TECHNICAL INFORMATION

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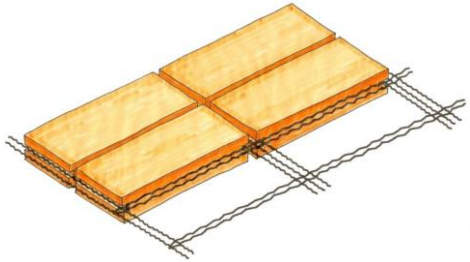
Flexbrick
dressing architecture

Introduction



What is Flexbrick?

"Flexible steel mesh in which pieces are inserted, in pitch or broken formation. Pieces are safely confined as they are provided with slots at both ends which are used for housing the wires of a steel mesh fastening all the unit"

Let's design:

1. *Check about the brick and row net dimensions.*
2. *Check about the wide's nets dimensions.*
3. *Draw your project.*
4. *Send it to the Flexbrick Technic Office to get the details and economic study.*

Patented System with a industrialized production.
Our limits, your wishes

Bricks Dimensions

You need to know:

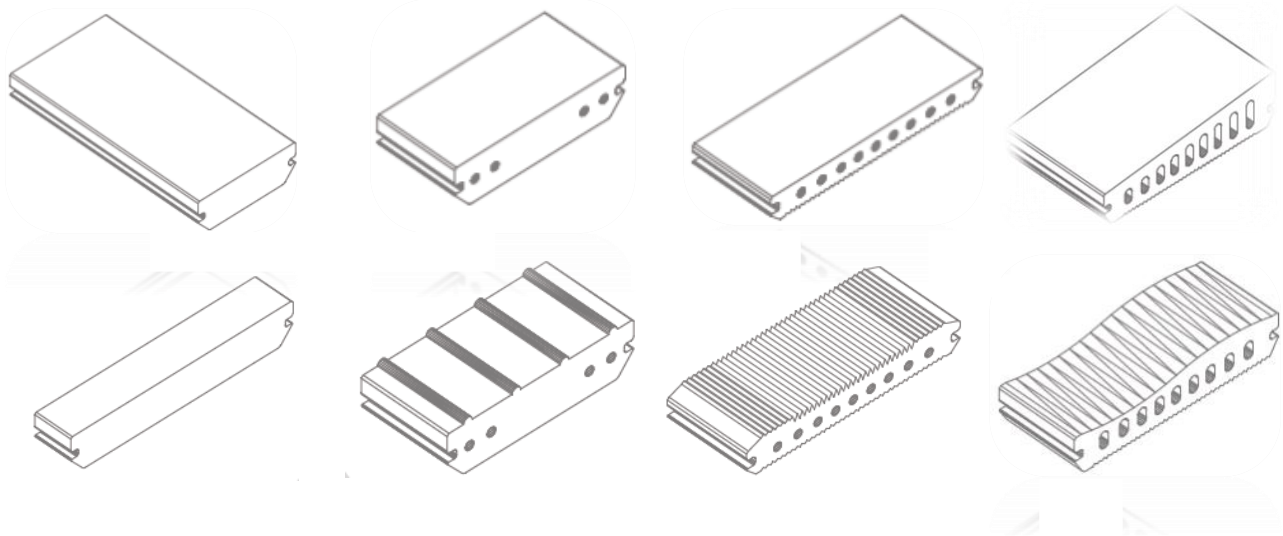
High:
From 5 cm to 20 cm.

Wide:
From 15 cm to 40 cm.

Thickness:
From 2,5 cm to 6 cm.

Materials:
- Terracotta
- Glazed ceramic
- Wood
- Stainless steel
- Glass
- Aluminum
- Others

(*) ask for tolerances



Standard Dimensions

Brick Name	Brick real dimensions (*)			Net rows dimensions (*)		Weight/ut (*) (terracotta)	
	High (mm)	Wide (mm)	Thickness (mm)	High (mm)	Wide (mm)	(Kg)	(N)
20 10 3	98	193	28	106	200	0,85	7,85
25 10 3	98	243	28	106	250	1,07	7,85
30 10 3	98	293	28	106	300	1,29	7,85
20 10 5	98	193	50	106	200	1,89	9,81
25 10 5	98	243	50	106	250	1,91	7,85
30 10 5	98	293	50	106	300	2,30	7,85
30 5 6	48	293	58	58	300	1,63	9,81

