

THE CUBE

VIVES UNIVERSITY
KORTRIJK, BELGIUM
DMVA ARCHITECTEN

LOCATION: UNIVERSITEITSLAAN 2, 8500, KORTRIJK, BELGIUM

PROJECT DESIGNERS: DMVA ARCHITECTS:
DAVID DRIESEN
TOM VERSCHUEREN
JOLIEN DE BAETS
GERT-JAN SCHULTE
ROB NAULAERS

STRUCTURAL ENGINEERING: HP ENGINEERS

CLIENT: VIVES ZUID VZW, HOGESCHOOL

STABILITY ENGINEERING: COBE

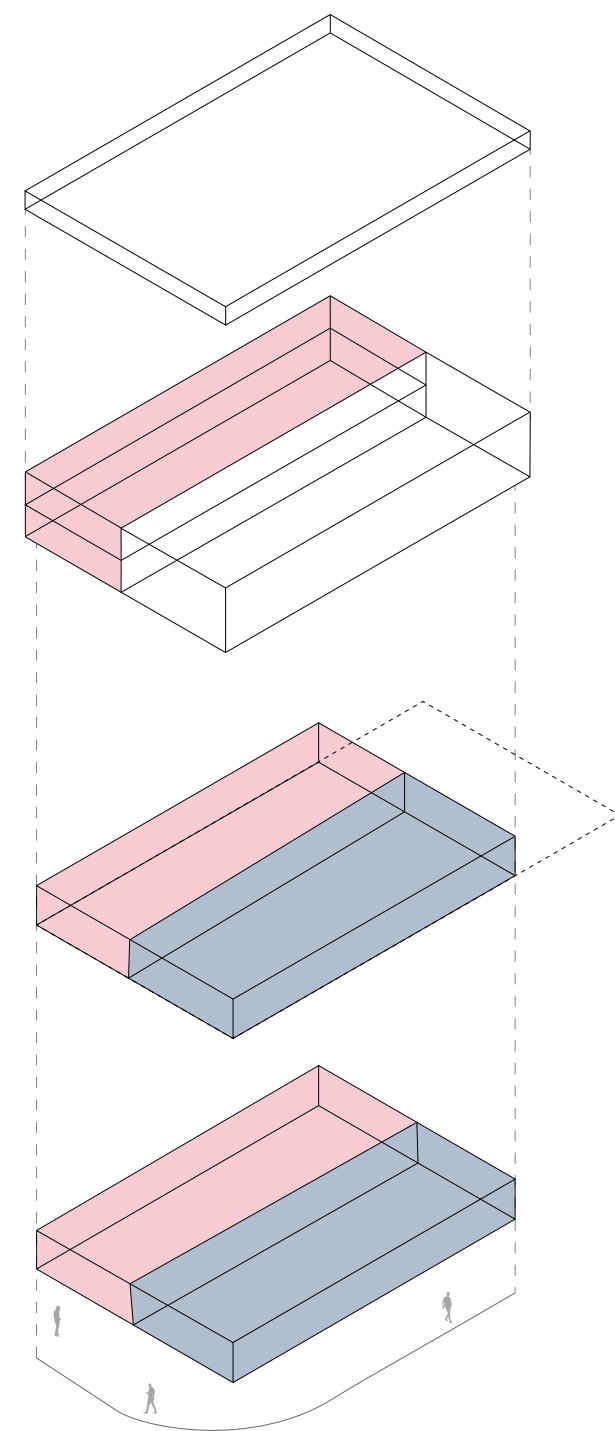
BUILDING COST: 4 500 000 EURO (EXCL. BTW)

