



Exeed Litecrete

www.exeedlitecrete.ae



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COMPANY INTRODUCTION

Exeed Litecrete is a subsidiary of **Exeed Industries**, the industrial arm of National Holding. **Exeed Industries** is a leading group focused on building materials and industries with operations spread across UAE and the wider MENA region.

Exeed Litecrete was established in 2009, with production commencing in 2010 and has a portfolio of products covering AAC block with a range of densities from 430 to 650 kg/m³ and the newly introduced reinforced AAC products range. The new AAC range includes non-load bearing wall panels ≤3.5 m length x 0.6 m width x 0.100 m thick, ≤3.0 m length x 0.6 m width x 0.075 m thick, ≤5.0 m length x 0.6 m width x 0.150 m thick, ≤5.8 m length x 0.6 m width x 0.200 m thick, and load bearing floor and roof panels ≤5.8 m length x 0.6 m width x 0.15-0.30 m thick, Lintels and U blocks.



Located in
the **Industrial City of
Abu Dhabi (ICAD 2)**



**"Manufacturer of first
choice"** for the production and
supply of Autoclaved Aerated
Concrete (AAC)



We pride ourselves on providing
quality products with the
highest levels of **customer
service**



We invest heavily
in **human resources**



Exeed Litecrete's operations
follow strict **safety
procedures** at all stages of our
activities



We produce AAC under strict
**Quality Assurance &
Quality Control** complying
with International Standard



Regularly **train our valued
employees** on best practices,
innovation techniques, quality
issues and customer service



ISO 9001
certified



Certmark Codemark Certified
(Products meet Australian Standards)



OUR MISSION

**CONSISTENTLY DELIVER OUTSTANDING
SHAREHOLDER RETURNS BY PROVIDING
SUPERIOR PRODUCTS & SOLUTIONS TO
CUSTOMERS**

OUR VISION

TO BE THE MANUFACTURER OF FIRST CHOICE FOR AAC PRODUCTS

PRODUCTS OVERVIEW



AAC BLOCK – E0

Autoclaved Aerated Concrete Blocks with a density of $430 \pm 30 \text{ kg/m}^3$, compressive strength of minimum 3.2 N/mm^2 , and thermal conductivity of $0.110\text{--}0.120 \text{ W/mK}$.



AAC BLOCK – E2

Autoclaved Aerated Concrete Blocks with a density of $500 \pm 20 \text{ kg/m}^3$, compressive strength of minimum 3.2 N/mm^2 , and thermal conductivity of 0.135 W/mK .



AAC BLOCK – E2

Autoclaved Aerated Concrete Blocks with a density of 650 kg/m^3 , compressive strength of minimum 5.5 N/mm^2 , and thermal conductivity of $0.16\text{--}0.17 \text{ W/mK}$.



A4C BLOCK – E4

Autoclaved Aerated Concrete Blocks with a density of 650 kg/m^3 , compressive strength of minimum 5.5 N/mm^2 , and thermal conductivity of $0.16\text{--}0.17 \text{ W/mK}$.



U-BLOCK

U-block filled with C40 concrete are used in door openings. The screws/hanger are drilled in U-blocks since it can carry more than 250 kg of load.



LINTELS

AAC Lintels is a horizontal reinforced member placed across the opening (door/window) to carry the blocks above the windows/doors.



HOURDI BLOCKS

These are commonly known as "filler blocks" that are used to create floors and roofs. These blocks rest on reinforced concrete called filigree slabs.



FLOOR PANELS

Structural Floor Panels are reinforced with steel. These are used as floor/roof slabs.



WALL PANELS

Non-Load Bearing Vertical Wall Panels are reinforced with steel and are used for internal partitions. Fire rated up to 3 hours.



JUMBO BLOCKS

Large-sized Blocks are 1000 mm length x 500 mm height x 600 mm thick (dimensions may vary depending upon client requirement) used for walling purposes.



AAC BLOCK MORTAR

Through our sister company Exeed Premium Dry Mortar, we can provide you a complete AAC system including our superior quality AAC block mortar & plastering materials.

AAC: WHAT & WHY?

Invented in Sweden in 1924 AAC is a lightweight, precast, foam concrete building material that simultaneously provides structure, insulation and fire and mold-resistance.

