

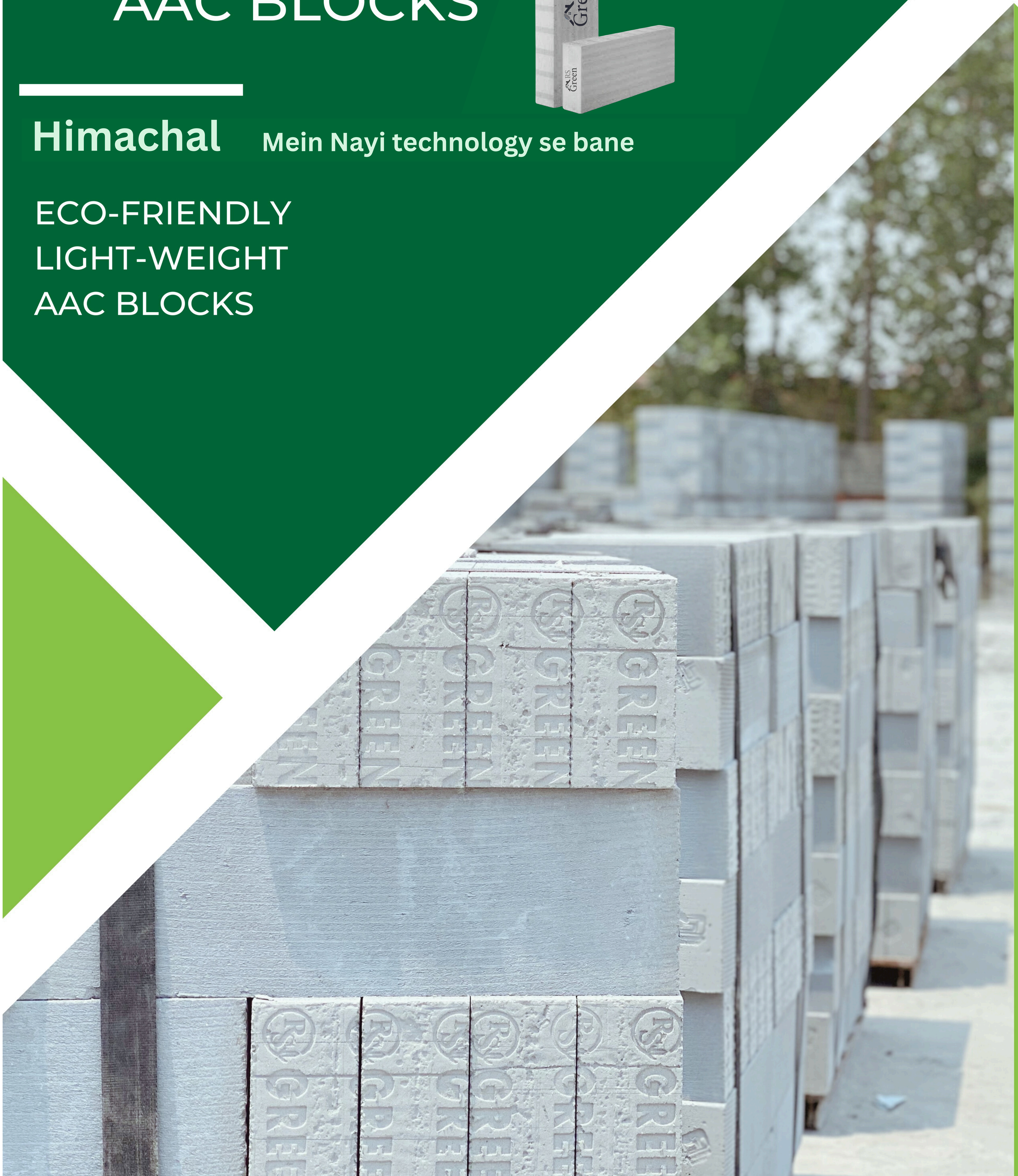
# R S GREEN

## AAC BLOCKS



**Himachal** Mein Nayi technology se bane

ECO-FRIENDLY  
LIGHT-WEIGHT  
AAC BLOCKS



Call us:

889-472-9808  
977-900-9087



@rsgreeninfra

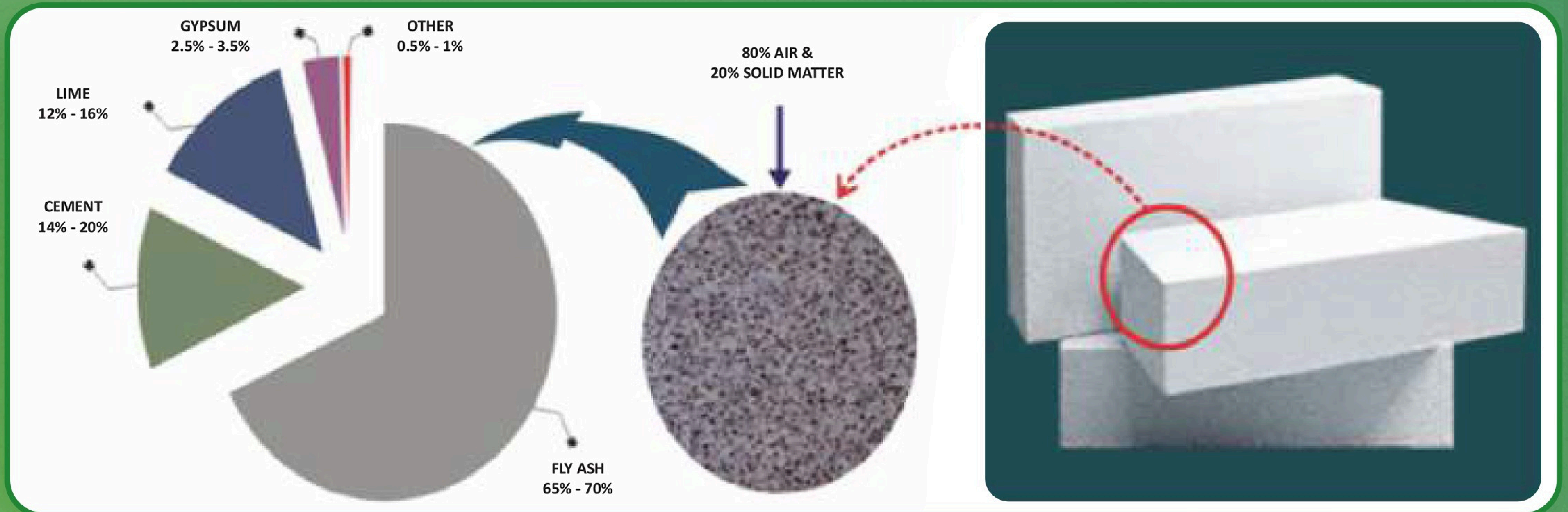


Vill. Beer Plassi, P.O  
Majholi, Teh. Nalagarh (Near  
Aimil Pharmaceuticals)



# INTRODUCTION OF AAC BLOCKS

AAC Blocks was developed by Swedish architect in mid 1920. This technology (Aerang) is caused by a reason of a mix of various material like as Fly ash, Cement, Gypsum, Aluminum and others. AAC Blocks consist of 70-80% air processed through autoclaving which entail high pressurized curing (10-12 hrs) of aerated materials formed in cellular shapes, which are known as AAC Blocks (Autoclave Aerated Concrete Blocks).



## ABOUT US

RS Green AAC Blocks are manufactured with state of art technology in automac plant as per Indian standards IS:2185 (Part-3)-1984 with all modern facilities. It is a eco friendly, lightweight, high strength and a substitute of traditional Bricks made of natural raw materials for the benefit of society and the Earth.

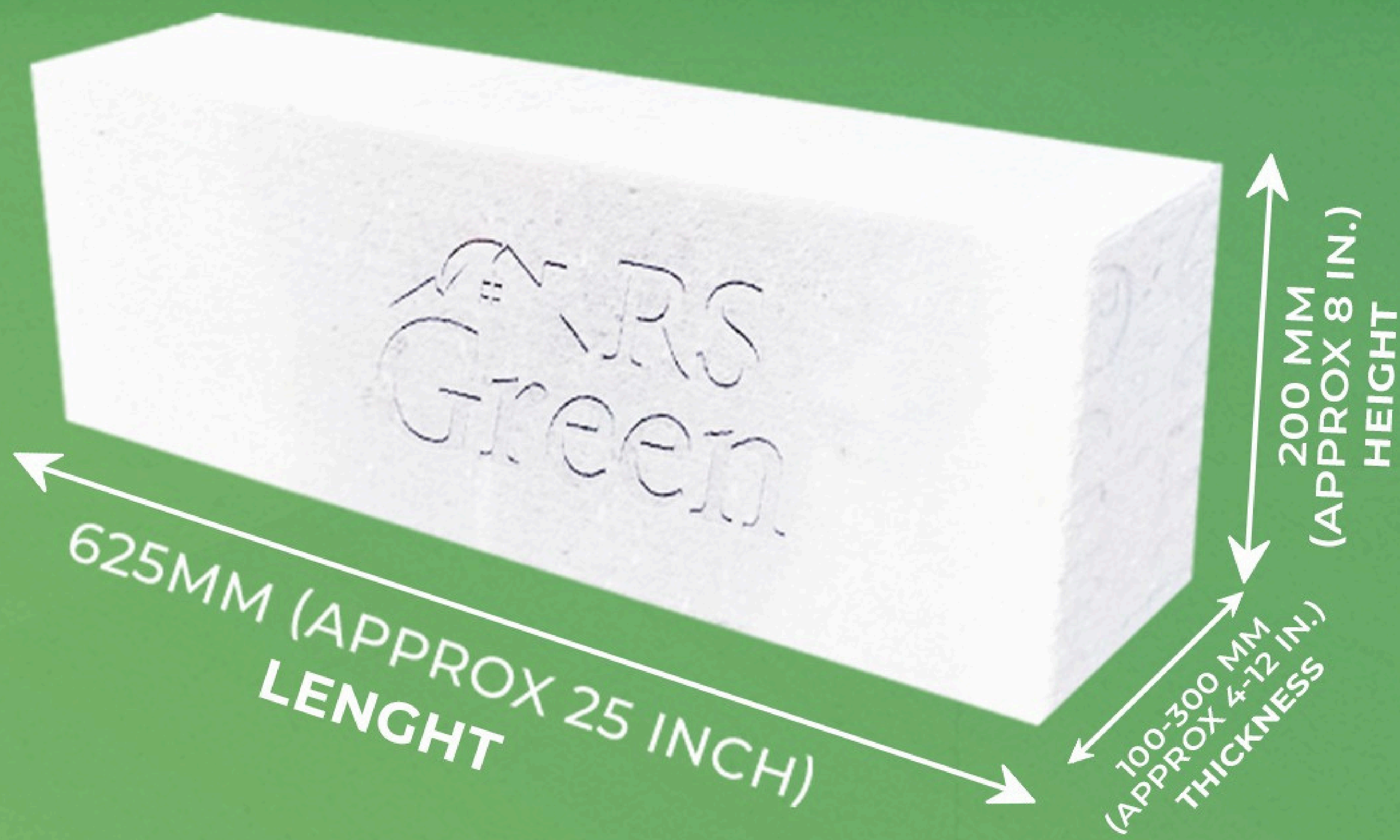
RS Greens AAC Blocks are used in a wide range of commercial, residential and industrial buildings as a different applications such as external, internal walls and roofs. The facility is located at Near Krishan Pipe Limited, Khasra No 25-26, Beerplasi, Manjholi, Nalagarh, Solan, Himachal Pradesh, 174101, easy connectivity to deliver material in Pan north India mainly Himachal Pradesh, Utrakhand, Punjab, Chandigarh Haryana, J&K and U.P.