BUILT AREA: 2500 M2

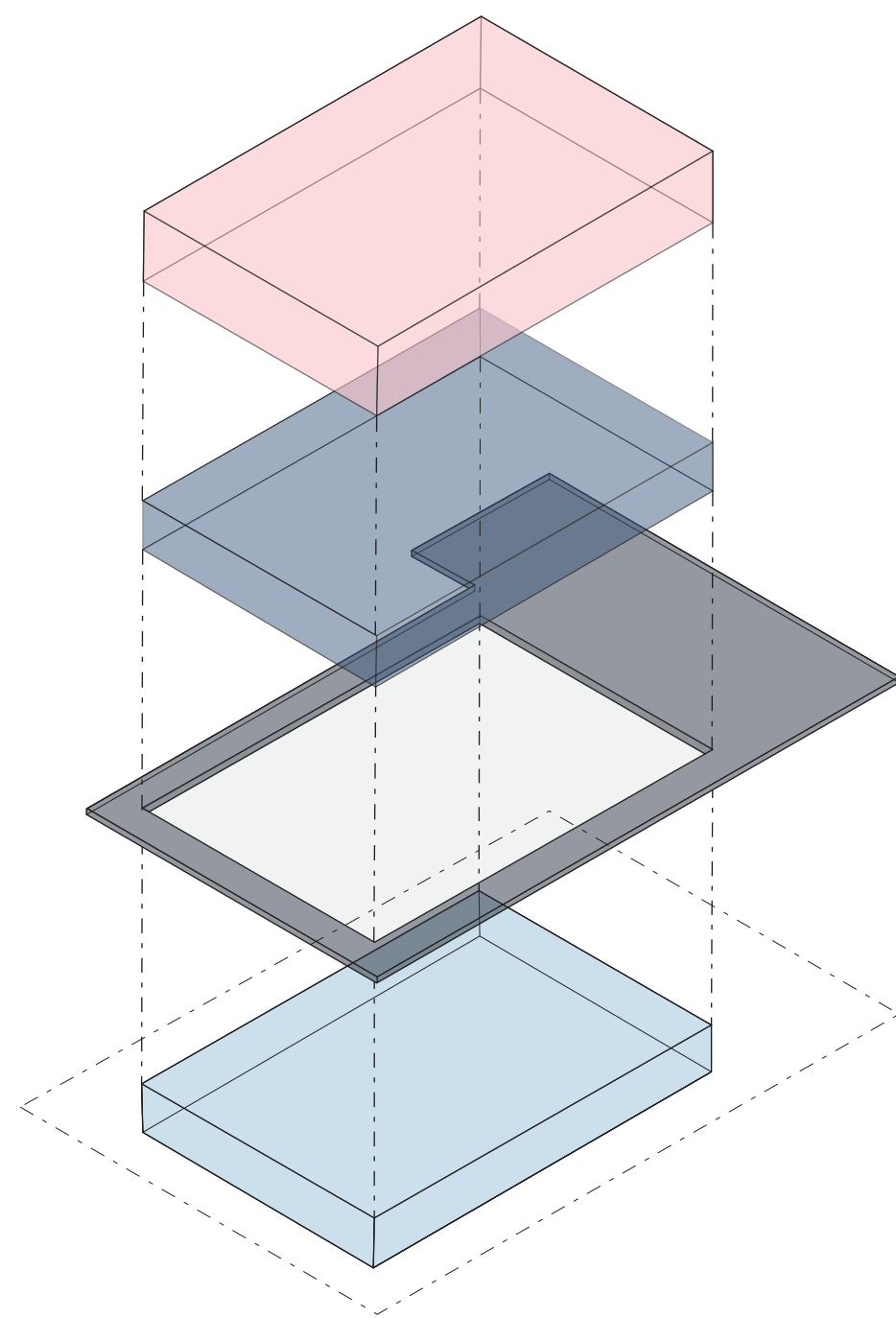
DATE OF COMPLETION: NOVEMBER 2017



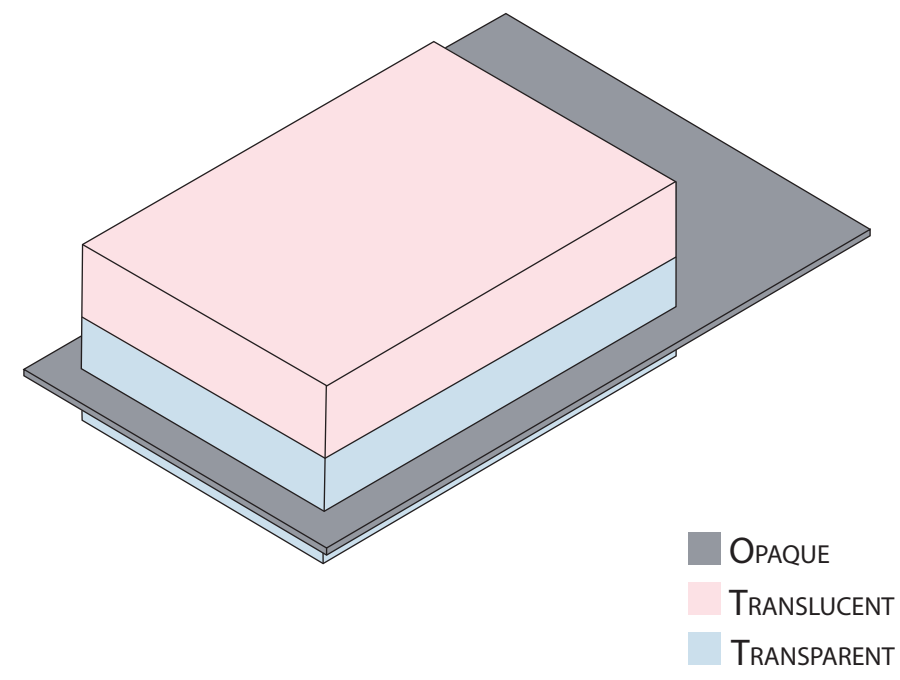
CONCEPT DIAGRAM



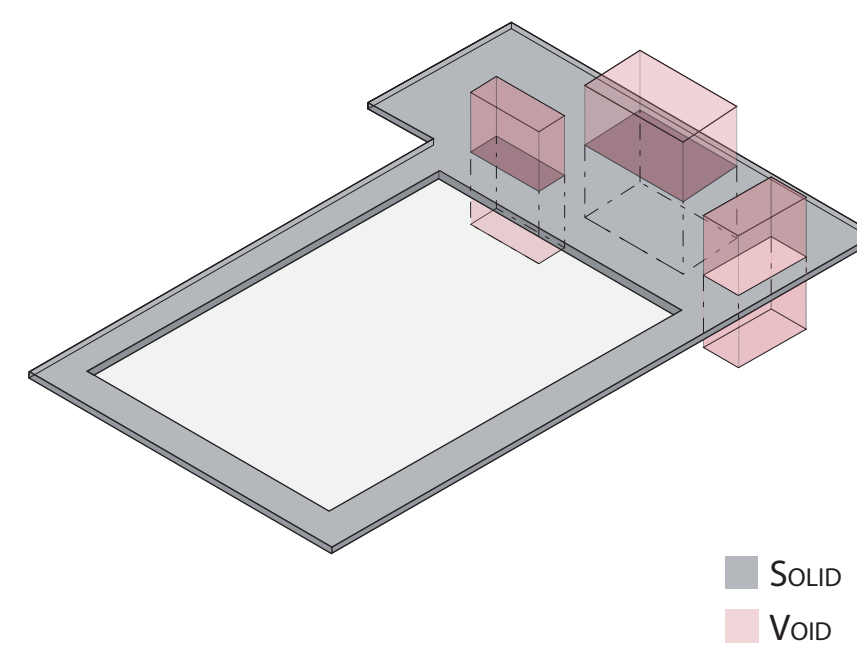