Length examples (100% and 50% bricks)

Net columns		3		4		5		6	
Nº of wires working		8		11		14		17	
Maxim net Weight = (791 N/1'10 x nº of wire) (**)		5752,73		7910,00		10067,27		12224,55	
% of bricks in the net		100%	50%	100%	50%	100%	50%	100%	50%
Brick size	net wide (cm)	60	60	80	80	100	100	120	120
20 10 3	weight (N x ml)(*)	344,22	172,11	458,96	229,48	573,70	286,85	688,45	344,22
	length (m)	16,71	33,42	17,23	34,47	17,55	35,10	17,76	35,51
Brick size	net wide (cm)	75	75	100	100	125	125		
25 10 3	weight (N x ml)(*)	430,2821	215,1411	573,7095	286,8548	717,1369	358,5684		
	length (m)	13,37	26,74	13,79	27,57	14,04	28,08		
Brick size	net wide (cm)	90	90	120	120				
30 10 3	weight (N x ml)(*)	516,3386	258,1693	688,4514	344,2257				
	length (m)	11,14	22,28	11,49	22,98				
Brick size	net wide (cm)	120	120						
40 10 3	weight (N x ml)(*)	688,4514	344,2257						
	length (m)	8,36	16,71						

weight (N x ml)(*) The weight security coefficient is 30%

Wire (**) The wire security coefficient is 10%

Iron net dimension

Net material:

- Façades: Stainless Steel Asi316.
- Pavements: Stainless steel or galvanized.
- Precast: Normal steel.

Length:

- Depend on the weight of the brick we put on the iron net.
- Maxim weight for its 2 mm iron wire = 80,63 kg (number with non project security coefficient*).

Wide:

- Maxim: 125 cm from 3 to 6 columns.
- Minim : 45 cm with 3 columns.

You need to know:

The limit elastic (resistance) of a 2 mm ⌀ Stainless steel Asi316 wire for façade is 277 Mpa.

Drawing façades

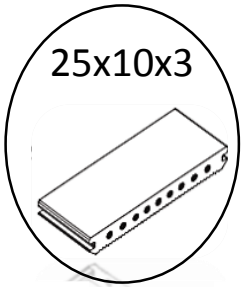
Steps:

1. Choose your brick size.
2. Draw your nets wide's.
3. Design your brick net drawing.
4. Fit and numerate the patterns on the façade.
5. Check the draw with the Technic Office .

You need to know:

Flexbrick is an open design system, consult to the Technic Office to explore its limits.

1



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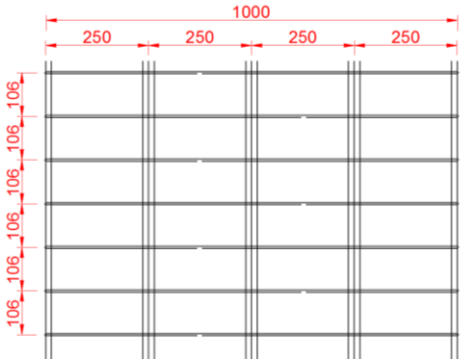

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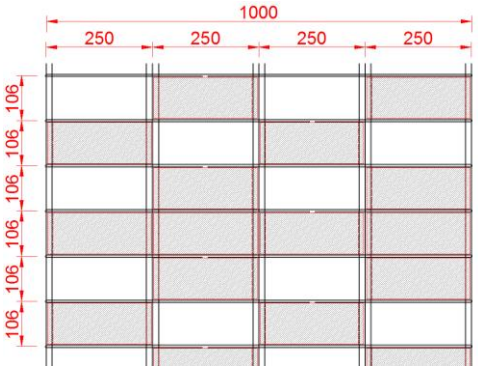

