

# MULTIPLE LIGHT BRICKS

নির্মাণ কাজে লাভ অধিক

# 1. Company Background

- Active Corporation – a trading company established in 1992 for promoting products of overseas companies in Bangladesh.
- MULTIPLE TRADING, a sister concern of Active Corporation established in 1997 to import equipment and transformer raw materials for transformer manufacturers.
- In the year 2000, MULTIPLE TRADING became the first distributor of ABB SACE, Italy in Bangladesh for Low Voltage Circuit Breakers, MCCB & ACB and subsequently, MCB from ABB STOTZ-KONTAKT, Germany.
- MULTIPLE TRADING also deals in Medium Voltage Circuit Breakers – VCB and Low voltage control products as a Channel Partner of ABB.
- MULTIPLE LIGHT BRICKS and BLOCKS – is a sister concern of MULTIPLE TRADING established in 2014 and obtained permission from Board of Investment (BOI) for setting up the factory.

## 2. MULTIPLE LIGHT BRICKS & BLOCKS

- MULTIPLE LIGHT BRICKS & BLOCKS are the first manufacturer of MULTIPLE LIGHT BRICKS in Bangladesh. Began production in June, 2015
- Our factory is located in Savar

### 3. MULTIPLE LIGHT BRICKS & BLOCKS

- MULTIPLE LIGHT BRICKS - It is a light weight concrete product.
- It is a new building material of this era.
- A new eco-friendly building material in Bangladesh context.
- Internationally it is known as CLC – Cellular Light Weight Concrete or Foam Concrete or else.

We call this product:

# **MULTIPLE LIGHT BRICKS**



## 5. Why is it LIGHT ?

- Because of it's low density.
- Density is less than normal concrete. Density of Concrete is about 2200 Kg / m<sup>3</sup>.
- Density is even less than clay burnt red brick which is about 2000 Kg / m<sup>3</sup>.
- MULTIPLE LIGHT BRICKS density range is 600 – 1800 kg/m<sup>3</sup>.
- Because of it's low density – it is lighter than concrete or clay burnt red bricks or concrete hollow blocks.
- Different density light bricks can be made as per requirement.

## 6. RAW MATERIALS

- Ordinary Portland Cement
- River sand
- Foaming agent – Used to make the product light
- Water

## 7. OUR PRODUCT – MULTIPLE LIGHT BRICKS

- Our product size is : 500 x 200 x 100 mm  
i.e. about : 20 x 8 x 4 inch



# OUR PRODUCT – MULTIPLE LIGHT BRICKS

- Our product is suitable for making 200mm and 100 mm thin wall, i.e. 8 inch and 4 inch wall
- Density of MULTIPLE LIGHT BRICKS is between 800 to 950 Kg /m<sup>3</sup>



# OUR PRODUCT – MULTIPLE LIGHT BRICKS

- Unit weight is : 9 to 10 Kg



# OUR PRODUCT – MULTIPLE LIGHT BRICKS

- One MULTIPLE LIGHT BRICK = 6 red bricks in size and weigh about half of red bricks



1 Multiple light brick = 6 red brick



Red Brick Weight : 19.9Kg

## 9. COMPRESSIVE STRENGTH OF MULTIPLE LIGHT BRICKS

- Compressive strength depends on density of the product and use.
- Compressive strength: 2.0 MPA – 4.0 MPA

## 10. USE MULTIPLE LIGHT BRICKS

- Bricks are made for making non-load bearing partition wall of high rise residential & commercial building.
- Color: Homogeneous concrete color.
- Uniform in shape and size.
- Brick laying: Standard cement-sand mortar ( 1:6)

# 11. Saves steel

- During building design phase, the designer can consider 50% dead weight than conventional dead weight parameter of designing with red bricks.
- Due to it's light weight, it saves reinforcement steel and concrete substantially.

## 12. Water absorption

- Water absorption is about 15%. Wall remains dry and damp less.



