



NEXRISE<sup>®</sup>



A Complete  
**WALLING**  
Solution

FOR SUSTAINABLE LIVING

## NEXRISE AAC BLOCKS

NEXRISE Autoclaved Aerated Concrete (AAC) BLOCKS is superior quality product by MASUVIC INDSUP PVT. LTD. an ISO 9001:2015 Certified Company. It is manufactured with sustainable materials and a unique high precision process. A devoted team of experienced professional with the persistent commitment from each member of our team demonstrates our concerns to make reliable and responsible product.

The company has the capacity of producing 20000 blocks per day in order to support projects of any size, anytime and anywhere. NEXRISE AAC BLOCKS aspires to be distinctive by providing field support by sharing all relevant technical data and operating methodology to set high construction standards.



## MANUFACTURING PROCESS

AAC BLOCK is formed as a reaction of aluminium metal with blended proportion of lime, cement, gypsum & fly ash. The hydrogen gas escaping from the reaction gives it a strong honey-comb structure. It is further cured for about 10-12 hours at 190° Celsius in an autoclave under saturated steam pressure of 12 bars to give its desired strength.



## E CO FRIENDLY

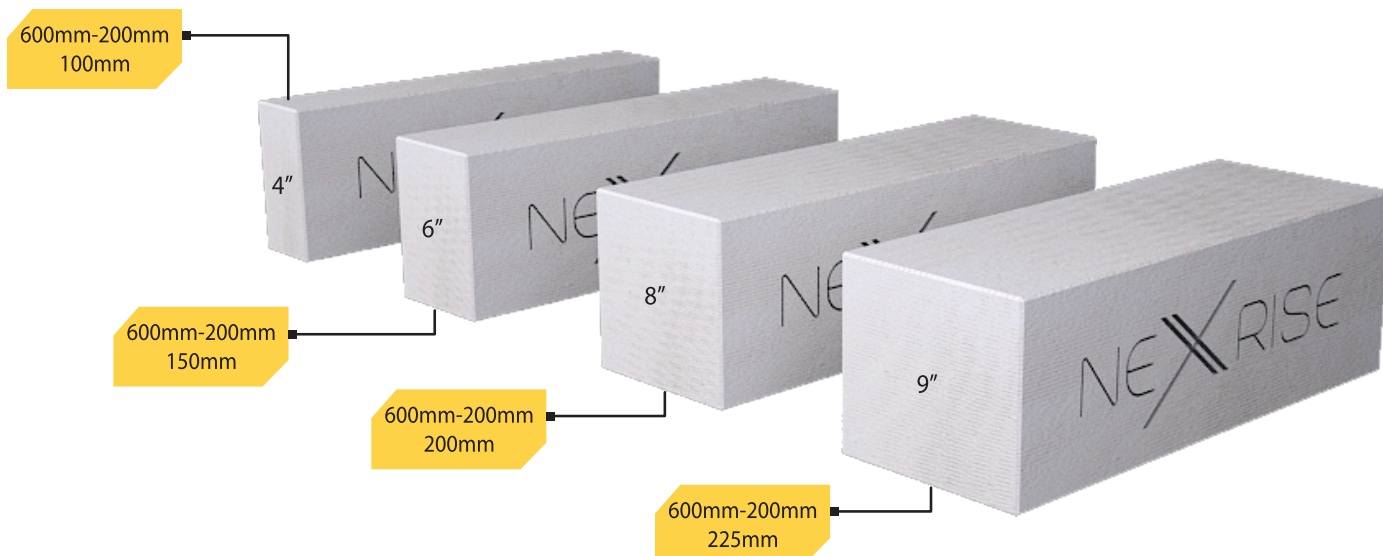
AAC BLOCKS has been certified to be one of the most eco-friendly building material. It is made up of non-toxic ingredients & hence do not generate any toxic fumes or poisonous gases harmful to the occupants & environment. MASUVIC Team exercises various practices that help materialize our commitment as regards our collaborators, our clients, our suppliers, our community and the environment.