In the product's manufacture, Portland cement is mixed with a lime, silica sand, water, expansion agent and poured into a mold. The reaction between the expansion agent and concrete causes microscopic hydrogen bubbles to form, expanding the concrete to about three times its original volume. After evaporation of the hydrogen, the now highly closed-cell, aerated concrete is cut to size, form and steam-cured in a pressurized chamber (an autoclave). The result is non-organic, non-toxic, airtight material that can be used in non- or load-bearing exterior or interior wall, floor and blocks.



**THE EXEEDLITECRETE PRODUCTION
PROCESS GENERATES NO POLLUTANTS
OR HAZARDOUS WASTE.”**





FIRE RESISTANT

- Non-combustible
- Fire rating of 3 hours on 200mm thick AAC unit
- Emits no toxic fumes when exposed to fire
- The perfect building material to withstand the stringent requirements of building codes
- Increases the safety of the building's occupants
- Potentially lower insurance rates
- Can be used as cladding to protect other materials such as steel or to increase the fire rating of concrete walls



PEST RESISTANT

- Impervious to attack by insects and termites
- Potentially saving large amounts being spent on termite control and repair costs



ACOUSTIC INSULATION

- Provide good sound insulation
- Ideal for construction projects like apartments, hotels, and public buildings
- Porous internal structure is comprised of 60-70% air, effectively reducing sound wave transmission
- Typical STC rating is 50/52 for 500/600 density blocks or panels (db. 50-55) tested in accordance with ASTM
- E90 and classified in accordance with ASTM E413



ENVIRONMENTAL CREDENTIALS

- AAC qualifies as a "green" building material
- ESTIDAMA listed.
- Durable and energy efficient
- Manufactured using all natural resources
- No harmful emissions of toxic chemicals
- Completely environmentally compatible
- AAC production process requires much less energy than that of other materials
- Outstanding energy efficient qualities
- Excellent source of ongoing environmental conservation.
- Manufacturing process generates less than 1.5% waste with over 1% of this being recycled and used in other manufacturing or industrial processes
- Accurate and easy to cut, reducing the generation of solid waste during construction
- Do not need to be used in combination with insulation products that increase the cost of construction and the environmental impact



WORKABILITY

- AAC is as strong and sustainable as conventional masonry
- Easier to work with than wood
- Easily cut and crafted with common hand tools (power tools may be required to cut reinforcement)
- Ability to readily make straight cuts reduces time and waste in site alterations
- Lightweight, AAC weighs one fifth of standard concrete products
- Easy to handle
- Reduces labor costs and construction time



SPEED OF CONSTRUCTION

- Dramatic positive impact on the material's rate of installation
- Easy to use
- Quick to install
- A crew can install more than four times the area of AAC than that of a regular masonry application in the same period of time



THERMAL INSULATION

- Provide outstanding thermal insulation
- Make a major contribution to environmental protection
- Dramatically reduce energy needs (and cost) of space heating and cooling in buildings
- Saves as much as 50% in Heating and Cooling Energy
- A bare 25 cm thick AAC wall provides the same thermal insulation value like wall of cement blocks with a thickness of 270 cm

