



Urban Acoustics for 6 louds peakers on wood and 702 reliquaries

mixed media / ~10000 x 2000 mm
2017

*sonor and sculptural installation by artistic
interventions for community activation
comissioned site-specific artwork for 'Elefsina
2021 - Collaborative Environmental Regeneration -
2017', Elefsina, Greece*
https://instagram.com/explore/tags/emotional_mapping_marionetasmandragora/
https://instagram.com/explore/tags/emotionalmapping_aveiro_elefsina/
<http://marionetasmandragora.com/index.php?hidEv=153>



ABOUT

A project co-created with the musician Pedro Fonseca (coletivo, ac.) with production by '4IS - Plataforma para a Inovação Social'.

This emotional urban mapping is a temporary installation at the old train station of Elefsina in Greece - near Athens.

My way of thinking urban art is that it will basically be and should be created for an audience rather heterogeneous and for that matter multiple readings will be perceived. Consequently, the artwork must contain different layers for these wide audiences. Sometimes even different meanings and contradictory ones are intentionally worked on top of each other. That is the beauty within, the deepness of it.

I'm not implying that urban art should be somewhat hermetic nor easily understandable. I'm affirming that it must lead to a dialogue between artist and viewer and between viewers themselves.







EMOTIONAL MAPPING
THE TOOL ,
DIAGNOSING
URBAN SPACE

THE TOOL STEPS:

1ST . ARTISTIC
INTERVENTION FOR
COMMUNITY
ACTIVATION

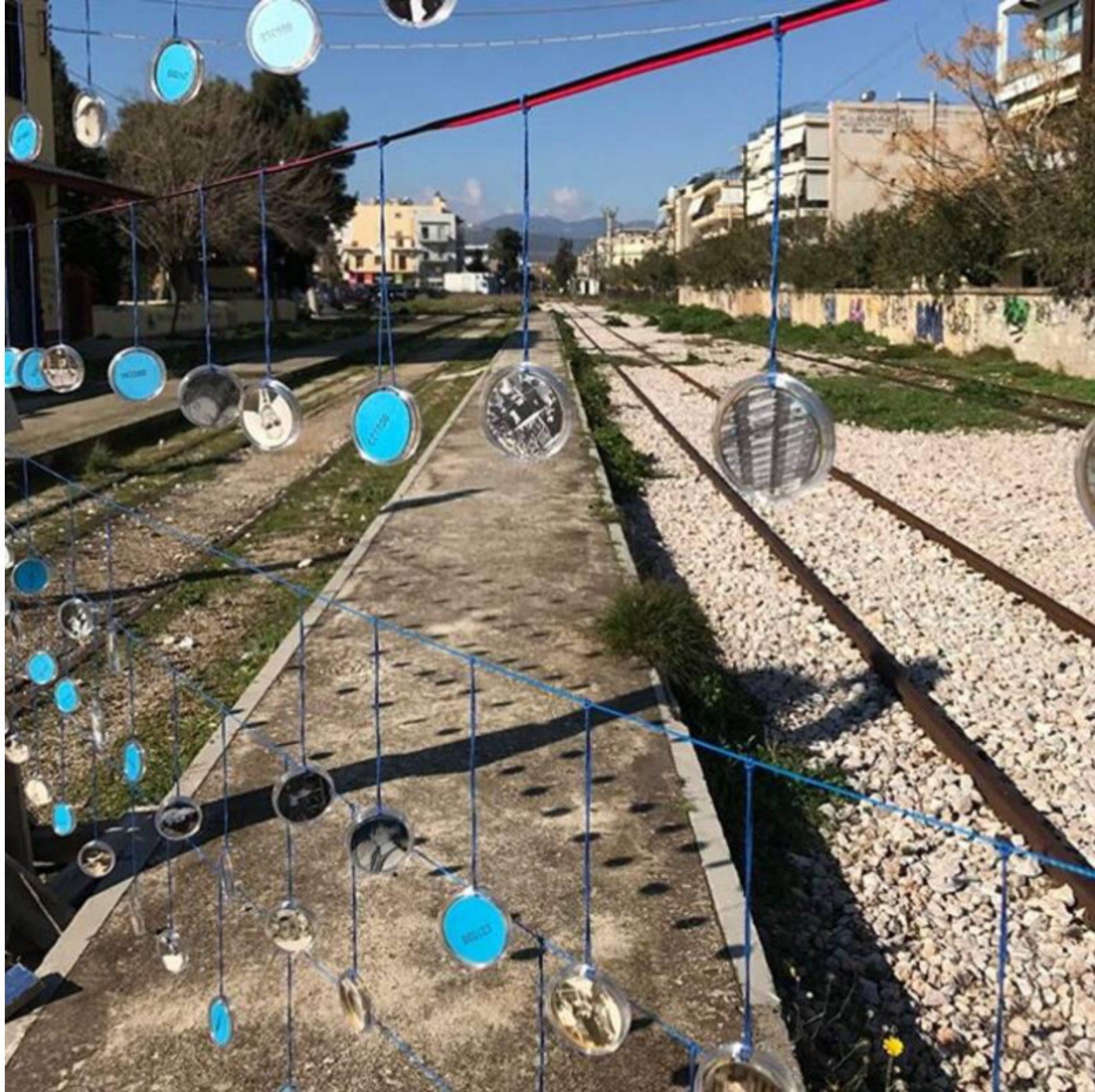
2ND . CAPACITY
BUILDING ON
DOCUMENTATION
TOOLS FOR
COMMUNITY
ENGAGEMENT

3RD . COMMUNITY
EMOTIONAL MAPPING



























ΣΥΝΑΙΣΘΗΜΑΤ ΧΑΡΤΟΓΡΑΦΗ

synaisthimatikí chartográfisi

SYNTONIC TEMPERAMENT

Regular diatonic tunings have also been referred to as syntonic temperaments. This terminology is used for an instrument able to adjust harmonic partials in order to approximate the smoothness of natural harmonics using inharmonic instruments with tempered fifths anywhere in the regular diatonic tunings. It is named after the syntonic comma due to its resemblance to quarter comma meantone where the syntonic comma is tempered out. In the syntonic temperament on this instrument, then the syntonic comma is tempered out, but the partials are adjusted to give a similar size to major thirds of quarter comma meantone while also preserving the property that the major third is made up of two equally sized tones.

https://en.wikipedia.org/wiki/Regular_diatonic_tuning#Syntonic_temperament

PYTHAGOREAN TUNING

Pythagorean tuning (Greek: Πυθαγόρεια κλίμακα) is a tuning system for musical instruments in which the generator is the ratio 3:2 (i.e., the interval of a perfect fifth), which is **702 cents** wide.