AAC BLOCKS TECHNICAL SPECIFICATIONS  
( AS PER IS:2185 PART -3 )

SL. NO.	Parameters	Unit	Value
01.	Desnity ( Oven Dry )	kg/m2	551-650
02.	Compressive Strength	( MPa )	>4N/mm2
03.	Shear Strength		0.6
04.	Modulus of Elasticity	Mps	2040
05.	Water Absorption (at Equilibrium)	kg/m2 X h 0.5	4-6
06.	Thermal Conductivity	w/mk	0.16
07.	Thermal Resistance ® Value)	k/w	0.46m
08.	Drying Shrinkage	mm/m	max 0.20 ( 0.04% )
09.	Fire Resistance	Hrs	4 ( for 200 mm wall )
10.	Sound Transmission Class Ratin	db	44

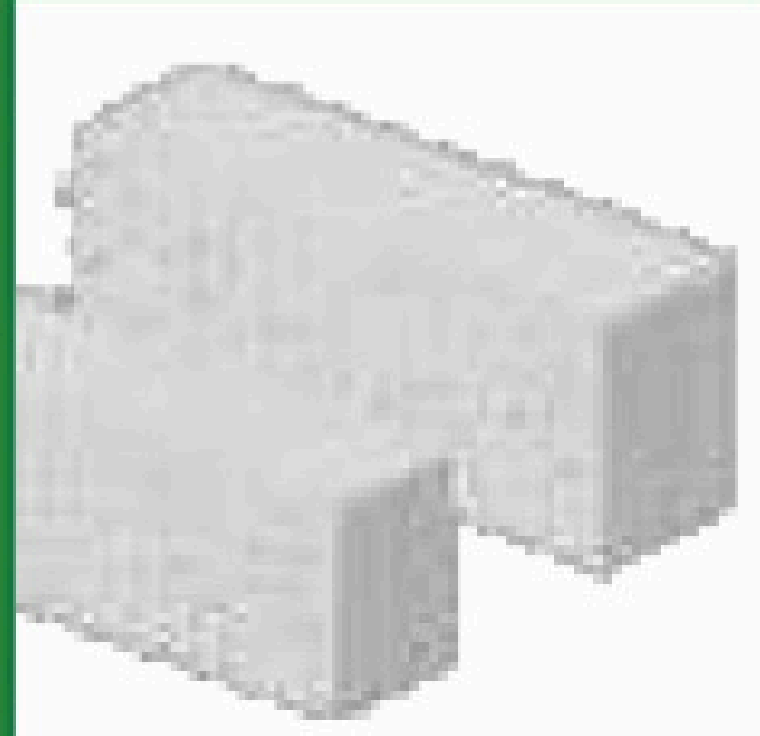

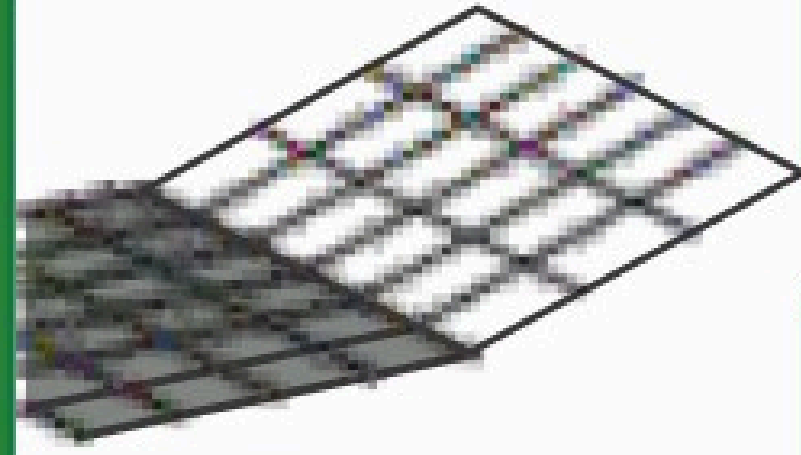


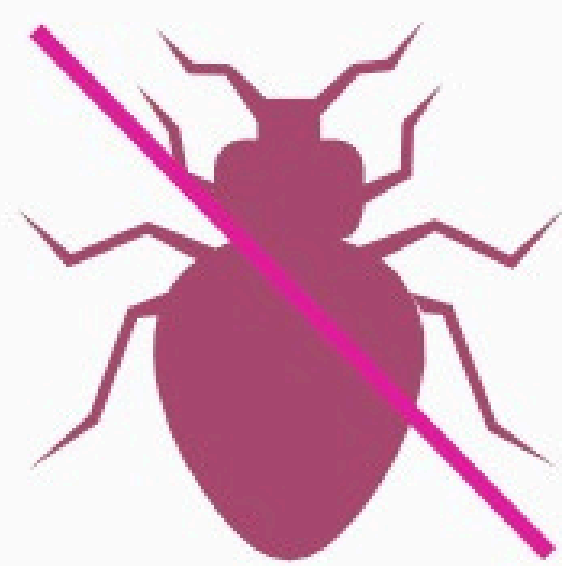

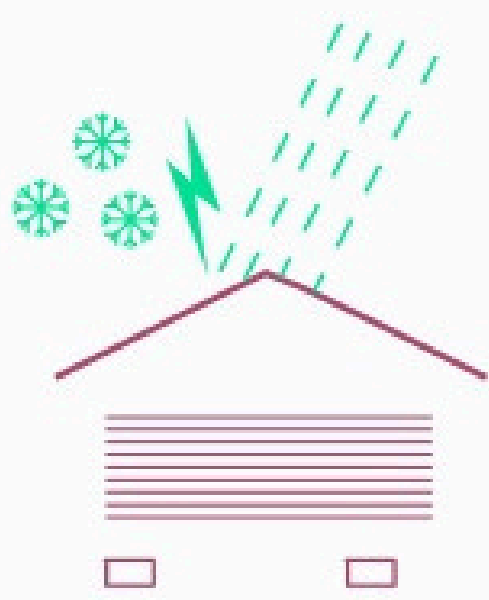

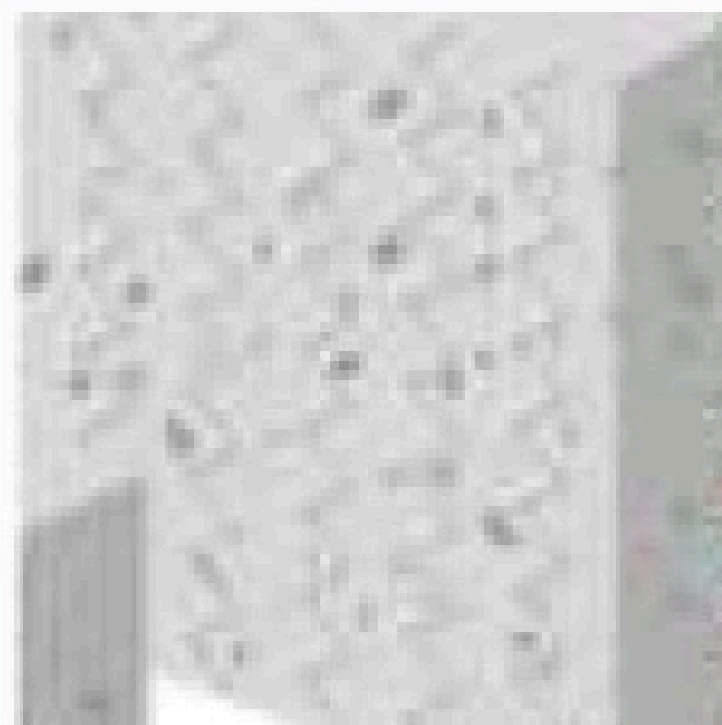



SIZES & COVERAGE

SL. NO.	Dimension of AAC Blocks ( L X H X B )	No. Pieces In One Cubic Meter	Wall Area Cover Per Cubic Meter (In Foot Approx )
01.	625 x 200 x 100	80.00	110.40
02.	625 x 200 x 125	64.00	88.32
03.	625 x 200 x 150	53.33	73.60
04.	625 x 200 x 200	40.00	55.20
05.	625 x 200 x 230	34.78	48.00
06.	625 x 200 x 250	32.00	44.16
07.	625 x 200 x 300	26.77	36.80