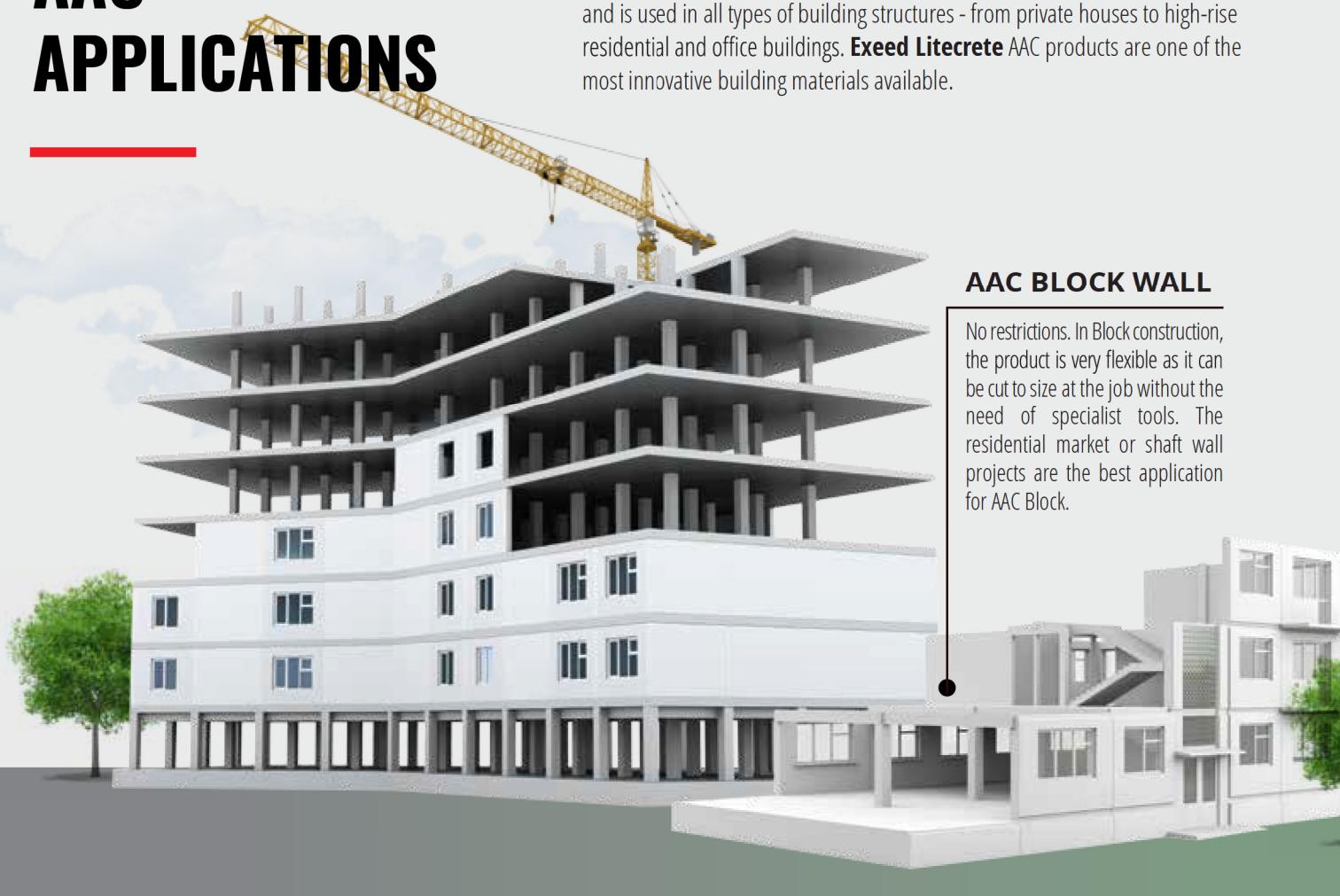


MOISTURE/WATER RESISTANT

- Water absorption coefficient of 4kg/m² x h0.5
- Weather and moisture resistance is achieved with a final surface treatment such as stucco, plaster and paint, or cladding such as bricks and/or other exterior materials
- Excellent structural integrity
- Resists high winds and violent storms
- Extremely durable
- Will not degrade under normal climatic conditions
- Outstanding durability characteristics over traditional materials relative to humidity, freeze/thaw cycles and chemical attack.

AAC APPLICATIONS

Exeed Litecrete AAC is widely used in residential, public and industrial buildings and is used in all types of building structures - from private houses to high-rise residential and office buildings. **Exeed Litecrete** AAC products are one of the most innovative building materials available.



AAC BLOCK WALL

No restrictions. In Block construction, the product is very flexible as it can be cut to size at the job without the need of specialist tools. The residential market or shaft wall projects are the best application for AAC Block.

HIGH-RISE HOUSING CONSTRUCTION

- Combined load-bearing walls
- Internal walls

LOW-RISE HOUSING CONSTRUCTION

- Load-bearing walls
- Internal walls
- Overlap

AAC FLOOR & ROOF PANEL

Reinforced for structural stability. Can take considerable loads and in many cases do not require screeds or toppings and due to the accurate flatness can be prepared for direct application of carpet or tiles including marble.



AAC WALL PANEL

Exeed Litecrete's AAC wall panel systems are quick and easy to install and are fire rated up to 3 hours. Developed to aid developers, builders and consultants meet the stringent needs of today's fast-paced construction requirements. This solution offers our customers an extremely cost effective wall system that can be used internally and externally and offers substantial time and manpower savings. Panels are available in a variety of thicknesses (75, 100, 150 and 200mm) and heights and can be tailor-made to meet customers' requirements.

It is the ideal substitution for conventional concrete walls and blocks for both internal and external partitioning.

Exeed Litecrete's AAC wall panels is also the superior and more cost effective solution to other 'panels' on the market made up on fiber cement boards in filled with a polystyrene light weight concrete mix.