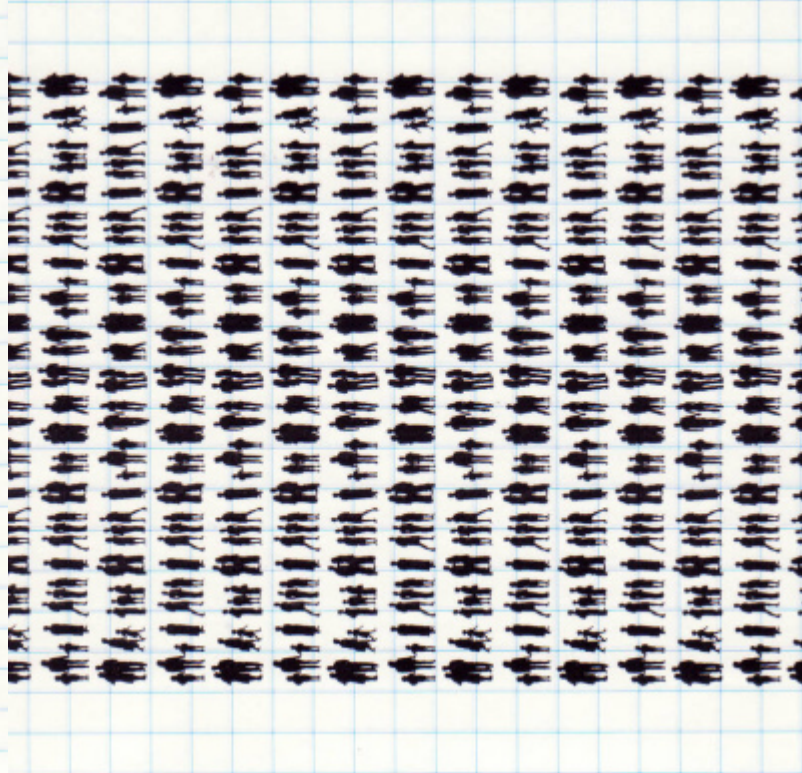
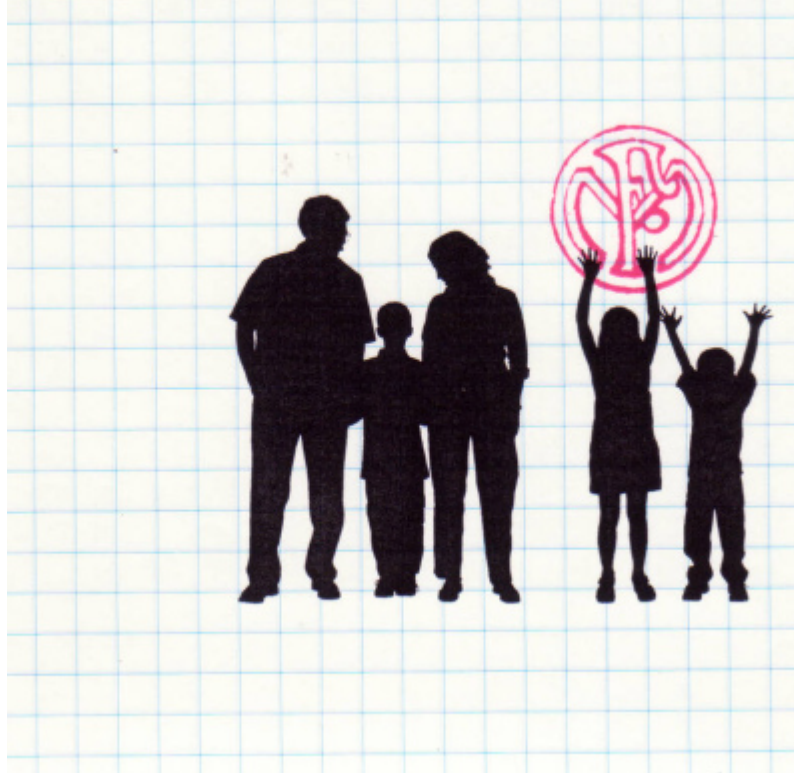
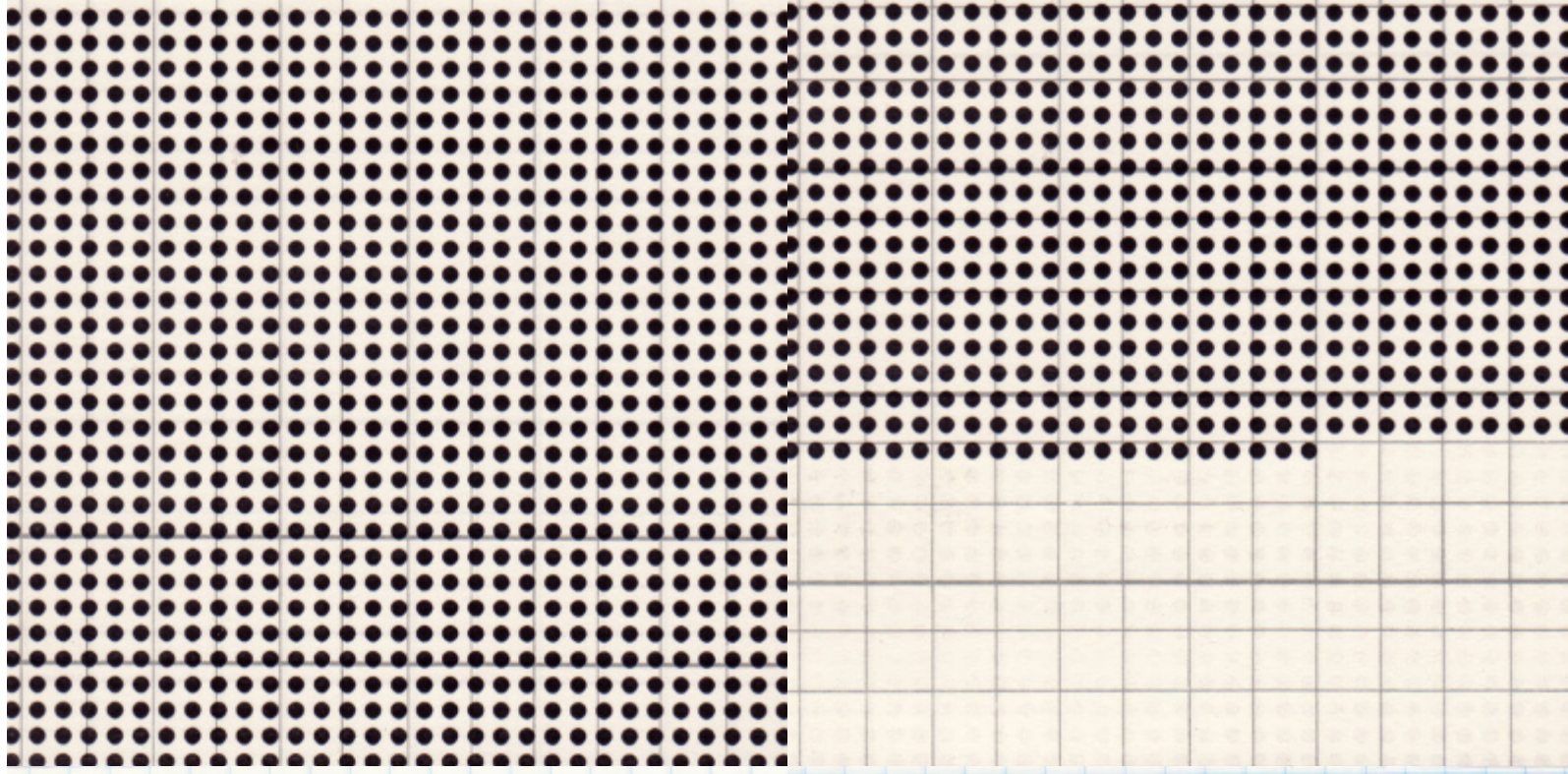
In this system, it is a system of musical tuning in which the frequency ratio between successive notes is too small to be heard between successive notes. The system is based on the ratio 3:2, "found in the harmonic series." This ratio is difficult to establish how many cents are perceptible to humans. The "pure" perfect fifth, is chosen because it is one of the most stable intervals, varies greatly from person to person. One author stated that the pure fifth is the easiest to tune by ear and because of importance attributed to it, "The three most important natural proportions seem to me to be perceptible, technically known as the just noticeable difference (JND) for pitch, timbre, and loudness; as a function of the frequency, the amplitude and the timbre. In order to improve tone quality reduced student musicians' ability to recognize pitch differences that deviated from their appropriate values by ± 12 cents.