# 14. Speedy and Easy Construction

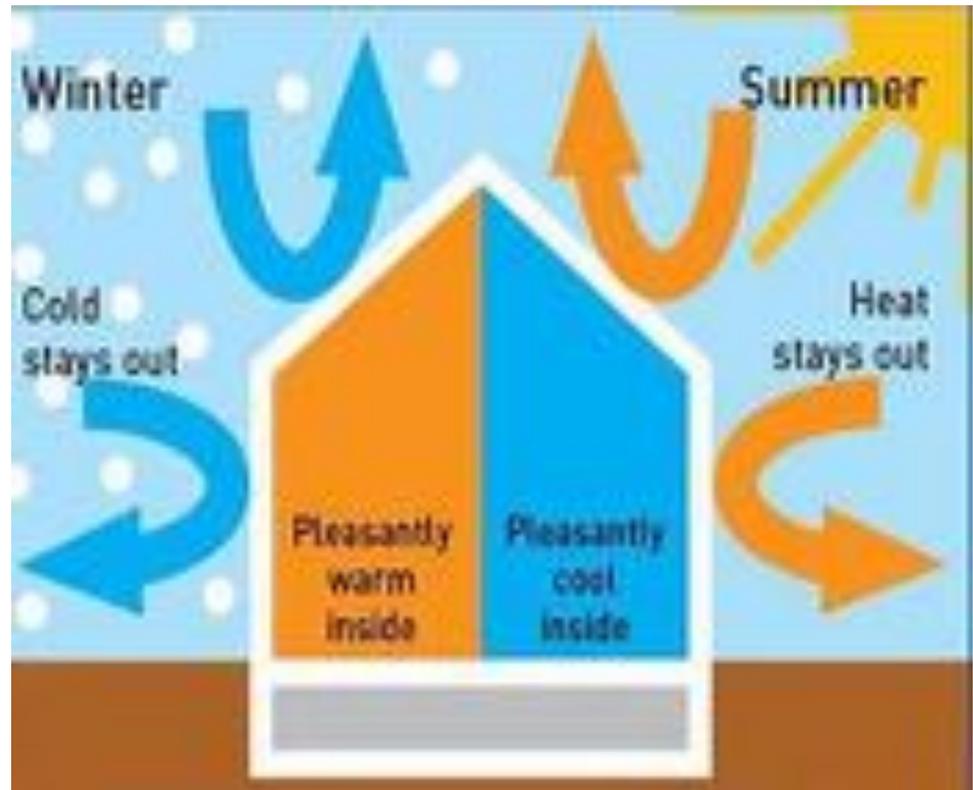
- Due to its uniformity in shape and size, thin-bed mortar is fine for brick laying, and also provides savings in plastering materials, time and labour.
- Large in size and light in weight results in reduced construction time, notable improvement in efficiency and productivity and also develops less rubbish presenting cleaner construction site.

# 15. Workability

- Easy to cut, drill, slot, grind etc.
- Easy and fast for placing electrical conduits, switch boxes, plumbing pipes and fittings.

# 16. Thermal Insulation

- MULTIPLE LIGHT BRICKS are excellent for Thermal Insulation. It keeps the house cool in summer and warm in winter saving electricity for cooling and heating.



# 17. Acoustic Insulation

- **MULTIPLE LIGHT BRICKS** have good capability for sound insulation – It contains large amount of bubbles, for which the acoustic insulation is fairly higher than ordinary concrete or red bricks.



# 18. Fire Resistance

- MULTIPLE LIGHT BRICKS is fire resistant, it does not contain any combustible materials.



# 19. Earthquake Resistant

- **MULTIPLE LIGHT BRICKS** are excellent for Earthquake resistant housing. Due to its light weight, the risk of damage due to earthquake is reduced considerably.



## 20. Eco Friendly Product

- MULTIPLE LIGHT BRICKS are Environment-friendly product.
- Production process does not require wood or coal to burn or agricultural top soil.
- As a result, it consumes very less energy compared to red bricks.

