

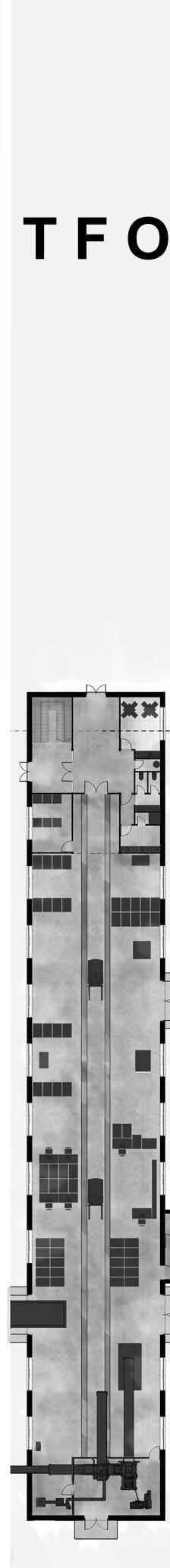
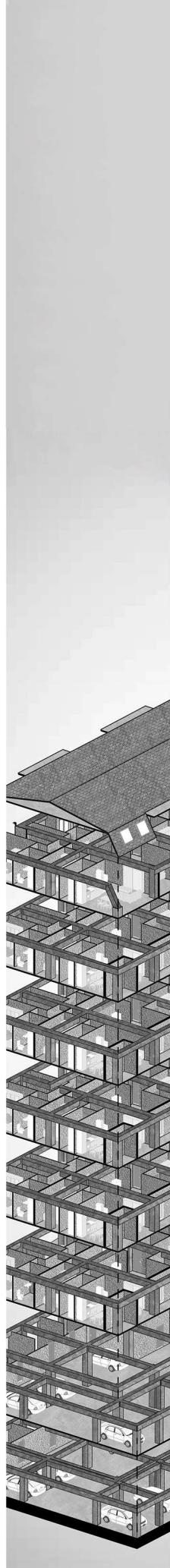
# PORTFOLIO

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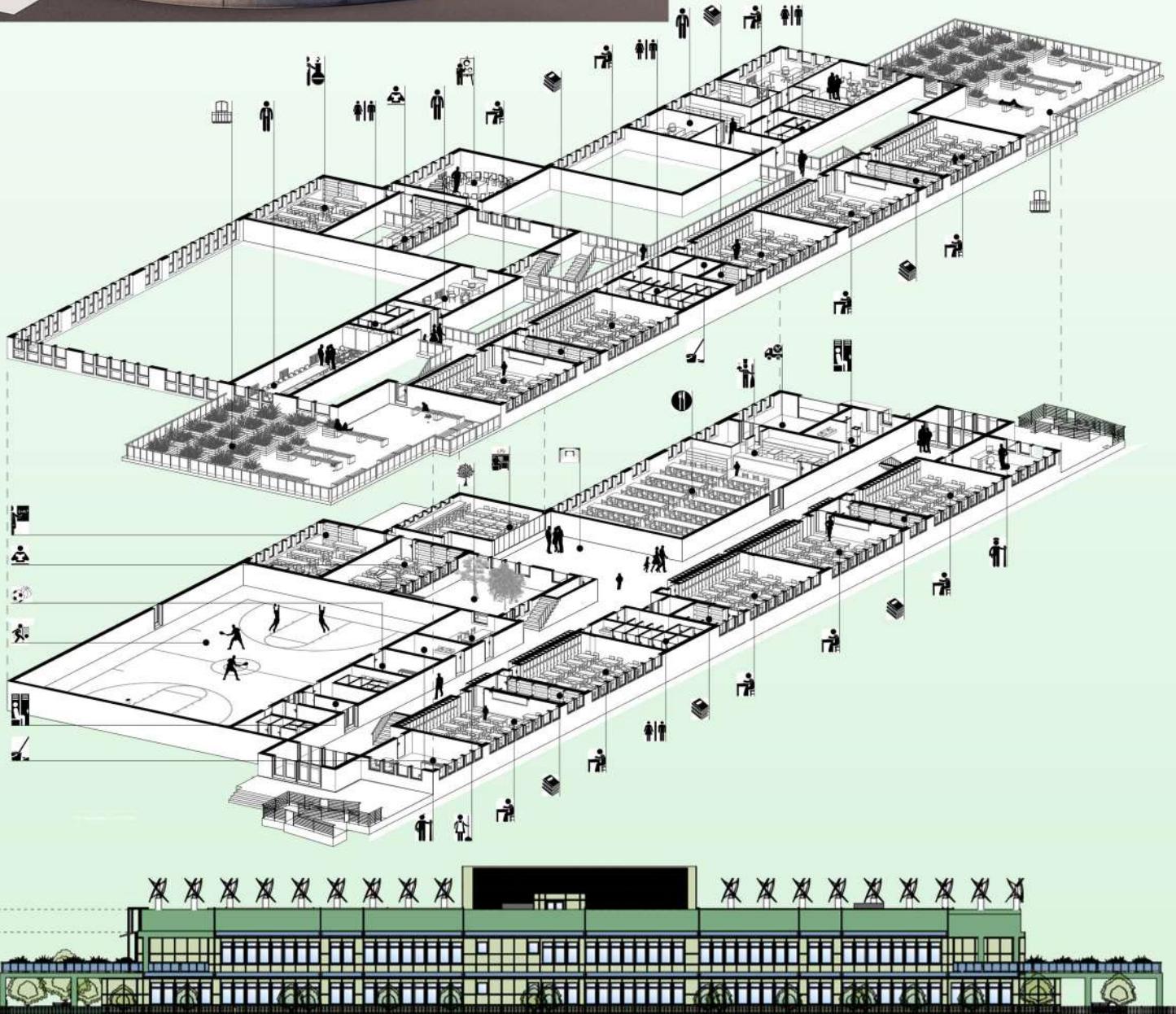
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# MASTER'S THESIS: ENERGY EFFICIENT SCHOOL IN A SUBURBAN NEIGHBORHOOD JAKA, ILINDEN

YEAR: 2018 / 2019  
LOCATION: ILINDEN, N. MACEDONIA  
HEIGHT: UNDERGROUND LEVEL + GROUND FLOOR +  
+ FIRST FLOOR  
PARKING: IN THE UNDERGROUND LEVEL  
CONSTRUCTION: REINFORCED CONCRETE CONSTRUCTION  
WITH STRUCTURAL STEEL TRUSS

WHEN DESIGNING THE FORM OF THE SCHOOL, THE FOCUS IS ON THE SCHOOL TO HAVE A MORE COMPACT FORM AND TO BE IN CORRELATION WITH THE PLOT, AS WELL AS COMPLIANCE WITH ENERGY EFFICIENT CONDITIONS. TO SATISFY THIS PRIMARY REQUIREMENTS THE BUILDING HAS ALMOST RECTANGULAR SHAPE WITH AN INTERIOR YARD. THE FORM AND THE ENTIRE PROGRAM FOLLOW THE ORTHOGONAL LINEAR CONCEPT OF THE OBJECT, THAT MEANS THAT THE SPACES AND ROOMS ARE LINEAR AND CONTINUES, WITH ACCESS FROM BOTH SIDES AND WITH DIRECTION SOUTHWEST TO NORTHEAST. THE MAIN DIVISION ON THE PROGRAM IS CLEARLY VISIBLE AND IT IS MADE WITH THE MAIN CORRIDOR AS A PRIMARY HORIZONTAL COMMUNICATION. ON THE ONE SIDE OF THE CORRIDOR ARE THE MAIN EDUCATIONAL SPACES, THAT IS THE CLASSROOMS, WHILE ON THE OTHER SIDE ARE THE ACCOMPANYING SPACES LIKE THE SPORTS HALL, THE CANTEEN, THE SCHOOL HALL ETC.