https://en.wikipedia.org/wiki/Pythagorean_tuning

CENT (MUSIC)

A cent is a logarithmic unit of measure used for musical intervals. In equal temperament, cents are used to express small intervals, or to compare intervals in different tuning systems, and in fact the cent is a unit of measure used for musical intervals. In equal temperament, cents are used to express small intervals, or to compare intervals in different tuning systems, and in fact the cent is a unit of measure used for musical intervals. In equal temperament, cents are used to express small intervals, or to compare intervals in different tuning systems, and in fact the cent is a unit of measure used for musical intervals.

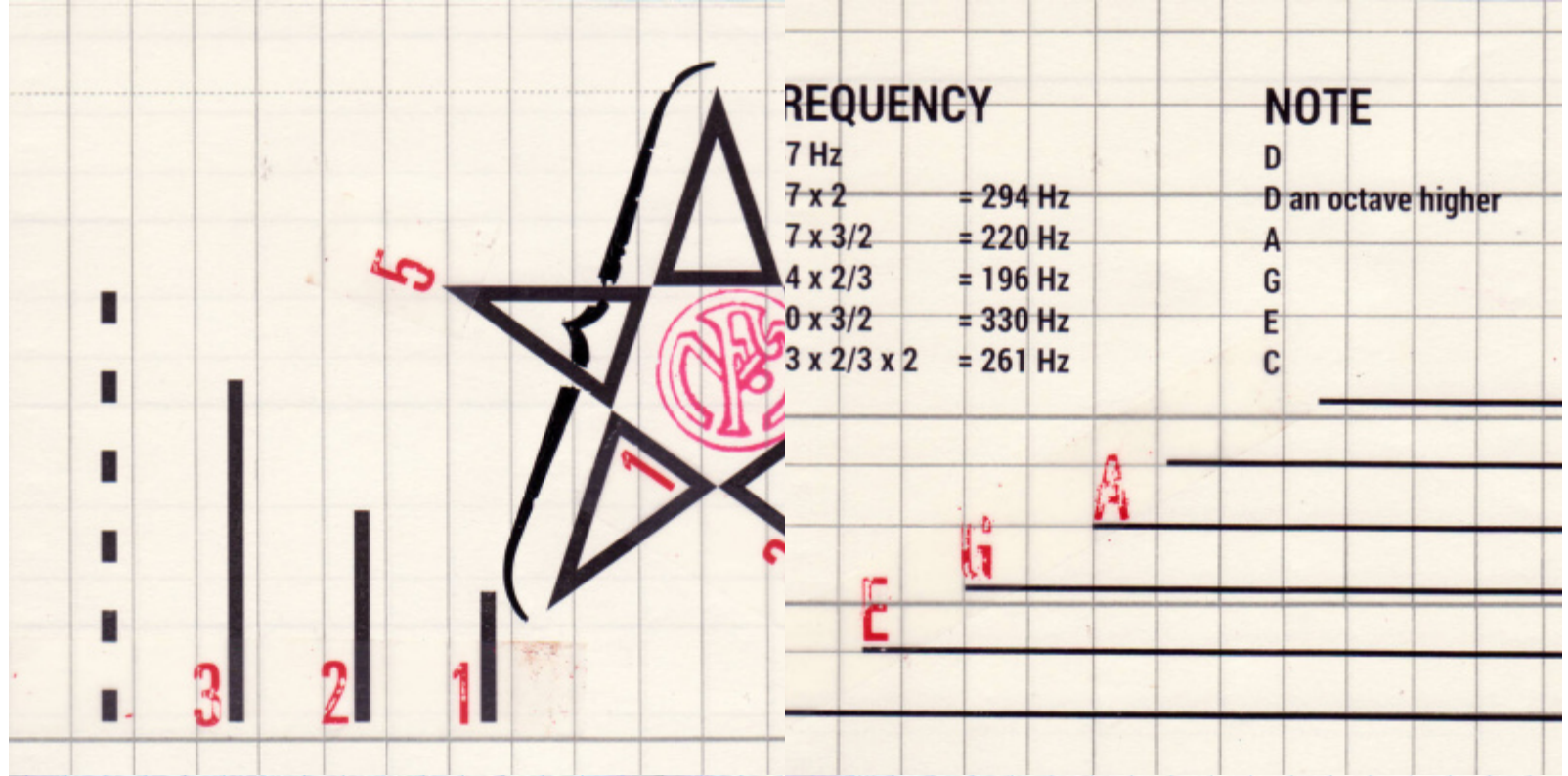
[https://en.wikipedia.org/wiki/Cent_\(music\)](https://en.wikipedia.org/wiki/Cent_(music))



