NanoCement foam concrete blocks (NC-foam concrete blocks)

Unique non-autoclave technology of production of building foam blocks on a cement basis

FORMULA of NC-foam concrete blocks

2+2+1

2 times cheaper

2 times lighter

1- standard dimensions and strength

"The Secret" of NC-foam concrete blocks

- > super-cavitational processing of water-cement suspension;
- highly-persistent, finely-divided foam;
- > fabrication aids

NC-foam concrete blocks are widely used in:

the construction of multi-storey frame structures for internal and external wall enclosures (e.g., in the construction of buildings of the Moscow-City)



cottage building





industrial building

Technological process of production of NC-foam concrete blocks

Station of preparation and pump feeding of water-cement suspension



Super-cavitational activation of water-cement suspension



Cavitational foam generation



Pouring into molds, maturing and hardening of foamed concrete



Cutting the foamed concrete slabs onto foam concrete blocks



Packaging and storage of foam concrete blocks









Our proposals

1. Supply of mobile equipment for the production of NC-foam concrete blocks in the 20-foot container, with capacity from 3 to 20 m³/h.

Prices: from 80 000 to 240 000 \$ USA

The price depends on the capacity and purpose of use



 Supply of individual items of equipment integrated into existing production lines of non-autoclave production of foam concrete blocks with fillers (sand, slag, etc.) for the production of foam concrete blocks of the same strength but without fillers.

Prices: from 18 000 to 36 000 \$ USA

3. For the wider deployment of technologies of production of NC-foam concrete blocks is possible invest in the creation of production of foam concrete blocks of various capacities.

The minimum investment amount \$ 3 million if own funds of the partners 10% or the presence of a bank guarantees for the implementation of the business project.

Investment money from \$3 to \$30 million **USA** depending on the business project.









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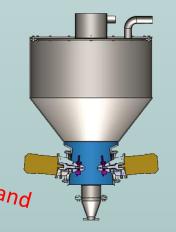
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Our results



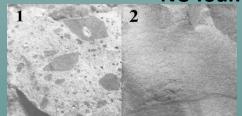
Only cement, water and



Comparative characteristics of physical and technical parameters of building wall blocks of autoclave and non-autoclave traditional blocks and NC-foam concrete blocks

Characteristics	Unit of	Building blocks		Non-autoclave porous foam concrete	
	measure ment	Haydite concrete	Autoclaved aerated concrete	Traditional	NC-foam concrete blocks
Density	kg/m³	9001200	600800	300800	160400
Thermal conductivity	W/m.K	0,50,7	0,180,26	0,050,38	0,010,1
Cycle	Cycle	25	35	35	60
Water absorption	Mass.%	18	20	1214	25
Compressive resistance	MPa	3,57,5	2,55,0	2,25,5	2,25,5
The unit cost of production	%	90100	100	6070	3050

NC-foam concrete blocks



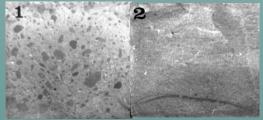
The cut of a foam concrete block on the basis of cement M400

1-usual 400 kg / m³;

2,4 MPa

2-NC-foam block 200 kg / m³

2,4 MPa



The cut of a foam concrete block on the basis of cement M500

1-usual

2-NC-foam block

400 kg / m³; 3,2 MPa 200 kg / m³

3,2 MPa