# ENERGY EFFICIENT SYSTEMS



FOR THE SCHOOL TO BE ENERGY EFFICIENT, MORE DIFFERENT STRATEGIES AND SYSTEMS ARE USED, SUCH AS: THE LOCATION OF THE BUILDING, THAT WITH ITS FAVORABLE NATURAL CONDITIONS ENSURE APPROPRIATE APPLICATION OF RENEWABLE ENERGY SOURCES, LIKE PASSIVE PRINCIPLES; THE COMPACT FORM OF THE CONSTRUCTION REDUCES THE HEAT LOSSES; APPROPRIATE HEAT INSULATION AND REDUCTION OF THERMAL BRIDGES; SUITABLE WINDOWS AS WELL AS PROTECTION FROM OVERHEATING; EFFECTIVE NATURAL VENTILATION SUPPLEMENTED WITH VENTILATION WITH HEAT RECOVERY; HEATING WITH HEAT PUMPS; USING THE SUN'S ENERGY WITH SOLAR PANELS; USING THE RAINWATER THROUGH THE DRAINAGE SYSTEM; USING THE ENERGY OF THE WIND WITH WIND TURBINES ETC.

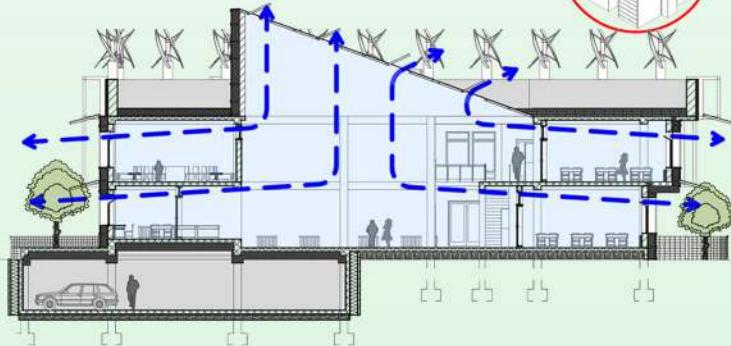
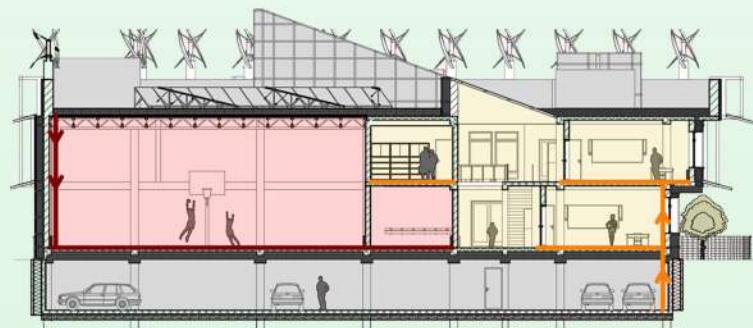
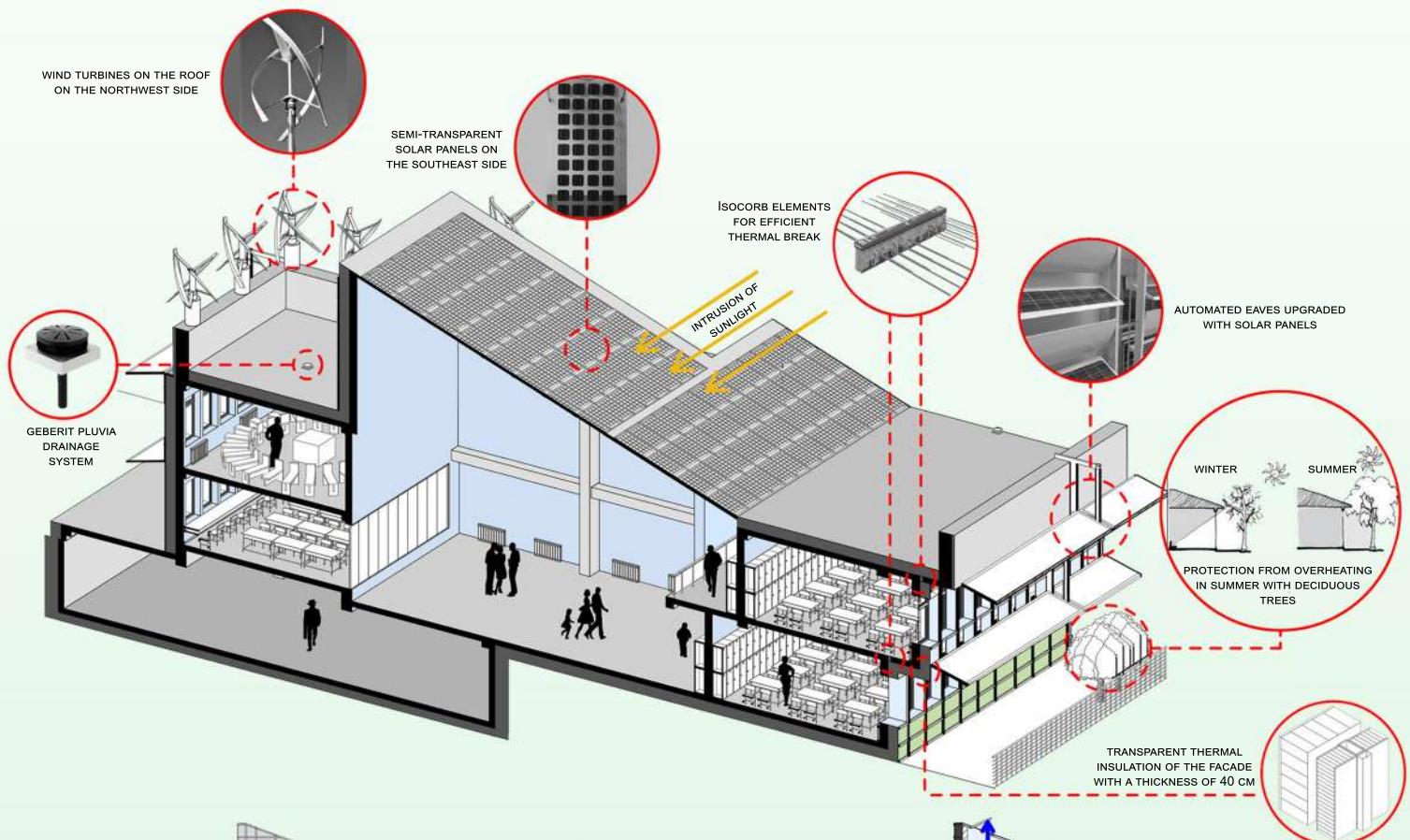


DIAGRAM OF THE SPLIT VENTILATION IN THE SCHOOL:  
 - HEATING SYSTEM IN THE SPORTS HALL WITH ENERGY FROM SOLAR PANELS.  
 - HEATING SYSTEM IN THE EDUCATIONAL AND OTHER ROOMS WITH A HEAT PUMP.

→ HEATING WITH SOLAR PANELS → HEATING WITH A HEAT PUMP

DIAGRAM OF NATURAL VENTILATION OF THE CLASSROOMS, THE CORRIDOR AND THE HALL IN THE SCHOOL

→ NATURAL AIRFLOW



# **PROJECT FOR AN INDIVIDUAL RESIDENTIAL HOUSE, WITH A SPECIAL ARRANGEMENT - VILLA**

**ARCH. STUDIO: DSC DESIGN**

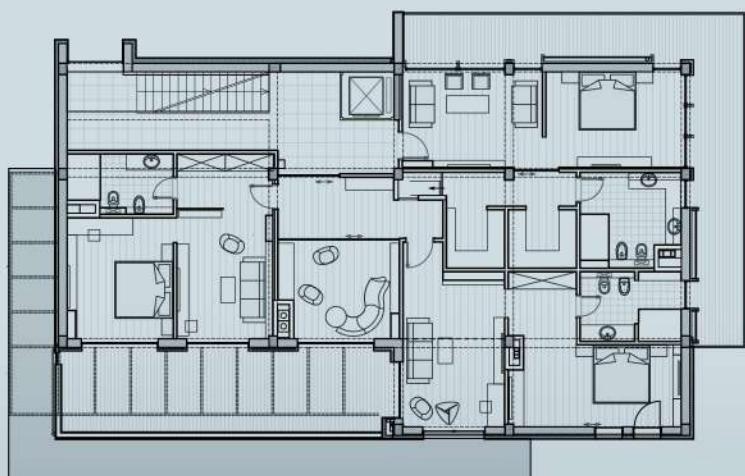
<b>YEAR:</b>	<b>2020</b>
<b>LOCATION:</b>	<b>VODNO, SKOPJE, N. MACEDONIA</b>
<b>HEIGHT:</b>	<b>UNDERGROUND LEVEL + GROUND FLOOR + MEZZANINE + FIRST FLOOR + LOFT</b>
<b>PARKING:</b>	<b>ON THE GROUND FLOOR</b>
<b>CONSTRUCTION:</b>	<b>REINFORCED CONCRETE CONSTRUCTION WITH STEEL CONSTRUCTION SYSTEM</b>

