

REFLEXION

WE WANTED TO HAVE A FEELING OF FLOWING MATERI-AL, TO GIVE AN UNUSUAL VISION TO THE ONE YOU CAN HAVE OF A CLASSIC CONCRETE SURFACE.

THIS IDEA OF TEXTURE WAS NOT TO BE LIMITED TO JUST ONE SIDE OF OUR MODULE. THE EXPERIMENTATION OF POSITIVE (+) AND NEGATIVE (-) IS DONE ON TWO PARALLEL FACES. ON ONE SIDE, A SERIES OF VOLUMES HOLLOWS OUT THE MASS OF CONCRETE, ON THE OTHER SIDE IT EMERGES.



RESEARCH ON MODULARITY IS ESSENTIAL FOR THIS PROJECT. THE GOAL IS TO PRODUCE AN ELEMENT THAT COULD BE REPEATED TO FORM A COHERENT WHOLE. THE DIFFERENT ELEMENTS CAN VARY A BIT FROM ONE ANOTHER, DEPENDING ON THE PLEXIGLASS MOULDS USED AND THEIR POSITIONING IN THE FORMWORK.

TO ACHIEVE SUCH A RESULT, WE HAD TO FIND A PATTERN THAT COULD BE REGULAR, A GRID.



THE MOULD IS FORMED BY 2 SHEETS OF 5MM THER-MO-DEFORMED PLEXIGLASS. AFTER SEVERAL TESTS, WE DECIDED TO GO FOR A GRID MADE OF PARALLEL LINES. WHEN THE CONCRETE BLOCK WILL BE ASSEMBLED ON A WALL, THESE LINES WILL BE VERTICAL. EACH BUBBLE IN THE PLEXIGLASS IS DIFFERENT FROM THE OTHERS, DEPENDING ON THE WAY THE SHEET HAS TAKEN ITS FORM WHEN HEATED. THIS SHAPE CAN BE RELATIVELY CONTROLLED BY HEATING MORE OR LESS ONE SPOT, AND BY INCLINING THE PLEXIGLASS TO OBTAIN A WAVE EFFECT.

ONE OF THE AMBITIONS OF OUR MODULE IS TO OFFER A DOUBLE PERCEPTION.

IF YOU LOOK AT IT FROM THE FRONT, A REPETITIVE VERTICAL PATTERN AND A SHADING PLAY ARE IDENTIFIED. WHEN YOU OBSERVE IT FROM THE SIDE, YOU UNDERSTAND THE RELIEFS THAT CREATE THESE SHADOWS:

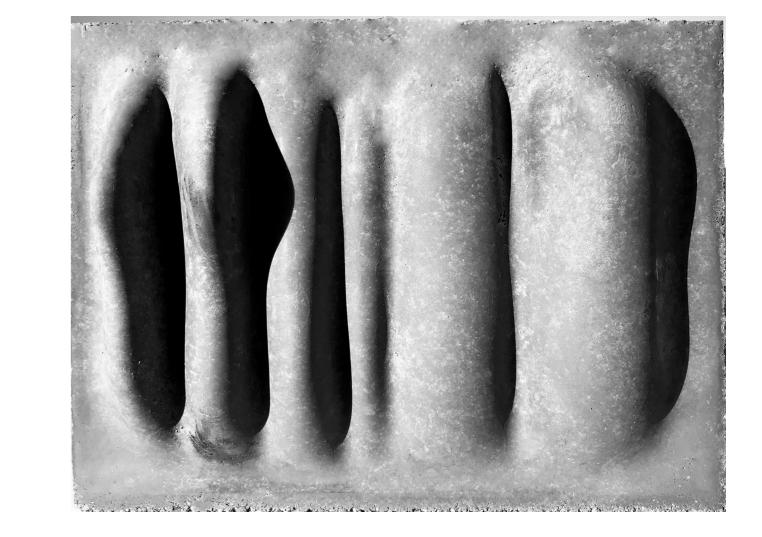
THE BUMPS THAT COME OUT OF THE BLOCK OR THE GROOVES THAT DIVE INTO THE MATERIAL.

