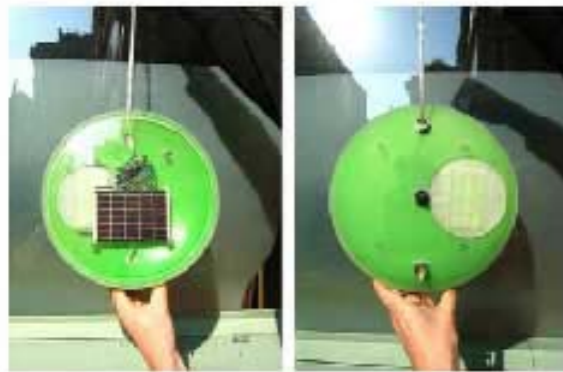




00 ARBOL HOJAS/TREE LEAVES 



THE "ARTIFICIAL LEAF" PROTOTYPE
 STEREO LITHOGRAPHY
 IGUZZINI AND CLOUDS PATENT

SCALE: 1/1,
 MEASURES: 26 CM DIAMETER AND 6 CM HEIGHT.

MATERIALS: STEREO LITHOGRAPHY, CURVED GLASS SURFACE,
 PHOTOVOLTAIC CELLULE, CPU, BATTERY AND 3 LEDS (RGB)

IT WORKS WITH 220 VOLTS POWER, EUROPEAN STANDARD SWICHT.



MODEL COMPACT VERSUS SKIN

SCALE: 1/100
 BASE: 56x58 CM, TRANSLUCENT
 (POSSIBLE TO BE ILLUMINATED FROM BELOW)
 HEIGHT 43 CM

MATERIALS:
 WHITE PAINTED WOOD
 NYLON MESH
 3000 GREEN LASER-CUT PLEXIGLASS DOTS



MODEL METABOLAT PRINTS
 SCALE: 1/200
 BASE: 30x45 CM, TRANSLUCENT
 (POSSIBILITY TO ILLUMINATE IT FROM BELOW)
 HEIGHT 35 CM

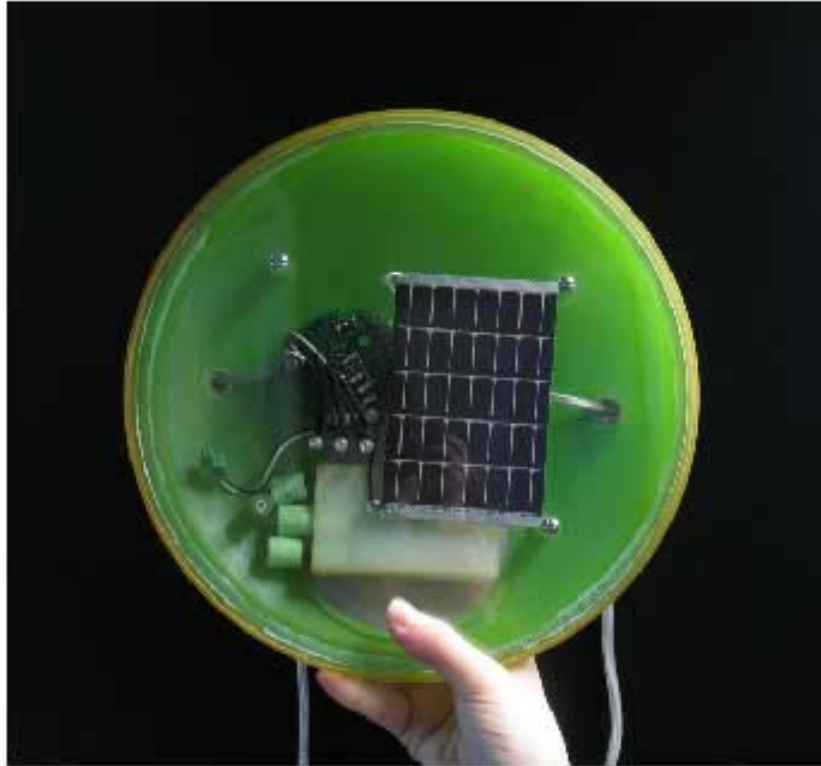
MATERIALS:
 A SERIES OF COLOR DIGITAL PRINTS ON PLEXIGLASS AND FOAM.



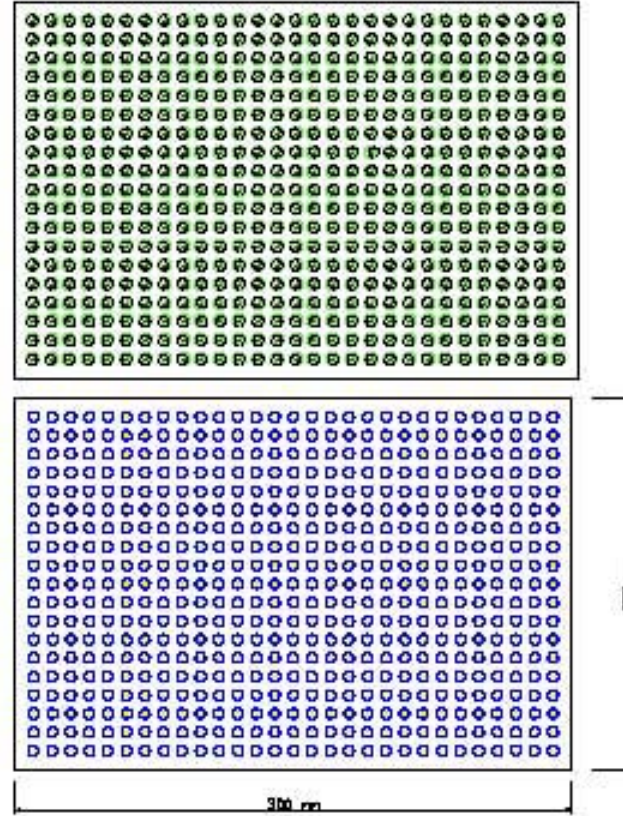
MODEL "ENERGY SKIN"
 (UNDER CONSTRUCTION, WILL BE FINISHED BY DECEMBER)

SCALE: 1/50
 DIMENSIONS: 113 CM BY 140 CM
 HEIGHT: 105 CM
 BASE: LARGER THAN 120 CM BY 120 CM IN PLAN TRANSLUCENT PLEXI-GLASS
 (POSSIBILITY TO ILLUMINATE IT FROM BELOW)

MATERIALS:
 COMPACT BUILDING MADE OF TRANSLUCENT PLEXI GLASS
 STAINLESS STEEL METAL SKIN,
 AND REAL LEDS WORKING IN A RANDOM WAY, DAY LIGHT AND NIGHT LIGHT,
 PROGRAMED BY JAMES CLAR, LIGHT DESIGNER.
 TECHNIK USED: STEREO LITHOGRAPHY, WORKING LEDS,