By being a member of Indian Green Building Council (IGBC), MASUVIC is playing an active role in an advocacy of green buildings. And we also rely on the reuse of materials and products to eliminate our production-based needs in fossil energy so that our greenhouse emissions become carbon neutral. MASUVIC contribute to reduce its environmental footprint, including the recovery, treatment and processing of waste solvents as well as the maximum use & recycling of water coming from entirely recycled process.



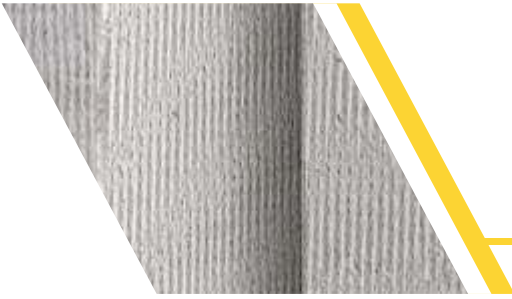
## SPECIFICATIONS

Type of Product	Autoclaved Aerated Concrete Blocks (AAC)
Technical Data	600 mm.L X 200 mm.H X 100 to 225 mm.W (Other sizes can be customized)
Precision in Size	Variation 1.5 mm (+/-)
Compressive Strength	3 - 5 N/mm <sup>2</sup>
Fire Resistance	1200°C / upto 7 hours
Density	600 - 650 kg/m <sup>3</sup>
Sound Reduction Index (db)	42 - 45 db (For 200 mm thick wall)
Thermal Conductivity	0.16 (k) w/m deg.C
Colour	Light Grey



## COST SAVING ASPECTS

COST COMPONENT	SAVING IN COMPONENT	ESTIMATED IMPACT ON PROJECT COST	EXPLANATIONS
Mortar Material	60%	1%	NEXRISE AAC BLOCKS are 9 times the size of conventional bricks, resulting in 1/3rd the number of joints. Thus result in overall mortar saving of upto 65%.
Plastering Material	35%	2%	Exceptional dimensional accuracy & Smooth surfaces eliminates need of three-coat plaster walls and allows for a final 6mm skin coat (putty/sand plaster).
Breakages	65%	1%	Breakage in NEXRISE AAC BLOCKS is less than 3% as compared to 15% in Bricks.
Structural Material (Steel & Concrete)	15%	6%	Being light weight, NEXRISE AAC BLOCKS reduce dead weight of the building. This translates to design of lighter structures leading to reduction in steel and concrete by up to 20%.
Increase in Floor Space Area	2%	4%	Due to exceptional thermal insulation and weather barrier properties, it is possible to use thinner blocks, which results in increase of carpet area.
Saving in Capex for HVAC Systems)	30%	0.3%	NEXRISE AAC BLOCKS have excellent insulation properties, which results in saving of Capex HVAC systems.
Saving in Power Consumption	12%	0.2%	NEXRISE AAC BLOCKS reduces usage of lights & power infrastructure like transformers, DG sets, Cable sizes and saves overall electricity charges.



## RIBBED FACE

NEXRISE AAC BLOCK is the only block in the Industry which comes with a unique ribbed finish on the face. Thus, it helps in better bonding of plaster & jointing mortar which increases strength of structure.

## FIRE RESISTANCE

NEXRISE AAC BLOCKS are non-combustible, hence provides a fire resistance of 6 to 7 hrs in accordance with BS-5628-3 approx twice more protection than normal cement blocks & conventional clay bricks. Thus, allows sufficient time for the safe evacuation of occupant.



## LIGHTER

NEXRISE AAC BLOCKS are 1/3rd times lighter than cement blocks & conventional clay bricks hence it reduce dead load of structure drastically resulting in to saving of steel upto 15% & concrete upto 7%.



## COST EFFECTIVE

- Reduces operating cost by 30 to 40%.
- Reduces overall construction cost by 2.5%.
- Saves 30% energy cost.
- Lower maintenance cost.



