



PadraBrickCo

PadraBrick  
Construction INC.

# MAKING BRICKS USING COAL REFUSE IN CANADA

[www.padrabrick.com](http://www.padrabrick.com)



# ABOUT US

GET TO KNOW US BETTER

Padrabrick is an innovative startup expanding to Canada. Established in Iran in 2014, we specialize in producing eco-friendly building bricks using industrial by-products and waste materials. Our patented formula, developed in 2017, solidifies our position as pioneers in sustainable construction. With a dedicated team and a passion for sustainability, we aim to make a positive impact on the local construction industry. Join us in building a better world, one brick at a time.



# PROBLEMS

WE WILL SOLVE THE PROBLEMS

## 01 High Temperature for Brick Making

Traditional bricks need to be fired at 800-1200 degrees C, emitting 1 million tonnes of CO2 each year!

## 02 Natural Resource Depletion

In Ontario (Canada), the production of clay bricks is approximately 700 million per year. Clay deposits are under depletion in many parts of the world



## 03 High Price/Fine for Mining

Our price is half the price of the bricks in the market with no compromise over quality

# SOLUTIONS

SOLUTIONS OF THE PROBLEMS

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# Geopolymer Brick

**We use coal mine tailing that is left over after the process of separating coal instead of soil and add our mineral polymeric binder to make a geopolymer that does not require high temperatures!**

# OUR WORK

## WHAT WE DO



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### Mixing

Alkaline solution provides a reaction medium and assures the mixing and handling of the mixture



### Pressing

300 Ton



### Curing

To cure our bricks, we use shuttle kilns. The drying and heating process takes about 8 hours. We heat up to 800

# STANDARD SPECIFICATION FOR FACING BRICK

	individual	Average
Compressive Strength MPa	11 (min)	14 (min)
Boiling water absorbtion(%)	*8-20	8-18
Active soluble salts%	-	0.6(max)
Freeze/thaw Resistance(weight loss%)	-	<3
Modulus of rupture(kg/cm <sup>2</sup> )	35(min)	40(min)

# Standard Test Report

	individual	Average
Compressive Strength (MPa)	24.5	27.6
Boiling water absorbtion(%)	*8.1	8.4
Active soluble salts%	-	0.2
Freeze/thaw Resistance(weight loss%)	-	0.4
Modulus of rupture(kg/cm <sup>2</sup> )	48	53

# COMPETITIVE ADVANTAGE



## Energy Efficiency

PadraBrick uses energy-efficient formulas that do not require high temperatures to make very strong bricks, while ordinary bricks require 1000-1300 degrees C for at least 12 hours

## Less use of Fossil Fuels

As a result of our novel formula, the temperature for manufacturing the bricks decrease, resulting in less consumption of fossil fuels also less pollution