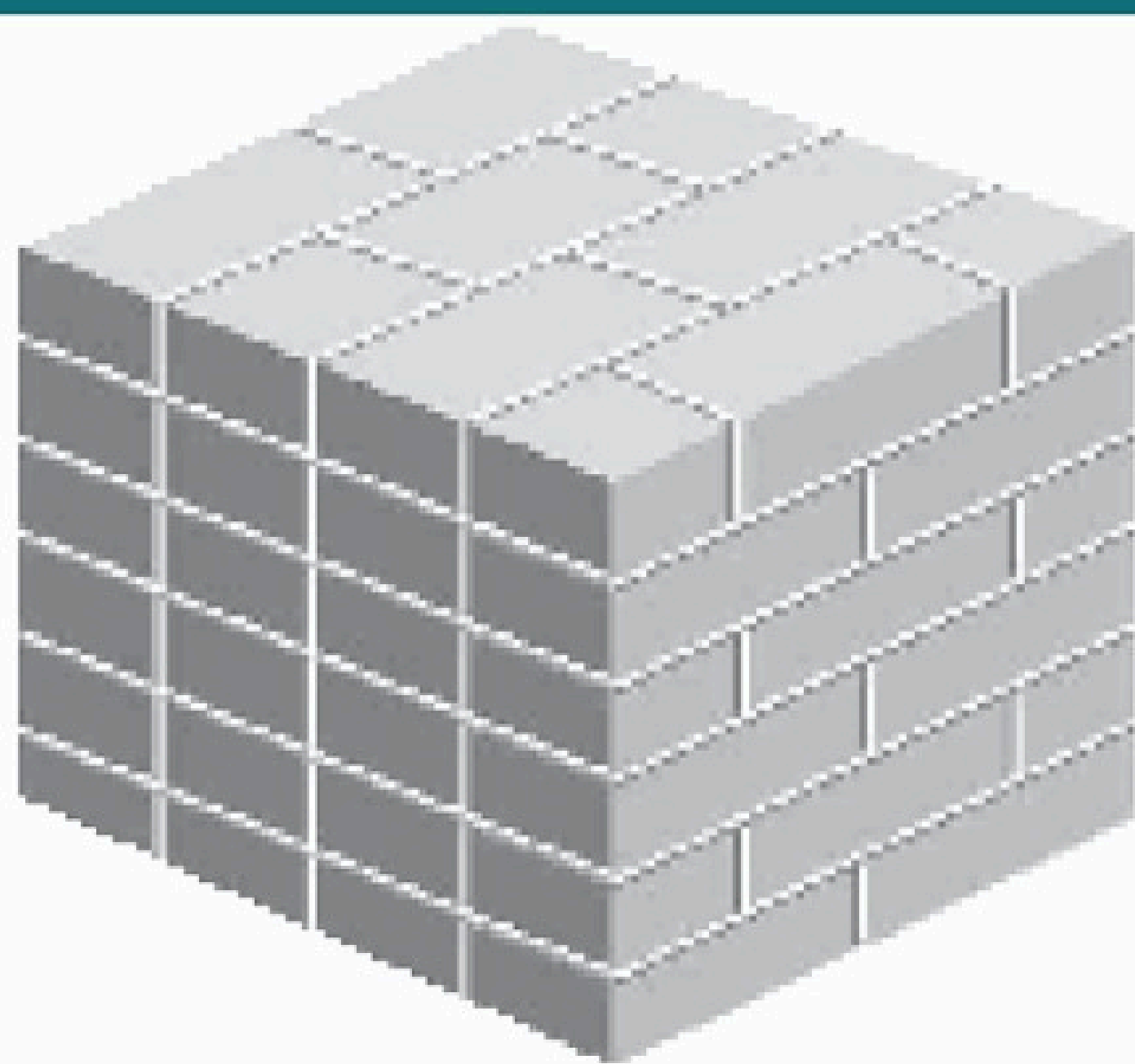
# RS GREENS AAC BLOCKS

Features		Advantages	Benefits
	Bigger in size	<ul style="list-style-type: none"><li>• Reduces Mortar requirement by over 66%</li><li>• Decreases lead time as well as installation time</li></ul>	<ul style="list-style-type: none"><li>• Reduces cost of construction of wall</li></ul>
	Lightweight	<ul style="list-style-type: none"><li>• Leads to lighter dead load on the building structure</li><li>• Easy application</li></ul>	<ul style="list-style-type: none"><li>• Reduces requirement for steel &amp; cement</li><li>• Facilitates ease of work to the mason &amp; increases productivity of the labour</li></ul>
	Dimensional size accuracy	<ul style="list-style-type: none"><li>• Need for plaster is reduced</li><li>• Reduces the time spent on levelling of blocks</li></ul>	<ul style="list-style-type: none"><li>• Results in cost and time savings</li></ul>
	Thermal insulation	<ul style="list-style-type: none"><li>• Maintains the internal temperature of room for longer period</li></ul>	<ul style="list-style-type: none"><li>• Saves electricity costs</li></ul>
	Fire Resistant	<ul style="list-style-type: none"><li>• It provides fire safety to the building as the material is fire resistant and has low thermal conductivity ( Refer: Fire Test Report )temperature of room for</li></ul>	<ul style="list-style-type: none"><li>• Reduces the spread of fire by 2 to 6 hours depending on the thickness of the wall</li></ul>
	Made of inorganic materials	<ul style="list-style-type: none"><li>• Pest resistant</li></ul>	<ul style="list-style-type: none"><li>• Avoids damages and losses to furniture, paint surface etc.</li></ul>
	Sound insulation	<ul style="list-style-type: none"><li>• Has a commendable Sound Transmission Class rating</li></ul>	<ul style="list-style-type: none"><li>• Maintains privacy</li></ul>
	Autoclaved	<ul style="list-style-type: none"><li>• Blocks are pre cured and do not require any further water curing to gain compressive strength</li></ul>	<ul style="list-style-type: none"><li>• Results in savings of water at site</li></ul>
	Better compressive strength	<ul style="list-style-type: none"><li>• Our blocks have required compressive strength as per mentioned in Indian Standard</li></ul>	<ul style="list-style-type: none"><li>• Stronger walls assured</li></ul>
	Rough surface	<ul style="list-style-type: none"><li>• Provide better adhesion in plastering mortar etc.</li></ul>	<ul style="list-style-type: none"><li>• Reduction in rebound loss and better strength and durability of plastered wall</li></ul>
	Technical assistance	<ul style="list-style-type: none"><li>• Our technical representatives provide you with services like sampling of products, doing site audits and are available for technical assistance</li></ul>	<ul style="list-style-type: none"><li>• Higher construction efficiency</li></ul>



# AAC BLOCKS MASONRY GUIDELINES AS PER IS 6041 (1985)

## Stacking



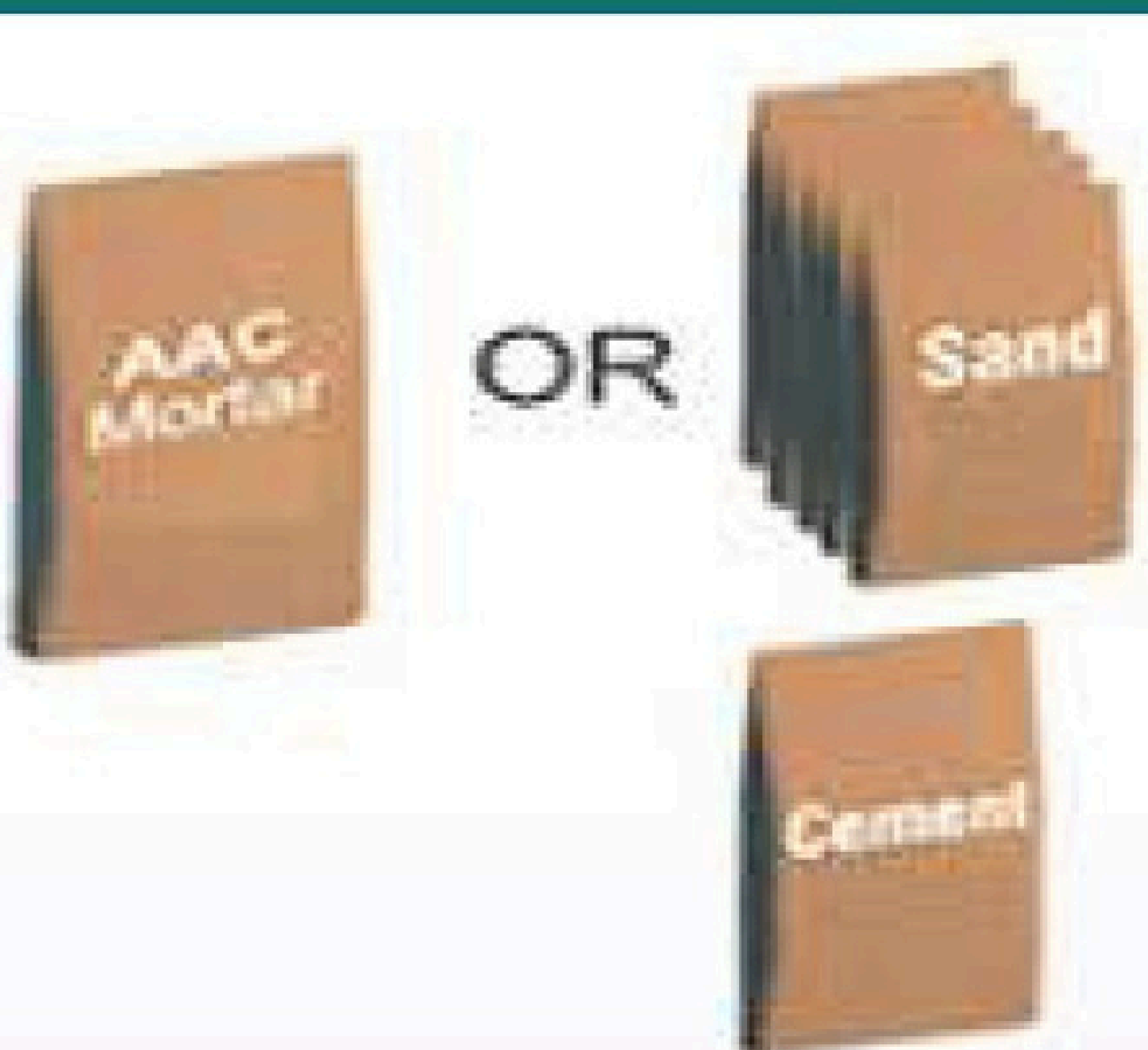
On dry and even surface to avoid contact with moisture

