

# AMIL GROUP

ESTD 1985

## PRODUCT CATALOGUE

*We grow on ideas*



Industrial  
Roller Doors



Domestic  
Roller Doors



Swing  
Gates



Sliding  
Gates



Construction  
Projects



Civil  
Construction



Cement  
Blocks





## OUR MISSION

Our mission is to be proud of our company, to create a happy work environment, to be honest, open and understanding in our dealings with customers and staff and be responsive to their needs. We will constantly improve and achieve growth by being the best at what we do and we will strive to do it right the first time, every time, with pride. We endeavor to establish a lasting relationship with all our customers and our professional team of employees.

## OUR VISION

We aspire to be the benchmark for Sri Lanka in Value Creation and Service Excellence. We make the difference through: Our staff, by fostering team works, nurturing talent, enhancing leadership capability and acting with pace, pride and passion. Our products, by becoming the supplier of choice, delivering premium products and services, and creating value with our customers. Our support, by giving the service excellence to our valued customers demonstrating high ethical standards & finest technology.





## OUR FACTORY AND OUR CAPACITY

We at DESIGNER uses world class machinery and state of art tools and equipment in manufacturing process. Our work force has been taken through extensive foreign trainings and we ensure that DESIGNER provides you the right product at the right time giving you best value for investment made with us.

## MANAGEMENT



Gihan A. Abeyesundara	Walter Abeyesundara	Heshini Abeyesundara
Managing Director	Chairman	General Manager
BEng, MSc, MBA	BA, MBA	BA, MBA



The way you  
Want...

[www.amilindustries.com](http://www.amilindustries.com)  
**DESIGNER** ROLLER DOORS

# ROLLER DOORS

## THE BRAND

DESIGNER is a brand easily recognized by its GOLD and RED the design is rarely interpreted into words, mainly because the message is so easy to get: It's strong, powerful and will be designed to your needs.



*A trusted name for years of enjoyment..*

# DOMESTIC ROLLER DOORS



Our DESIGNER Roller Doors with its rigid steel curtain, heavy duty springs and strong plastic drums aid in the lifting mechanism to make them strong, reliable and long lasting.

When opening, the doors move vertically, while moving along the tracks then rolls up around the drum. It is co balanced with springs that ensure a smooth run.

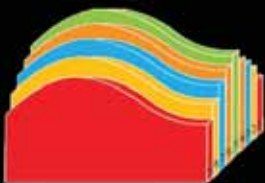
At our Design Centre, you have the once in a life time opportunity to design your very own DESIGNER Roller Door, as we believe that our door last a lifetime and therefore should be made to your specific requirements. The door is then tailor-made to suite your home requirements which blends in order to give an Architectural view.







**SECTIONAL VIEWS OF POWDER COATING SYSTEMS**



1. Service Coating
2. Primer Coating
3. Chemical Pretreatment
4. 55% Al/Zn Coating
5. Cold Rolled Strip
6. 55% Al/Zn Coating
7. Chemical Pretreatment
8. Primer Coating
9. Finish Coating



**INTENSIVE OPENER**



**TRANSMITTER**



**WIRELESS WALL MOUNT SWITCH**



**PHOTO INFERRED DETECTOR**



**DURABLE PLASTIC DRUM**



**LONG SPRINGS**

**SIREN**



**MANUAL RELEASE CABLE**

**MICRO COMPUTER CONTROL UNIT**



# INDUSTRIAL ROLLER DOORS



## DOOR PANEL

Long lasting Door Panels - according to the durability test the door panels have proven to have a long life span. Both Zincalume and multi treatment coatings are used to ensure resistance to corrosion. They are produced by qualified vendor with international patent license ( Sysco company). DESIGNER door panels comprises of 0.6mm thick zincalume coated steel panels, achieving the status of highest thick high quality powder coated door panel in the Sri Lankan roller door market with high quality multiple layers of baked paint. Both sides of the door panels are equipped with strong and durable reinforced flat nylon poly strips to eliminate the need to lubricate the tracks.