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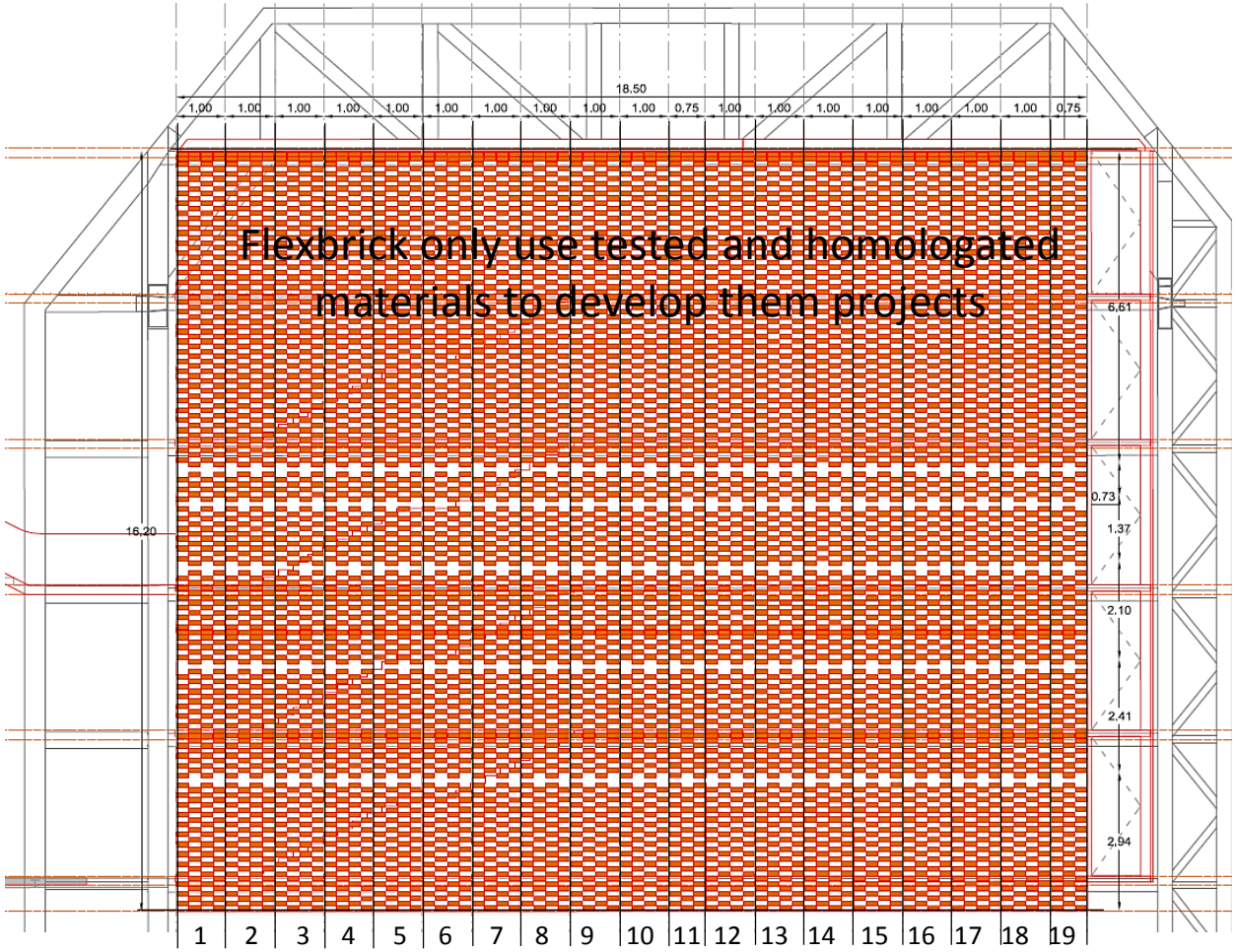

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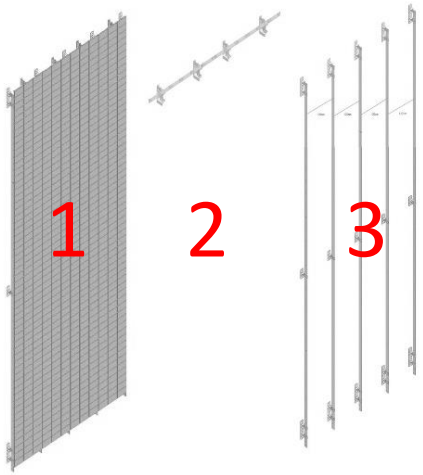
Drawing Other Applications

1 Pavements
2 Roofs
3 Precast Models

You need to know:

Follow and adapt the same steps to draw a façade.