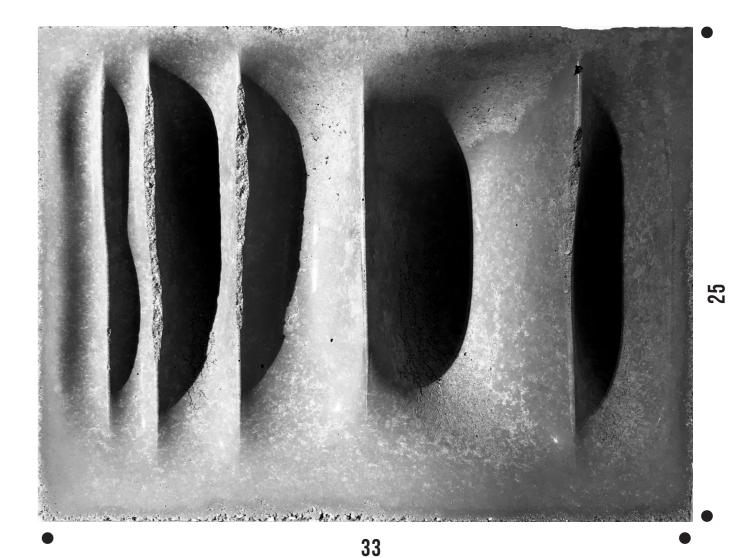
FORMWORK

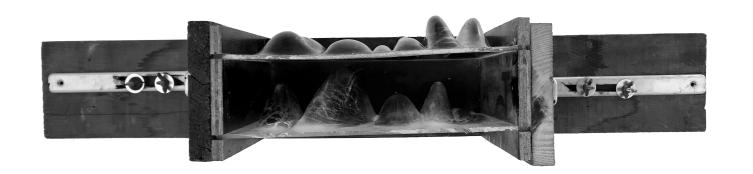
ALL PLEXIS HAVE THE SAME SIZE OF 33X25CM AND ARE THEREFORE INTERCHANGEABLE.

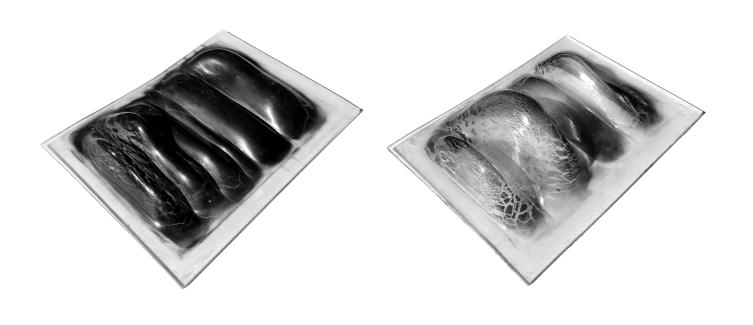
IT IS ALREADY POSSIBLE TO OBTAIN A MULTITUDE OF DIFFERENT BLOCKS SHAPES WITH A VARIATION OF 4 OR 5 SHEETS, BY ALTERNATING THEIR POSITION IN THE FORMWORK.

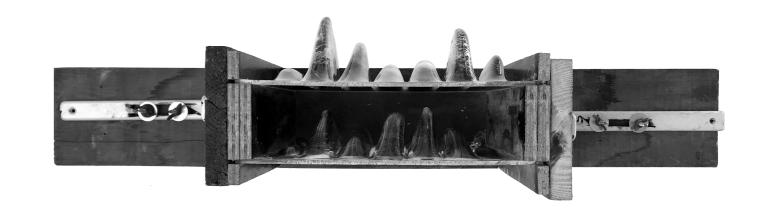
THIS SYSTEM ALLOWS A SUCCESSIVE REUSE OF THE FORMWORK, ONCE THE PLEXIS HAVE BEEN CLEANED.

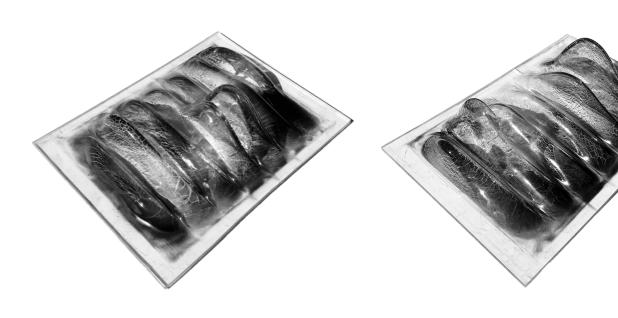














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MODULAR LECTURE

WHEN THE CONCRETE BLOCKS ARE JUXTAPOSED TO FORM A WALL, THE LIGHT EFFECT ALLOWS YOU TO SENSE THE DIFFERENT RELIEFS.