DESIGNER Roller Door features a 2 years on site warranty for the Opener including labour. We also proved a 12 month warranty on transmitters remote controllers (LEDs and batteries excluded). 10 years warranty for cracks on colour bond Zincalume door panel (Excluding salt corrosion and chemical inference)





# SLIDING GATES



DESIGNER Remote operated Sliding gates are available in Mild steel, Wrought iron, Stainless steel, Wooden or with a combination of these. Round, square, rectangular solid bars can be used to enhance the appearance of your gate. According to the client's requirement the DESIGNER gate can be painted or powder coated to any colour. Anticorrosive treatment coating is used to ensure the gate is corrosion free.

Our skilled, experienced, efficient team will ensure your gate meets to the highest standard in the industry, in terms of quality of material, strength, cost, timely delivery and unique design.

Sliding gate opener will facilitate operating single leaf sliding gate up to 9.5 meters and double leaf gates up to 19 meters. Our safety system will ensure prevention of gate closing on pedestrians or vehicles. Combining robust components, best materials and advanced technology the DESIGNER sliding gates offer you efficient after sales service and warrantee.

We ensure that these gates have the ability to provide ideal protection for any high risk security requirement such as homes, warehouses, factories, military establishments and etc.







# SLIDING GATE MOTORS

GR 4



GR 8



GR 12



## GR 4

- > Constructed in reinforced fibre or aluminium.
- > For residential use.
- > Available of 12-24 Vdc 220-230 Vac.
- > Easy installation.
- > For gates with maximum weight of 400 Kg.
- > Strongly built and tested over time to guarantee long life.
- > Available with raised carter housing for the transformer and central command unit (...12-24 Vdc).
- > Design which integrates well with all tapes of gates.
- > Available with magnetic encoder in all versions.
- > Easy manual unlocking
- > Permanent lubrication with grease.
- > With or without central command unit.

## GR 8

- > Constructed in reinforced fibre or aluminium.
- > For residential or light industrial use.
- > Available at 12-24 Vdc 220-230 Vac.
- > Easy installation.
- > For gates with maximum weight of 800 Kg.
- > Strongly built and tested over time to guarantee long life.
- > Available with raised carter housing for the transformer and central command unit (...12-24 Vdc).
- > Version with 15m/min speed also available (12/24 Vdc).
- > Design which integrates well with all tapes of gates.
- > Available with magnetic encoder in all versions.
- > Easy manual unlocking
- > Permanent lubrication with grease.
- > With or without central command unit.

## GR 12

- > Base and frame made of aluminium.
- > For industrial use up to 2000 Kg.
- > Complete with base plate.
- > Uncomplicated and robust motor
- > Cover made of galvanised steel
- > Available with 220 V - 350 V
- > Grease lubrication.
- > Easy installation.
- > Easy manual unlocking
- > Easy manual release, even external



## DSL 500

- > 12v Back up battery in case of power failure
- > Reliable worm gear drive with manual override
- > Built in PCB board with auto close function
- > Soft start and stop
- > Pedestrian mode
- > Auto reverse in the event of an obstruction
- > PCB terminal for button switch, infrared sensor, flash alarm, light options etc
- > Solar Panel connection ready

## DSL 1000

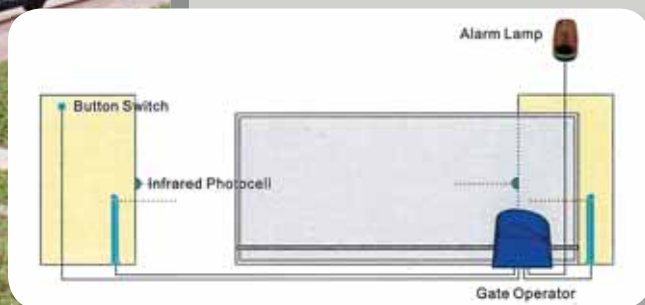
- > Heavy duty AC design
- > Reliable worm gear drive with manual override
- > Built-in PCB board with auto close function
- > Soft start and stop
- > Thermal overload protection
- > IP44 rated waterproof
- > PCB terminal for button switch, infrared sensor, flash alarm, light options etc
- > Commercial rated oil bath models available