LAYERING



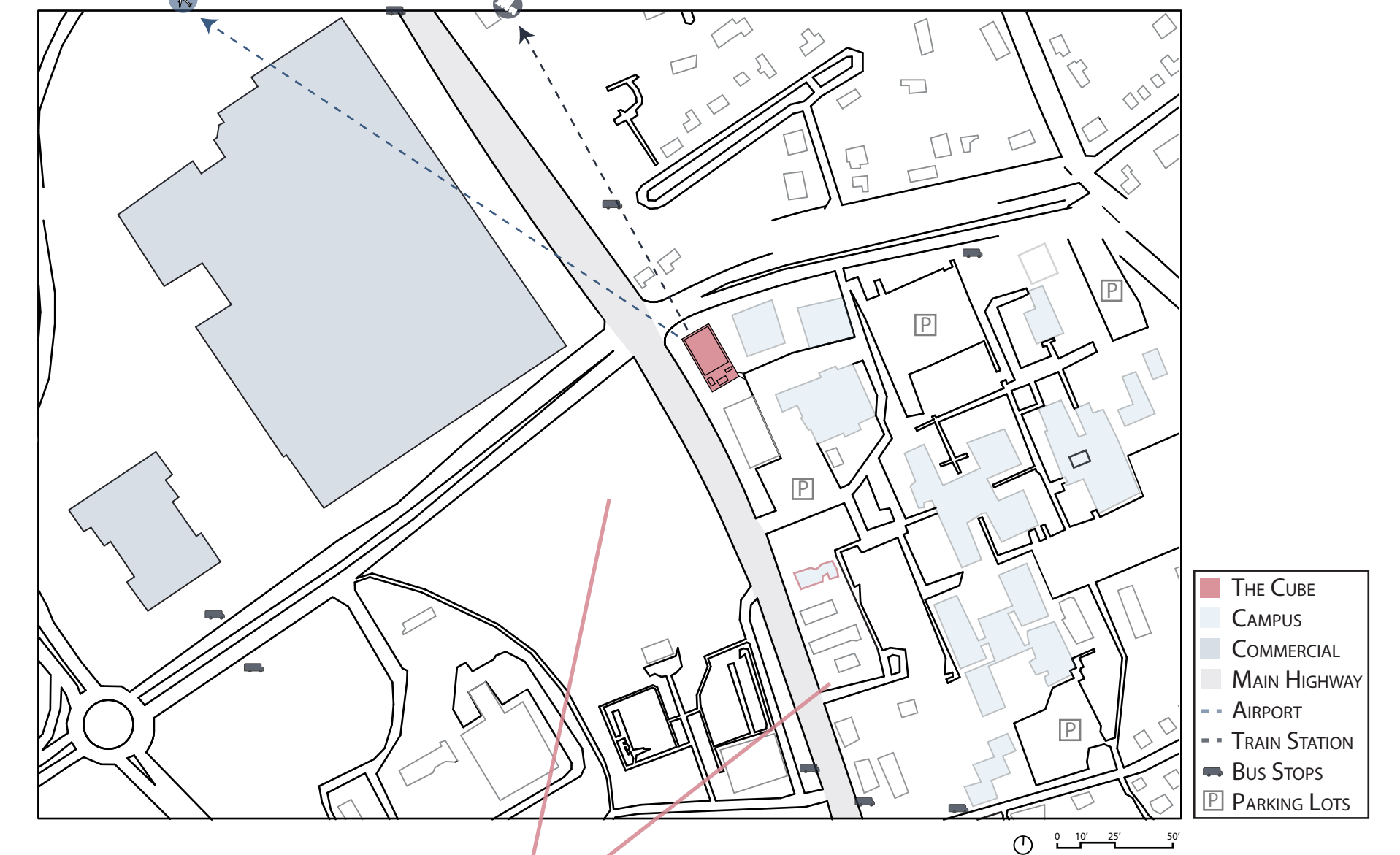
OPAQUE V. TRANSPARENT



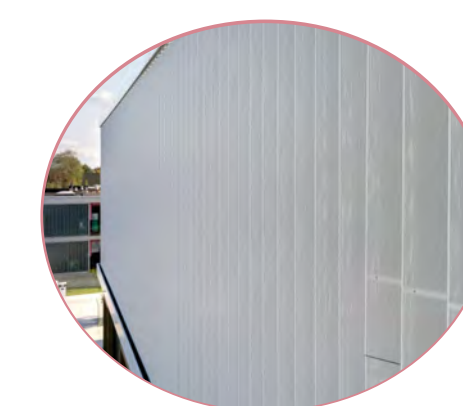
SOLIDS AND VOIDS



SITE ANALYSIS



SITE MATERIAL RELATIONSHIP



THE CUBE

METAL FACADE PERFORATED WITH SMALL CIRCLES IN ORDER TO HELP WITH FILTRATION AND SHADING DURING DAYLIGHT HOURS SINCE THERE ISN'T FOLIAGE OR TALL STRUCTURES TO BLOCK THE SUN FROM THE GLASS SURROUND FLOORS.