E 2017

2





REQUENCY	HEIGHT	NOTES
17 Hz	X cm	child figure
16 Hz	X cm	female figure
20 Hz	X cm	male figure
31 Hz	X cm	hero figure
14 Hz	X cm	demigod figure
30 Hz	Xcm	god figure

REQUENCY	HEIGHT	NOTES
17 Hz	170 cm	average human figure
16 Hz	226 cm	?
20 Hz	254 cm	
31 Hz	302 cm	
14 Hz	340 cm	
30 Hz	382 cm	

WOOD MEASURES (PLANKS 12x3cm)
 LAYER » cm
 LAYERs » cm

WOOD MEASURES (PLANKS 12x3cm)
 LAYER » 1674 cm ~85€
 LAYERs » 3348 cm ~170€

FREQUENCY	HEIGHT	NOTES
147 Hz	114 cm	
196 Hz	151 cm	
220 Hz	170 cm	! average human figure hero figure
261 Hz	201 cm	
294 Hz	227 cm	
330 Hz	255 cm	

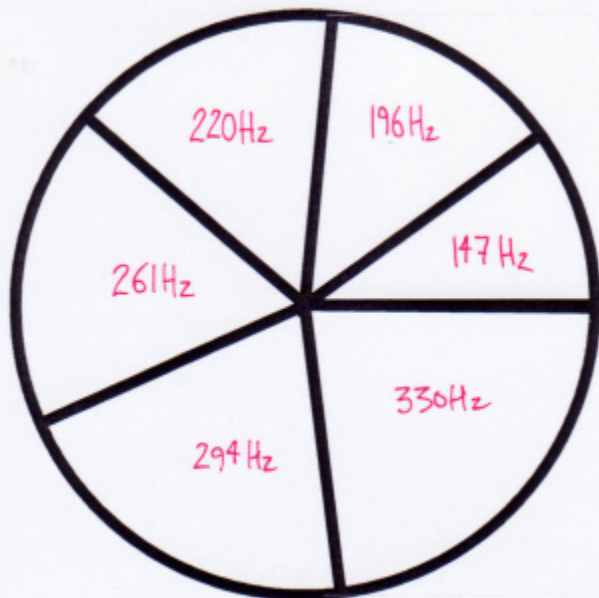
REQUENCY	HEIGHT	NOTES
147 Hz	123 cm	child figure
166 Hz	165 cm	female figure
200 Hz	185 cm	male figure
261 Hz	219 cm	hero figure
344 Hz	248 cm	demigod figure
400 Hz	278 cm	god figure

WOOD MEASURES (PLANKS 12x3cm)

1 LAYER	» 1118 CM	~55€
2 LAYERS	» 2236 CM	~110€

WOOD MEASURES (PLANKS 12x3cm)

1 LAYER	» 1218 cm	~65€
2 LAYERS	» 2436 cm	~125€



EIGHT

- 4 cm
- 11 cm
- 20 cm
- 31 cm
- 47 cm
- 65 cm
- 18 cm ~



14

.12

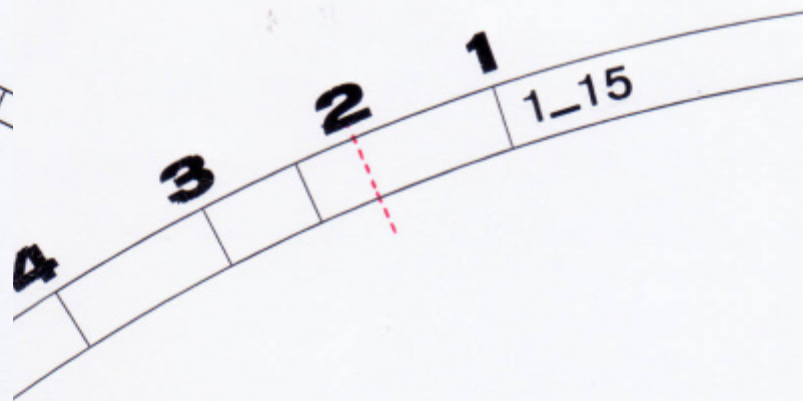


C 1118



C 22.





ENE 2017



R 3.55870
C 22.36
A 39.7863

TRACK GAUGE
MAIN 1.435 mm
HIGH-SPEED 1.435 mm

CARACTERÍSTICAS GENERALES DEL MATERIAL DE FERROCARRILE

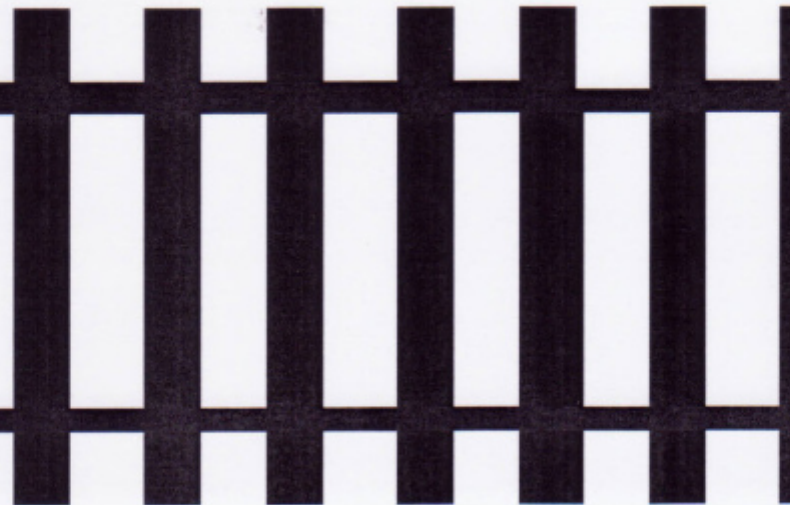
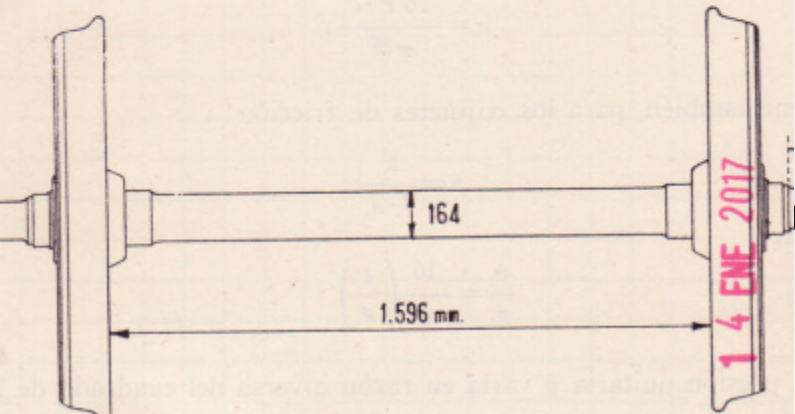


Figura 23.