THE BEAUTIFUL LOCATION, THE SPATIAL SURFACE OF THE PLOT, THE INTERESTING PROGRAM REQUIREMENTS AND THE DESIRE FOR MODERN DESIGN WERE PRIMARY IDEAS WHEN DESIGNING THIS VILLA ON THE SLOPE OF THE MOUNTAIN VODNO. THE VERTICAL CORE, WITH ELEVATOR AND STAIRS, CONNECTS THE VARIOUS FLOORS WITH DIFFERENT PROGRAM CONTENTS. ALL OF THE DIFFERENT FLOORS HAVE CENTRAL COMMUNICATION FOR ACCESS INTO THE DIFFERENT ROOMS AND SPACES. EACH ONE OF THE FLOORS IS FILLED WITH VARIOUS CONTENT FOR SATISFYING ALL OF THE DIFFERENT NEEDS OF THE CLIENT. BECAUSE THE VILLA IS FREESTANDING ALL OF THE ROOMS ARE BEAUTIFULLY LIT WITH NATURAL LIGHT AND HAVE THE APPROPRIATE COMFORTABLE HEIGHT AS WELL AS A GALLERY SPACE THAT CONTRIBUTES TO THE INCREASED ATMOSPHERE IN THE BUILDING. ALMOST ALL OF THE ROOMS OPEN ONTO A TERRACE WHICH ALSO CONTRIBUTES TO THE PLAYFULNESS OF THE FAÇADE OF THE HOUSE. THE COMBINATION OF WOOD COATING, STONE COATING AND ALUMINIUM PANELS GIVE A WARM FEELING ON THE FAÇADE WITH AN INTERESTING COLOR COMBINATION.



**GROUND FLOOR**

**FIRST FLOOR**



# **PROJECT FOR A NEW FAÇADE, FENCE AND GREEN OPEN SPACE DESIGN OF AN ALREADY EXISTING HOUSE**

ARCH. STUDIO: DSC DESIGN

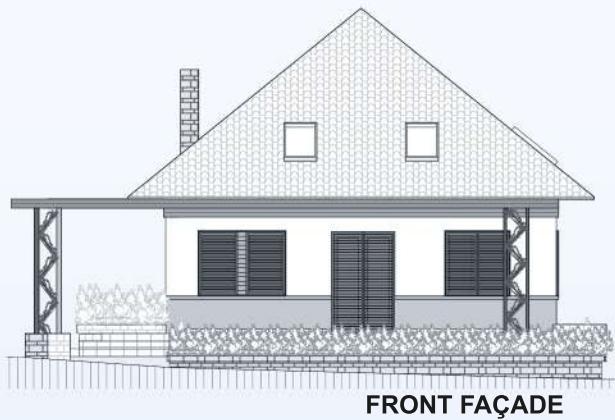
YEAR: 2021

LOCATION: BRZA PALANKA, SERBIA



ON AN ALREADY EXISTING OLDER HOUSE, A REDESIGN OF THE FAÇADE, THE FENCE AND THE GREEN OPEN SPACE HAS BEEN MADE, WITHOUT MAKING ANY CHANGES TO THE HOUSE AND ITS CONTENT, WHILE RESPECTING THE WISHES AND THE NEEDS OF THE CLIENT. THE REAL CHALLENGE IN THIS DESIGN WAS HOW TO MAKE ONE SQUARE HOUSE WITH A HIGH PYRAMID ROOF, GET A NEW MODERN CHARM. THAT IS ACHIEVED BY USING MODERN DURABLE AND SUFFICIENT MATERIALS, WITH FRAMING CERTAIN PARTS LIKE WINDOWS AND WITH A FEW HORIZONTAL STROKES ON THE HOUSE. OF THIS HORIZONTALS THE MOST DOMINANT ONE IS THE STEEL CONSTRUCTION CANOPY THAT IS COVERED WITH WOOD CLADDING WHICH OCCURS ON THE FRONT FAÇADE AND CONTINUES ON ONE OF THE SIDE FAÇADES. ALTHOUGH IT GIVES THE NEEDED PROTECTION FROM EXTERNAL INFLUENCES IT ALSO GIVES A MODERN EXPRESSION AND BREAKS UP THE SYMMETRY OF A SIMPLE SQUARE HOUSE.





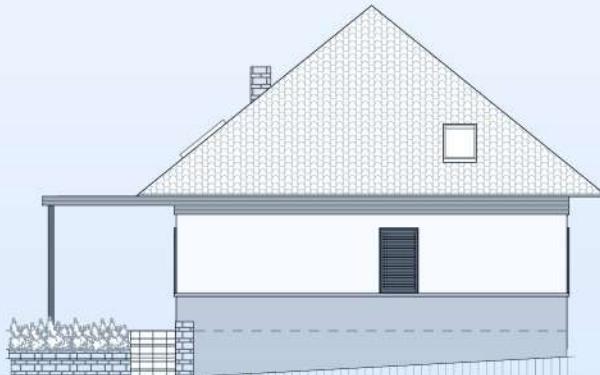
FRONT FAÇADE



SIDE FAÇADE



REAR FAÇADE



SIDE FAÇADE



INITIAL EXISTING CONDITION



NEW DESIGN



INITIAL EXISTING CONDITION



NEW DESIGN

# **INTERIOR DESIGN OF A SOCIAL CATERING SPACE**

ARCH. STUDIO: DSC DESIGN

YEAR: 2021

LOCATION: KOZJAK, SKOPJE, N. MACEDONIA

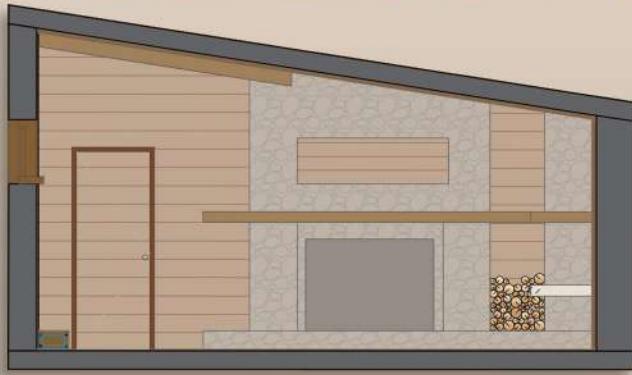
WHEN THINKING ABOUT THE DESIGN OF THE INTERIOR, WHICH IS LOCATED IN THE IMMEDIATE NATURE NEAR THE CITY WITH BEAUTIFUL VIEWS, THE LEADING IDEA WAS TO MAKE A WARM ATMOSPHERE IN THE STYLE OF A HUNTING CABIN, FOLLOWING THE CLIENTS WISHES FOR INTERESTING LUXURY SPACE.

THE LARGE STONE FIREPLACE HAS A CENTRAL ROLE FROM WHERE WOODEN AND STONE ELEMENTS CONTINUE ON THE WALLS. THE INTERIOR ELEMENTS HAVE MINIMAL POST-PROCESSING ALLOWING THEM TO HAVE A ROUGH AND MASSIVE CHARACTER. WITH THE WOODEN AND STONE CLADDING ON THE FLOOR, CEILING AND WALLS, WE GET A COZY AMBIENT, WHICH IN COMBINATION WITH THE LEATHER AND WOODEN EQUIPMENT CONTRIBUTE TO THE ENJOYABLE VIP SPACE.