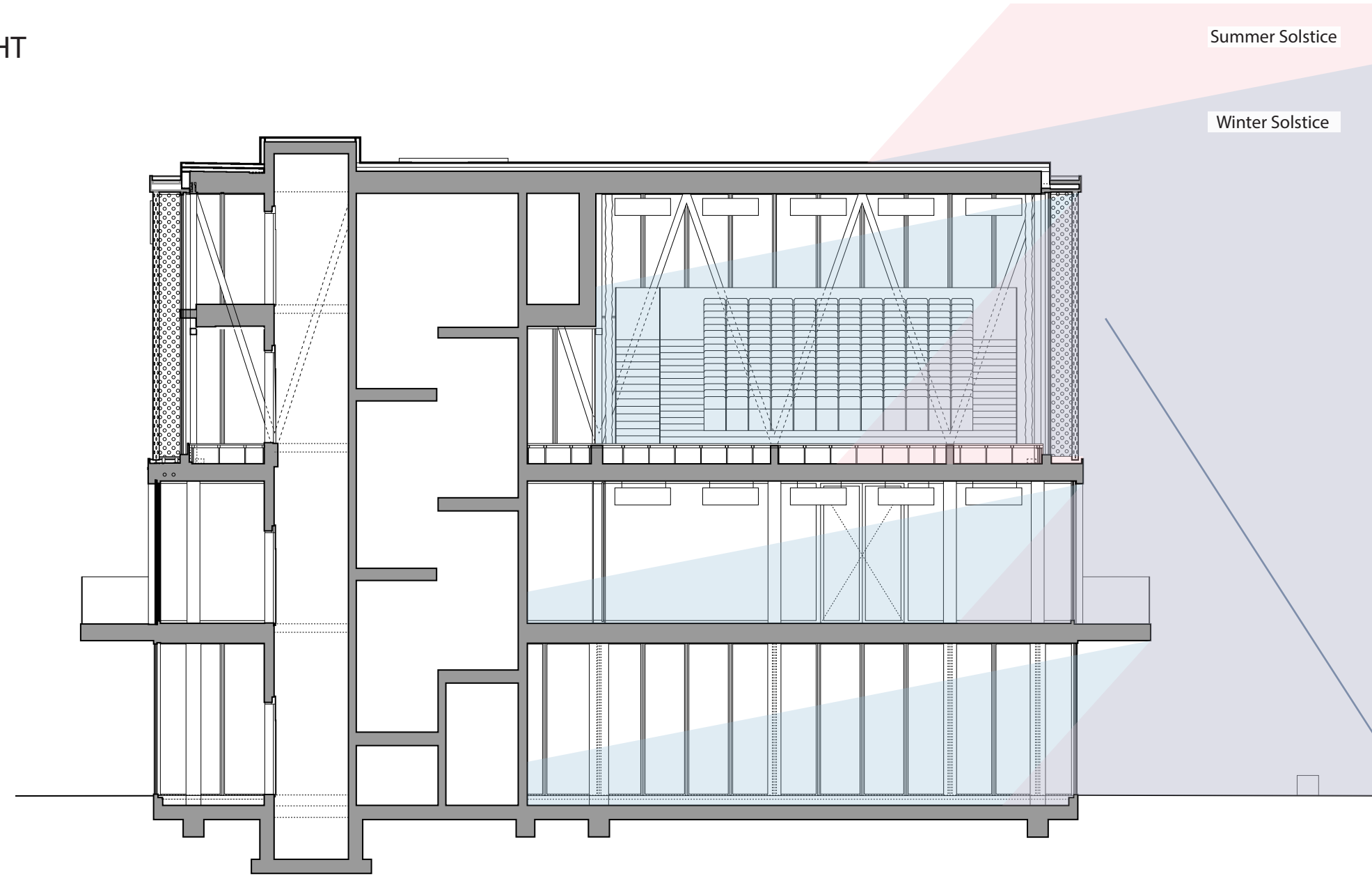


VIVES UNIVERSITY STUDENT CENTRE

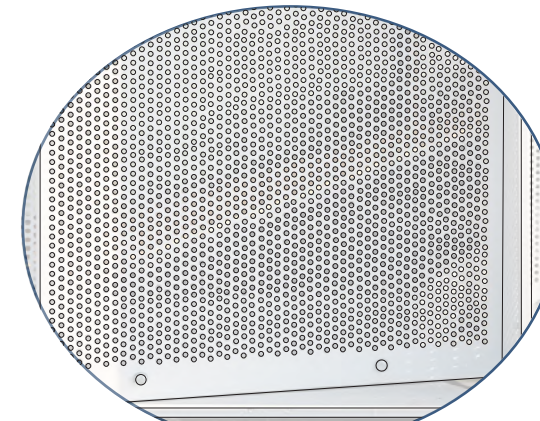
BUILT WITH ALUMINUM SHEETS THAT WERE PERFORATED WITH GEOMETRIC SHAPES, MOSTLY CONSISTING OF DIAMOND SHAPES HOLES, WHICH ENDED UP CREATING AN ILLUSION WITH LIGHT OF THOUSANDS OF TINY CUBES. IN ADDITION TO THE SHAPE OF A CUBE APPEARING WITH AN ALLUSION OF LIGHT, THE STRUCTURE AND FACADE ITSELF FOLLOW THAT OF A CUBE.

"WE DESIRED TO GIVE THE RIGIDNESS OF THE FRAMEWORK OF THE FACADE A LIGHTNESS BY IMPLIES OF THE PERFORATIONS, WHICH ARE A NEUTRAL LAYOUT PRIMARILY BASED ON A CUBE," DECOCK EXTRA.