HOJA PROTOTIPO
E: 1/1

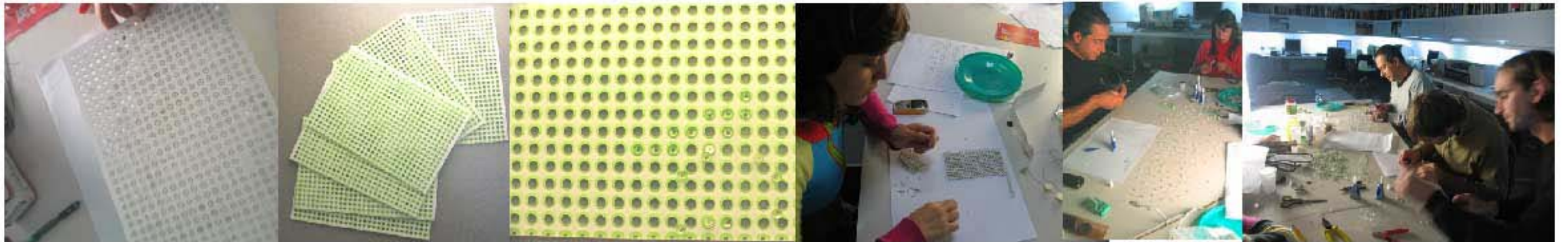


6000 HOJAS
12 PLANCHAS 12 GRILL
551 DISCOS 551 CIRCLE
METACRILATO DE ESPESOR 2MM METHACRYLATE, THIN 2 MM
CÍRCULOS AZULES CORTE EXTERIOR BLUE CIRCLES CUTTING OUTER LAYER
PARAMETRO SKIN:

ARTIFICIAL LEAFER 5.000
DIAMETER 25 CM
RESOLUTION WIRED MESH 57 CM
SURFACE SKIN 3000 M2
RESOLUTION LEAFER (AVERAGE) 3.1/M2
PRODUCED SHADOW 15%



HOJA MAQUETA LEAF MODEL
E: 1/50



IMPRESIÓN DE LAS HOJAS A ESCALA 1/50

CORTE DE LAS HOJAS EN MÁQUINA LÁSER, 5000 HOJAS

FABRICACIÓN DE LAS HOJAS: 1. JUNTA PARA LA COLOCACIÓN DEL ENGANCHE. 2. FABRICACIÓN DE LA PIEZA UNIÓN-SOPORTE.

PROCESO DE PRODUCCIÓN DE HOJAS, UNIÓN PEGADA ENTRE EL ENGANCHE Y LA HOJA

03 HOJAS/LEAVES





FABRICACIÓN DE 6000 HOJAS: 1. JUNTA PARA LA COLOCACIÓN DEL ENGANCHE. 2: FABRICACIÓN DE LA PIEZA UNIÓN-BOPORTE
PROCESO DE PRODUCCIÓN DE HOJAS, UNIÓN PEGADA ENTRE EL ENGANCHE Y LA HOJA

04 HOJAS/LEAVES

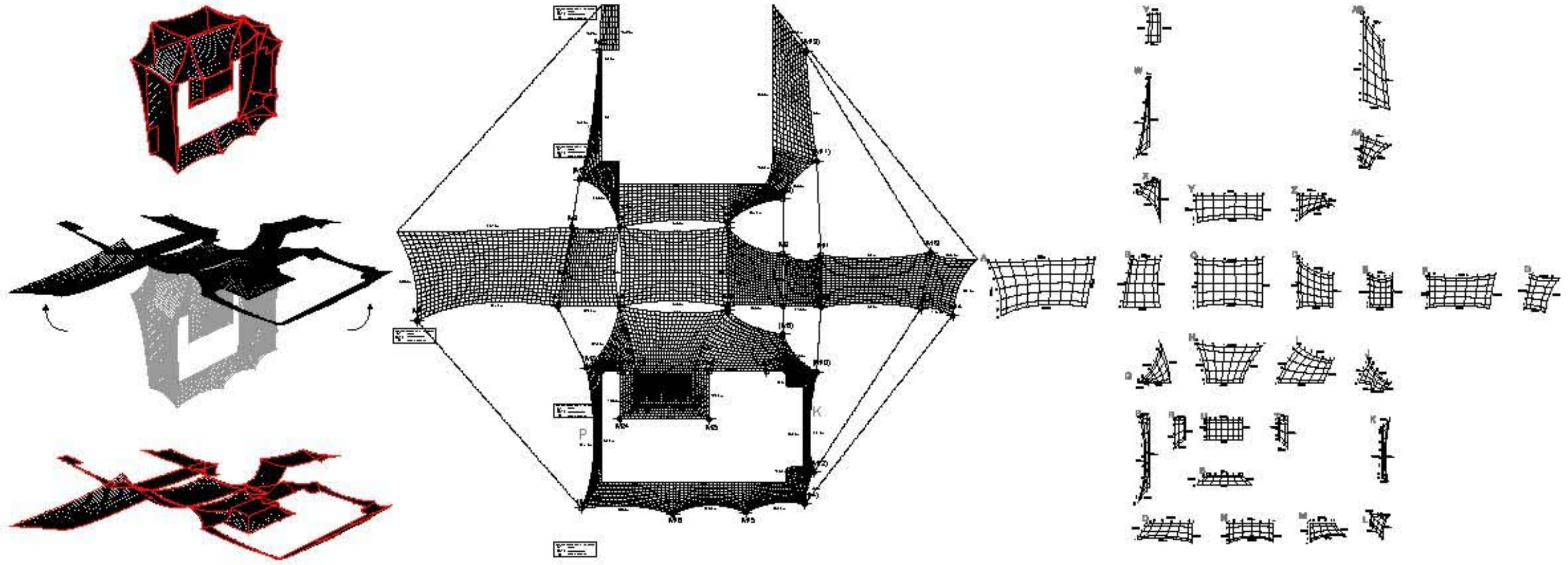




MONTAR HOJAS EN LA MALLA DEL COMPACT
FABRICACIÓN DE HOJAS
CORTE DE LO SOBRENTE EN LAS PIEZAS DE ENGANCHE DE LAS HOJAS
INSERTING LEAVES ON THE MODEL
MANUFACTURATION OF LEAVES
CUTTING THE SPARE PIECES OF THE LEAVES

05 HOJAS/LEAVES



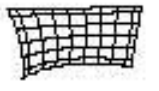


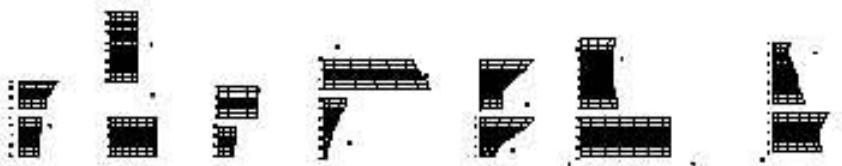
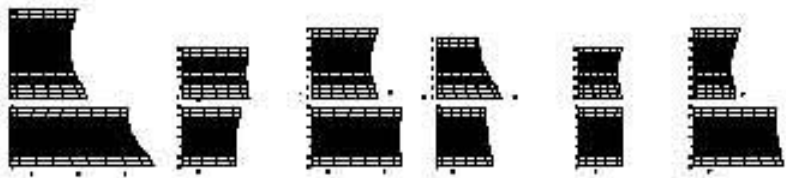
MALLA DESPLEGADA

28 DIFERENTES CAMPOS EN SU LONGITUD REAL DESPLEGADOS CON SUS MEDIDAS REALES

DISUJOS-PATRONES PARA LA EJECUCIÓN DE LA MAQUETA A E. 1/50

06 MALLAS /FRAMES





IMPRESIONES DE LOS CAMPOS PATRONES PARA EL CORTE DE TODOS LOS CABLES EN SU TAMAÑO REAL
 CORTE DE LOS CABLES CON SU REMATE DE UNIÓN
 MARCADO DE TODAS LAS UNIONES PARA LA SOLDADURA POSTERIOR
 SOLDADO DE LAS MALLAS A PARTIR DE LOS PATRONES Y DE LAS MÁRCAS-UNION
 SOLDADO DE LOS CABLES ESTRUCTURALES PERIMETRALES