Model	DSL 500	DSL 1000	DSL 2000
Power Supply	240 Vac	240 Vac	240 Vac
Output Torque	20Nm	27Nm	45Nm
Gate Weight	500kg	1000kg	2000kg
Motor Speed	1400 r.p.m	1400 r.p.m	1400 r.p.m
Gate Speed	12m/min	12m/min	12m/min
Limit Switch	Spring or Magnetic	Spring or Magnetic	Spring or Magnetic
Noise	≤56dB	≤56dB	≤56dB
Temperature	-45°C ~ +65°C	-45°C ~ +65°C	-45°C ~ +65°C
Protection Class	IP44	IP44	IP44

## DSL 500



## DSL 1000/2000



Antenna

Electronic Photocells

Control Box

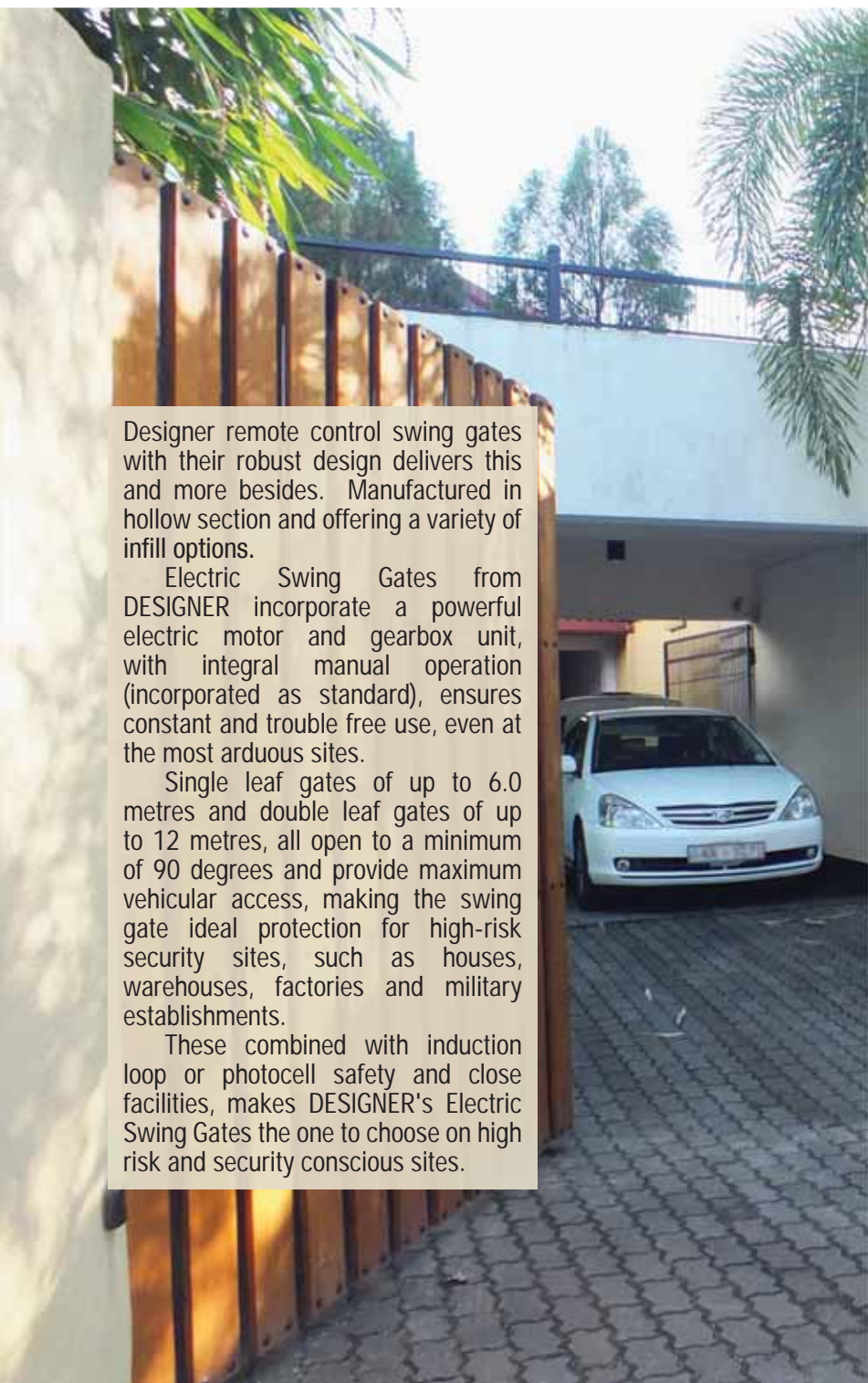
Transmitter

External Key Switch

Warning Light



# SWING GATES



Designer remote control swing gates with their robust design delivers this and more besides. Manufactured in hollow section and offering a variety of infill options.