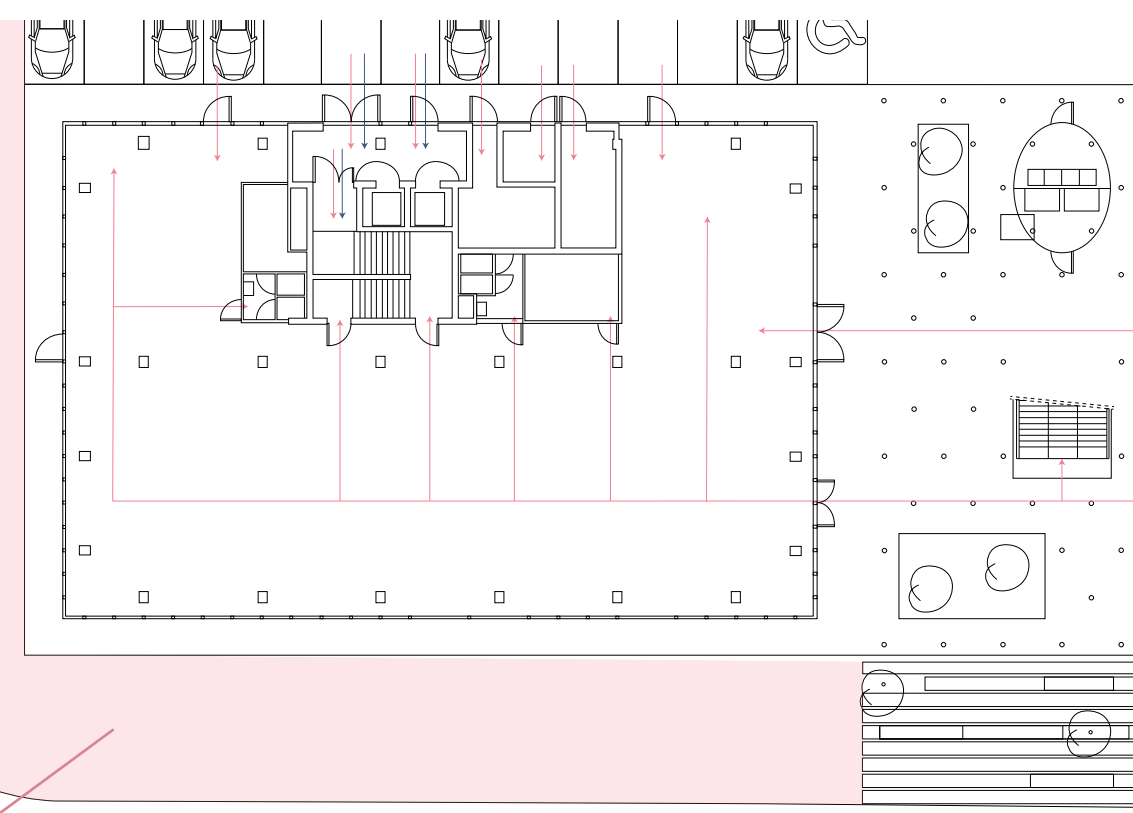
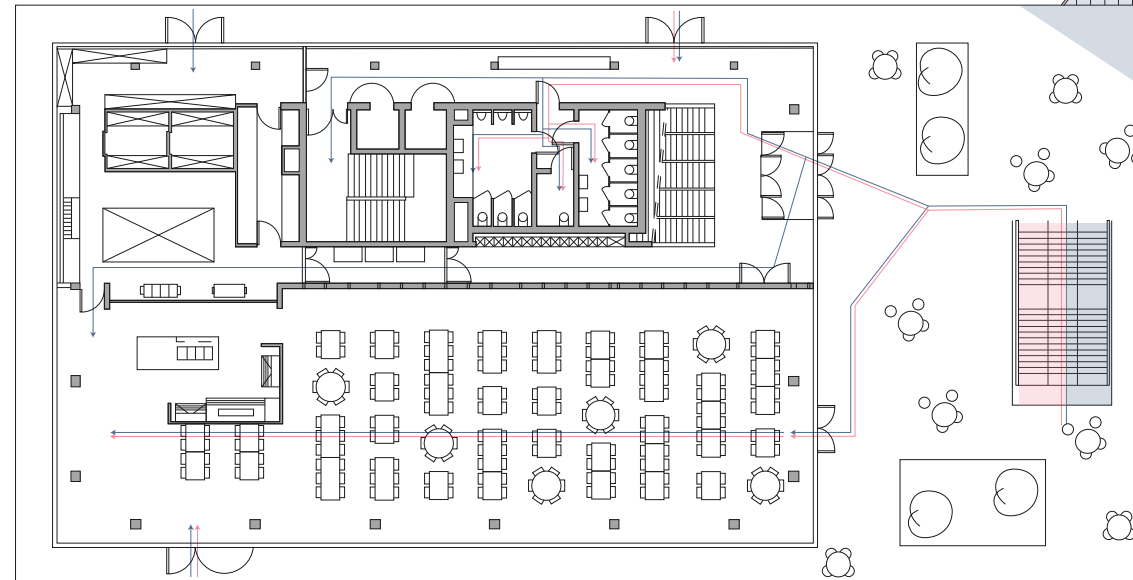
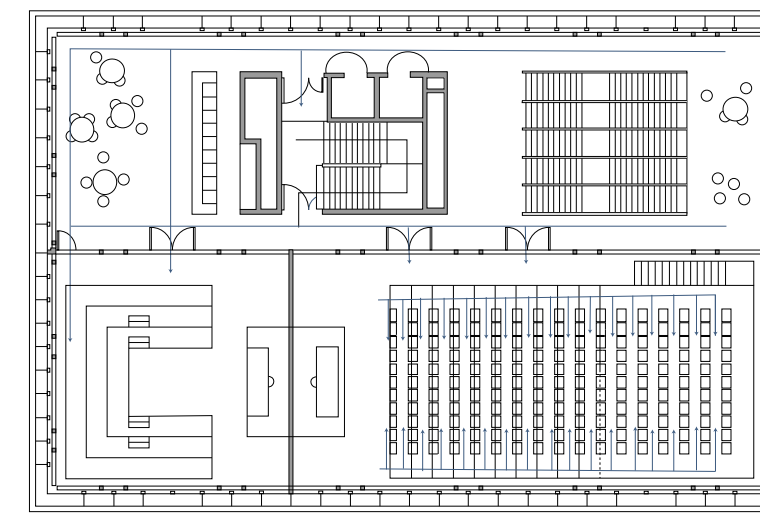