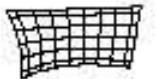
PRINTING THE PATTERNS OF THE DIFFERENT FRAMES FOR CUTTING ALL THE WIRES IN THE REAL LENGTH
 CREATING ALL THE MARKS FOR THE POST SOLDERED JOINTS
 SOLDERING OF THE FRAMES

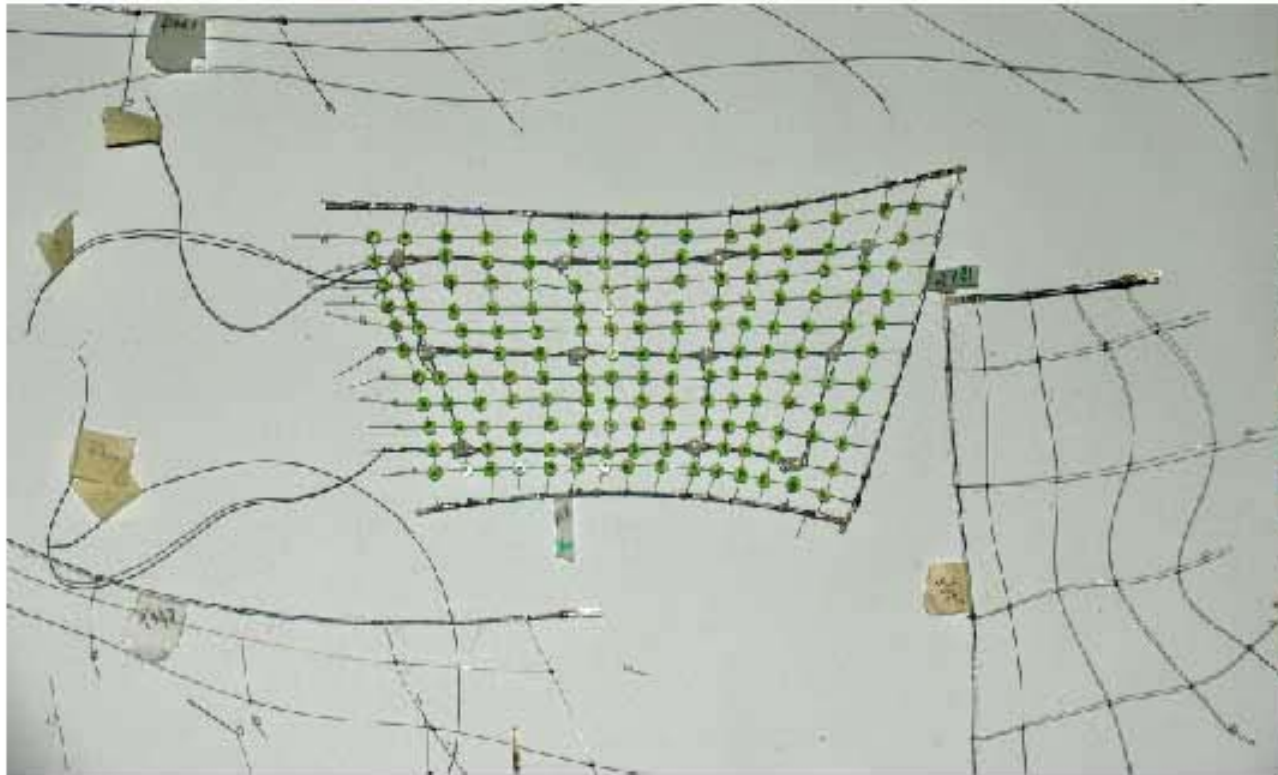
08 MALLAS /FRAMES 



COLOCACIÓN DE LAS 6000 HOJAS Y 500 LEDS LOS 28 CAMPOS DE CABLES
INSERTING THE 6000 LEAVES AND 500 LEDS ON THE 28TH FRAMES

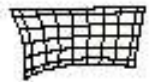
09 MALLAS CON HOJAS/FRAMES WITH LEAVES

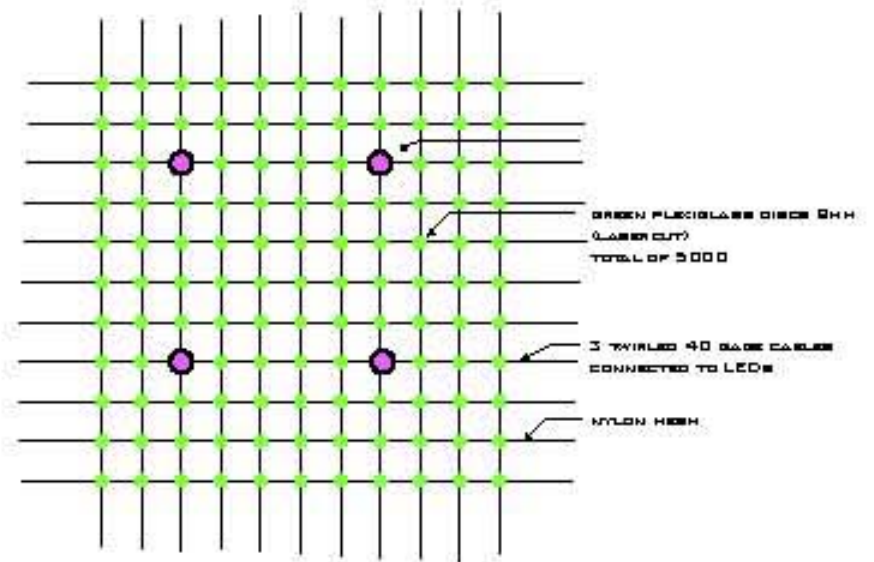
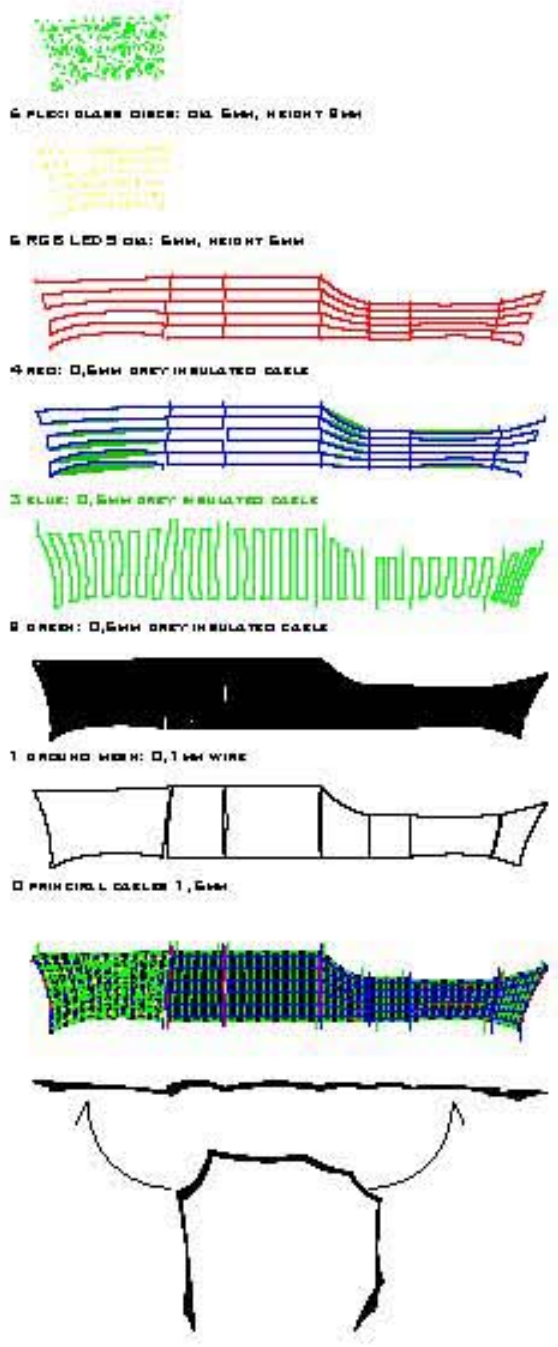