FLOOR PLAN





ELEVATIONS



# **PROJECT FOR TWO RESIDENTIAL BUILDINGS ON TWO ADJACENT PLOTS**

ARCH. STUDIO: ART MIRON ING

YEAR:	2016/2017
LOCATION:	GJORCHE PETROV, SKOPJE, N. MACEDONIA
HEIGHT:	UNDERGROUND LEVEL + GROUND FLOOR + 3 FLOORS + LOFT
PARKING:	JOINT PARKING FOR THE TWO PLOTS IN THE UNDERGROUND LEVEL
CONSTRUCTION:	REINFORCED CONCRETE CONSTRUCTION WITH CONCRETE COLUMNS, BEAMS AND SLABS

THE DESIGN DECISION FOR THESE RESIDENTIAL PROJECTS WAS OBTAINED ON THE BASIS OF THE WISHES AND NEEDS OF INVESTORS WHILE AT THE SAME TIME KEEPING THE NEEDS OF THE DIFFERENT FUTURE TENANTS SATISFIED. DURING THE DESIGNING ITSELF THE FORM AND FUNCTION ARE TAKEN INTO ACCOUNT AS WELL AS THE REGULATIONS, THE PROPER ORIENTATION AND LIGHTING OF THE APARTMENTS. ALSO, THE INTERESTING PART IS THE JOINING OF THE TWO DIFFERENT OBJECTS ON THE TWO NEIGHBORLY ADJACENT PLOTS, WITH ONE DESIGN GESTURE AND WITH THAT MAKING THE TWO BUILDINGS WORK TOGETHER, EVEN THOUGH THEY CAN FUNCTION SEPARATELY. SPECIAL ATTENTION IS PROVIDED TO THE SATISFACTION OF THE ENERGY EFFICIENT NEEDS OF THE BUILDING, FOR WHICH QUALITY MATERIALS ARE USED THAT PROVIDE THERMAL AND ACOUSTIC INSULATION AS WELL AS COMFORTABLE INTERIOR ATMOSPHERE.





**FLOOR PLAN**



**SECTION**



**ELEVATION**

# PROJECT FOR A RESIDENTIAL BUILDING

ARCH. STUDIO: ART MIRON ING

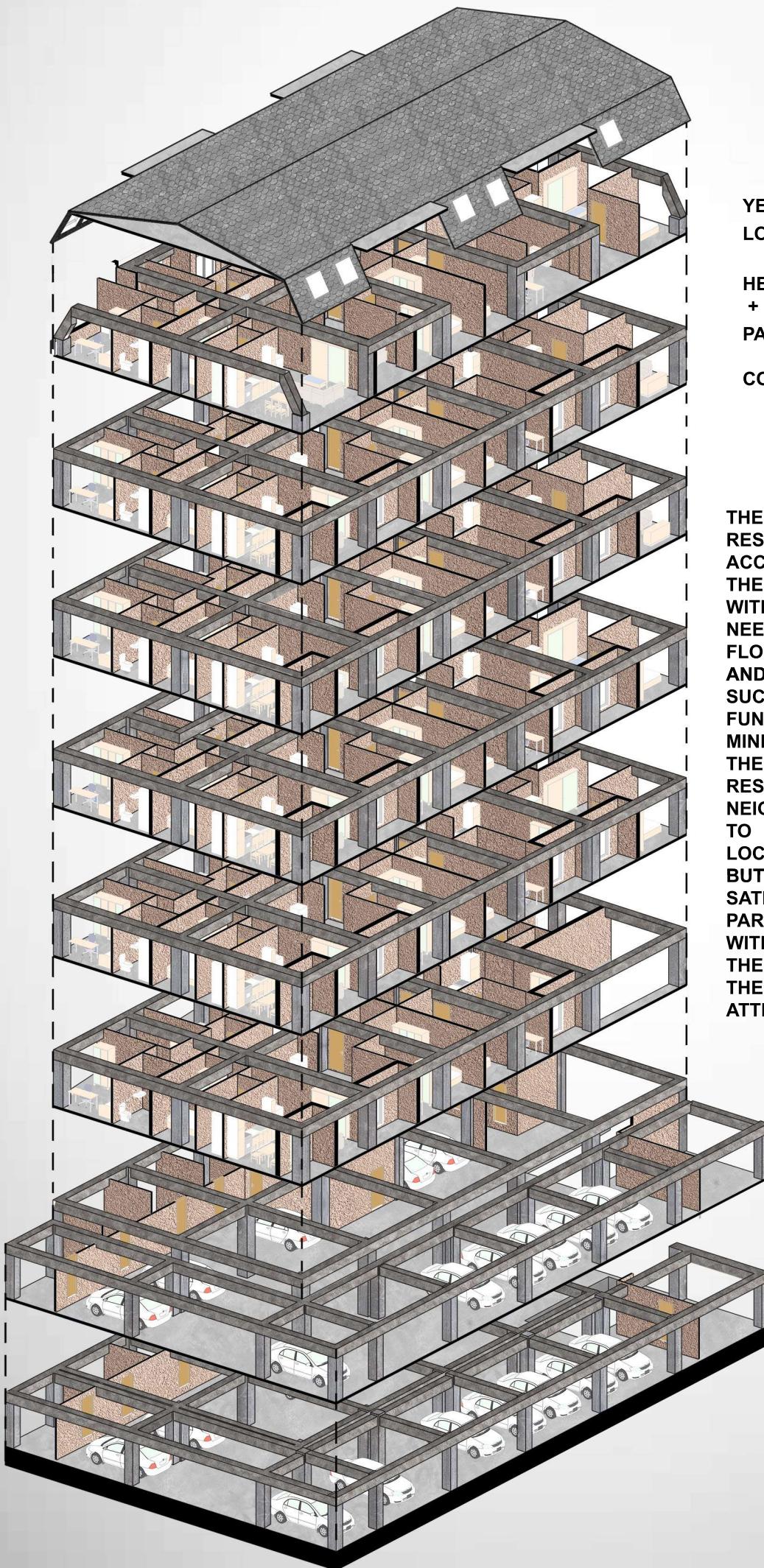
YEAR: 2017

LOCATION: AERODROM, SKOPJE,  
N. MACEDONIA

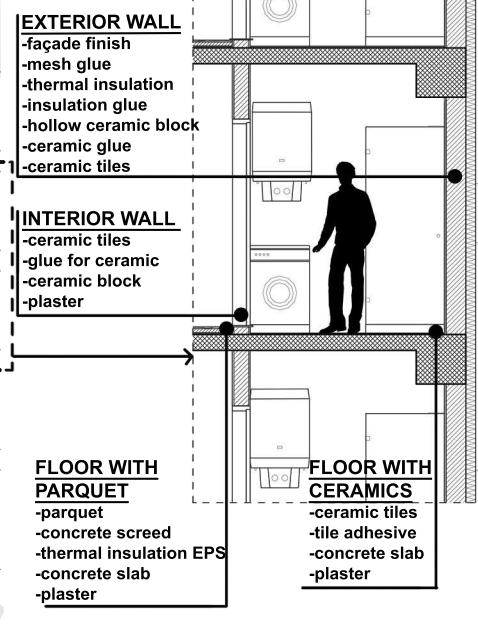
HEIGHT: 2 UNDERGROUND LEVELS  
+ GROUND FLOOR + 4 FLOOR + LOFT

PARKING: IN THE TWO  
UNDERGROUND LEVELS

CONSTRUCTION: REINFORCED  
CONCRETE SYSTEM



THE PROJECT FOR THE FREESTANDING RESIDENTIAL BUILDING IS DESIGNED IN ACCORDANCE WITH THE WISHES OF THE FUTURE TENANTS IN THE BUILDING. WITH THE IDEA TO MEET THE DIVERSE NEEDS OF THE TENANTS, ON EACH FLOOR THE APARTMENTS VARY IN SIZE AND PROGRAM, BUT ALL OF THEM ARE SUCCESSFULLY UNITED IN A SINGLE FUNCTIONAL UNIT, WHILE KEEPING IN MIND THE DESIGN OF THE FAÇADE. THE BUILDING IS LOCATED IN THE RESIDENTIAL PART OF THE NEIGHBOURHOOD AND IT'S ADAPTING TO THE CHARACTERISTICS OF THE LOCATION. BUT STILL AS A PROBLEM APPEARS SATISFYING THE REQUIRED NUMBER OF PARKING SPACES AND THAT IS SOLVED WITH TWO UNDERGROUND FLOORS. THE OPENNESS ON ALL FOUR SIDES OF THE BUILDING INCREASES ITS OVERALL ATTRACTIVENESS.