Façade Fixings:



Façade concept: 1+2+3

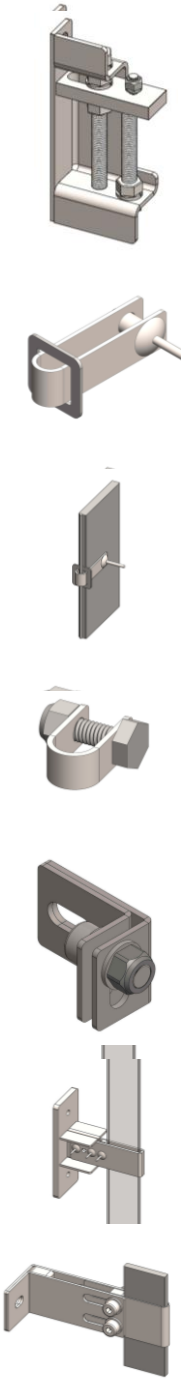
1. Flexbrick Façade.
2. Weight Anchors System.
3. Wind Anchors System.

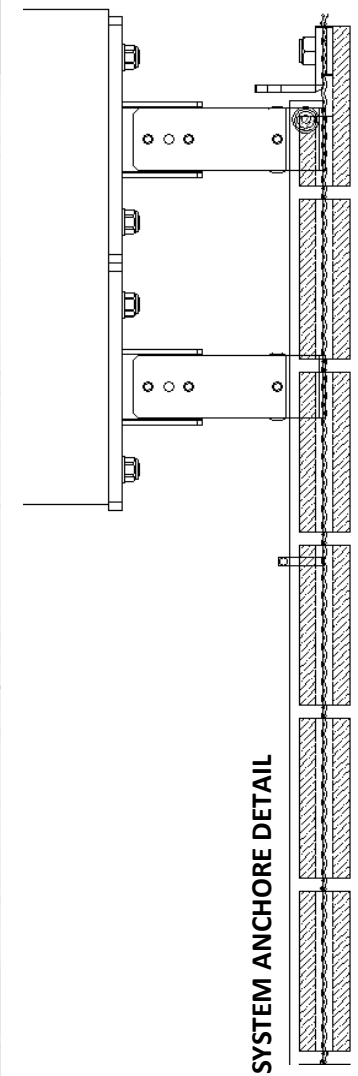
You need to know:

In façades, all component in contact with the net is made with Stainless steel ASI 316.

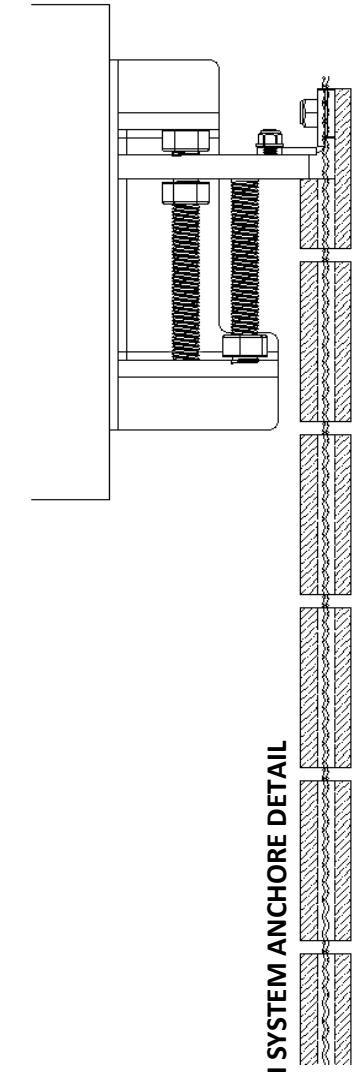
Flexbrick can easily be adapted everywhere, using self building supports or using the Flexbrick fixings connections.