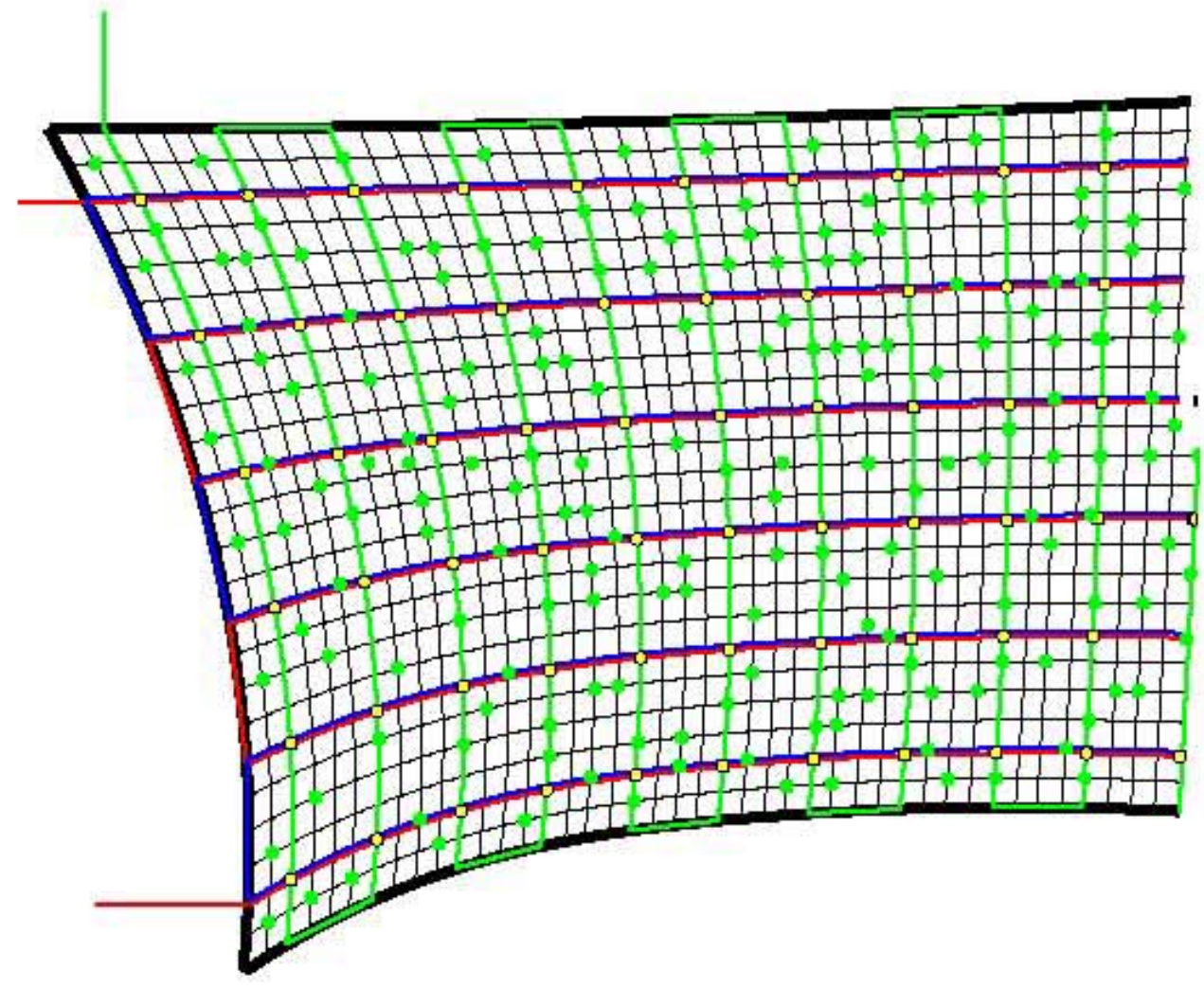
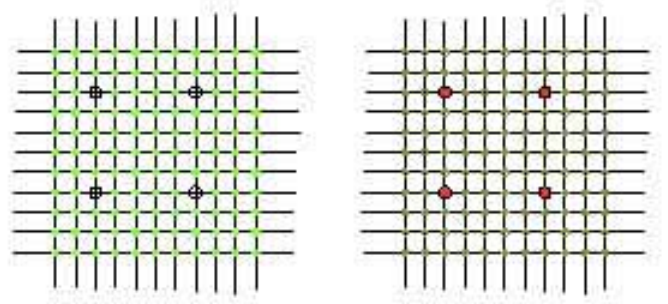
COLOCACIÓN DE LAS 6000 HOJAS EN LOS 28 CAMPOS
 AJUSTE DE LA MALLA CON LA INSERCIÓN DE LAS HOJAS Y LOS CASLER INTERMEDIOS
 6000 LEAVES ON THE 28TH FRAMES
 TIGHTENING OF THE FRAME WITH THE INSERTATION OF THE LEAVES AND THE SECOND WIRES