Seller
章竹梅
zhumei0930@hotmail.com

Note to seller
You haven't included a note.

Shipping address
NIF 506322076 MANDRAGORA / Catarina Soares
R. S. Roque da Lameira, 1358
Porto
4350-304
Portugal

Shipping details
The seller hasn't provided any

Description	Unit price
120 Stripes 3mm Width Quilling Origami Paper Pure Colour DIY Tool Handmade Gift (White) Item# 121852226284	\$1.04 AUD



Shipping and ha
Insurance - not c

Pay
This charge will appear on your credit card statement as "PJ
"QLYCHEE.
Payment sent to zhumei0930@hotmail.com

From a
To a
Exchange rate: 1 Euro = 1

Currency conversion: To complete this transaction, we converted the payment amount based on our agreement with you. PayPal's currency conversion fee is added to the external financial institution. For more information about fees, see our [user agreement](#).

Seller
ma jinna
13039311816@163.com

Note to seller
You haven't included a note.

Shipping address
NIF 506322076 MANDRAGORA / Catarina Soares
R. S. Roque da Lameira, 1358
Porto
4350-304
Portugal

Shipping details
The seller hasn't provided any

Description	Unit price
1PC Floral Scissors Stainless Steel European Vintage Sewing Shears DIY Tools New (Gold) Item# 112220902004	\$2.89 USD



Shipping and ha
Insurance - not c

Pay
This charge will appear on your credit card statement as "PAYPA
J
Payment sent to 18686680275@16

From a
To a
Exchange rate: 1 Eur

Currency conversion: To complete this transaction, we converted the payment amount based on our agreement with you. PayPal's currency conversion fee is added to the external financial institution. For more information about fees, see our [user agreement](#).

We've asked the seller to ship to the address below.

Shipping address:
R. S. Roque da Lameira, 1358
4350-304 PORTO
PORTUGAL

Description	Unit Price	Quantity
200 Quilling paper strip s 3mm wide - pearlescent gold	3,00 GBP	2 6,

Shipping and handling 0,
Tax amount
Total 6,
Payment 6,
From amount 7,
To amount 6,
Exchange rate: 0,

Payment sent to: trade4you1@gmail.
This transaction will appear on your s
TRADE4YOUUK.

International Shipping and Import Charge

Transaction ID: 0S660349PH761592H

A separate payment was sent to this global shipping company to ship your package a

Description	Unit Price	Quantity
200 Quilling paper strip s 3mm wide - pearlescent gold	3,00 GBP	2 6,

Shipping and handling 0,
Tax amount
Total 6,
Payment 6,
From amount 7,
To amount 6,
Exchange rate: 0,

Payment sent to: trade4you1@gmail.
This transaction will appear on your s
TRADE4YOUUK.

International Shipping and Import Charge

Transaction ID: 0S660349PH761592H

A separate payment was sent to this global shipping company to ship your package a

International shipping and import charge
Total
Payment
From amount
To amount

Seller
STRADE FAREAST LIMITED
dyrightsiriow00a@hotmail.com

Shipping address
NIF 506322076 MANDRAGORA / Catarina Soares
R. S. Roque da Lameira, 1358
Porto
4350-304
Portugal

Note to seller
don't join orders, i've ordered tr

Shipping details
The seller hasn't provided any

Description	Unit price
100Pcs Coins Coins Containers plastique transparent 45mm Capsules Boites Item# 282215702706	€10.93 EUR



Shipping and ha
Insurance - not c

Pay
This charge will appear on your credit card statement as "P/
*STRADEF/
Payment sent to dyrightsiriow@hotmail.com

Issues with this transaction?

You have 180 days from the date of the transaction to open a dispute in the Resolution (

? Questions? Go to the Help Center at: www.paypal.com/pt/help.

Seller
STRADE FAREAST LIMITED
dyrightsiriow00a@hotmail.com

Shipping address
NIF 506322076 MANDRAGORA / Catarina Soares
R. S. Roque da Lameira, 1358
Porto
4350-304
Portugal

Note to seller
You haven't included a note.

Shipping details
The seller hasn't provided any

Description	Unit price
100Pcs Coins Coins Containers plastique transparent 45mm Capsules Boites Item# 282215702706	€10.93 EUR



Shipping and ha
Insurance - not c

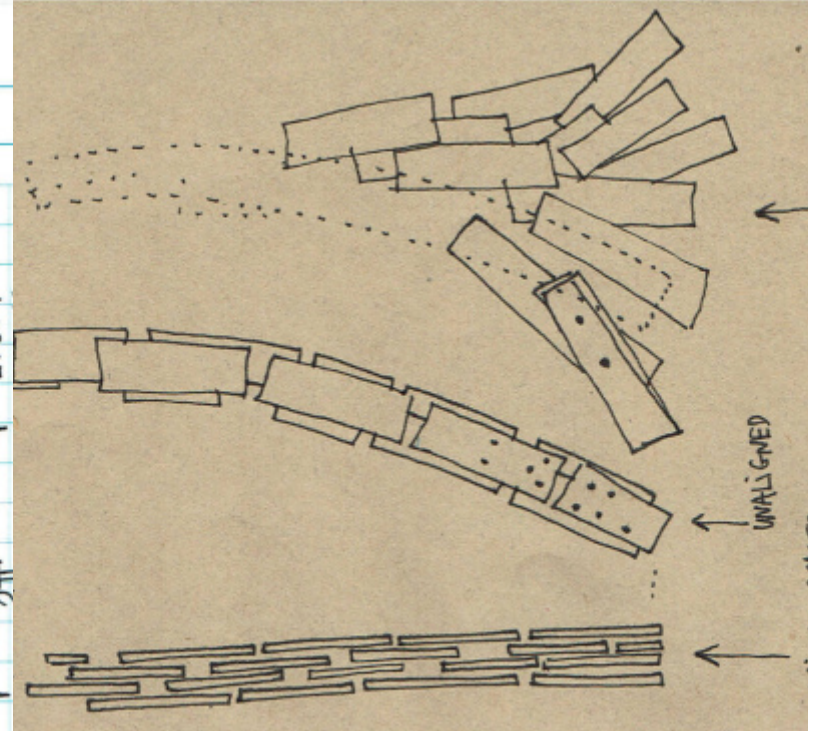
Pay
This charge will appear on your credit card statement as "P/
*STRADEF/
Payment sent to dyrightsiriow@hotmail.com

Issues with this transaction?