## Cutting of Blocks



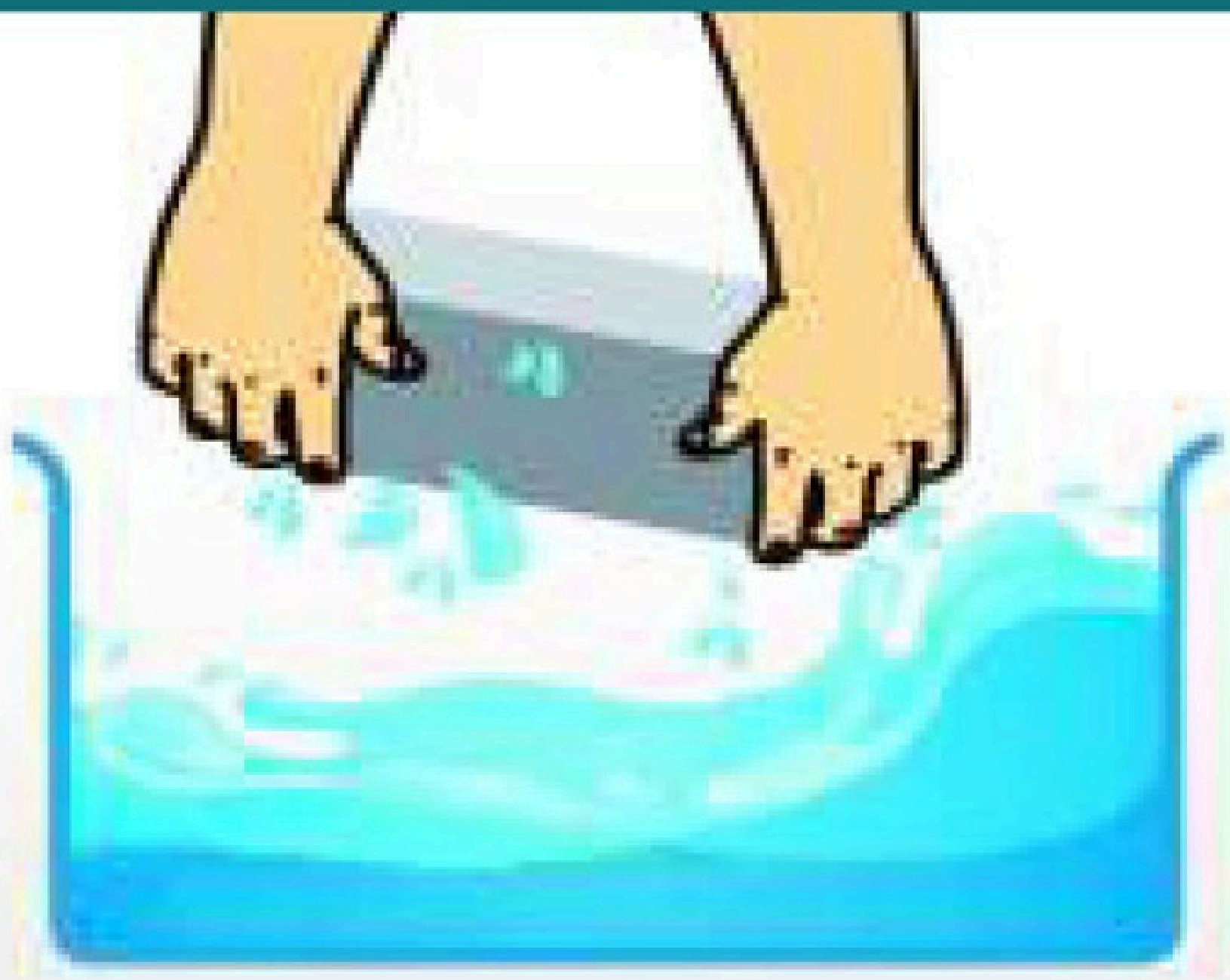
Use tools like handsaw or rotary cutter

## Mortar For Masonry



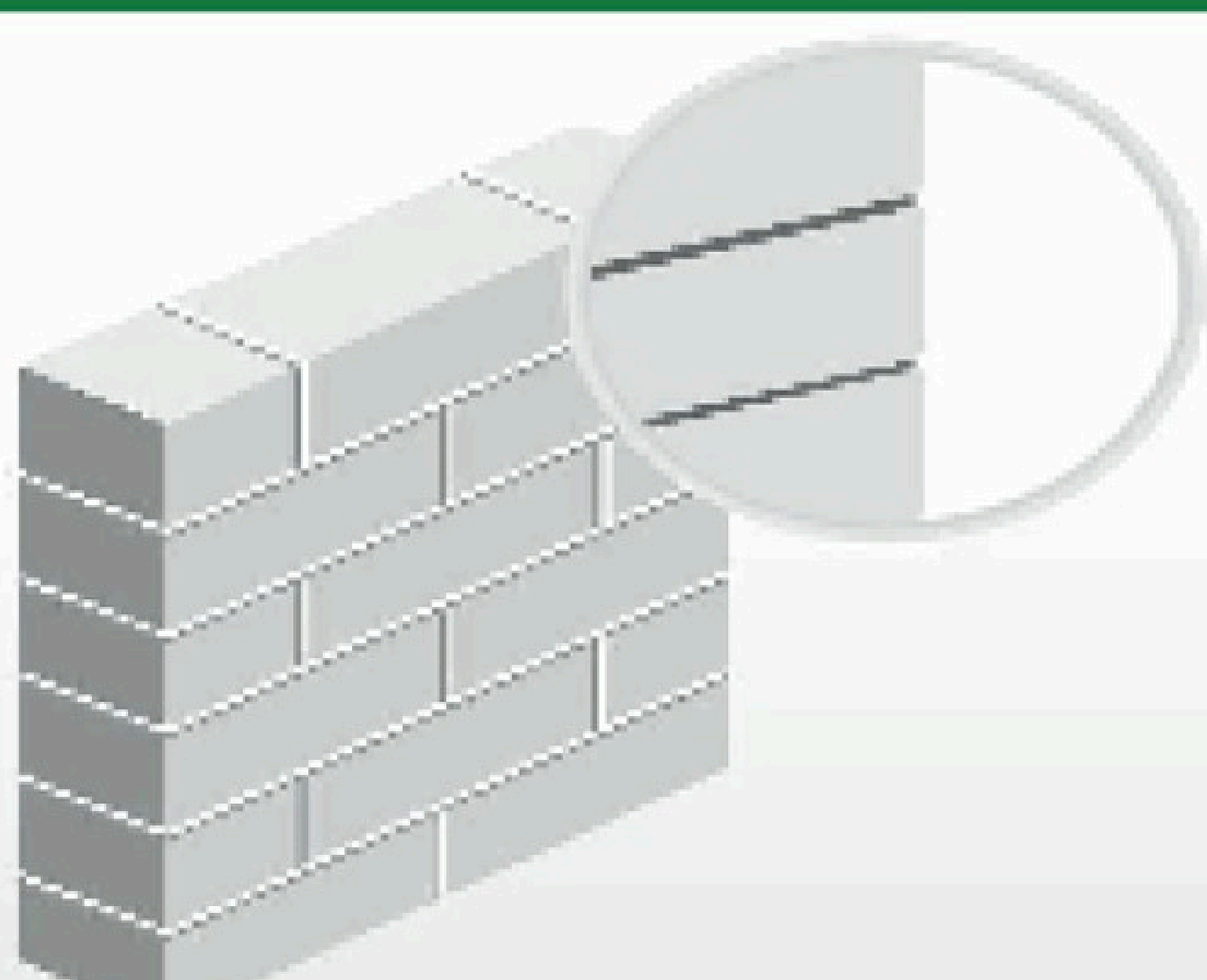
Use AAC Mortar or cement sand (1:6)