10 MALLAS CON HOJAS/FRAMES WITH LEAVES

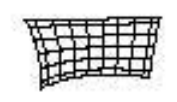


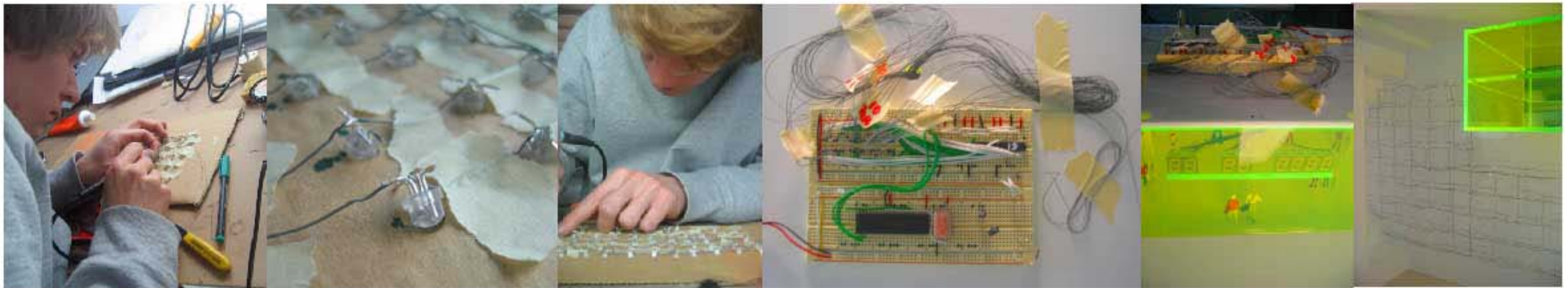


RESOLUTION 1: (LOW)
IMPORTANT: A LOT OF LEAVES
- SECONDARY STRUCTURE
- 5000 PLECI GLASS DISC
MOUNTED ON NYLON MESH



11 MALLAS CON HOJAS/FRAMES WITH LEAVES

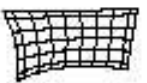


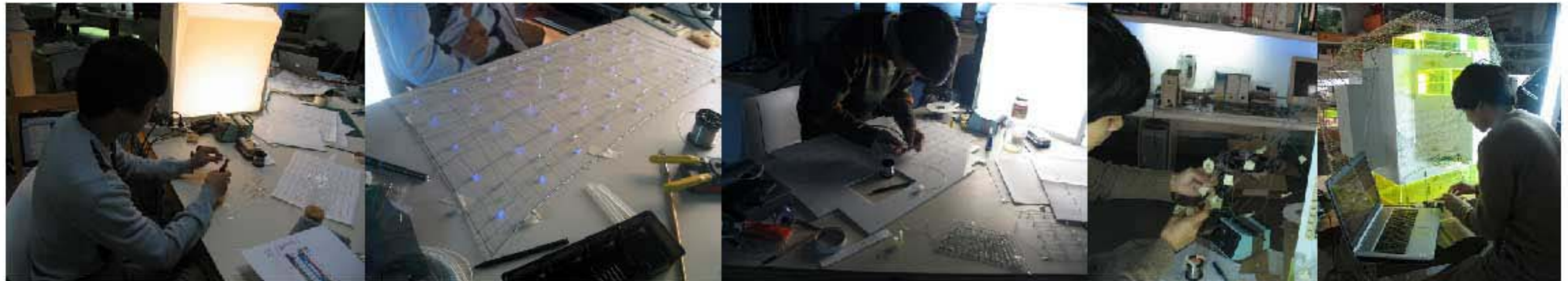


COLOCACIÓN DE LOS LED EN LA MALLA SEGÚN LA DISTRIBUCIÓN DE LOS DISTINTOS CABLES EN LOS CAMPOS
 SOLDADO DE LAS HOJAS
 PROGRAMADOR DE LAS CUERDAS DE GUITARRA
 PROGRAMACIÓN DEL CALENDARIO ELECTRÓNICO

INSERTATION OF THE LED ON THE FRAME ACCORDING TO THE DIRECTION OF THE WIRES
 WELDING THE WIRES
 PROGRAMMING THE ELECTRONIC TIME TABLE

12 CAMPOS CON LUZ/LIGHTING FRAME



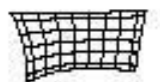


PROGRAMACIÓN DE LOS CAMPOS DE LED EN EL COMPACT

JAMES CLAR RECEIVED HIS MASTERS FROM NEW YORK UNIVERSITY'S INTERACTIVE TELECOMMUNICATIONS PROGRAM CONCENTRATING ON INFORMATION DISPLAY. BLENDING ART THEORY AND DESIGN, JAMES' INNOVATIVE OBJECTS AND INSTALLATIONS TRANSMIT VISUAL INFORMATION THROUGH LIGHT MEDIUM. HE WAS A RESIDENT ARTIST AT NEW MEDIA COLLECTIVE EYEBEAM ATELIER OF NYC AS WELL AS WORKING AT BENETTON'S FABRICA RESEARCH FACILITY IN ITALY. HIS WORK HAS BEEN SHOWN AT VARIOUS GALLERIES AND MUSEUMS INCLUDING; NEW MUSEUM OF CONTEMPORARY ARTS NYC, THE CHELSEA ART MUSEUM, 8TH JAPAN MEDIA ARTS FESTIVAL, AND THE MILAN TRIENNIAL. HE HAS BEEN INTERVIEWED AND HIS WORK HAS BEEN FEATURED IN VARIOUS PUBLICATIONS SUCH AS TOKION, AXIS, AZURE, SAMSUNG'S DIGITALL, ION, AS WELL AS BEING AWARDED THE 2004 DESIGN DISTINCTION AWARD FROM I.D. MAGAZINE'S ANNUAL DESIGN REVIEW.

JAMES CLAR IS AVAILABLE FOR CONSULTATION, DESIGN, AND DEVELOPMENT OF PRODUCTS AND INSTALLATIONS: James@JamesClar.com

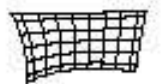
13 CAMPOS CON LUZ/LIGHTING FRAME

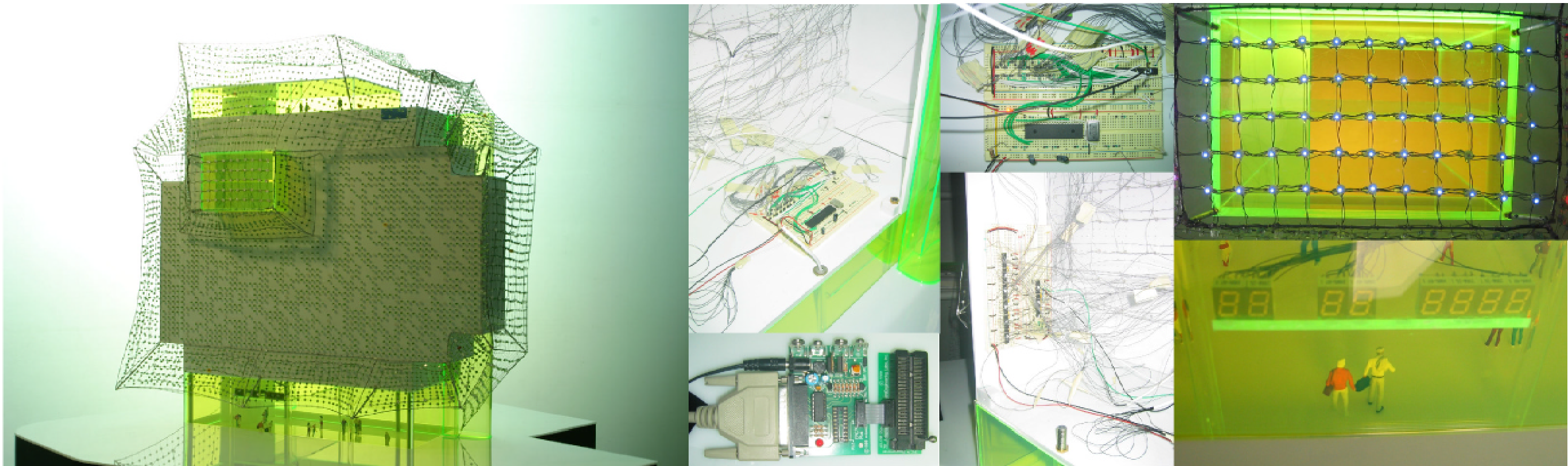




PROGRAMACIÓN DE UN CAMPO TIPO CON LED
ESTUDIO DE LAS VARIACIONES DE COLORES, CON LA MISMA INTENSIDAD EN LOS 28 CAMPOS DE LED
PROGRAMMING ONE OF THE FRAMES WITH LED
STUDIO OF THE COLORS VARIATIONS, SAME INTENSITIVE IN ALL THE 28 TH FRAMES