Electric Swing Gates from DESIGNER incorporate a powerful electric motor and gearbox unit, with integral manual operation (incorporated as standard), ensures constant and trouble free use, even at the most arduous sites.

Single leaf gates of up to 6.0 metres and double leaf gates of up to 12 metres, all open to a minimum of 90 degrees and provide maximum vehicular access, making the swing gate ideal protection for high-risk security sites, such as houses, warehouses, factories and military establishments.

These combined with induction loop or photocell safety and close facilities, makes DESIGNER's Electric Swing Gates the one to choose on high risk and security conscious sites.







# SWING GATE MOTORS

GR 100



GR 400



GR 100

- > Single version for right left door with max. length 2.5m and max. weight 300 kg.
- > Modern and attractive design with integrates well with all types of gates.
- > Available of 12-24 Vdc 220-230 Vac.
- > Available with double opening and closing limit stop or magnetic encoder.
- > Easy manual and external unlocking
- > Fixing plates and hinged arm in zinc-corted steel for maximum strength.
- > Available with magnetic encoder in all versions.
- > Permanent lubrication with grease

GR 400

- > Single version for right left door with max. length 2.5m and max. weight 300 kg.
- > Modern and attractive design with integrates well with all types of gates.
- > Available of 12-24 Vdc 110-220 Vac.
- > Available with double opening and closing limit stop or magnetic encoder.
- > Easy manual and external unlocking
- > Fixing plates and hinged arm in zinc-corted steel for maximum strength.
- > Available with magnetic encoder in all versions.
- > Permanent lubrication with grease.





### SW-3

- > Back up batteries for power failure operation
- > Design to prevent PCB burnout from incorrect wiring connection
- > Over current function meets European safety requirements
- > DC 24V electro-mechanical gear motors for residential use
- > Planetary gear provides durability and silence in motor operation
- > Slowdown during opening and closing phase
- > Release key for manual use

### SW-6

- > In case of power failure the gate can be opened or closed manually after releasing the clutch
- > Magnetic limit switch controls travel

Model	SW-3	SW-6
Power Supply	240 Vac	240 Vac
Motor Input	DC24V	DC24V
Absorbed Power	80W	150W
Gate Weight	350kg	600kg



### SW-3



### SG-6



Gear Rack



Gear Rack



Gear Rack



Remote Handset



Photobeam Sensor



Alarm Lamp

# BARRIER GATE OPENER

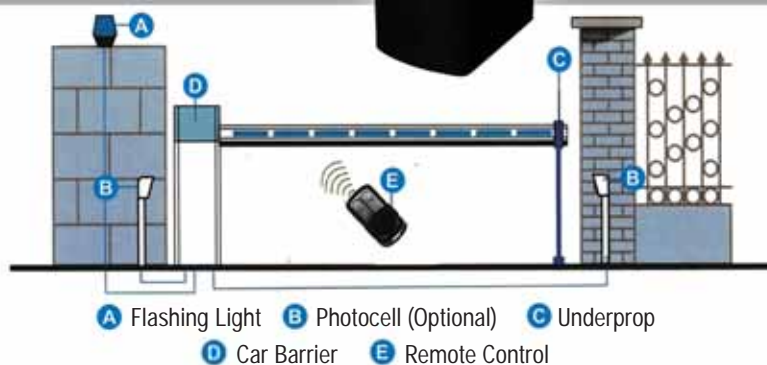
## BG- Series Features

- > Designed for continuous operation in all environments
- > Manual clutch release in case of power failure to open or close
- > Can be fitted with photocell safety kit
- > Flashing LED light signals boom movement
- > Heavy duty die cast cover protects control systems