RECONSTRUCTION OF OLD BUILDINGS

- Load-bearing walls
- Internal walls
- Increase the number of floors
- Cladding for external walls

CONSTRUCTION OF AGRICULTURAL & INDUSTRIAL FACILITIES

- Load-bearing walls
- Internal walls
- Overlap

The installation of AAC Blocks, Lintels and Panels is a very easy process which does not require the use of automatic or sophisticated equipment and machines.

AAC INSTALLATION

Simple handy tools are used in the process of installing AAC Blocks, Lintels and Panels such as saw, saw guide, rubber hammer, rasp board, grinding board, blender for preparing a thin bed mortar, precision trowels for spreading the mortar, junction box drill for MEP-works, groove scraper for MEP-works, SS wall connectors.



SAVINGS WHEN INSTALLING AAC



Speed of construction
(AAC panel = 3500 sqft/ day with two crews), which results in shorter construction time



Only **one contractor** can perform the scope for walls and floor system including exterior and interior finish



A better building, which is **maintenance-free** for more than **50 years**



No risk of mold or mildew



Savings of up to 50% in **heating and cooling cost**



Insurance discount because the building wall, floor and roof system is constructed with the **highest UL fire rated material - AAC**

COMMON AREAS OF USE



Any wall of a residential building: load bearing, interior and exterior



Any walls and partitions for outbuildings, as well as seasonal operation of buildings



Walls located below ground level with pre-waterproofing



Walls of baths and pools, provided protection against water

AAC APPLICATION IN MULTI-STOREY BUILDINGS

High-tech and thus economically justified multi-storey buildings are possible today only by using the right building materials - materials that can withstand heavy loads with small dimensions and to ensure a high level of acoustic and thermal insulation whilst also minimizing the production costs of the construction of buildings and the subsequent maintenance costs.

AAC products can also offer savings in the tower crane, mobile crane and fork lift capacity when moving AAC products onto high-rise buildings.



**AAC APPLICATION IN HIGH-RISE
RESIDENTIAL CONSTRUCTION IS
BECOMING INCREASINGLY POPULAR
IN THE UAE AND GCC.”**



BENEFITS OF USING AAC FRAME TECHNOLOGY



AAC walls can significantly **reduce the cost of installation of foundations**, while improving logistics



Construction of AAC walls qualify for energy efficiency at a much lower thickness, **saving on building materials and increasing the usable area of the interior**

AAC is a **non-combustible** building material and has high fire resistance



Easy handling allowing for cutting blocks and creating holes for electrical outlets and switches without significant additional effort



When using adhesive mortars (thin joint mortar) for masonry, the speed of construction increases, labor costs and consumption of coupling agents are reduced, this has **beneficial effect on the total cost of the building** being erected without the need for mesh



Significant **waste reduction** whilst using thin joint masonry technology



PROJECT REFERENCES

Exeed Litecrete reinforced panels are the perfect solution to meet the requirements of outstanding acoustic, thermal or fire insulation where onsite ease of cutting, lifting and speed of construction are essential.

As well as providing the benefits of rapid construction, differential movement between floors and walls is minimized. **Exeed Litecrete** panels are supplied ready for use. They can be simply and easily laid into position with only the joints needing to be mortared. Installation is therefore largely dry and generally no formwork or bracing is necessary. The reinforcing in the panels is custom designed for each project.

PROJECT	TYPE SUPPLIED	CLIENT	CONSULTANT	CONTRACTOR
1- Expo Village Development, Dubai	AAC BLOCK, BLOCK MORTAR	Dubai World Trade Center (DWTC)	KEO International	China State Construction Engineering Corporation Middle East (CSCEC ME)
2- Stella Maris (6B+G+51) ResdTower Pit 392-444 Dubai Marina	AAC BLOCK, U BLOCKS, BLOCK MORTAR, SPRAY PLASTER	Scope Investments LLC	LACASA Architects & Engineering Consultants	General Construction Company LLC
3- Sea World, Abu Dhabi	AAC BLOCK, BLOCK MORTAR	Miral & SeaWorld Entertainment	AECOM	ALEC Engineering and Contracting LLC
4- Akoya Oxygen	AAC WALL PANELS, AAC BLOCK, JUMBO BLOCKS, U BLOCKS, BLOCK MORTAR	DAMAC Group	KEO International	Al-Kharafi & Sons LLC
5- Creek Vistas Reserve, Dubai	AAC BLOCK, BLOCK MORTAR	Sobha Real Estate LLC	PNC Architects & Interiors	Sobha Constructions LLC
6- The Royal Atlantis Resort & Residences	AAC BLOCK, BLOCK MORTAR	Kerzner International DEC Dynamic		BESIX & Ssangyong Engineering & Construction JV
7- Paramount Tower Hotel & Residences, Dubai	AAC BLOCK, BLOCK MORTAR	DAMAC Group	LACASA Architects & Engineering Consultants	China State Construction Engineering Corporation Middle East (CSCEC ME)
8- Bloom Heights, Dubai	AAC BLOCK, BLOCK MORTAR, SPRAY PLASTER	Bloom Properties	Al Khawaja Engineering Consultants (KWECC)	Al Oroba General Contracting Company
9- Yas Village, Abu Dhabi	AAC BLOCK, BLOCK MORTAR, SPRAY PLASTER	Miral Asset Management	KEO International	Al Rakha General Contracting