EXAMPLES OF MANY ANCHORES THAT CAN BE DONE

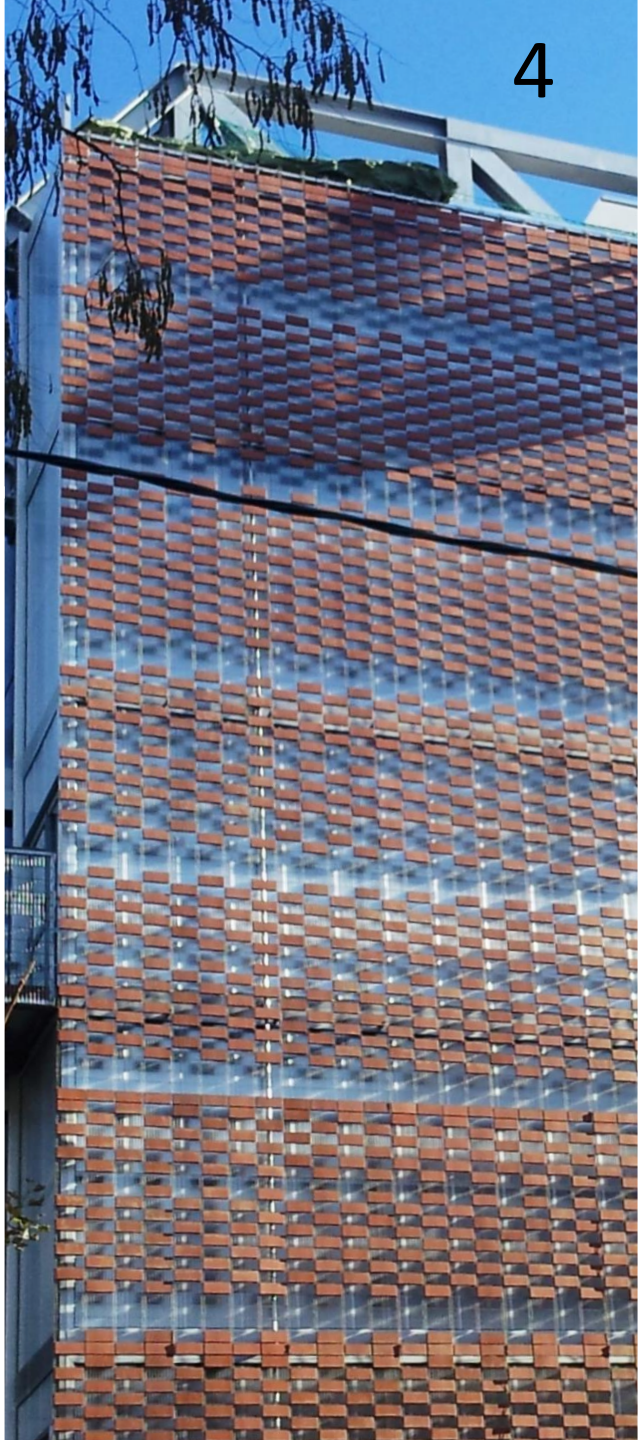




EXAMPLE OF WIND SYSTEM ANCHORE DETAIL



EXAMPLE OF WEIGH SYSTEM ANCHORE DETAIL



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Constructing Process

Pavement:
- Pull the Textile with a crane.
- Lay it on the floor.

Precast pieces:
- Pull the Textile with a crane.
- Lay it on the precast table.
- Add the concrete.

Façade:
- Pull the Textile with a crane.
- Lay and fix it on the weight anchors.
- Install de wind anchors.
- Finish the draw inserting a few number of bricks files .

Use and Maintenance

Use:

- Do not hang weighs on the Flexbrick wire nets.
- Do not scale the façade.
- Do not cut the iron net to make holes on the façade.
- Do not hit the façade with strong objects.
- Do not change the louds conditions of the iron net.
- Do not add bricks on the façade without consulting.

Maintenance:

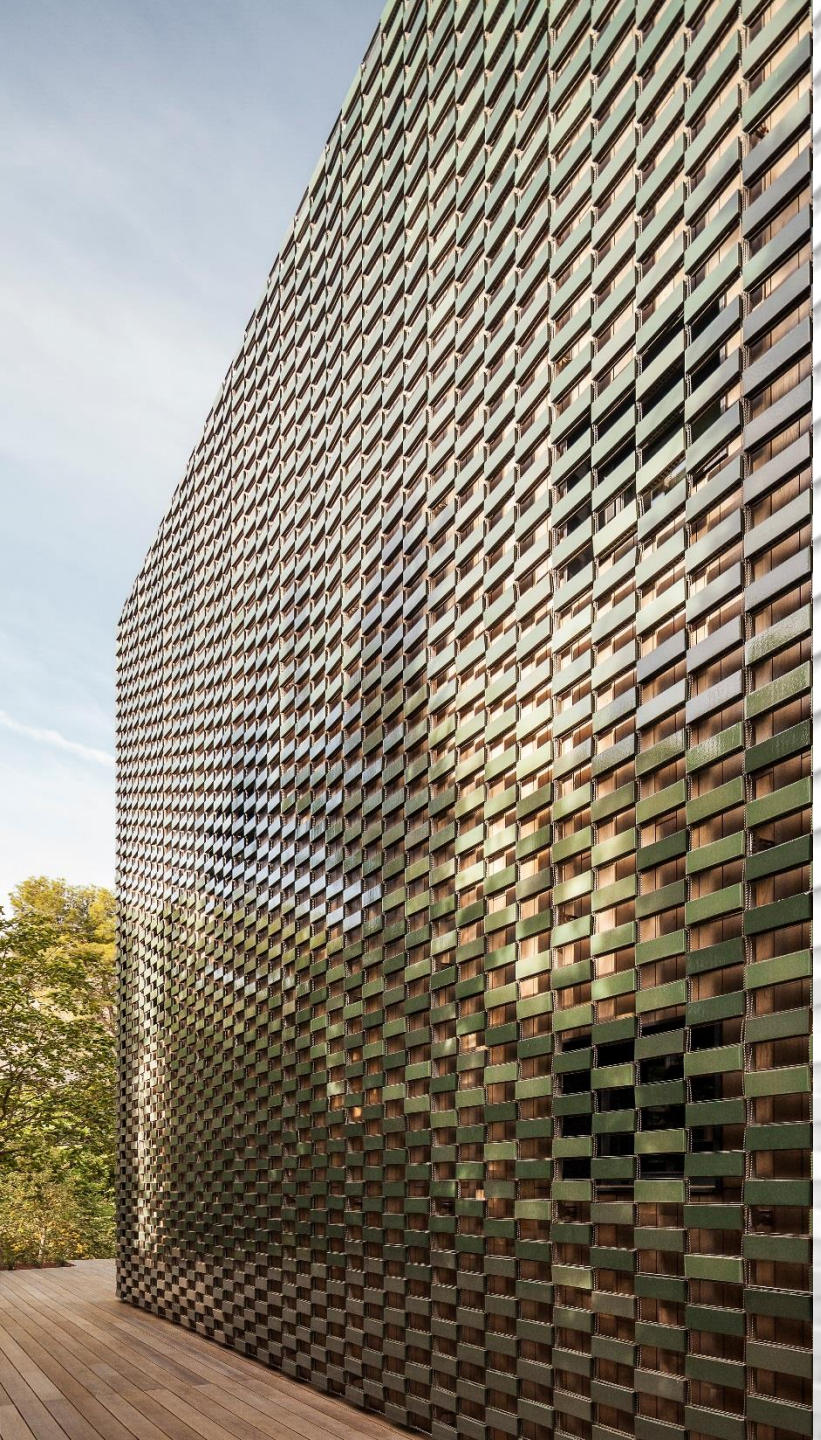
Every 2 years:

- Visual checking of the general aspect of the façade.

Every 10 years:

- Check and clean the fixings.
- Check and clean the bricks.

Use products adequate to the each materials.



Range of prices

You need to know:

- The price change according the number of colours, material and patterns designs you improve.
- The price decrease in big size projects.
- The price decrease if the medium of the textiles lengths are longer.
- The location of the project modify the costs.

Let's try to give a price, p ex:

In each country Flexbrick will tell you the approximately cost for square meter of a 1000 m^2 installed project, with ceramic brick, lengths of 8 ml, easy pattern, in case of façades or pavements. From that point you need to know:

- If the project is < 100 m^2 increase the cost up to 50% approx.
- If the project is bigger the cost can be reduced depending each case.
- If the lengths are <3 m increase the cost 20% approx.
- If the pattern is more sophisticated increase the cost from 20 to 100% approx.
- If you change material to:
  - Glazed ceramic, add 30%.
  - Wood, add 50%.
  - Stainless steel, add 300%.
  - Glass, add 500%.

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Transporting

You need to know:

- Flexbrick pellets can be stored in 2 or 3 floors, depending on each project.
- Standard Pellets dimensions (large, wide, high)= 2 x 1 x 0.80
- Pellets can be transported on trucks.
- Pellets can be transported on containers (weight until 20.000 kg).
- Check to each customs house country for taxes and other legal requirements.

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