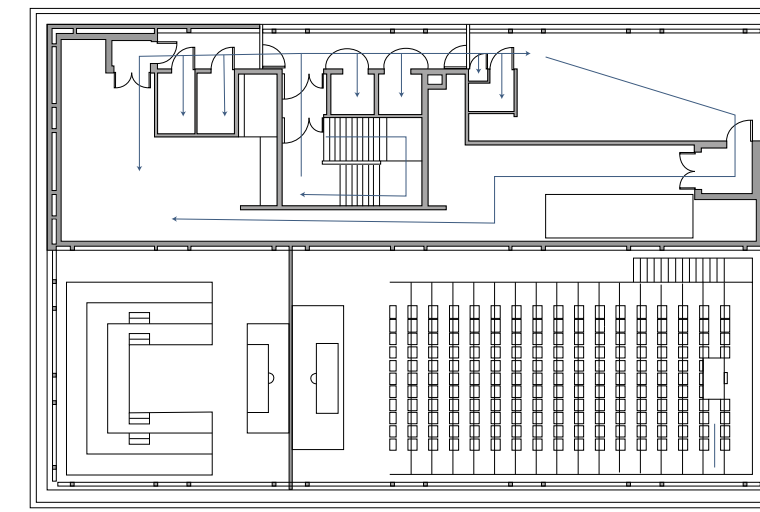
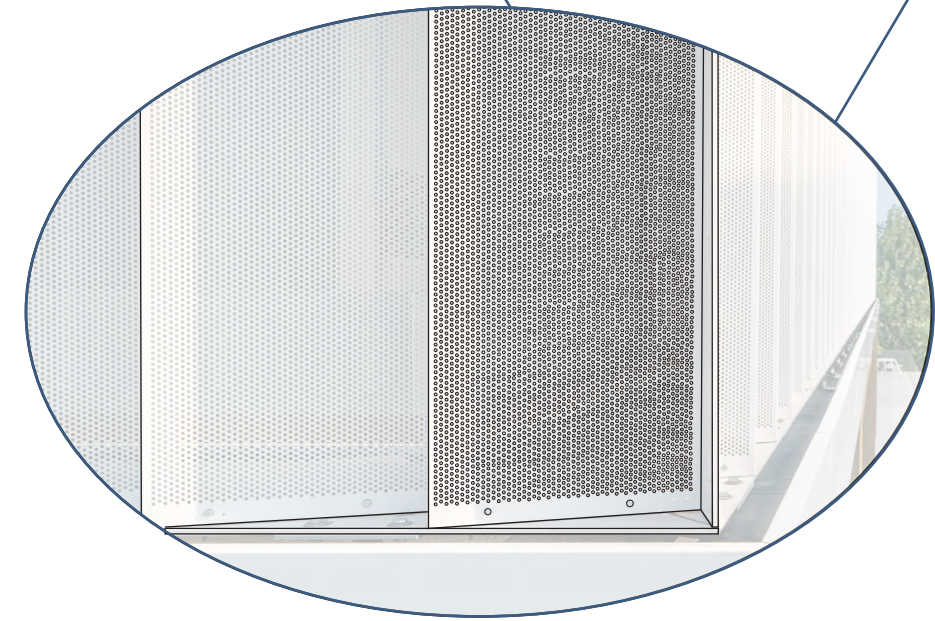
LIGHT