Model	BG-3
Motor Input	240 Vac
Motor Power	90 W
Time for up/down	3s (4m)
Limit Switch	Magnetic
Noise	≤56dB
Temperature	-20°C~+50°C
Protection Class	IP44



Remote Handset Photobeam Sensor







## ACCESSORIES



SW-950 Key Switch Button  
(Stainless Wall Type)



SW-500 No touch Switch  
Button



PB-1500 Photo Sensor 15m



PBP-1000 Photo Sensor 10m



Flash Alarm



Flash Alarm (with Antenna)



ID-60 Industrial Opener  
Power 60Nm (Single Phase) /  
120Nm(3 Phase) 12m Hand  
Chain



SW-720 Push Button With  
Base



RC-390 Remote Wall Switch  
With Base



UPS Battery 24V



SW-850 Industrial Push Button



RC-383 Remote Wall Switch



SW-750 Cable Wall switch  
With Base



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\* 30 years of business have allowed us to grow and mature together with our clients.

\* 30 years of business have made us accomplish firm and refined skills and abilities, which have helped us achieve our goals.

\* 30 years of business have made us become key players in the production sector of gear motors for electric gates.

We manufacture our gear motors with our own dies and in semi-continuous production lines, which allow production times to be streamlined, production standards to be improved and prices to be kept as reasonable as possible, apart from allowing the products to be customised according to the clients' demands.

But the production process is not everything: success is achieved by means of an efficient and qualified business organisation, ISO 9001: 2000 certification and an excellent internal technical department.

This is what makes it possible for us to work closely with our clients when searching for precise technical and business solutions.

Not having intermediaries allows us to offer trading conditions that are most favourable to wholesalers, national retailers or importers, who seek a solid, reliable and positive collaboration, which is a key factor in Quality & Convenience.

### Product Categories

- ▶ Swing Gate Motors
- ▶ Barriers
- ▶ Motors for industrial doors
- ▶ Gear motor for sliding gates
- ▶ Motors for garages
- ▶ Accessories for gates



### Swing gate motors

Products are tested over time and suitable for all weather conditions and usage. 4 Series to choose from for your every need.

GR 300-400-600

GR 100



GR 2 underground operator



### Gear motor for Sliding gates

Reliable, robust, powerful : it's the substance that matters.

GR 4

Gear motor for sliding gates. Base and frame made of reinforced fibre for residential use, for gates up to 400kg Available.





## Sliding gate motors

Products are tested over time and suitable for all weather conditions and usage. 4 Series to choose from for your every need.

GR 8



Gear motor for sliding gates. Gear case made of aluminium for semi-industrial use up to 800 Kg.

GR 12



Gear motor for sliding gates. Base and frame made of aluminium for industrial use up to 2000 Kg.

## Motors for industrial doors

- Very compact
- Design simple and robust
- Extremely easy to install and adjust
- Equipped with double 16A mechanical limit switches
- Installation without using control panel with buttons NA "dead man".
- Available at 24V with ENCODER

GR 55



## Electromechanical operator for folding doors.

GR 900



## Barriers - Innovative products for your newly developed needs

GR SP

Battery-operated automatic barrier to protect a parking space. Galvanised steel frame Obstacle detection when being opened Complete KIT



## Electromechanical traffic barriers

- Made of galvanized steel and painted with epoxy powder
- Robust materials unchanging over time
- For bars up to 4m and 6m
- Unique version left and right
- Grease lubrication
- Intrinsically safe Balancing system of the bar PATENTED
- Easy installation
- Motor SLS system inside - PATENTED Intensive use
- Easy manual release
- Available color: Yellow - other colors available by quantities

GR 4000 - 6000



## Motors for garages - Ready for the future

- Electro-reducer for overhead garage doors with counter weights
- Sober and elegant shape
- Design simple and robust
- For overhead garage doors up to 9m<sup>2</sup> (over 9m<sup>2</sup> use 2 motors)
- Equipped with double mechanical limit switches 16A
- External release available

GR BA S



## Accessories for gates

Born to enhance the quality and strength of our solutions.