## Wetting of Blocks Before Application



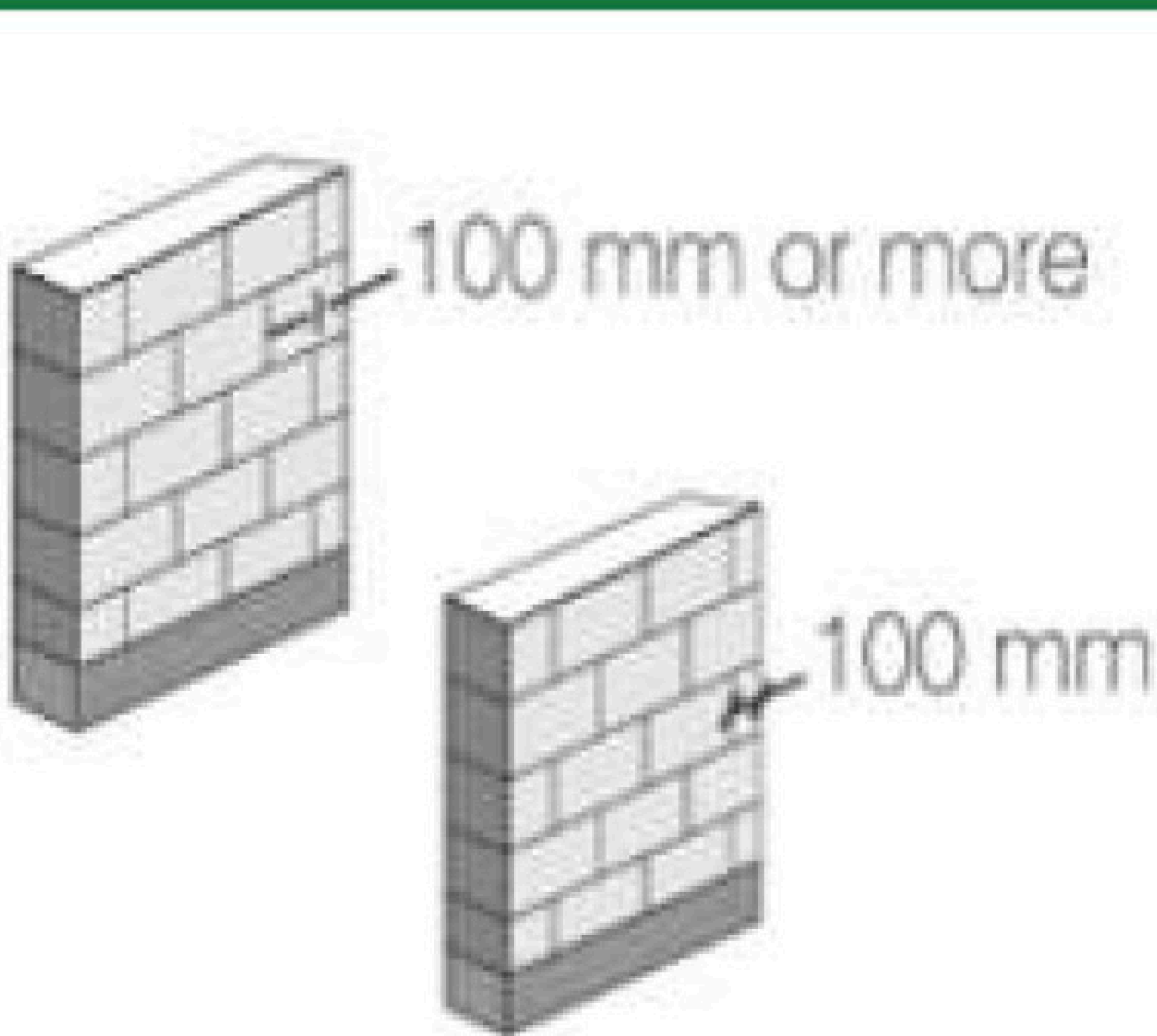
Dip in water & lift immediately

## Mortar Thickness

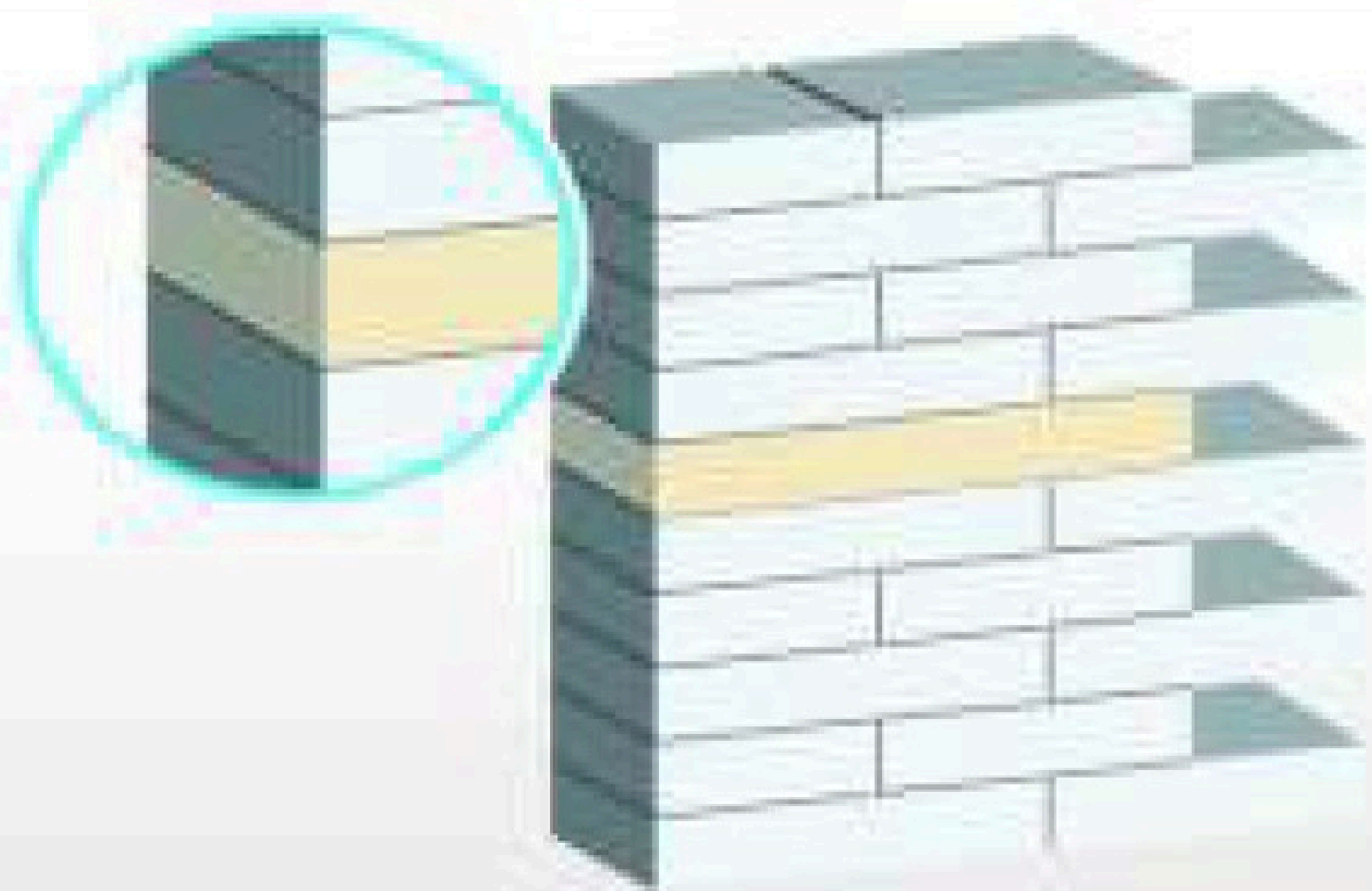


AAC Mortar Thickness 3-4mm, Cement & Sand Thickness 10-12mm

## Bond Pattern

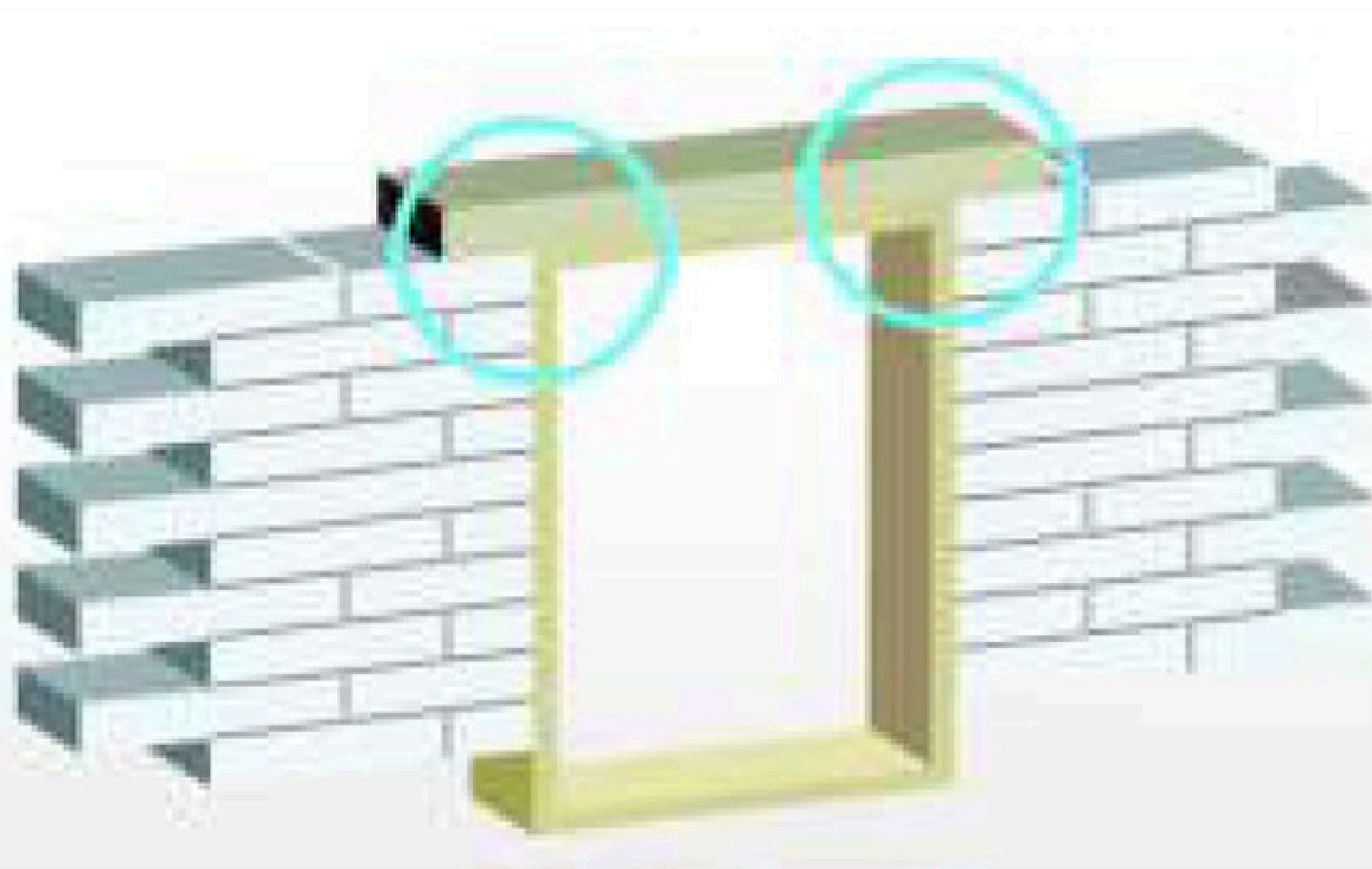


## Coping Beam



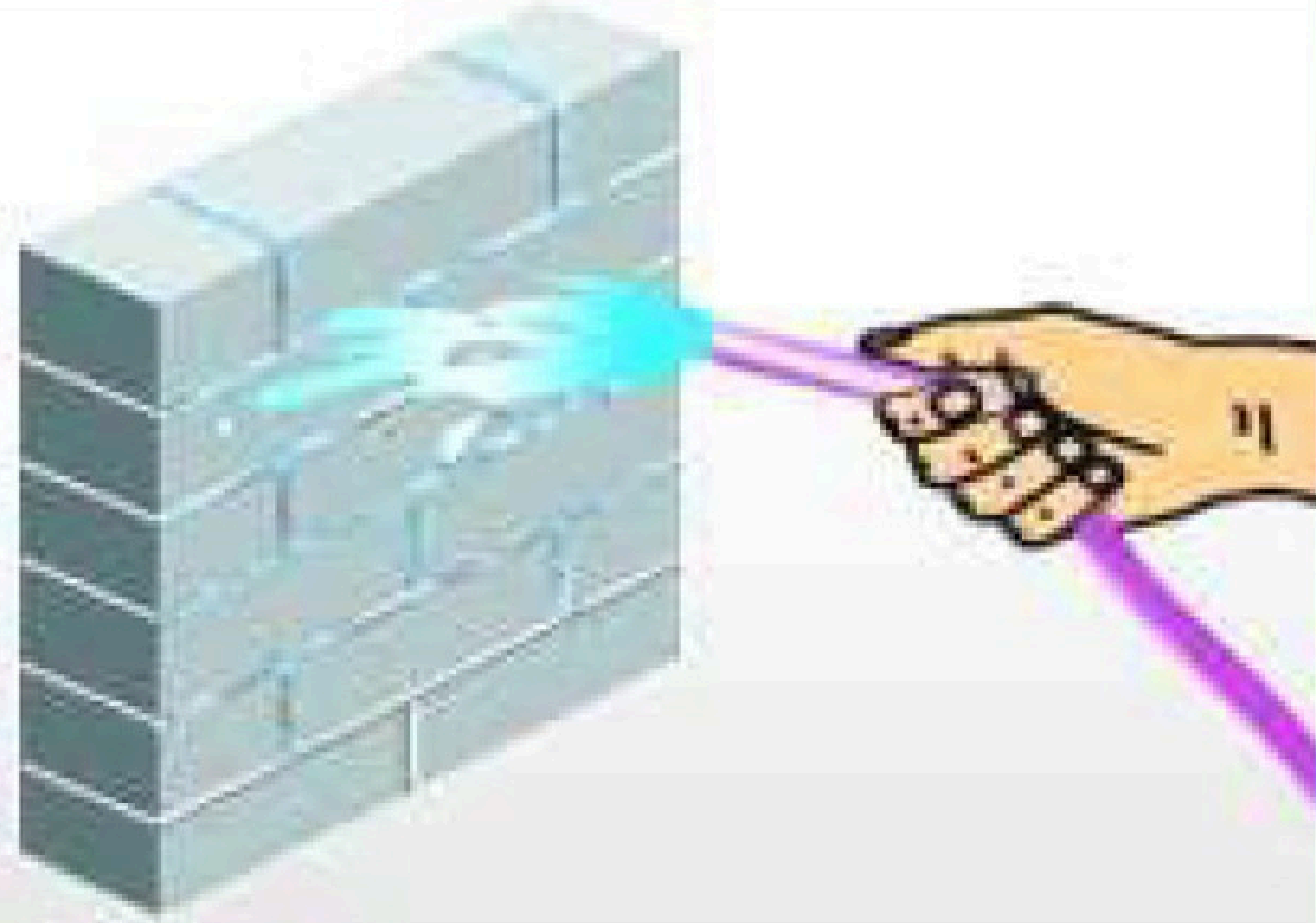
Coping beam with 6mm/8mm reinforcement after every 1.2m height