DETAIL

SECTION



RENDERING

# **PROJECT FOR EXTENSION, UPGRADE AND ADAPTATION OF A RESIDENTIAL AND BUSINESS BUILDING**

ARCH. STUDIO: ART MIRON ING

YEAR: 2016/2017  
LOCATION: CENTAR, SKOPJE, N. MACEDONIA  
HEIGHT: UNDERGROUND LEVEL + GROUND FLOOR  
+ 4 FLOORS + LOFT  
PARKING: IN THE UNDERGROUND LEVEL  
AND ON THE GROUND FLOOR  
CONSTRUCTION: REINFORCED CONCRETE SYSTEM

AT AN ALREADY EXISTING RESIDENTIAL BUILDING, ADAPTATION AND NEW CONSTRUCTION WAS PERFORMED AND WITH THAT THE WHOLE AVAILABLE AREA IS USED FOR CONSTRUCTION. THE NEW ADDED BUILDING HAS ITS OWN CONCRETE CONSTRUCTIVE SYSTEM AND SPECIAL ATTENTION IS PUT INTO NOT DISTURBING THE EXISTING CONSTRUCTIVE STRUCTURE. THE ENTRANCE TO THE RESIDENTIAL OBJECT IS ON THE SIDE WHILE THE ENTRANCE TO THE SMALL BUSINESS PART, LOCATED ON THE GROUND FLOOR OF THE NEW EXTENSION, IS FROM THE STREET AND MORE CARE IS PUT INTO THE DESIGN TO THIS PRIMARY STREET FAÇADE.



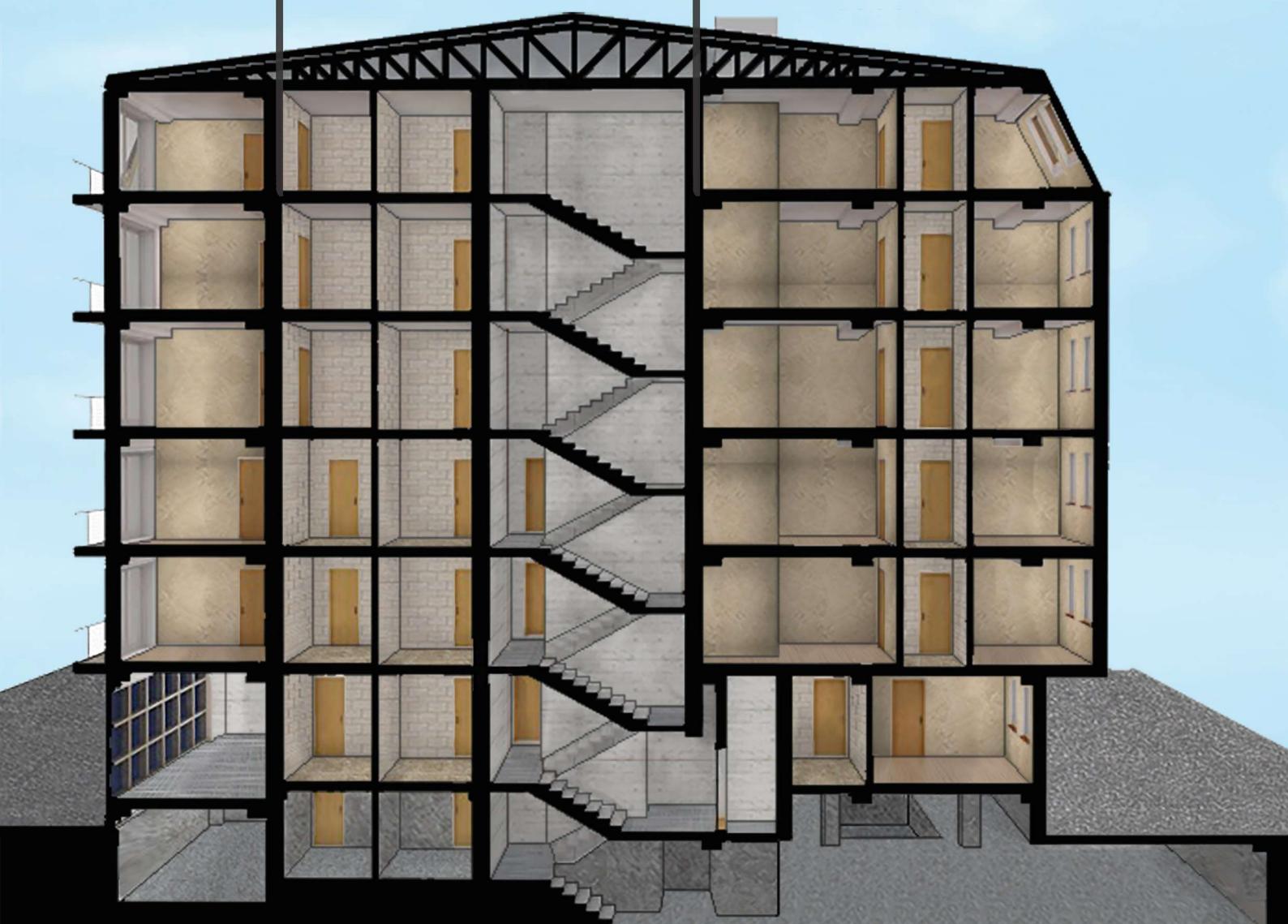
EXTENSION

EXISTING BUILDING

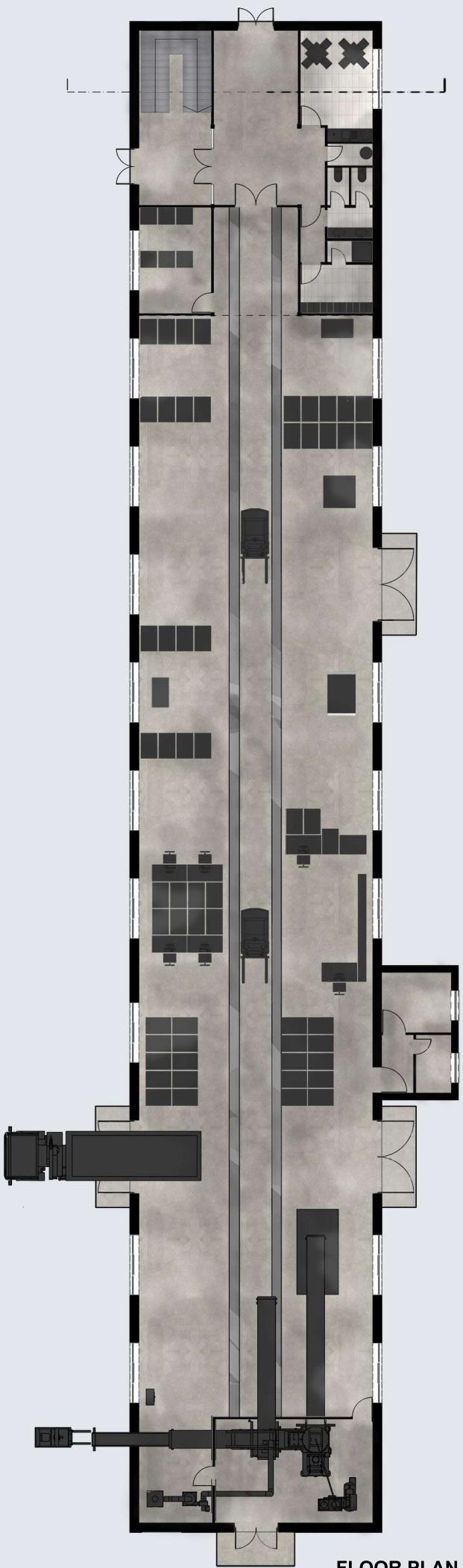
EXTENSION



FLOOR PLAN



SECTION



## **CONVERSION, RECONSTRUCTION AND ADAPTATION OF AN AUXILIARY FACILITY FROM AGRICULTURE (FARM) TO A FACILITY FOR A LIGHT AND NON-POLLUTING INDUSTRY**