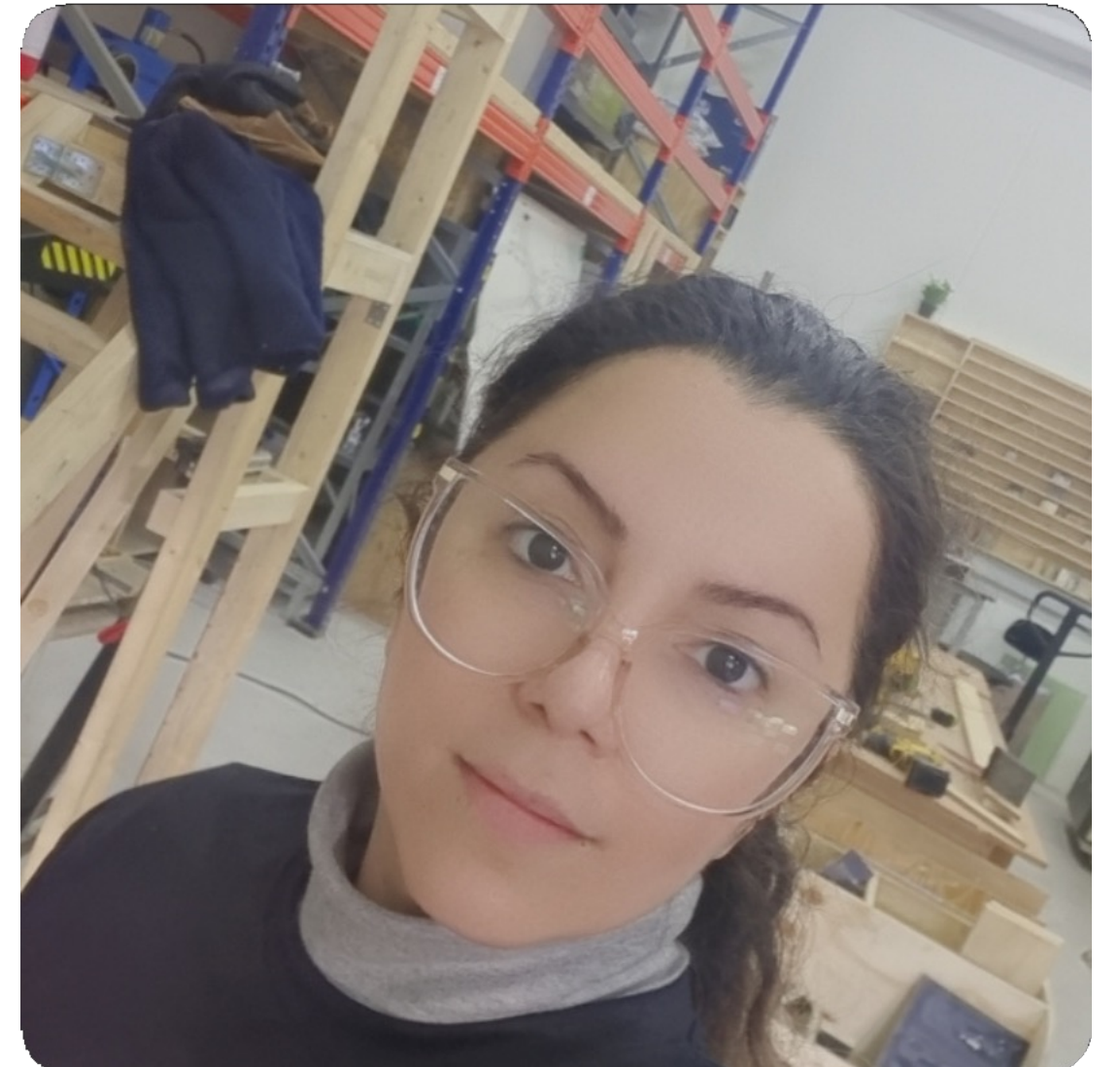
## Preserves the Environment

The use of industrial wastes and by-products reduces natural resource use saves energy, and preserves the environment.

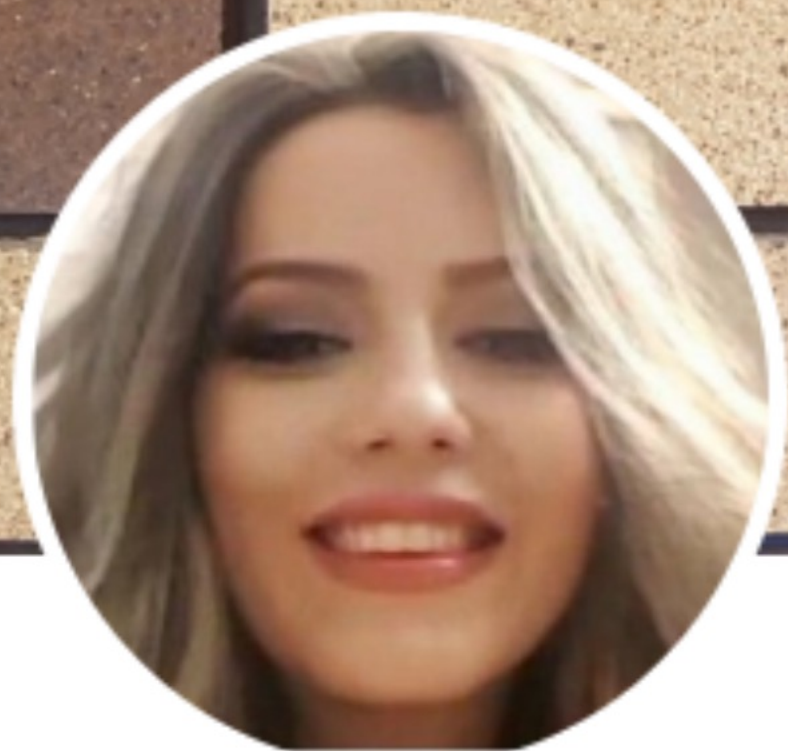
## Better Price!

The price of our product is lower than the price of competitors in the market(Every brick costs us 35 cents, and we sell it for 60 cents.





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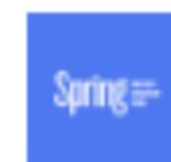
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