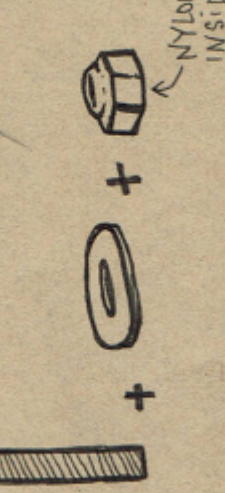
You have 180 days from the date of the transaction to open a dispute in the Resolution (

? Questions? Go to the Help Center at: www.paypal.com/pt/help.

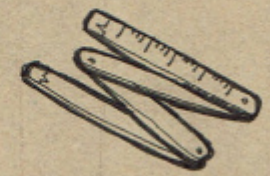
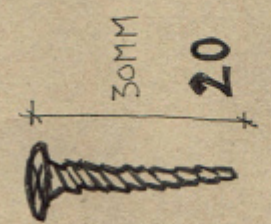
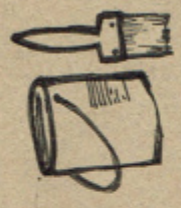
$355 \times .50 = 177.5$
150 / 3 LAYERS = 50M
225M LEFTOVER
 $225M / 6 = 4.58(3)M$
16.74 PER LAYER
4 LAYERS = 66.96
 $110.54 \text{ LEFT} / 6 = 18.42(3) \text{ PER POLE}$
 $16.74 = 2TR$
 $r = \frac{16.74}{2TR}$
 $r = 2.664$



40
30MM
φM3
φM4



2LTS PAINT BLUE



250
254
302
340
382

8.2
10.6
12.5
14.6

8
10
12
14

104
130
156
182

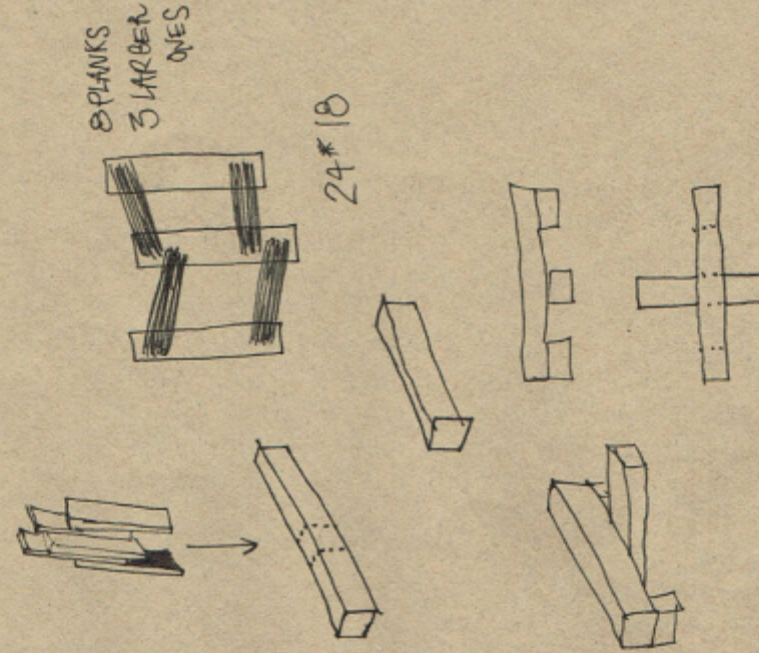
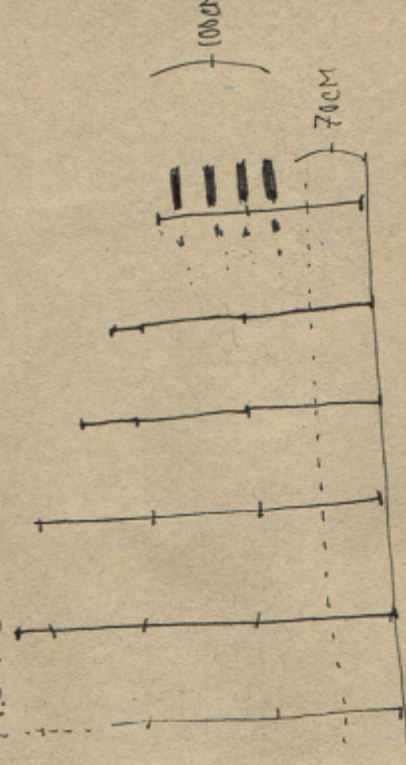
702

