Timber Other

Name: Description:

Elasticity		Resistance	
Young modulus, E:	<input type="text" value="205000.00"/> (MPa)	Characteristic	<input type="text" value="275.00"/> (MPa)
Poisson ratio, ν :	<input type="text" value="0.3"/>	Reduction factor for shear:	<input type="text" value="1.54"/>
Shear modulus, G:	<input type="text" value="80000.00"/> (MPa)	Limit strength for tension:	<input type="text" value="430.00"/> (MPa)
Specific weight (unit weight):	<input type="text" value="77.01"/> (kN/m ³)	<input type="checkbox"/> Annealed steel	
Thermal expansion coefficient:	<input type="text" value="0.000012"/> (1/°C)		
Damping ratio:	<input type="text" value="0.06"/>		