# CIVIL CONSTRUCTION



Amil Builders was established in 1985 and has achieved ICTAD Grade C3 Registration. The company has carried out a substantial amount of construction work for Government, Semi-Government, Non-Governmental Organizations, foreign embassies and UN agencies.

Hence we are recognized as a reputed and reliable contractor and our clients include the International Federation of Red Cross, Red Crescent Societies, World Vision Lanka and UN Habitat.

The company's philosophy has been to concentrate on a limited number of projects for the year, with particular emphasis on quality and customer satisfaction.

Along with this, the company's focus is now turning towards the private sector and home owners, while continuing to serve international and non governmental organizations. Driven by the vision of Amil Builders, the company believes it is in the business of providing 'a total building solution' as opposed to simply construction solutions, and strives to provide its clients with the required service.

Effective project management, competent human resource management, prudent financial management and fine quality control play an important role in its methodology. These uphold the company's unique business practices.

The company believes in employing truly the best in their respective fields and so our carder consists of Engineers, Quantity Surveyors, Technical Officers and Site Supervisors of the highest caliber to carry out its business activities.







# INDUSTRIAL PROJECTS



Project management, human resource management and sound financial management of projects plays as important a role as construction methodology and quality control, in the company's business practice.

The company employs the required Engineers, Quantity Surveyors, Technical Officers and Site Supervisors to carry out its business activities. In addition, the company consults senior Engineer and Architects on best practice policies, which the company diligently adheres to. While most small construction machinery is owned directly by the company, along with the requisite vehicles for material and personnel transport, the company generally hires out heavy machinery as required, through long term alliances with reputed suppliers. The company has built up a good rapport with its suppliers and labour sub contractors, to ensure material and workmanship quality.

The company's financial stability is noteworthy, for an organization of this scale. The company is able to fully support its business activities through more than adequate cash deposits and credit facilities maintained with leading banks in the country.



## Quality Policy

"We commit ourselves on constructions that fulfill our clients' requirements at the highest level, and actively promote a culture of continual improvement"

"We are committed to involve every individual, while taking pride in their personal contribution, by upgrading their skills and welfare."

## Mission

To be the preeminent provider of superior construction services to our customers at the highest level of quality at fair and market competitive prices. To ensure the longevity of our company through repeat and referral business achieved by customer satisfaction in all areas including timeliness, attention to detail and service-minded attitudes while maintaining the highest levels of professionalism, integrity, honesty and fairness in our relationships with our suppliers, subcontractors, professional associates and customers.

## Vision

To be the most sought-after contractor for construction projects in which meeting the challenges of execution, safety, and schedule set us apart from our competition.



## INDUSTRIAL PROJECTS





## DOMESTIC PROJECTS



# CEMENT BLOCKS



## Solid / Hollow Cement Blocks

### Structural Capability

The major advantage of Cement blocks is that their strength can be engineered as per requirement. Thus making them relatively stronger than masonry with brick walls by around 15-20%. The specifications and the characteristics of a Cement block depend on the machine used to manufacture them. The basic raw material is cement, fine aggregate and coarse aggregate and very little water is used. This is possible only with mechanized compaction and vibration and gives the block high quality in spite of the lean mix.

These blocks are 4-5 times larger than burnt bricks; the size of the block or brick used has a bearing on the strength of the masonry. As the bigger size accounts for reduction in the number of mortar joints, thereby increasing wall strength. Weight of a Cement block is about 20-25 Kg's. High quality machines provide optimum vibration in the mix so that the ratio of cement used can be reduced substantially without compromising on the strength of the blocks. The machine also compacts and consolidates the mix so that the blocks are uniform in size and attain desired physical properties. The blocks are cured for a minimum period of 14 days, prior use.

### Thermal properties

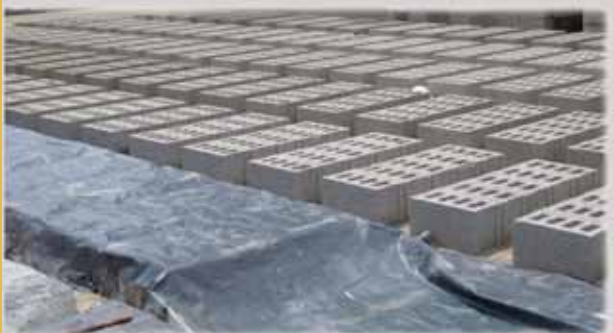
Cement blocks have an excellent thermal property, comparable to other masonry blocks. The cavities in the blocks provide better thermal protection and also do not need external or internal plastering. The performance of these blocks increases with the increase in the number of hollow Cores, which may or may not be filled in with some insulating materials.