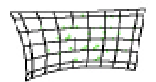
14 CAMPOS CON LUZ/LIGHTING FRAME

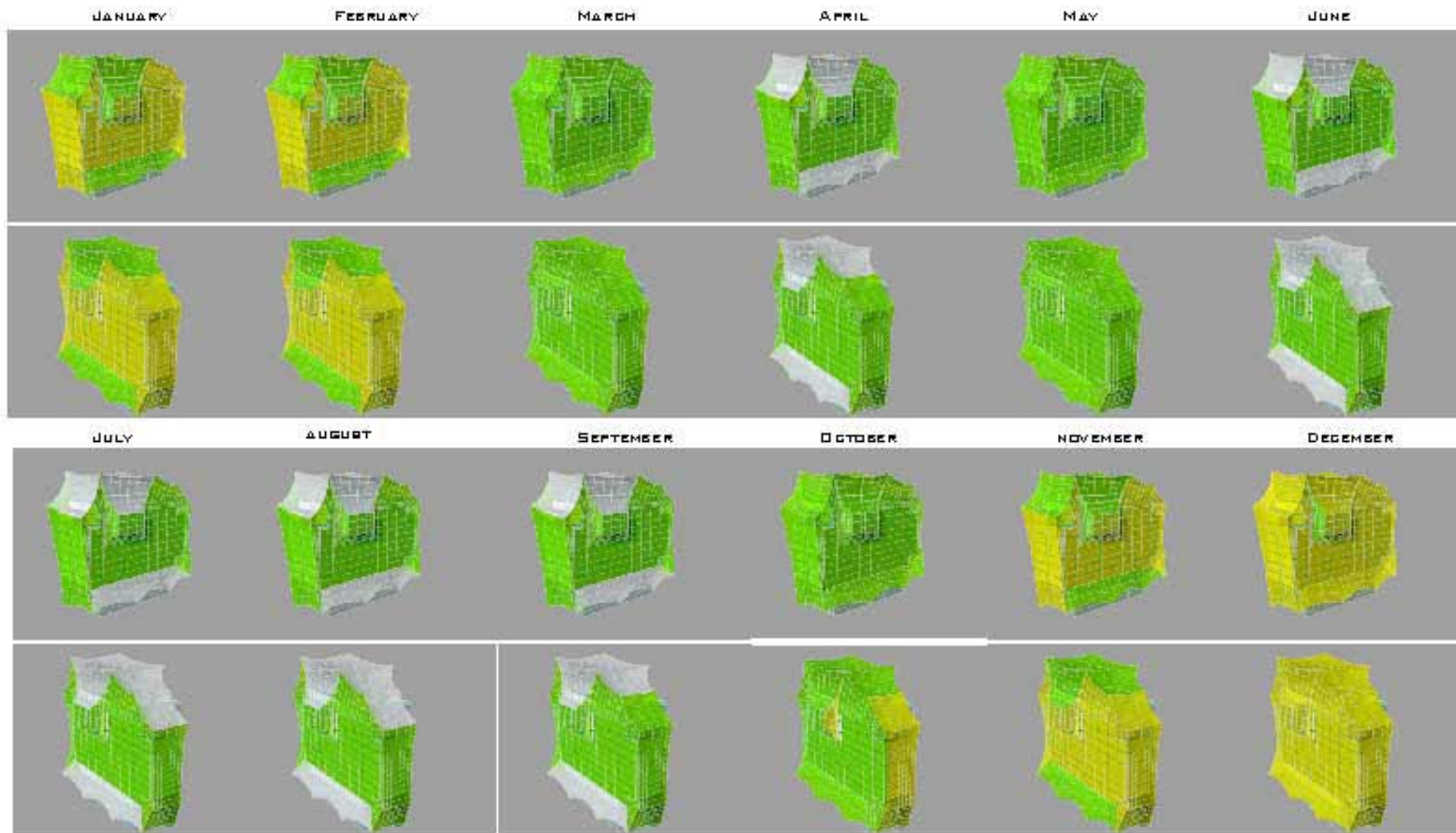




INTERIOR DEL COMPACT CON EL PROGRAMADOR. LA FUENTE DE TODOS LOS CIRCUITOS QUE SUMINISTRAN ENERGÍA A LOS 500 LED,
 DISTRIBUIDOS POR LOS 2E CAMPOS CONTENEDORES DE 6000 HOJAS
 PROGRAMACIÓN DEL CALENDARIO ELECTRÓNICO. COMO PUNTO DE INFORMACIÓN DE LOS CAMBIOS DE TONOS EN LA PIEL DEL ÁRBOL A LO
 LARGO DE LOS 12 MESES DEL AÑO
 AL IGUAL QUE LOS ÁLAMOS VAN CAMBIANDO SUS TONALIDADES EN LAS DIFERENTES ESTACIONES, LA PIEL VA CAMBIANDO DE COLOR
 THE INTERIOR OF THE COMPACT WITH THE PROGRAMMER, THE CENTRAL OF ALL THE ELECT CIRCUITS
 PROGRAMMING OF THE ELECTRONIC TIME TABLE. THIS IS THE INFORMATION POINT OF THE COLOUR CHANGES DURING THE YEAR, AS THE SKIN
 OF A TREE.

15 CAMPOS CON LUZ/LIGHTING FRAME





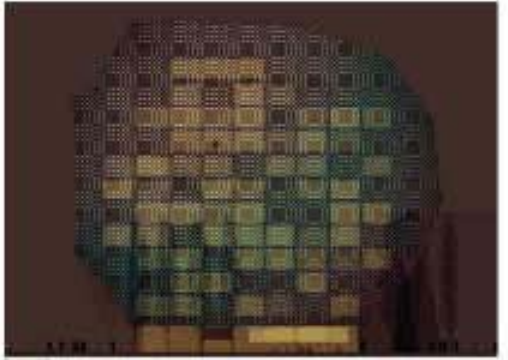
Month	MAGN	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
January	0.5270	0.5270	0.8147	0.8147	0.8147	0.9194	0.9281	0.9281	0.8147	0.5270	0.5270	0.5270	0.5270	0.8147	0.8147	0.8147	0.5270	0.5270	0.888	0.5270	0.2881	0.5270	0.2881	0.2881	0.2881
February	0.5882	0.5882	0.7054	0.7054	0.7054	0.4911	0.9197	0.9197	0.7054	0.5882	0.5882	0.5882	0.5882	0.7054	0.7054	0.7054	0.5882	0.5882	0.8172	0.5882	0.9197	0.5882	0.9197	0.9197	0.9197
March	0.8088	0.8088	1.0588	1.0588	1.0588	0.8114	0.8248	0.8248	1.0588	0.8088	0.8088	0.8088	0.8088	1.0588	1.0588	1.0588	0.8088	0.8088	0.8248	0.8088	0.8248	0.8088	0.8248	0.8248	0.8248
April	0.7519	0.7519	1.0752	1.0752	1.0752	0.9243	0.888	0.888	1.0752	0.7519	0.7519	0.7519	0.7519	1.0752	1.0752	1.0752	0.7519	0.7519	0.9849	0.7519	0.888	0.7519	0.888	0.888	0.888
May	0.8385	0.8385	1.088	1.088	1.088	0.9225	0.7203	0.7203	1.088	0.8385	0.8385	0.8385	0.8385	1.088	1.088	1.088	0.8385	0.8385	0.8449	0.8385	0.7203	0.8385	0.7203	0.7203	0.7203
June	0.8074	0.8074	1.22	1.22	1.22	1.2274	0.884	0.884	1.22	0.8074	0.8074	0.8074	0.8074	1.22	1.22	1.22	0.8074	0.8074	0.8152	0.8074	0.884	0.8074	0.884	0.884	0.884
July	0.8947	0.8947	1.2277	1.2277	1.2277	1.2277	0.8847	0.8847	1.2277	0.8947	0.8947	0.8947	0.8947	1.2277	1.2277	1.2277	0.8947	0.8947	0.8847	0.8947	0.8847	0.8947	0.8847	0.8847	0.8847
August	0.8882	0.8882	1.2277	1.2277	1.2277	1.2277	0.788	0.788	1.2277	0.8882	0.8882	0.8882	0.8882	1.2277	1.2277	1.2277	0.8882	0.8882	0.7284	0.8882	0.788	0.8882	0.788	0.788	0.788
September	0.8988	0.8988	1.2288	1.2288	1.2288	0.8888	0.8152	0.8152	1.2288	0.8988	0.8988	0.8988	0.8988	1.2288	1.2288	1.2288	0.8988	0.8988	0.8888	0.8988	0.8152	0.8988	0.8152	0.8152	0.8152
October	0.8198	0.8198	0.8198	0.8198	0.8198	0.5885	0.455	0.455	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8198	0.8885	0.8198	0.455	0.8198	0.455	0.455	0.455
November	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881	0.5881
December	0.4818	0.4818	0.5885	0.5885	0.5885	0.243	0.243	0.243	0.5885	0.4818	0.4818	0.4818	0.4818	0.5885	0.5885	0.5885	0.4818	0.4818	0.817	0.4818	0.243	0.4818	0.243	0.243	0.243