ARCH. STUDIO: ART MIRON ING



**INTERIOR RENDERING OF  
THE WORKING SPACE**

YEAR: 2017  
LOCATION: TRUBAREVO, N. MACEDONIA  
HEIGHT: GROUND FLOOR + UPPER FLOOR  
CONSTRUCTION: STEEL STRUCTURE

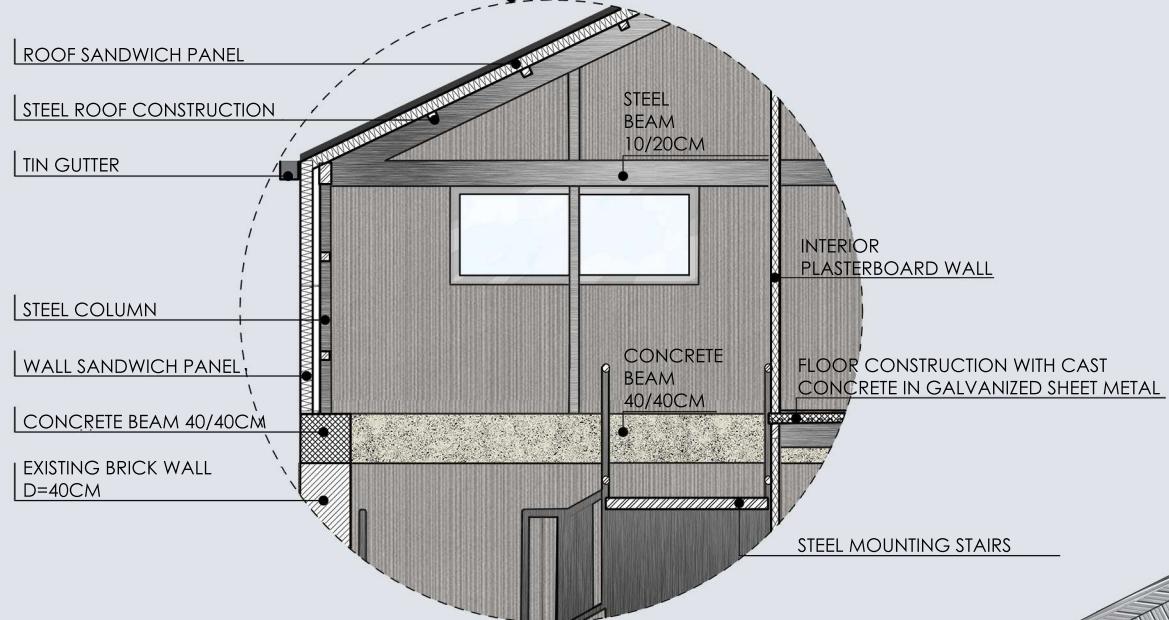
WHEN RECONSTRUCTING AND ADAPTING THE BUILDING, PARTICULAR ATTENTION IS PUT INTO THE NEW STEEL CONSTRUCTION TO NOT DISRUPT THE EXISTING CONSTRUCTION WHICH IS A MASSIVE STRUCTURAL SYSTEM. ALSO CARE IS PUT INTO THE USED MATERIALS WHICH ARE LIGHT AND SIMPLE AND WITH THAT THE BUILDING MEETS THE REQUIRED STANDARDS AND NORMS. IN ONE PART THE BUILDING HAS A GROUND FLOOR AND AN UPPER FLOOR, WHILE ON THE OTHER BIGGER PART THERE IS A TWO HEIGHT SPACE APPROPRIATE FOR WORK. FOR A BIGGER FLEXIBILITY, THE BUILDING HAS MORE ENTRANCES FOR PEOPLE AND FOR VEHICLES, AS WELL AS ENOUGH SPACE FOR THE WORK OF THE FORKLIFTS.