9- MALL OF THE EMIRATES EXPANSION

Dubai

SECTOR	COMMERCIAL
CLIENT	Majid Al Futtaim
CONSULTANT	Hyder Consulting Middle East
CONTRACTOR	Khansaheb Civil Engineering
ENGINEERING CONSULTANT	Mott MacDonald



TYPE & VOLUME OF ELEMENTS SUPPLIED	REINFORCED AAC FLOOR PANELS	WLL	WDL
AAC Blocks - 2000 m3	Length > 2.9 m Width > 600 mm Depth > 200 mm	5 kN/m2	4.4 kN/m2



QUALITY POLICY

It is the policy of **Exeed Litecrete LLC** to listen to our customers' voice so that we can understand, meet and exceed their needs. It is important that we are perceived by our customers as a company whose products, service and support consistently out shines those of our competitors. In the event that one of our customers has a problem with our products or our actions, we will react immediately and resolve it to the customer's satisfaction.



OUR PROCESSES

It is our intention to continuously improve our products like AAC blocks, panels, lintels, our services and our processes using clearly defined methodologies and making data based decisions.



OUR EMPLOYEES

We shall work to build a company that is regarded by its employees as one they are proud to work for, that communicates with them, listens and responds appropriately, values them and invests in them.



OUR OBJECTIVES

We shall not allow engineering errors to reach our customer and provide only options and preferences for the customer to choose from. Our supply chain shall be flawless; products will always be delivered on time and in good condition. We will strive to become the manufacturer first choice of Aerated Autoclave Concrete (AAC) blocks, panels and lintels - showing others the way.



OUR QUALITY RULES

1. **Customer-Focused Organization:** Identifies, anticipates and meet the need of customers
2. **Leadership**
3. **Involvement of People:** Co-operation of individuals uniting to achieve specific goals
4. **Process Approach**
5. **System Approach to Management:** Set smart improvement objectives and work towards continual improvement in every functional area
6. **Continual Improvement:** Continuously train and refine the method and process used in order to improve our employees procedures and products
7. **Factual Approach to Decision Making**
8. **Mutually Beneficial Supplier Relationships**
9. Develop, Implement and maintain a **Quality Management system** as per the requirement of ISO 9001:2015
10. Commitment to **comply with the legal** and other regulatory requirement

EHS POLICY

The company is committed to Occupational Safety and Health.

Everybody who works for **Exeed Litecrete LLC** has a responsibility for his/her own safety as well as that of the person next to them. Good OSH performance and welfare of everyone who works for us is critical to the success of the business. Our goals are simply stated:

"No accidents, No harm to people, and No damage to the environment".

We will continue to pursue excellence in our management of the environmental and health impacts of our operations by reducing waste, and using energy efficiently. We will produce quality products that can be used safely by our clients.

We commit to this policy as an integral part of our management through the following elements:

Ensure safe operation of our entities to minimize occupational health/Hazard exposures to our employees, contractors and the public

To comply with Established UAE law (SRA/IDB) Environmental Health and Safety laws, Regulations, conventions, Treaties for Environmental conservation

Recycle and Reuse wastewater (Where possible) unless their discharge is compatible with the surface environment and can be discharged in line with national and international standards

Control and minimize all hazardous/non-hazardous wastes and treat and dispose as per national and international standards.

Minimize/control air/Greenhouse gas emissions to minimize environmental impact

Ensure prevention of pollution, illness and injury

Prevent spillage to avoid soil contamination

Optimize the use of resources –land, water, energy and raw materials

Continually review objectives and set targets to improve our OSH performance

Openly communicate our OSH performance and participate in external initiatives that improve our knowledge and performance

Establish an appropriate OSH Procedure, Comply with UAE legal, and others regulatory requirements







» Exeed Litecrete



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