## DURABILITY

AAC Products have been in use for nearly 70 years. Since then, the usage of AAC BLOCKS has spread to most parts of the world and it has proved its durability under different climatic conditions.



## STRONGER

NEXRISE AAC BLOCKS has approximate density of 600-650 kg/m<sup>3</sup> & compressive strength of 3 to 5 N/mm<sup>2</sup>, which makes it stronger than other bricks.





### EARTH QUAKE RESISTANCE

Building & structures constructed with NEXRISE AAC BLOCKS are lighter but stable when compared to cement blocks & conventional clay bricks. Thus, absorb & transmit less SEISMIC forces in event of any earth quakes & provide additional safety to the occupants.



### PEST & TERMITE RESISTANCE

NEXRISE AAC BLOCKS are inorganic in nature which does not allow growth of pests & spread of termites. Thus, provides better environment for healthier living.



### WEATHER PROOF

NEXRISE AAC BLOCKS has very low specific conductivity which makes heating or cooling (Air conditioning) very efficient and it generates regular saving on energy & global warming.



### SOUND PROOF

NEXRISE AAC BLOCKS has perfect sound proofing properties due to its aerated structure which provides superior sound insulation for same thickness of wall as compared to cement blocks & conventional clay bricks wall.

### FAST INSTALLATION

NEXRISE AAC BLOCKS are light weight, bigger in size & requires very less water for curing compare to cement blocks & conventional clay bricks, which in term reduces construction time by 20%.



### LONG LASTING

NEXRISE AAC BLOCKS do not contain any organic material. Hence, they will be protected from pest and termite which results in long lasting durability of building in normal atmospheric conditions.



### ACCURACY

NEXRISE AAC BLOCKS has the exact dimension which provides perfect accuracy to our customers.



### ADJUSTABLE

NEXRISE AAC BLOCKS can be easily cut, drilled, nailed, milled and grooved to fit individual requirements.





## NEXRISE BOND (BLOCK JOINING ADHESIVE)

NEXRISE BOND is a thin bed, high strength, pre-mixed, quality assured mortar comprising of Portland cement, specially graded sand and admixture. It is specially formulated and easily applied, giving a higher bonding with significantly higher air entraining properties.

NEXRISE BOND used for laying bricks, block & stone. It replaces conventional jointing mortar for 12-18 mm thickness with highly versatile 3 mm thickness mortar.

## NEXRISE PLAST (READYMIX SAND PLASTER)

NEXRISE PLAST ready-mix sand plaster is strong pre-mixed powder & render with high quality polymer additives, suitable for plastering all types of concrete surfaces (old and new), Autoclaved Aerated Concrete (AAC) Blocks, Cement Blocks & Conventional Clay Bricks.

NEXRISE PLAST is normally applied to masonry interiors and exterior to achieve a smooth and leveled surface. It contains processed and fine graded sand which gives superior quality of plaster.



## NEXRISE PUTTY (WHITE CEMENT BASED WALLPUTTY)

NEXRISE PUTTY is a white cement based wallputty specially formulated to provide finishing coat to cover the unevenness & pinholes in the concrete / cement plastered walls and ceilings.

NEXRISE PUTTY provides an exceptional smooth finish for further application of all kinds of paints as compared to any ordinary putty due to its white cement constitution. Additionally, White Cement constitution gives better compatibility, adhesive-strength and a long-life to NEXRISE PUTTY.