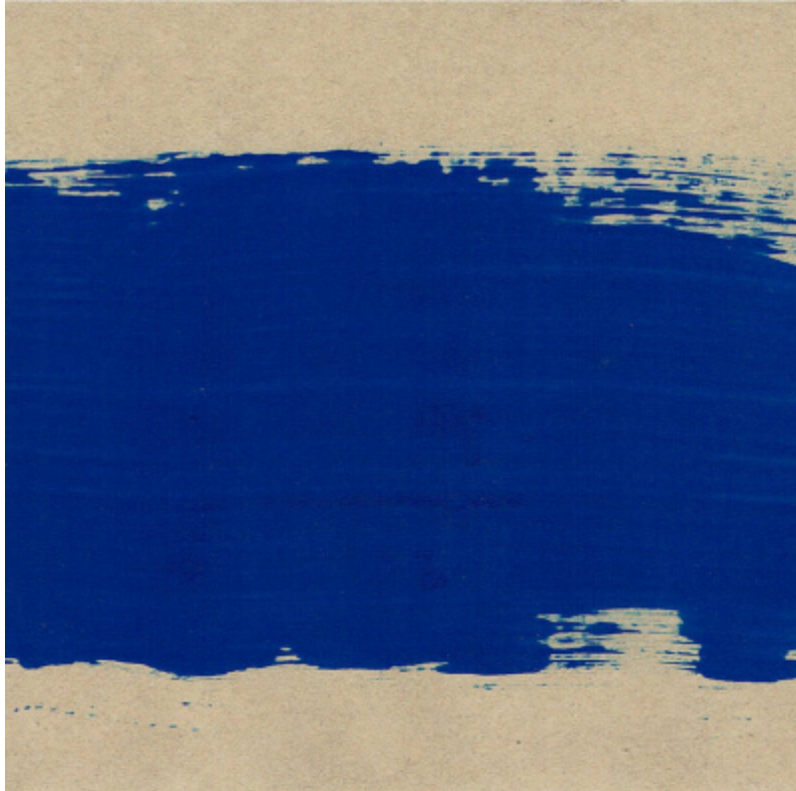
→ 109.5M

54

250M

1.5M * 5 = 7.5M





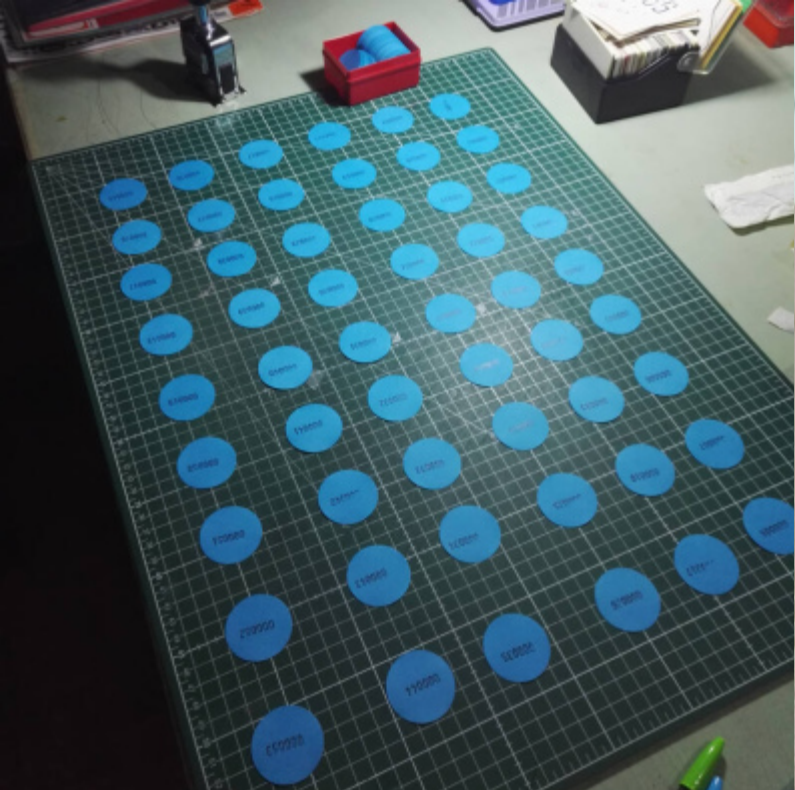
DECLARAÇÃO

Angelo Correia de Carvalho, nº 60, desta vila de Espinho, declara ter em propriedade a bicicleta nº 150.009 de 47 cm/3 cilindrada.

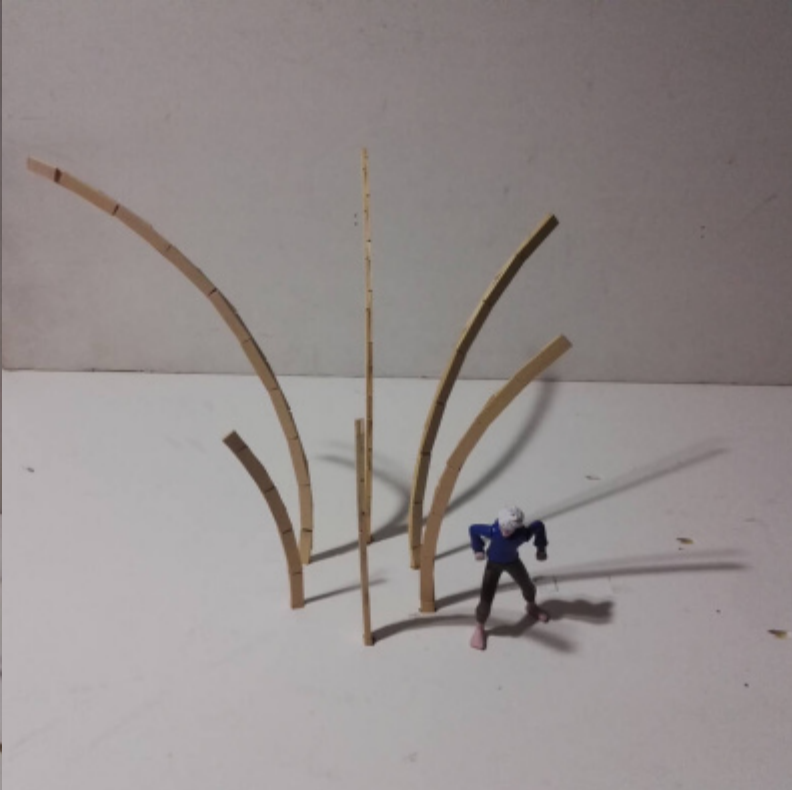
2 8 ENE 2017 ELEFSINA

DEPARTURE FROM THE HOTEL	08:30
TO TOURS CONNECTING TANDEM PROJECTS	10:50
TOURS (TANDEMIANS AND PARTICIPANTS) LUNCH BREAK ELAIOURGIKI	13:30
SHOPS AND PRESENTATIONS	15:00
DEPARTURE FOR ATHENS AND DINNER	18:15