STUDENT V. PUBLIC CIRCULATION/
ARRIVAL AND ENTRY

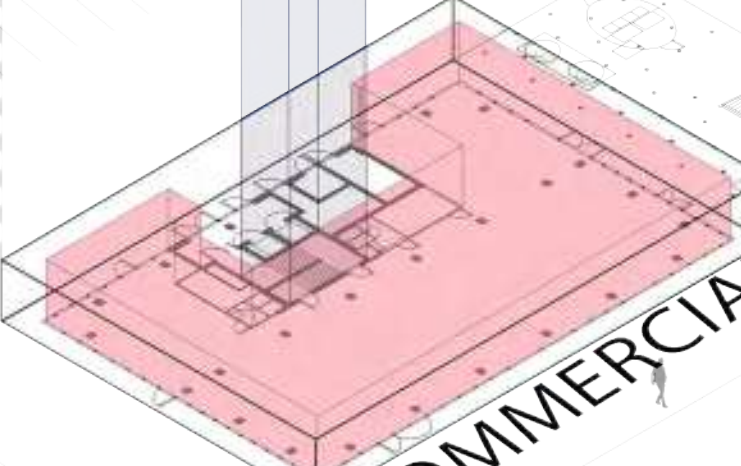
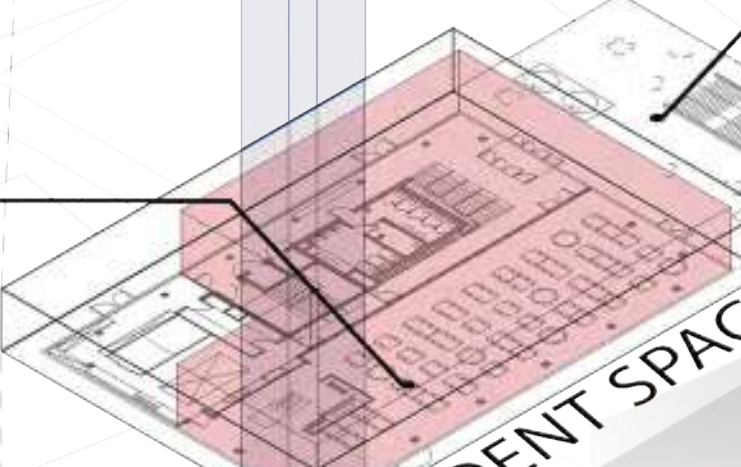
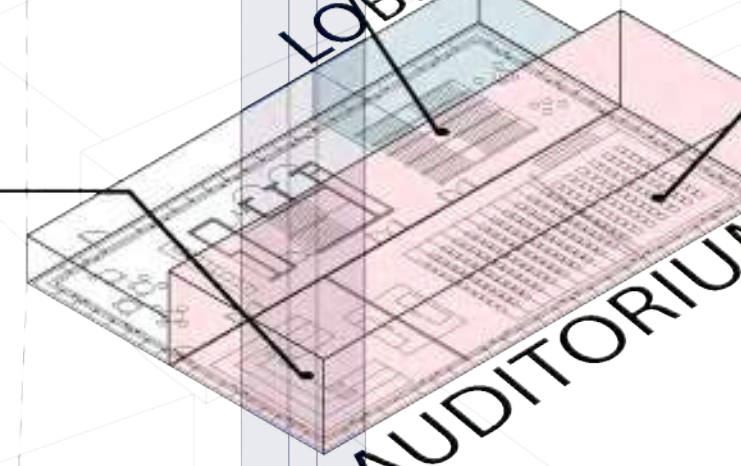
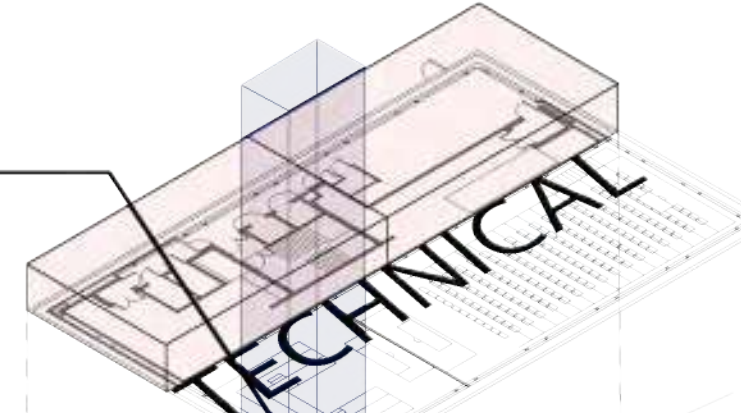


THE POROUS METAL FACADE USED ON THE TOP FLOOR HELPS WITH LIGHT DIFFUSION AS IT ACTS AS A SHADING SYSTEM TO HELP KEEP THE SPACES COOLER DUE TO LACK OF SURROUNDING FOLIAGE AND TALL STRUCTURES



SECOND FLOOR ARRIVAL IS THROUGH THE "FLOATING PLATFORM" USED BY STUDENTS AND IS THE CONNECTION TO THE CAMPUS.

PROGRAM



GROUND FLOOR ARRIVAL IS ACCESSIBLE TO THE PUBLIC AND LEADS TO THE MAIN FLOOR WHICH CONTAINS COMMERCIAL SPACES SUCH AS THE CAFE.

STRUCTURAL SYSTEM



IN ORDER TO DEVELOP THE ARCHITECTS CONCEPT OF "LITERAL STACKING OF OPEN SPACES TO CREATE A CUBE" THEY USED CONCRETE SLAB FLOORING SUPPORTED BY A SYSTEM OF STEEL TRUSSES AS WELL AS A "CENTRAL CONCRETE CORE" MADE UP OF AN ELEVATOR, STAIRS, AND SHAFTS THAT GUARANTEE THE STABILITY OF THE STRUCTURE