THE GRID REVEALS A CERTAIN VERTICALITY WHICH IS REINFORCED BY THE THINESS OF THE VERTICAL JOINTS.

ON THE OTHER HAND, THE HORIZON-TAL JOINTS ARE DELIBERATELY LEFT THICKER TO CALM THINGS DOWN AND OFFER A RESPIRATION IN THE PATTERN.

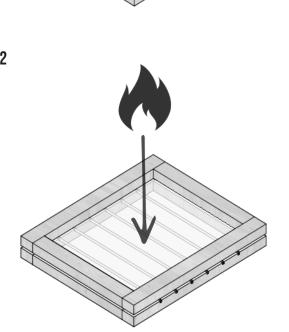
THE DIFFERENT BLOCKS CAN BE PLACED ALTERNATELY, SOMETIMES WITH A HOLLOWY FACE AND SOMETIMES WITH A BUMPY FACE.







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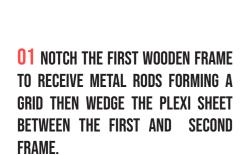


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02 ONCE EVERYTHING IS SECURED IN PLACE, HEAT IT USING A BLOWTORCH.

03 THE PLEXIGLASS SHEET MELTS ONTO THE RODS UNDER THE HEAT, REVEALING THE GRID BETWEEN THE BUBBLES.

04 INSERT THE 2 PLEXIS INTO THE GUIDES AT THE BOTTOM OF THE WOODEN FORMWORK. THESE SLOTS ARE THE SAME THICKNESS AS THE PLEXIS, WHICH IS 5MM.

O5 BRING THE CORNERS OF THE BRACKETS TOGETHER UNTIL THE 2 PLEXIS SLIDE INTO THE VERTICAL GUIDES, THEN TIGHTEN THE SCREWS TO HOLD THEM IN PLACE.

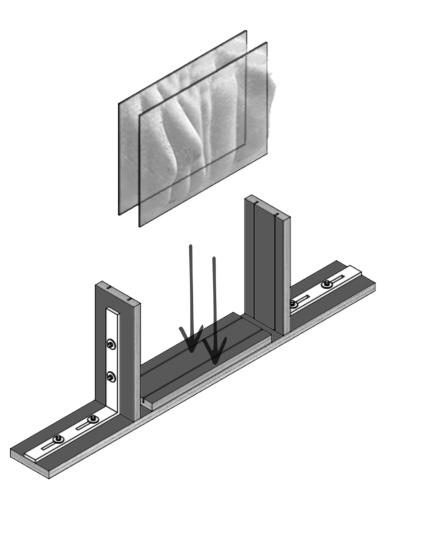
06 POUR THE CONCRETE BETWEEN THE 2 PLEXIGLASS SHEETS AND GENTLY TAP AROUND THE FORMWORK TO BRING UP THE AIR BUBBLES ALONG THE SIDES.

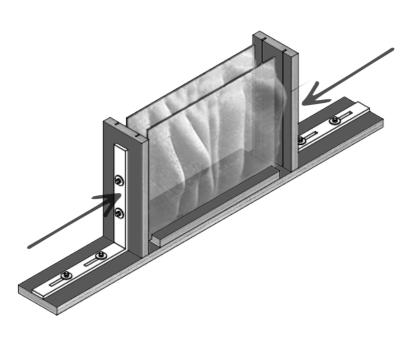
07 LOOSEN THE SCREWS THAT HOLD THE BRACKETS IN PLACE AND OPEN THE VERTICAL PARTS OF THE FORMWORK.

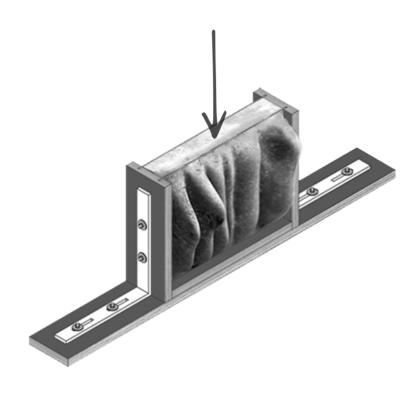
08 PULL UP THE CONCRETE BLOCK, STILL STUCK BETWEEN THE 2 PLEXIS.