**FLOOR PLAN**

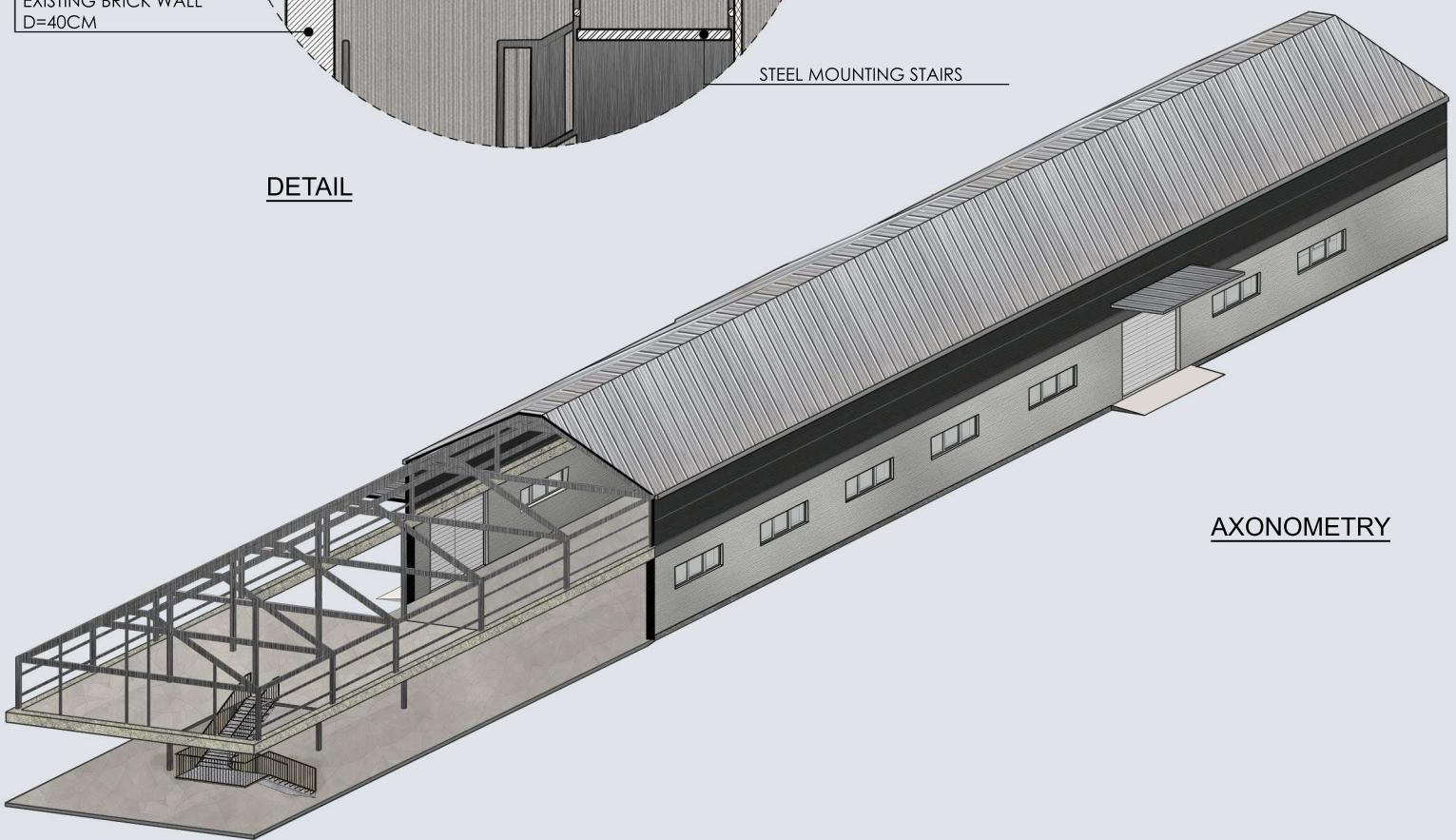


SECTION

ELEVATION



DETAIL



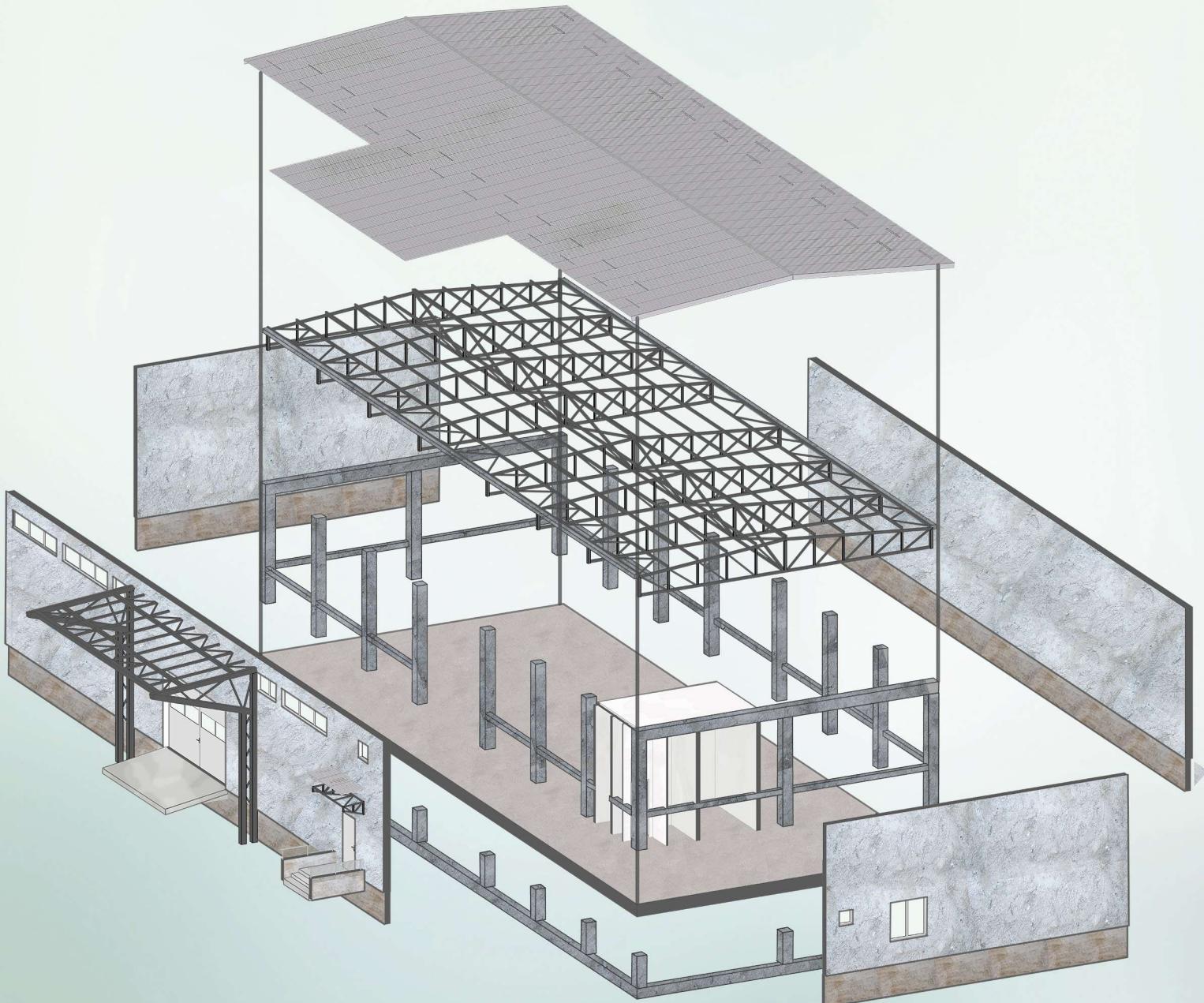
# **PROJECT FOR AN INDUSTRIAL FACILITY**

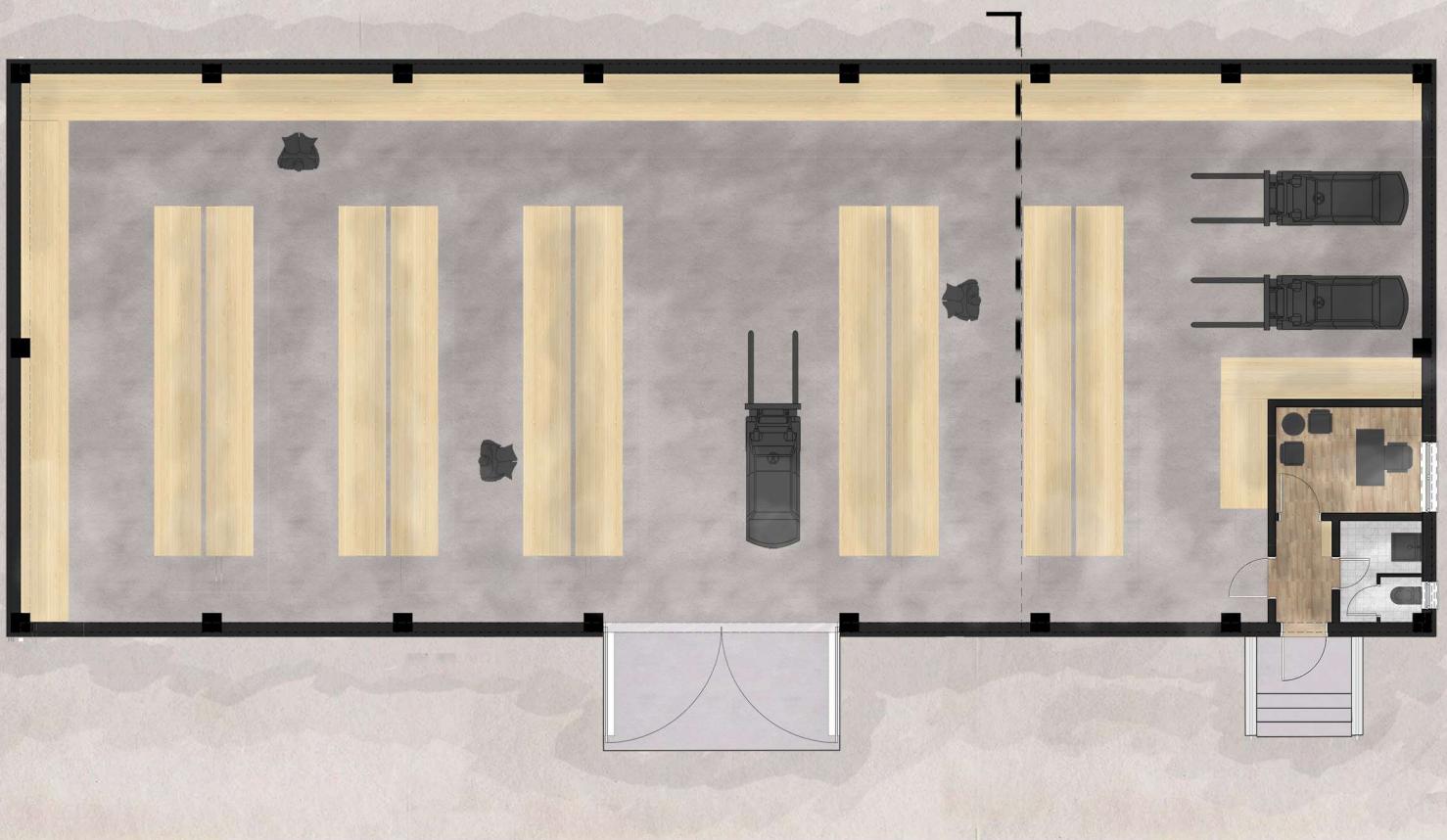
**ARCH. STUDIO: ART MIRON ING**

YEAR: 2017  
LOCATION: BUTEL, SKOPJE, N. MACEDONIA  
HEIGHT: GROUND FLOOR  
CONSTRUCTION: REINFORCED CONCRETE CONSTRUCTION  
WITH STRUCTURAL STEEL TRUSS

THE PROJECT IS COMPLETELY DESIGNED TO SUIT THE MINIMAL NEEDS OF THE CLIENT, WHICH ARE TO INVEST A BIGGER SPACE FOR THE WAREHOUSE SECTION AND A SMALLER SPACE FOR AN OFFICE.