ESTUDIO DE LOS CAMBIOS CLIMÁTICOS A LO LARGO DE LOS MESES EN FUNCIÓN DEL APROVECHAMIENTO ENERGÉTICO, Y EL BIENESTAR EN EL INTERIOR DEL HOTEL

16 CAMBIOS EN LAS ESTACIONES/CHANGES IN THE SEASON



Inclination and mut field	south										east									
	0° 0°	60° 90°	60°	40°	25°	0°	25°	40°	60°	90°	90° 90°	60°	40°	25°	0°	25°	40°	60°	90°	
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	
January	0.44	0.3794	0.3796	0.6147	0.6639	0.7443	0.6639	0.6147	0.3796	0.3794	0.2881	0.4467	0.3270	0.6168	0.665	0.6168	0.3270	0.4467	0.2881	
February	0.62	0.3811	0.636	0.7084	0.7503	0.8511	0.7503	0.7084	0.636	0.3811	0.2727	0.3811	0.3811	0.6544	0.7131	0.6544	0.3811	0.3811	0.2727	
March	0.58	0.2114	0.5917	1.0583	1.1249	1.1551	1.1249	1.0583	0.5917	0.2114	0.6248	0.7426	0.3082	0.3567	0.3772	0.3567	0.3082	0.7426	0.6248	
April	1.23	0.5248	1.04	1.0752	1.1072	1.1296	1.1072	1.0752	1.04	0.5248	0.683	0.7528	0.7513	0.7518	0.7504	0.7518	0.7513	0.7528	0.683	
May	1.34	0.5925	1.049	1.056	1.0591	1.0622	1.0591	1.056	1.049	0.5925	0.7293	0.7373	0.4335	0.6659	0.6449	0.6659	0.4335	0.7373	0.7293	
June	1.61	1.216	1.2408	1.22	1.18	1.1416	1.18	1.22	1.2408	1.216	0.884	0.8584	0.8074	0.7100	0.6152	0.7100	0.8074	0.8584	0.884	
July	1.60	1.1814	1.231	1.2271	1.2062	1.1853	1.2062	1.2271	1.231	1.1814	0.8533	0.8508	0.8347	0.7473	0.6581	0.7473	0.8347	0.8508	0.8533	
August	1.38	1.0746	1.1745	1.1915	1.1954	1.1876	1.1954	1.1745	1.10746	0.793	0.847	0.8332	0.6541	0.7284	0.6541	0.6333	0.847	0.793	0.799	
September	1.11	0.5008	1.0696	1.1288	1.184	1.2032	1.184	1.1288	1.0696	0.5008	0.6792	0.8064	0.3330	0.3605	0.3696	0.3605	0.3330	0.8064	0.6792	
October	0.74	0.3333	0.7743	0.8516	0.9352	0.9332	0.9352	0.8516	0.7743	0.3333	0.455	0.3933	0.6790	0.7571	0.3905	0.7571	0.6790	0.3933	0.455	
November	0.48	0.3333	0.393	0.6584	0.7576	0.8182	0.7576	0.6584	0.393	0.3333	0.7943	0.4933	0.4933	0.6655	0.728	0.6655	0.4933	0.4933	0.7943	
December	0.38	0.314	0.403	0.3333	0.6263	0.6782	0.6263	0.3333	0.403	0.314	0.248	0.378	0.4636	0.3333	0.617	0.3333	0.4636	0.378	0.248	



SURFACE



FRONT

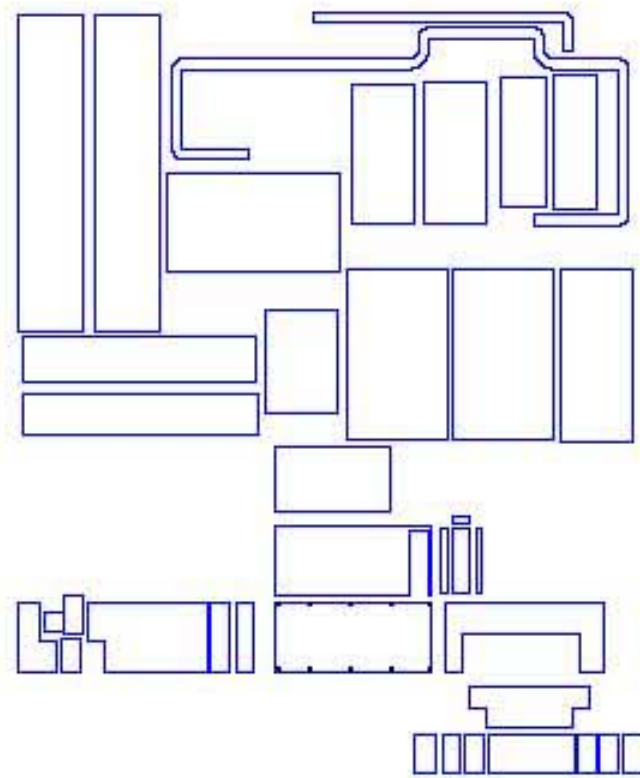
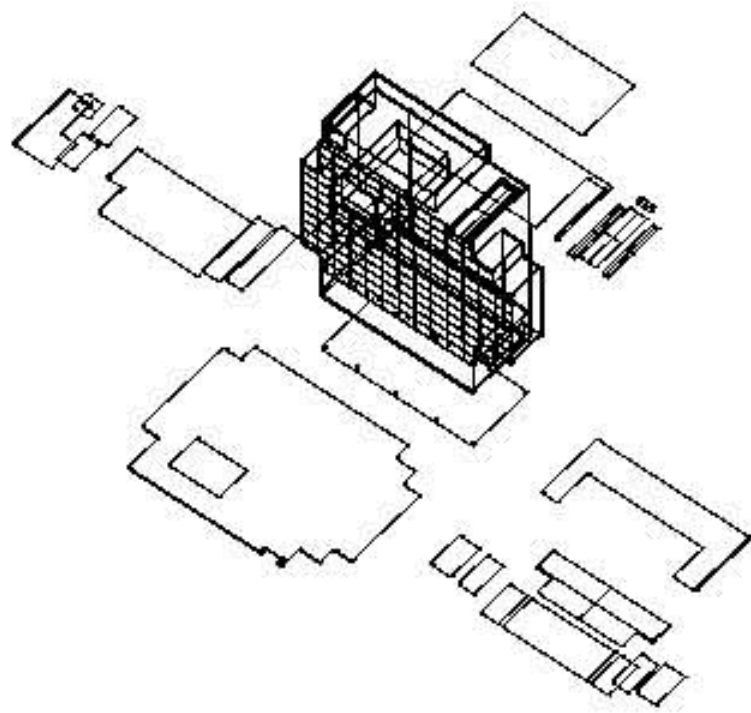
corresponding surface	C,D	E	-	H2 L2, M, N Q, P1	-	-	-	B	-	-	F,G,T	-	H1, L1 K, L1, P2 Q, U, S FRONT	-	R	-	A	-	V, W, X
surface corresponding field	A	B	C	D	E	F	G	H	I	J	K	L	M	N					
surface corresponding field	C4	C4, C13	C13	C15	C13	C11	C13	C19	C19	C19	-	-	AA	AB					