## Lintel Support



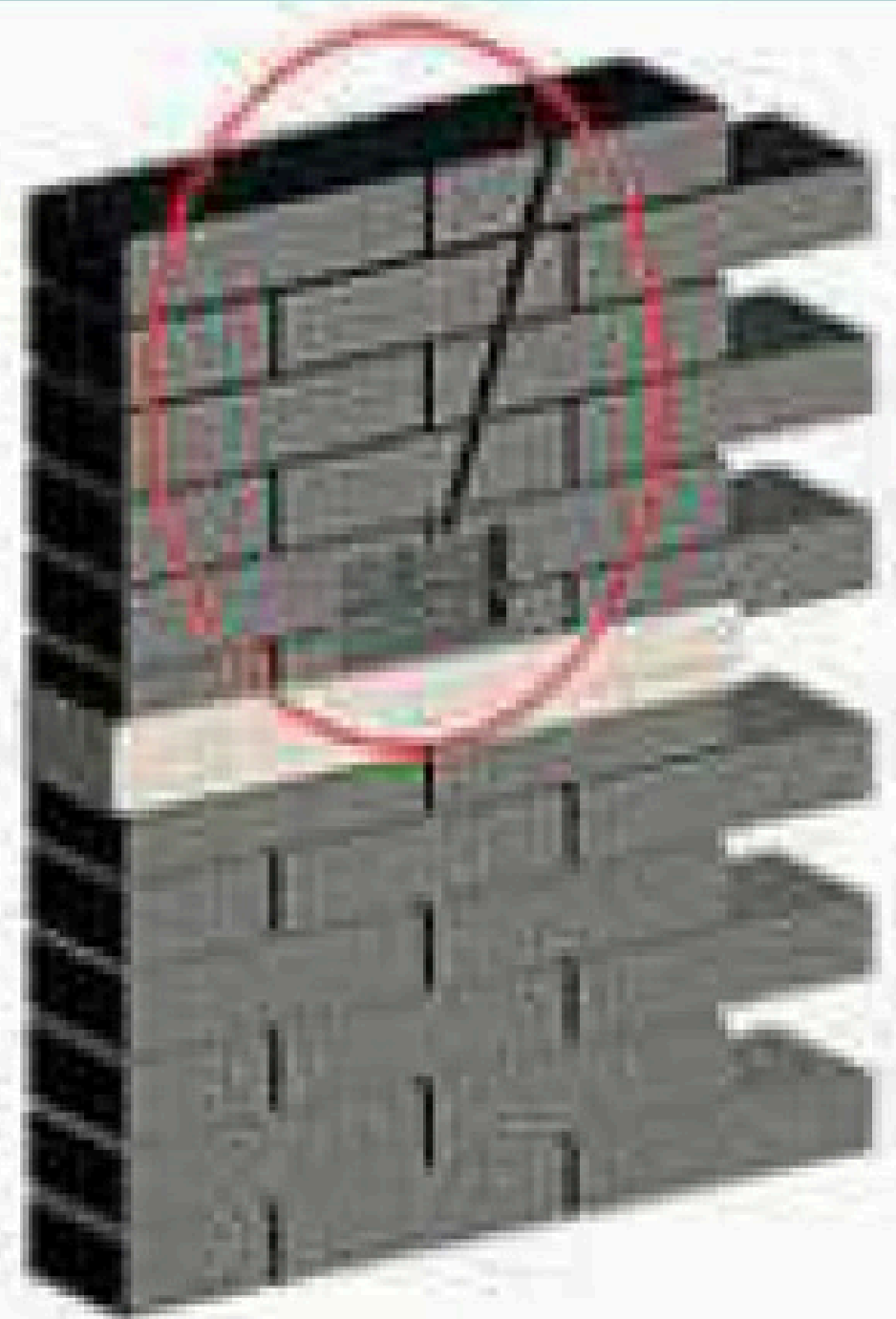
Lintel support on full block

## Curing



Curing required only for Mortar (Cement + Sand) joints

## Electric & Sanitary Chases



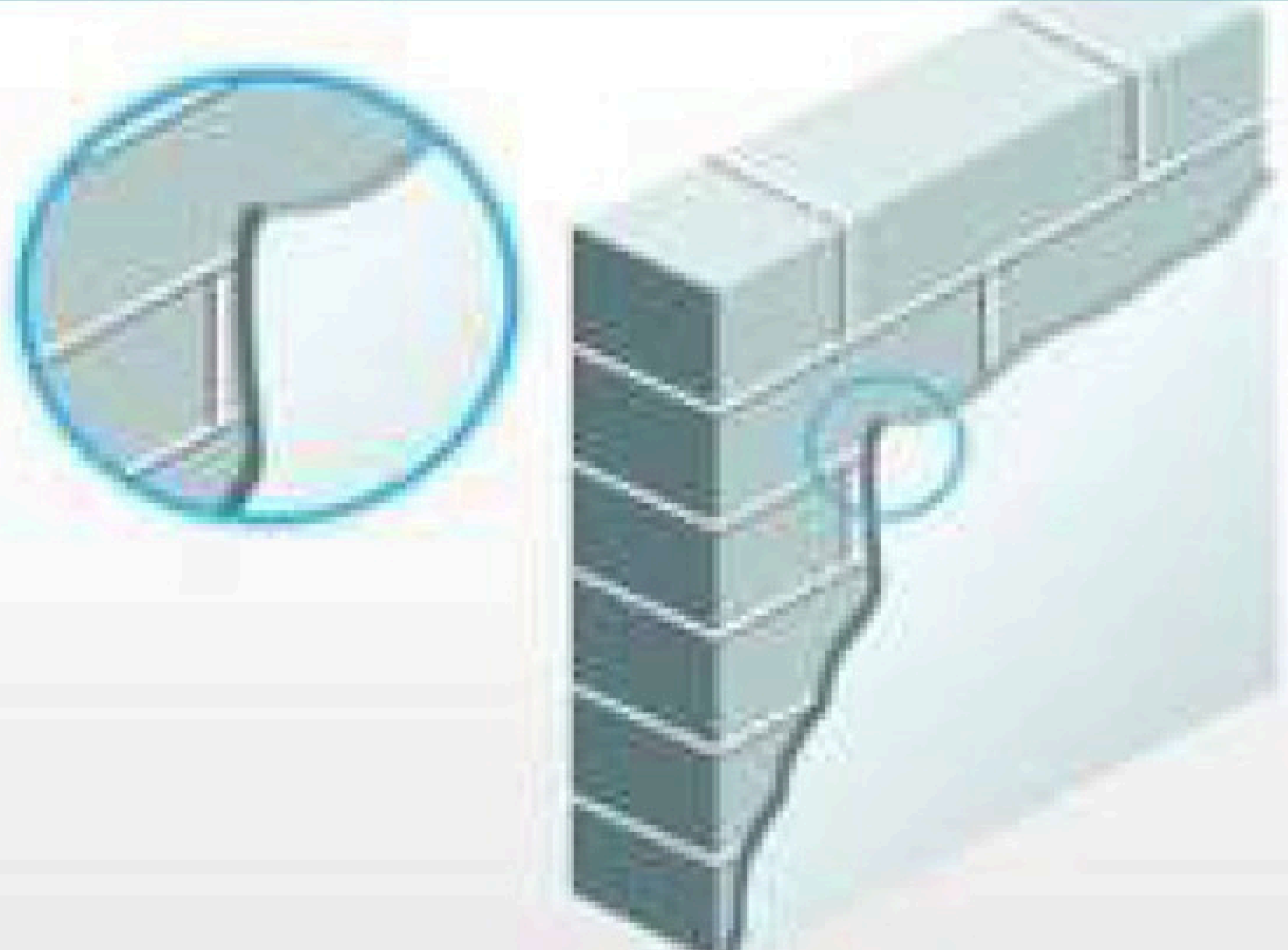
Chases to be grooved before plaster on wall