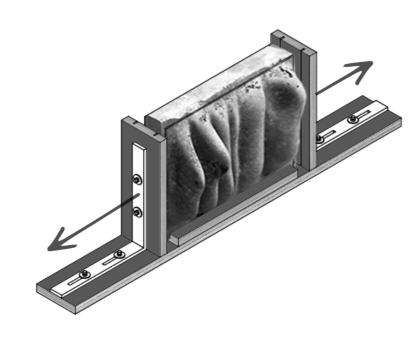
O9 REMOVE THE PLEXIS FROM THE CONCRETE, THE RESULT IS SMOOTH AND SHINY.

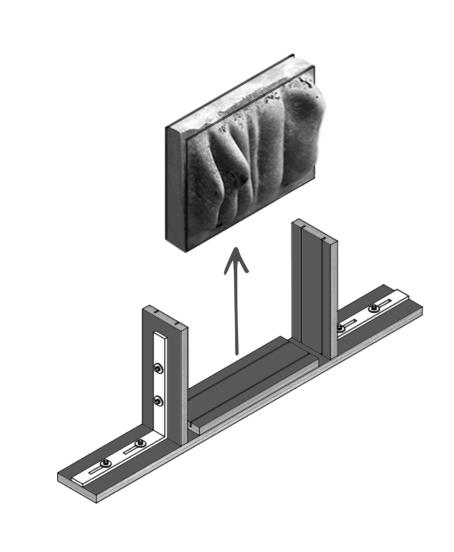
DEMOULDING IS EASY; THE DEFORMED SHEETS DO NOT CLING TO THE MATERIAL, MAKING THEM EASY TO CLEAN AND REUSE THE FORMWORK.













OPEN-SPACE
ASSEMBLING THE DIFFERENT BLOCKS
INTO A PARTITION WALL ALLOWS US TO
TAKE ADVANTAGE OF ITS TWO SHAPED
FACES, ONE EMERGING IN AND THE OTHER SUBMERGING OUT.

IT IS THEREFORE POSSIBLE TO COMBINE THE BLOCKS IN SEVERAL WAYS:

ONE SIDE OF THE PARTITION WALL FULLY CURVED, THE OTHER RECESSED;

OR THE TWO FACES ALTERNATIVELY ON THE SAME SIDE OF THE WALL.

FACADE

THE USE OF THE CONCRETE MODULE AS A CLADDING FOR A FACADE GIVES THE OPPORTUNITY TO PLAY WITH RELIEF AND LIGHT. IN RAINY WEATHER, WATER FLOWS INTO THE GROOVES CREATED BY THE VERTICAL GRID.

IN THIS CASE, THE CONCRETE ELEMENTS HAVE THE DIMENSIONS OF STANDARD BLOCKS, THE VERTICAL JOINTS BETWEEN THEM FADE AWAY TO LET THE HORIZONTAL JOINTS EXPRESS THEMSELVES ON THE FAÇADE.

A PARTICULAR MUDULAR COMPOSITION COULD BE IMAGINED, AROUND THE OPENINGS FOR EXAMPLE.

SUBSTRUCTURE

THE SOLID NATURE OF OUR CONCRETE MODULE MAKES IT VERY SUITABLE FOR APPLICATION IN THE LOWER PART OF A FACADE.

PROMINENCES AND HOLLOWS UNDERLINE THE BASE OF THE BUILD-ING AND GIVE DEPTH TO AN OTHERWISE UNIFORM FACADE.

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ITS PARTICULAR GEOMETRY ALLOWS US
TO IMAGINE IT ON A LARGER SCALE, FOR
A LANDSCAPING DESIGN FOR EXAMPLE.
ACCOMPANING VISITORS ALONG

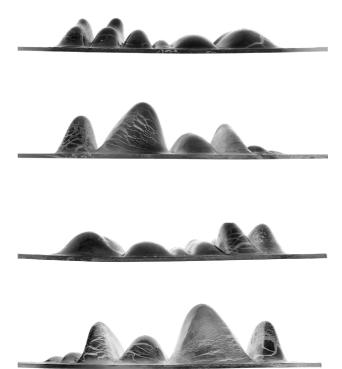
A PATHWAY, SUB-DIVIDING A PUB-LIC SPACE, OR SIMPLY LETTING USERS INTERACT WITH ITS ORAGNIC-SHAPED FACES. MUSIC ROOM

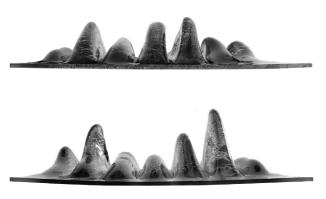
THE RIPPLES IN EACH BLOCK ARE MULTIDIRECTIONAL, ALLOWING SOUND WAVES TO BE REFLECTED IN ALL DIRECTIONS.