### Sound insulation

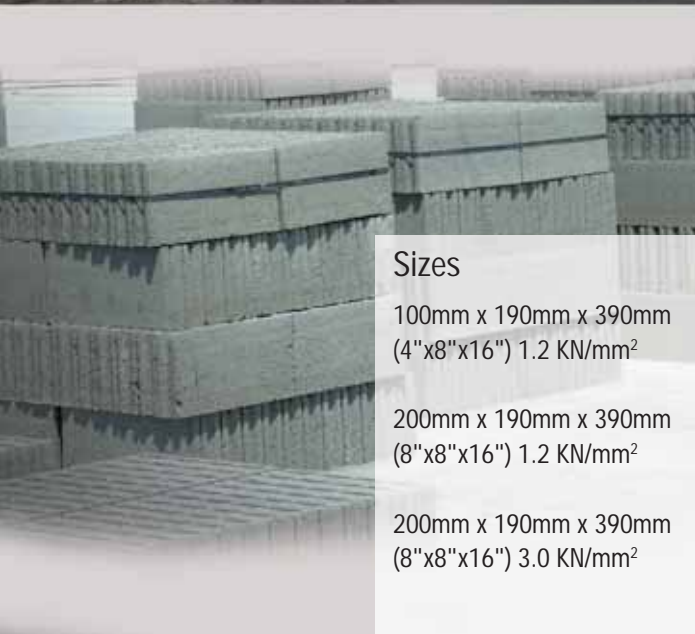
Cement blocks provide an acceptable degree of sound insulation.

### Fire and vermin resistance

Cement blocks will not burn. They are readily incorporated into fire resistant rated construction. It has no problems of vermin attacks or infestation.







### Sizes

100mm x 190mm x 390mm  
(4"x8"x16") 1.2 KN/mm<sup>2</sup>

200mm x 190mm x 390mm  
(8"x8"x16") 1.2 KN/mm<sup>2</sup>

200mm x 190mm x 390mm  
(8"x8"x16") 3.0 KN/mm<sup>2</sup>

### Durability and moisture resistance

They are very popular as a long lasting, low maintenance masonry unit, with good compressive strengths. They have a general life's span of about 60yrs.

### Sustainability

Cement contributes maximum to the embodied energy of the product and masonry. Production and application procedures for Cement blocks have been optimized to maximize efficiency of cement use. The embodied energy in Cement blocks masonry is 270 MJ/Sqm as against 640 MJ/ Sq.m for brick walls. Therefore Cement blocks, through efficient use of cement, consume less than 50% of the energy, which is consumed by brick walls.

Build ability, availability and cost It has been found that Cement blocks enable savings of approx. 8-9% per sq m. of masonry as compared with burnt bricks. This is primarily because of the savings in mortar and faster construction speed, both due to the larger block size and also due to the savings in plaster. Size optimization of Cement blocks also leads to increase in usable internal space, when compared to conventional fired brick construction. Construction techniques involved is similar to other masonry units thus easily adaptable.

### Applicability

Cement blocks have various types such solid, hollow, paving, tree-guard blocks, and each of them are available in various shapes and sizes. This vast range of products offers a large market for application.

- In load bearing structures -low rise residential and office buildings, bungalows, shelter units for rural housing, highway constructions, institutional buildings, god owns and warehouses etc.
- In frame structures – High rise residential apartments, office buildings, market complexes, hospitals and hotels etc.
- As ground laying units – interlocking paving blocks for roadside walkways, garden pathways, curb stones, exhibition grounds, fuel pumping stations, movement corridors, high traffic movement areas like: bus and train stations etc.
- Specific usage areas: tree guard blocks for roadside and garden tree plantations Manufacturers.



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