## Beam & Column Junctions



Wire mesh & chemical grout to be provided, if required

## Plaster



Minimum external plaster



# RS GREENS BLOCKFIX

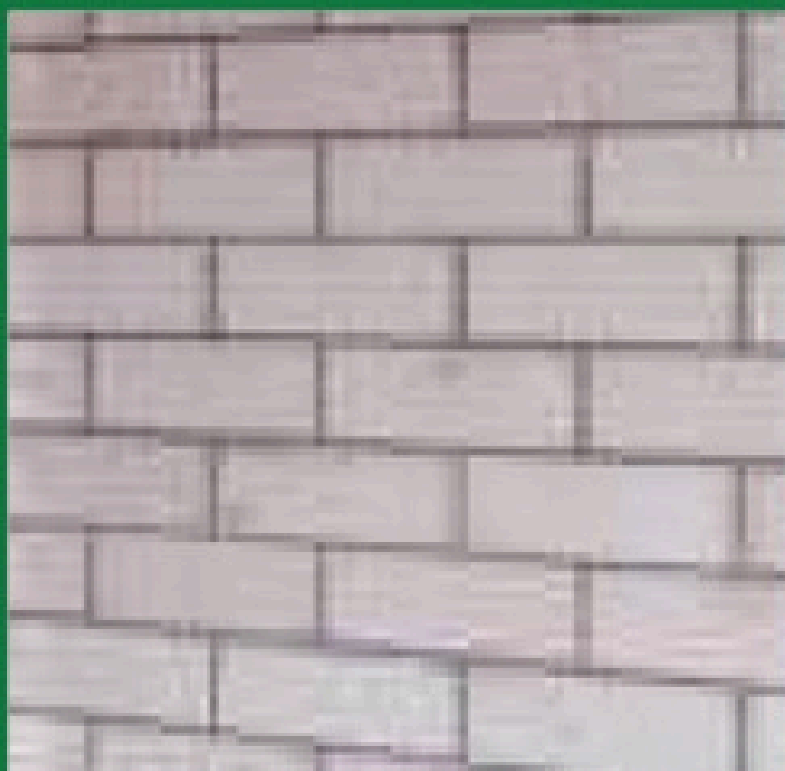



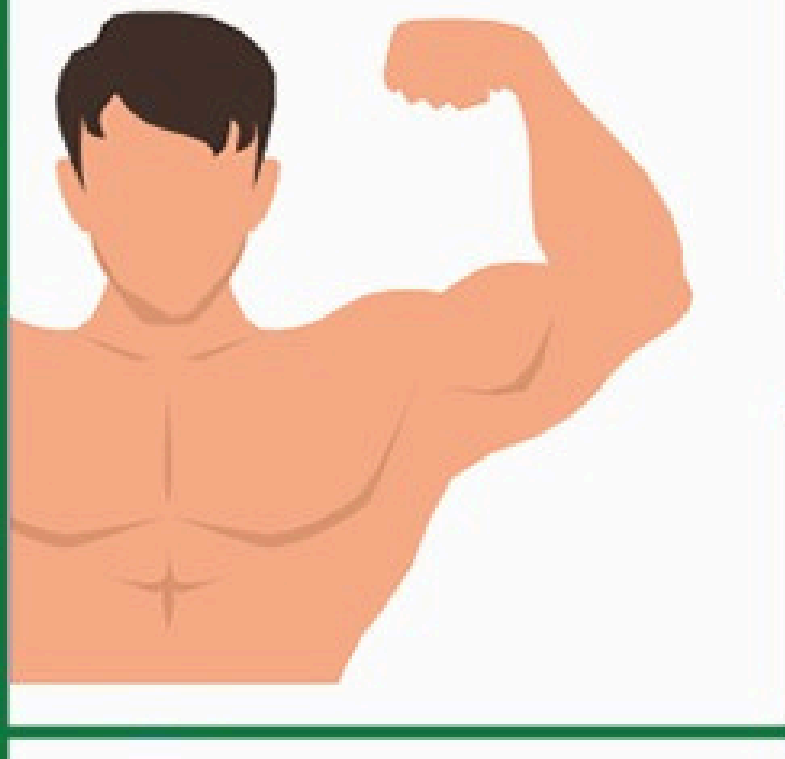
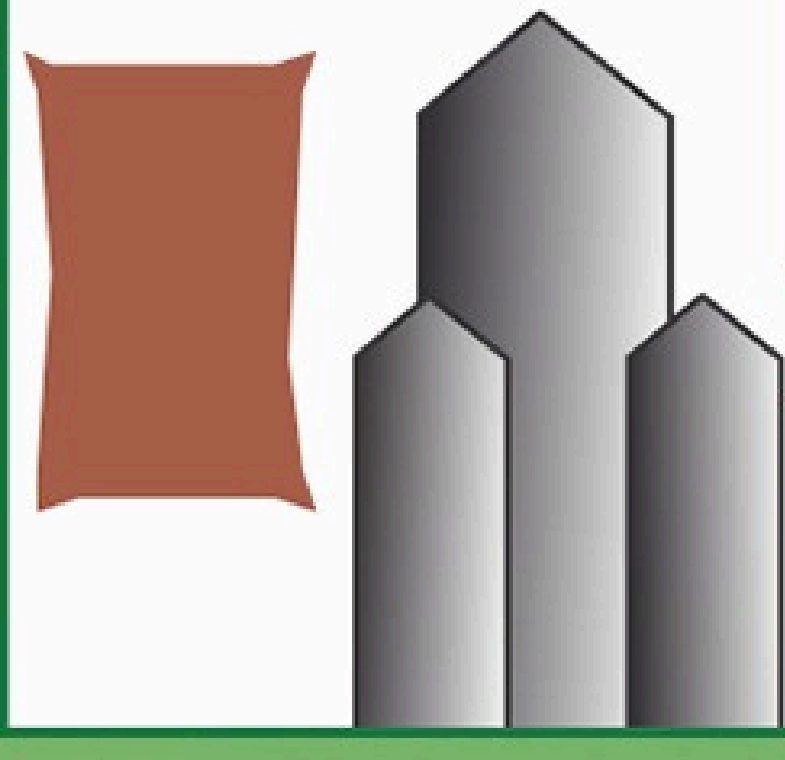
RS Greens BLOCKFIX is a semi premix high quality mortar for jointing and bonding of AAC Blocks, concrete blocks, hollow blocks, clay bricks and fly ash bricks. RS Greens BLOCKFIX semi premix consists of cement, graded sand and specialised polymers RS Greens BLOCKFIX which requires a 3-4mm thickness and having no curing required only addition of water before application to prepare the product for use.



Parameter	Specifications
Appearance	Grey Powder
Pack Size	30 kg
Coverage (3-4mm Thickness)	Approx 110 sq feet (For 4" Thik Wall)
Water Required	30-35 %
Curing	No required
Pot Life	60-75minuts

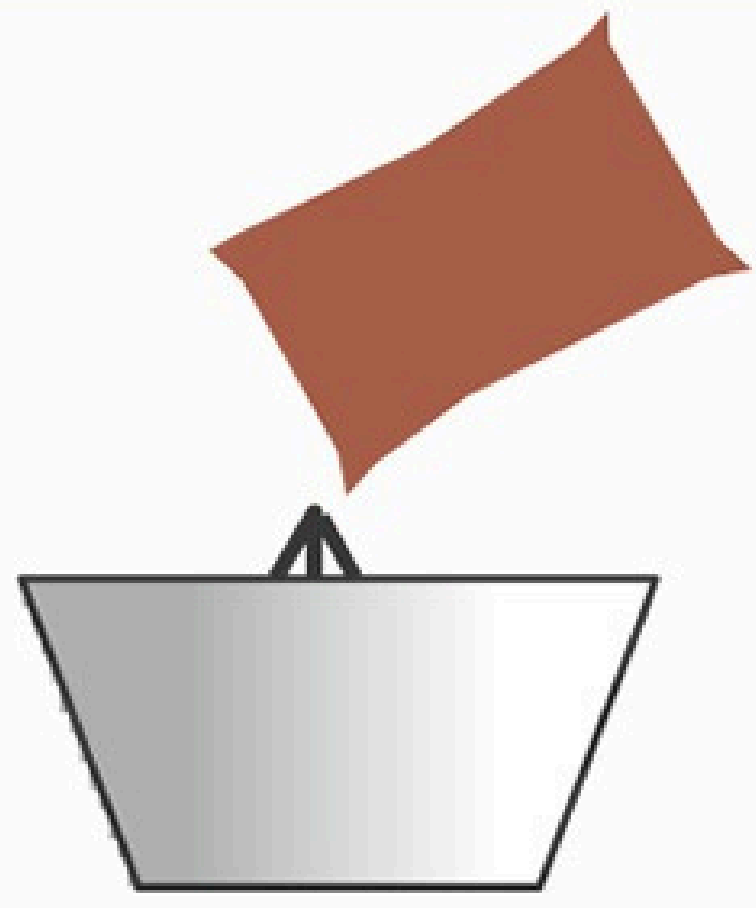




Features		Advantages	Benefits
	Thin joints	<ul style="list-style-type: none"> <li>Reduces overall jointing material requirement</li> <li>Reduces storage requirement</li> <li>Reduced seepage in comparison to conventional method</li> </ul>	<ul style="list-style-type: none"> <li>Cost is reduced</li> <li>Results in savings on site storage space and handling</li> <li>Protects valuable paints on walls</li> </ul>
	Semi-premix	<ul style="list-style-type: none"> <li>Only water needs to be added before application</li> <li>Easy application</li> </ul>	<ul style="list-style-type: none"> <li>No need to procure different materials</li> <li>No need to maintain ratio of entire mix</li> </ul>
	Self-curing properties	<ul style="list-style-type: none"> <li>Water curing is not required after application</li> </ul>	<ul style="list-style-type: none"> <li>Saves water</li> <li>Saves time</li> <li>Save labour cost</li> </ul>
	Slow initial setting mortar	<ul style="list-style-type: none"> <li>More time for block levelling</li> <li>Low initial heat of hydration</li> </ul>	<ul style="list-style-type: none"> <li>Better workmanship is possible</li> </ul>
	Strength designed to suit Fly Ash Blocks (Aerated Autoclaved)	<ul style="list-style-type: none"> <li>Reduces overall material requirement</li> <li>Increased work output</li> </ul>	<ul style="list-style-type: none"> <li>Cost and time savings</li> </ul>
	Higher coverage in comparison to conventional mortar	<ul style="list-style-type: none"> <li>Provides higher Compressive and Tensile Adhesion strength</li> </ul>	<ul style="list-style-type: none"> <li>Avoids damages and losses to furniture, paint surface etc.</li> </ul>

# RS GREENS BLOCKFIX PREPARATION & APPLICATION

Mortar Mixing



In a clean bucket, mix BLOCKFIX in 25-30 % of water.

Mixing by Mixer or Tool



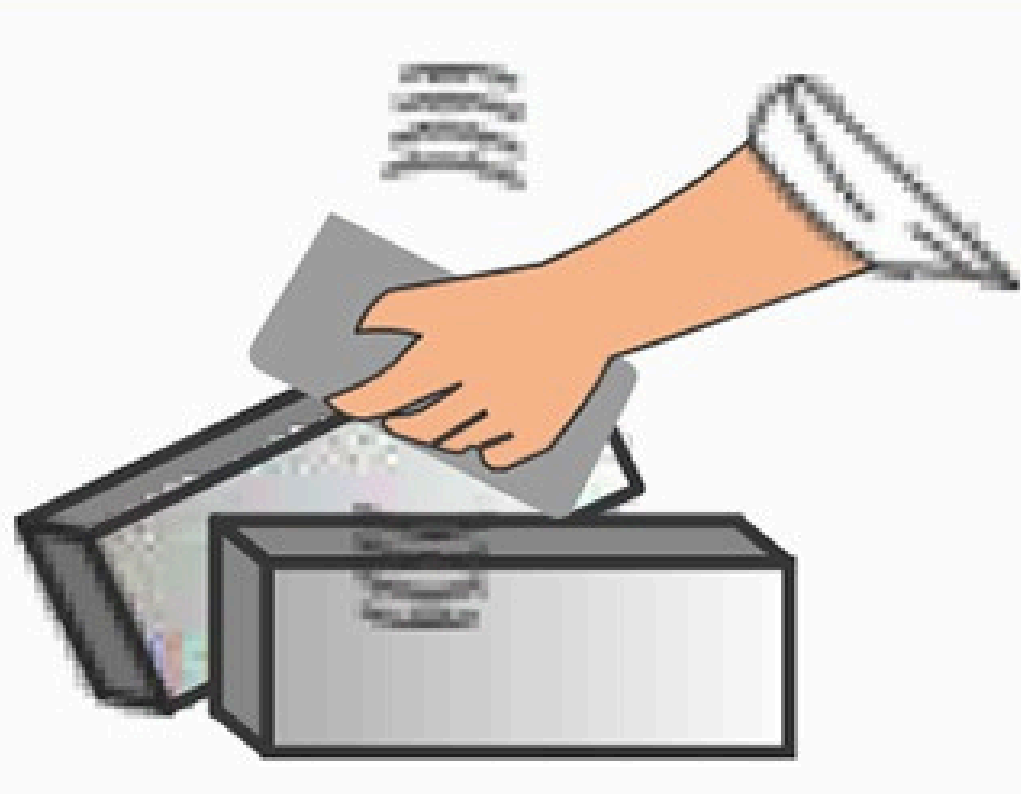
Mix first for 5-10 minutes by electrical mixer or hand tool mix homogeneously

Mortar Remixing




Mix again for 2-3 minutes. Now thin bed mortar is ready to use.