1.000	RGB	white
0.94	CB	cyan
0.894	BB	magenta
0.812	BB	yellow
0.458	B	blue
0.324	G	green
0.223	R	red

PERFORMANCE ARCHITECTURE: ARCHITECTURE OF PARTICLES
 WE ARE PRODUCING ARCHITECTURE OUT OF ENERGY AND ITS BALANCE.
 3D SOFTWARE LIKE MAYA WORK WITH PARTICLES AND NATURE IMITATION.
 THE DIGITAL SOFTWARE IS PROGRAMMED. MODELING FOLLOWS CERTAIN RULES OF BEHAVIOR LIKE
 PARTICLES, RULES OF RELATIONSHIPS, LINKS.
 PARAMETERS AND ACCIDENTS ARE A CONTINUOUS PERFORMANCE OF PARTICLES.
 PERFORMING LIFE IS RANDOM, CHAOTIC AND ACCIDENTAL.
 OUR ARCHITECTURE TRIES TO EXPAND ITS LIMITS BY BRINGING THEM TOGETHER.

17 CAMBIOS EN LAS ESTACIONES/CHANGES IN THE SEASON





DESPIEGE DEL COMPACT, PIEZAS DE METACRILATO BLANCO CON JUNTA DE BELLADO A BASE DE CLOROFORMO
 FACHADA PRINCIPAL CON INSERCIÓN DE 100 HOJAS Y 50 LED
 QUARTERING OF THE COMPACT, METHACRYLATE WHITE PIECES WITH CLOROFORM JOINT
 FIRST FACADE WITH 100 LEAVES AND 50 LEDS

18 CONSTRUCCION DE LA BASE/COMPACT

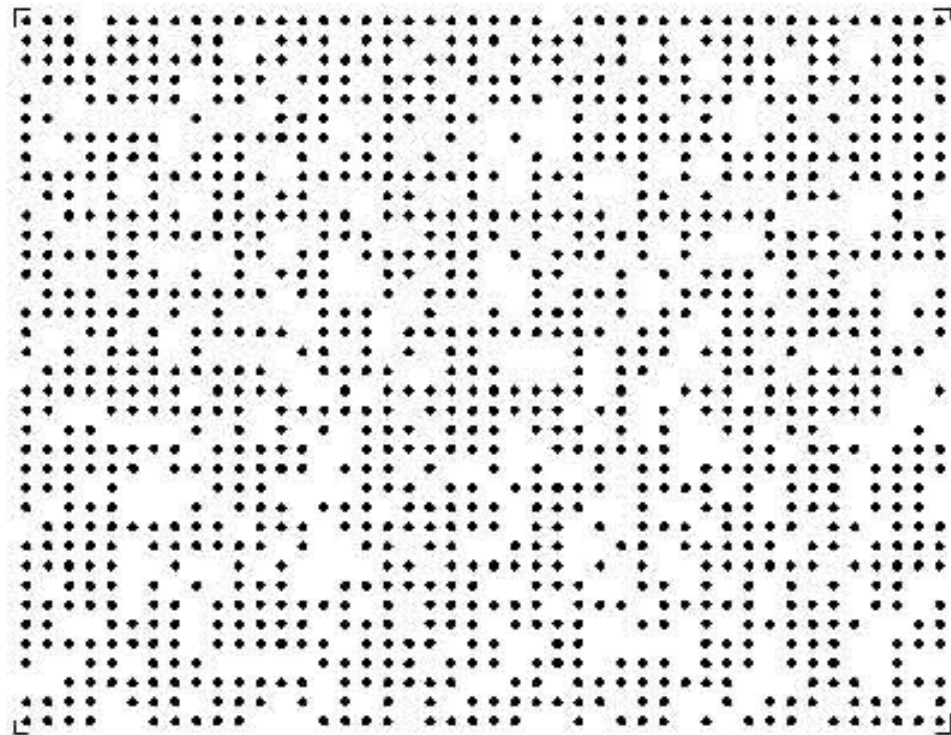
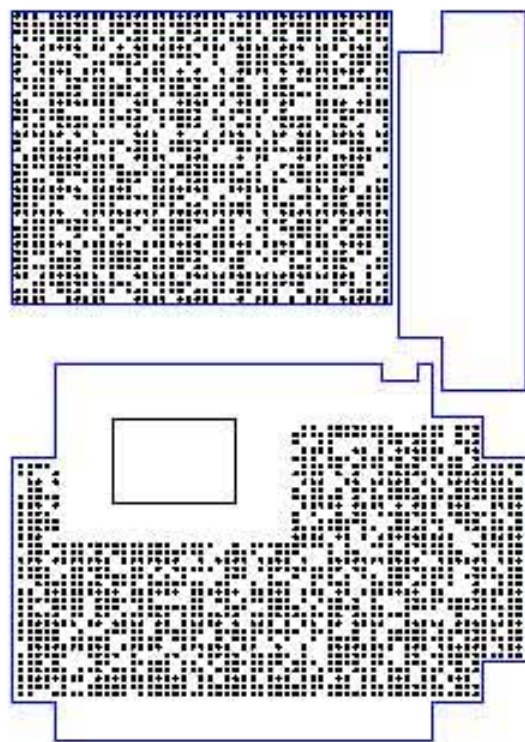




COLOCACIÓN DE LOS CABLES CON LAS MALLAS
ARREGLOS Y AJUSTES DE LAS HOJAS SOBRE LA MALLA

19 BASE CON HOJAS/COMPACT WITH LEAVES





FACHADA ANTERIOR Y POSTERIOR DEL COMPACT
 FACHADA PRINCIPAL CON INSERCIÓN DE 1000 HOJAS Y 10 LED, LA FACHADA POSTERIOR
 IMPRESIÓN EN VINILO DEL NEGATIVO EN COLOR NEGRO
 ESTUDIO DE LA ESCALA HUMANA ANTE LAS HOJAS PARA LA DISTRIBUCIÓN DE LAS APERTURAS EN EL ALZADO FRONTAL

20 BASE CON HOJAS/COMPACT WITH LEAVES