## BLOCKS



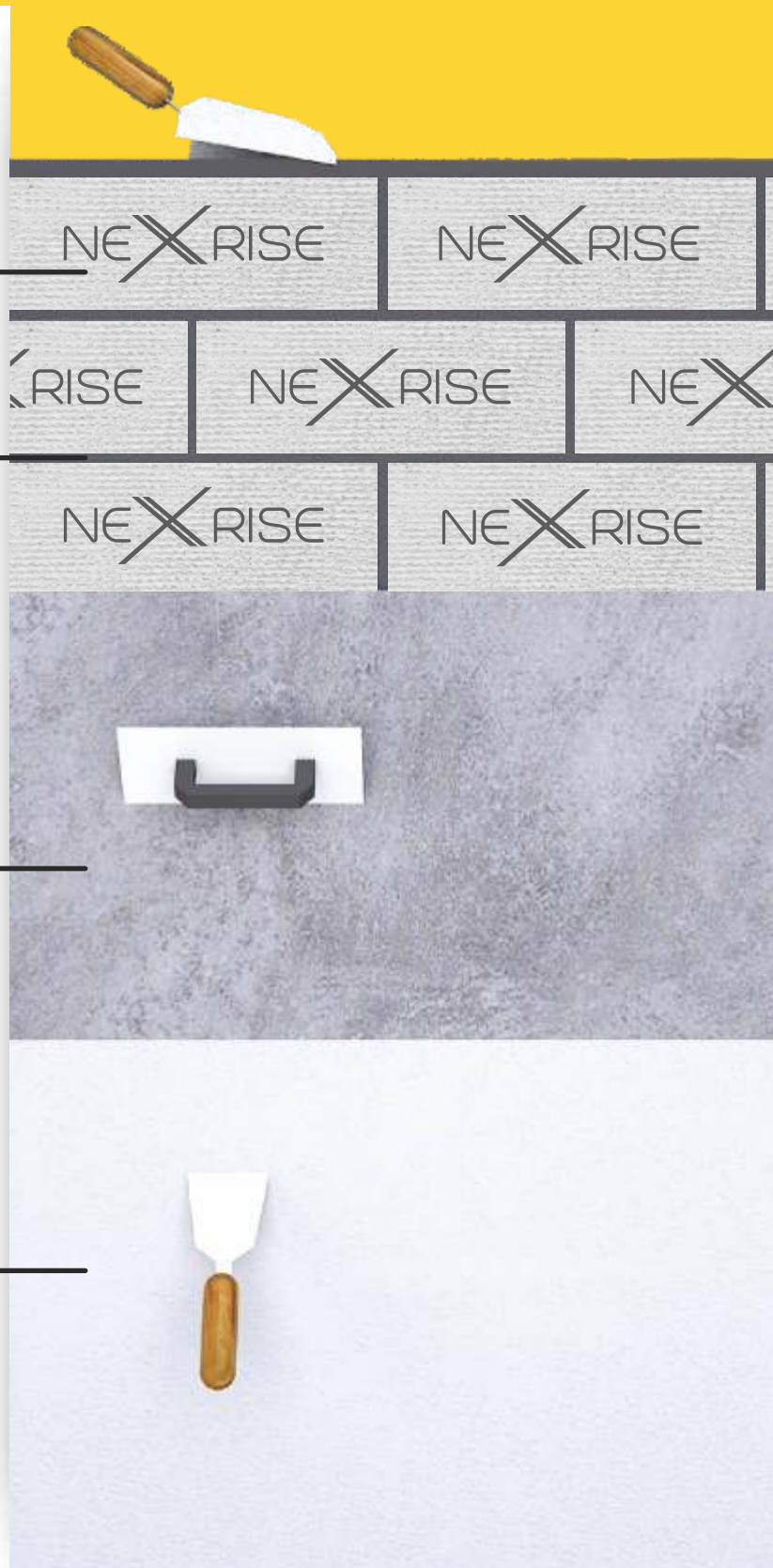
## BOND



## PLAST



## PUTTY



**NOTE :**

Since it is not possible to give specific instructions for various site conditions or to control the applications, the information on this brochure or on the relevant product data sheet is for general guidance only and the company reserves the right to modify the information detailed in the same, at any point of time without any notice.

Details given in the brochure are approximate and are even for general guidance only. It is assumed that all standard civil engineering practices shall be adopted for application of any NEXRISE product. In case of further clarification about any NEXRISE product, kindly contact us before use.



## MASUVIC INDSUP PVT. LTD.

An ISO 9001:2015 Certified Company

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