Clean Surface



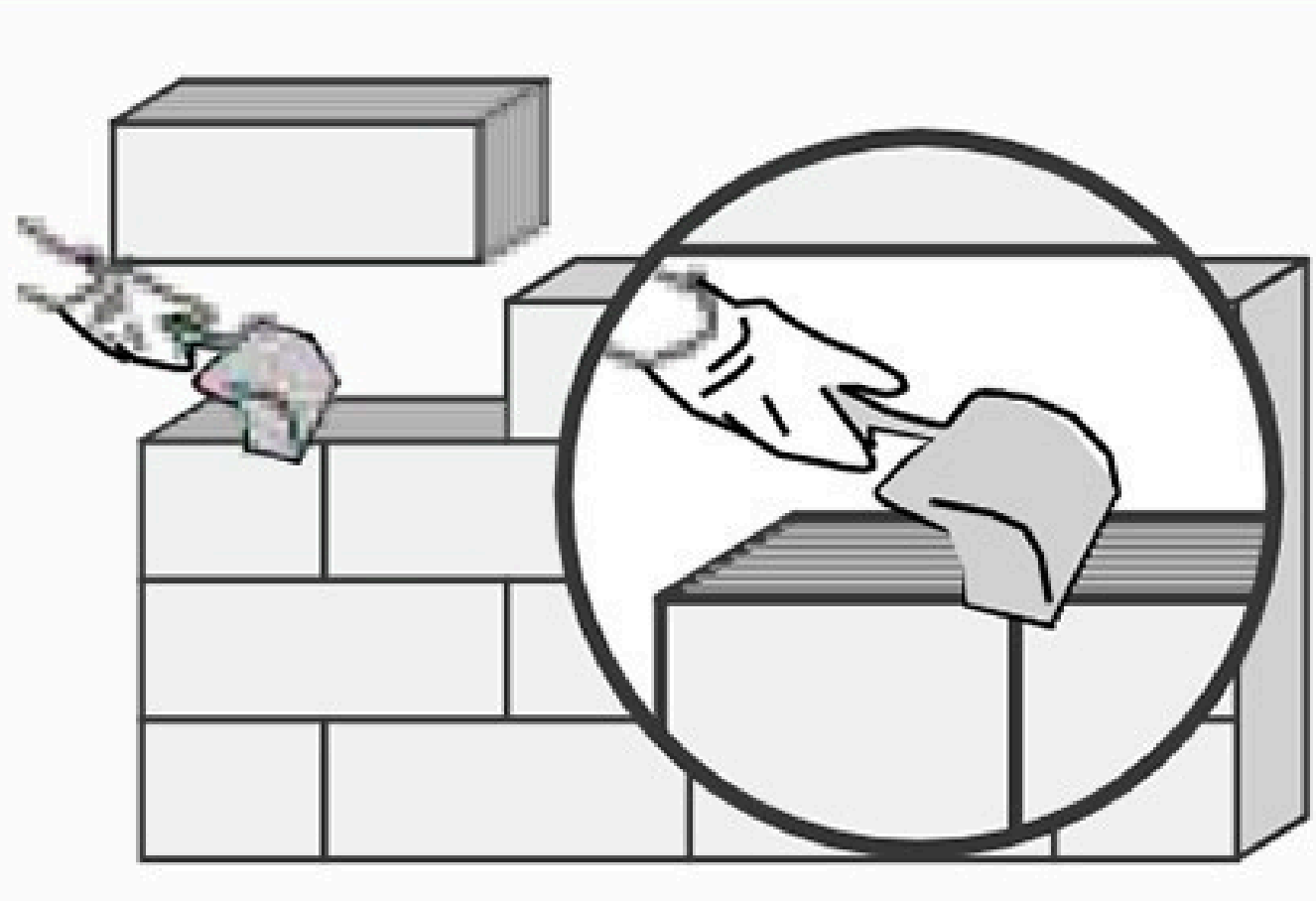
Before application clean the surface of blocks using suitable tools like brush so that any foreign materia is not held on the blocks.

Wet Surface



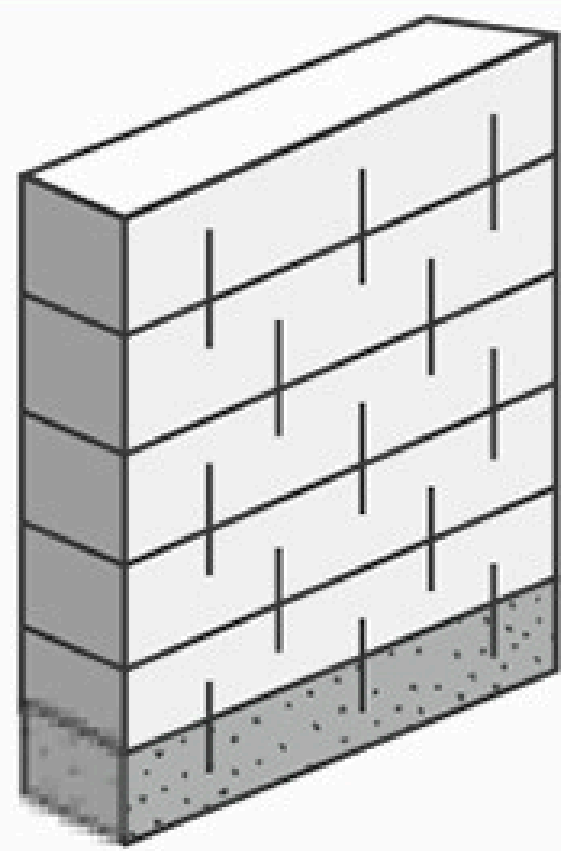
Wet the surface of blocks before applying mortar

Mortar Spread



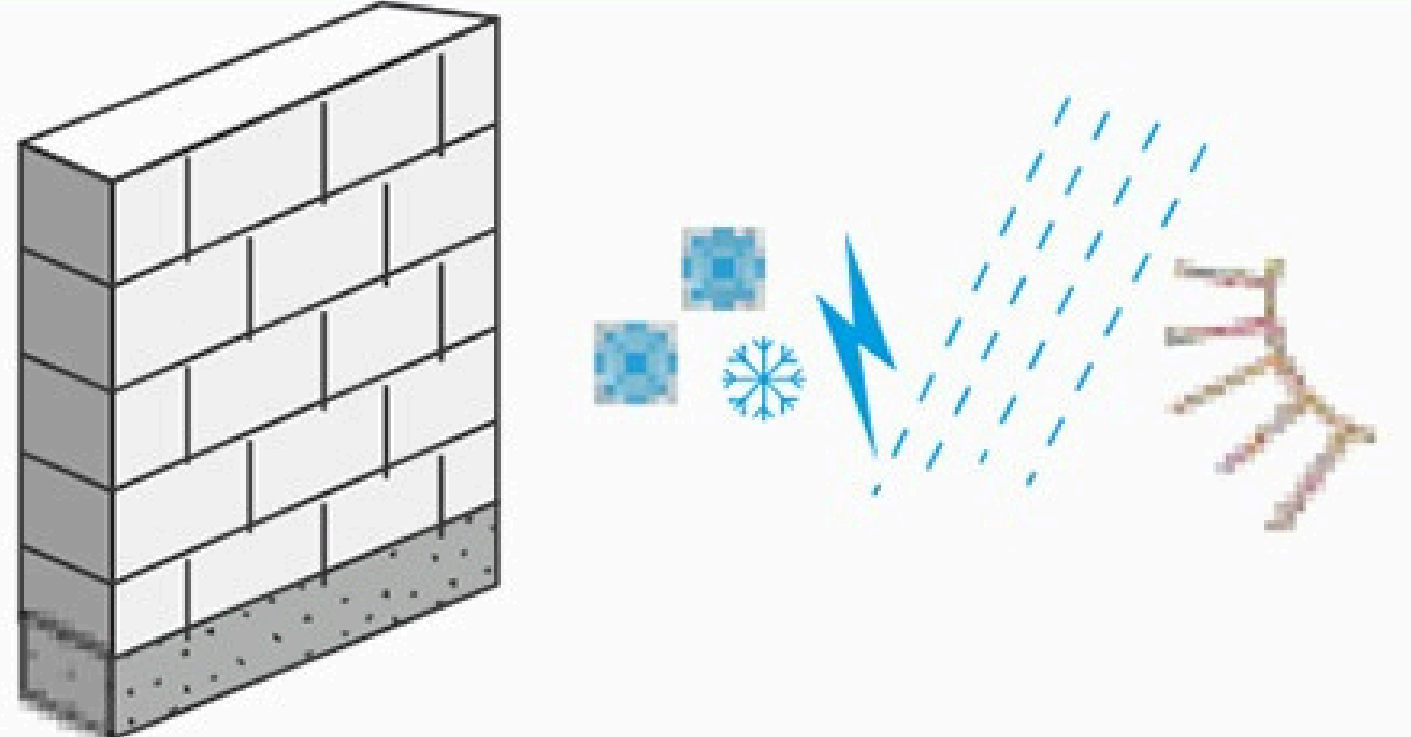
should be spread BLOCKFIX with 3-4 mm thickness

DND



Do not disturb the wall after application of mortar for at least 24 hours.

Setting Time



The setting time is affected by climatic conditions, allow stand-alone time accordingly



# COST ANALYSIS OVER CONVENTIONAL BRICKS\*

PARAMETERS	RS GREENS AAC BLOCKS	CONVENTIONAL BRICKS
Savings in Steel	15-20 % due to lower dead-weight/load	No Saving
Savings in Wastage	2-3% Breakage /bare minimum	Upto 15-18%
Savings in Mortar	60-70% saving Due to bigger size(9 time bigger than clay bricks) ,&Less joints required lesser quantity of mortar/cement	No Saving
Savings in Plaster	60%-70% reduction in the cost of plastering, due to uniforms shape and texture, which gives even surface to the walls.	No Saving
Savings in Labor	25%-35% saving in Labour cost	More Labour required
Savings in Operational Cost	25% saving in Operation cost due to speedy construction	No Saving
Savings in Construction Time	Construction time 2 to 3 times faster. due to bigger size	Slow construction due to small size
Savings in Energy	Approx 30% Air-condition load, both heating and cooling will come down	No Saving
Savings in Carpet Area	More Carpet area is available due to uniform shapes of Blocks and less thickness of walling	Less carpet area available due to un even sizes of bricks & more thickness of walling
Savings in Pre-Cast Element	Block can be cut, nails & drill easily	Easily Not Done
Savings transportation & environment	Easy to transport due to light weight pollution free, normal energy required to produce	Create pollution/smoke use high energy

\* BASED ON GENERAL CALCULATION & IT MAY BE VARY LOCATION WISE/SITWISE



**RS GREENS AAC BLOCKS**



# OUR PROJECTS

AIIMS, BILASPUR

CP 67, HOMELAND GROUP, MOHALI

P.G.I, CHANDIGARH

I.I.T, ROPAR

JLPL, MOHALI82

CHANDIGARH CITY CENTER

GREEN LOTUS, ZIRAKPUR

SUSHMA, ZIRAKPUR

MOTIA GROUP, ZIRAKPUR

JUBILEE JUNCTION, MOHALI

STPI, MOHALI

HERO HOMES, MOHALI