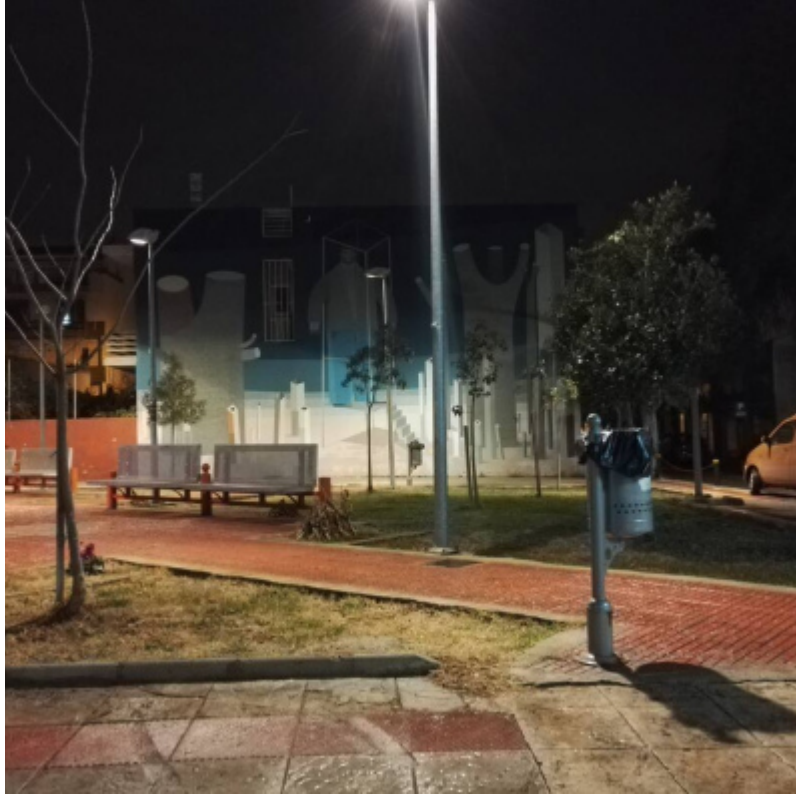


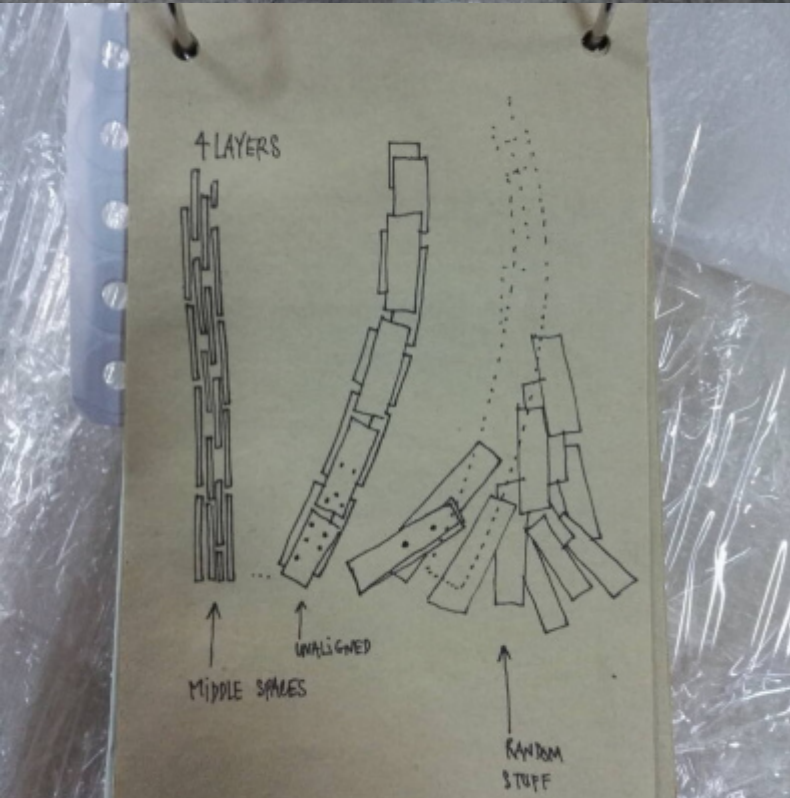






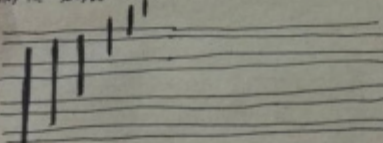




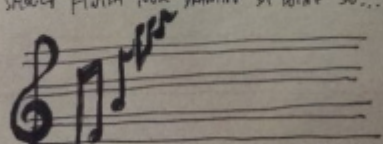


AT THE MEETING, AT WHICH HAD BEEN THE MUSIC MANUFACTURING ESCROW, -
THE MEETING WHERE I FIRST MET JOHN AND PEDRO, ... PEDRO DRAWS A
PARALLEL WITH ANOTHER ONE FOLLOWING:

... AT LEAST SOMETHING SIMILAR TO IT, AND HE GOES ON EXPLAINING:
"THERE ARE THESE PAWNY TANKS, AND IMAGINE 6 PILES OF
DIFFERENT SIZES."
AND HE DOUBLES A LITTLE MORE.



HALF AN HOUR LATER OF CHIT CHAT ABOUT THE PROJECT I
GRAB THE PEN AND TELL PEDRO:
"MATE, ... IF YOU EVER PRESENT THIS IDEA AGAIN YOU
SHOULD FINISH YOUR DRAWING BY DOING SO..."





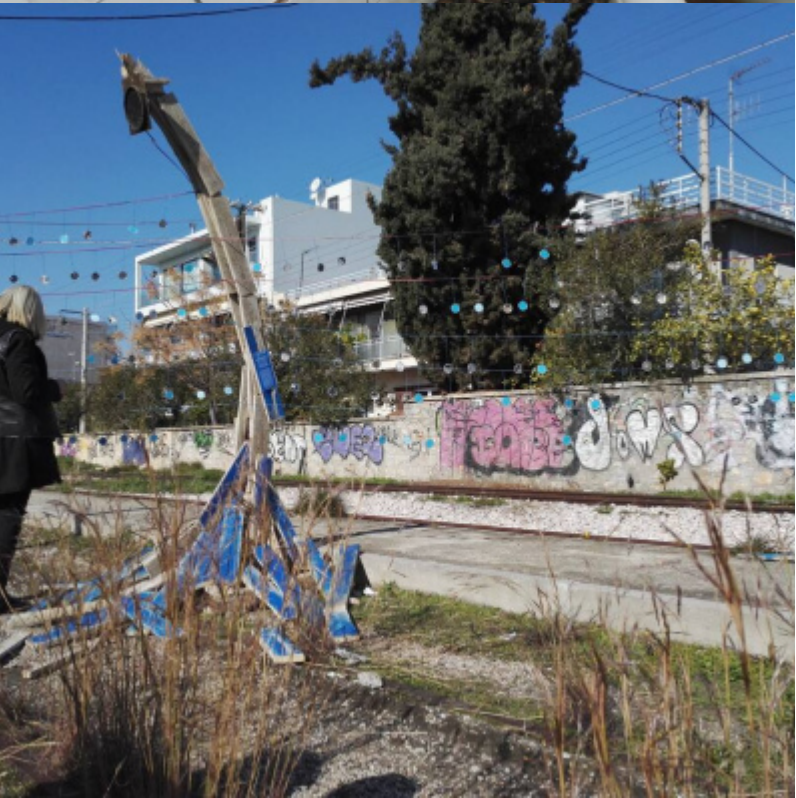




















SHOWN AT

2017

"Elefsina 2021 - Collaborative Environmental Regeneration - 2017" // Elefsina, Greece