STEEL TRUSSES ARE USED TO ALLOW A LARGER OPEN SPACE WITHOUT OBSTACLES. FOR SATISFYING THE VARIOUS INDUSTRIAL NEEDS, TWO ENTRANCES ARE DESIGNED ON THE FRONT FAÇADE, FOR PEOPLE AND FOR DELIVERY VEHICLES. ON THE ENTRANCES A LARGE STEEL CONSTRUCTION CANOPY IS DESIGNED THAT IS COVERED WITH METAL SHEET, AS WELL AS THE REST OF THE BUILDING.





**FLOOR PLAN**



**ELEVATION**

**SECTION**

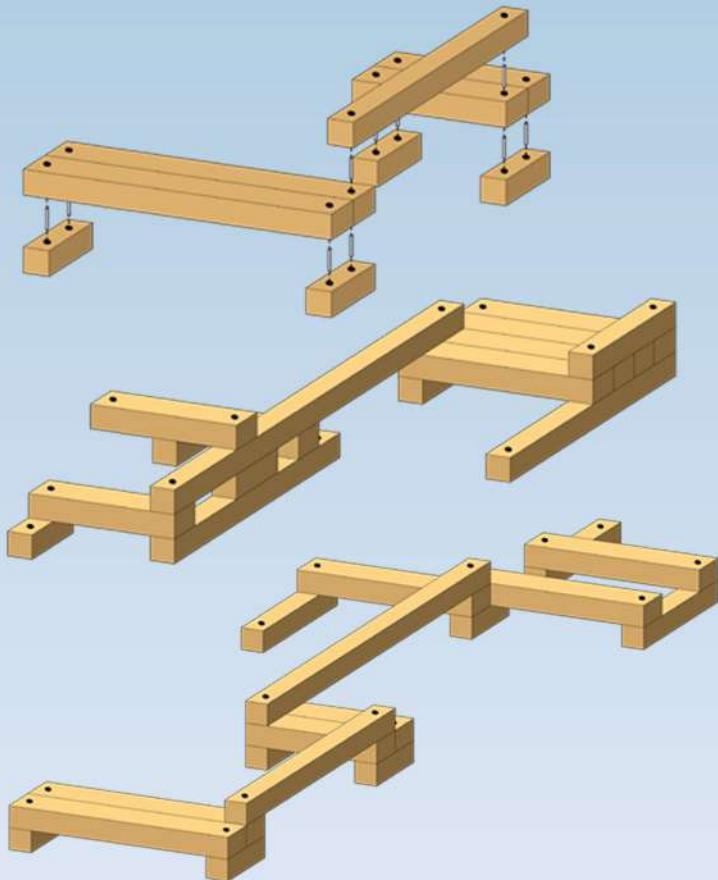
# **WINNER OF THE COMPETITION FOR D-FESTIVAL, REDEFINE THE ART SQUARE UNDER THE MOTTO: “WONDER IN WONDERLAND”**

YEAR: 2018 / 2019

LOCATION: DOJRAN, N. MACEDONIA

DESCRIPTION OF THE OPEN CALL: D-FESTIVAL LEADS UNDER THE MOTTO "WONDER IN WONDERLAND".

THE PURPOSE OF THIS COMPETITION IS TO INVOLVE A LARGER MASS OF CREATIVES THAT WOULD UNITE TO DESIGN AND CHANGE THE SPACE. JOIN US TO CREATE AN ATMOSPHERE THAT IS LEAD BY OUR SLOGAN AND REALIZED BY YOUR IMAGINATION THROUGH ARTISTIC CREATIVE INSTALLATIONS OR PAVILIONS.



FOR THE PURPOSE OF THE OPEN CALL, THE SPACE IS FORMED SIMPLY WITH WOODEN BEAMS INTENDED FOR MODULAR SEATING AS A SPACE FOR MEETING AND FRIENDSHIP. THE VISITORS THEMSELVES ARE DIRECT PARTICIPANTS SO THEY ARE THE ONES THAT ORGANIZE THE WAY OF SITTING AND IN SOME WAY THE LOOK OF THE INSTALLATION ITSELF. THE INSTALLATION IS MADE OF WOODEN BEAMS WITH SECTION 14/14cm AND WITH DIFFERENT LENGTHS WHICH ALLOW GREATER FLEXIBILITY WHEN FORMING DIFFERENT SITTING COMBINATIONS. THE RESULT OF THIS ARE VARIOUS FORMS THAT ARE ALWAYS IN CORRELATION WITH THE NEEDS OF THE USERS, BUT STILL KEEPING THE MAIN IDEA AS A SPACE FOR RELAXATION AND SOCIAL EVENTS. FOR HARDENING THE BEAMS TO ONE ANOTHER IN THE DIFFERENT DIRECTIONS, METAL RODS ARE USED THAT GO IN THE HOLES AT THE END OF THE BEAMS.



# STUDENT COMPETITION

FOR THE DEVELOPMENT OF A CONCEPTUAL SOLUTION FOR A NEW INTERNAL SPATIAL CONCEPT (DREAM SPACE) OF THE EXISTING CINEMA IN THE FAMOUS RAILWAY BUILDING.

YEAR: 2018

LOCATION: CENTAR, SKOPJE, N. MACEDONIA

DESCRIPTION OF THE OPEN CALL: PROPOSAL FOR SPATIAL ARRANGEMENT OF THE EXISTING CINEMA FOR ITS VARIOUS FUNCTIONS, AS A SPACE FOR THE COMMUNITY (TENANTS OF THE RESIDENTIAL BUILDING) AND A SPACE FOR CREATION AND REALIZATION OF CULTURAL AND ARTISTIC CONTENT.

FOR THE PURPOSE OF THE OPEN CALL, THE SPACE IS DESIGNED WITH METAL CHAIRS IN THE FORM OF RECTANGLES WITH DIMENSION 60/60cm AND HEIGHT 44cm WHICH ARE SUITABLE FOR MODULAR SEATING AND FORMATION OF VARIOUS COMBINATIONS FOR OTHER NEEDS. THEY ARE HOLLOW IN THE MIDDLE WHICH ALLOWS TO ENTER TWO SMALLER RECTANGLES WITH DIMENSIONS 56/60cm AND HEIGHT 20cm AND WHEN IT IS NEEDED TO HAVE MORE FREE SPACE, THEY CAN BE FOLDED INSIDE AND WHEN MORE SITTING SPACE IS NEEDED (EXHIBITIONS, INSTALLATIONS) THEY CAN BE ALL USED FOR VARIOUS SITTING COMBINATIONS. THIS WAY THE USERS FORM THE NEEDED SPACE WITH SIMPLE ASSEMBLY WITHOUT OCCUPYING TOO MUCH OF OTHER PEOPLE'S SPACE. NEXT TO THEM ARE METAL SHELVES WITH DIMENSIONS 60/30cm AND HEIGHT 44cm WHICH CAN BE LINED UP HORIZONTALLY AND VERTICALLY AND CREATE INTERESTING FORMS FOR OBTAINING THE NEEDS FOR AN EXAMPLE A LIBRARY. ADDITIONALLY THEY CAN BE USED IN COMBINATION WITH THE REST OF THE METAL CHAIRS.