THIS IS WHY ITS INSTALLATION IN A MUSIC OR THEATRE HALL WOULD BE APPROPRIATE IN COMBINATION WITH AN ABSORBENT CEILING.

ART GALLERY

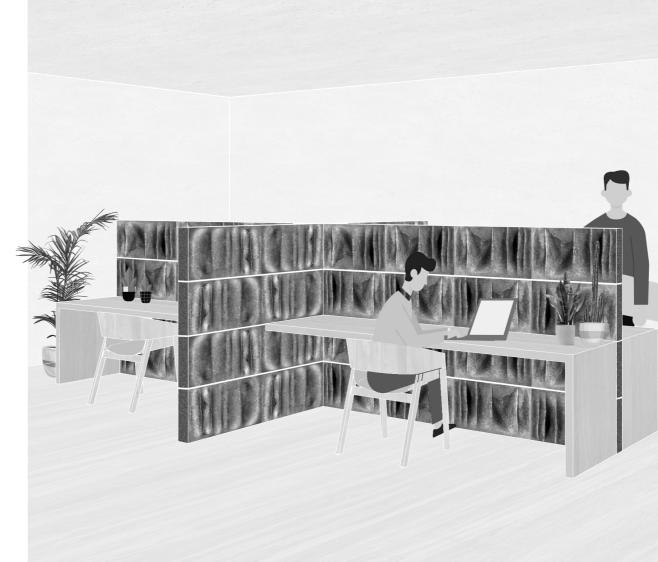
FINALLY, THE DIFFERENT MODULES COULD BE HUNG SEPARATELY, LIKE PIECES OF ART ON THE WALLS OF AN EXHIBITION.











APPLICATION IN ARCHITECTURE

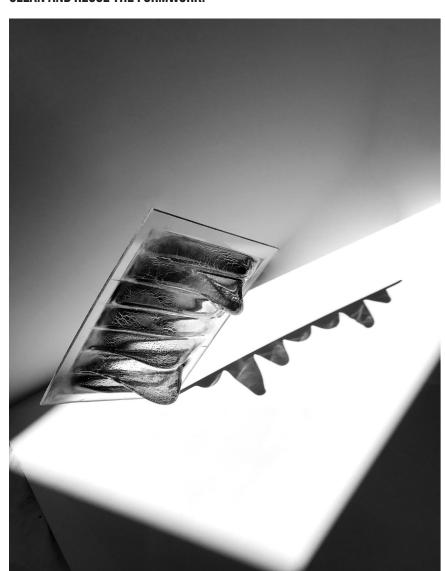
REPETITION IS NEVER IDENTICAL:
THE COMBINATION OF THE SMOOTH
ASPECT OF CONCRETE AND THE
ORGANIC GEOMETRY GIVEN BY THE
SHAPE OF THE PLEXIGLASS GIVES IT
A VERY SINGULAR RENDERING.
ONE OF THE ADVANTAGES OF THE
MODULE IS THAT IT CAN BE PRODUCED ON DIFFERENT SCALES, IN
SINGLE OR DOUBLE SIDED, AND CAN
THEREFORE BE USED AND INTER-

PRETED IN A VARIETY OF WAYS.











REGULAR GRID

STILL IN THIS IDEA OF DOUBLE PERCEPTION, THE REGULAR GRID ALLOWS A MORE RELEVANT READING WHEN THE BLOCKS ARE ASSEMBLED. IN A FACADE FOR EXAMPLE, A SENSE OF ALIGNMENT CAN BE FELT BETWEEN THE GRIDS OF THE DIFFERENT MODULES.

ONLY THE RELIEF IS IRREGU-LAR, IT SLIPS INTO THE VERTICAL STRIPS OF THE GRID. THIS ONE IS SOMETIMES QUITE SOFT, AND SOMETIMES MORE PRONOUNCED.

