



RESIDENTIAL GARAGE DOOR



About us

Team Nirmal has been manufacturing, supplying, installing, and servicing entrance automation systems for Industrial, Residential & Commercial uses. During 27+ years of experience, we have built up a strong relationship with our customers by providing reliable & quality products. We, at Nirmal Automation, are proud to contribute to India's growth story since 1994.

Core Values

Commitment

Continuous improvement & Pursuit of excellence

Respect & Care for humanity

Core Values

Commitment

Continuous improvement & Pursuit of excellence

Respect & Care for humanity

Core Strength

Solution driven approach

Competitive cost

Flawless installation

Prompt after sale service

Core Purpose

Provide innovative solution to make life comfortable



We Work In Commercial, Industrial & Residential Sectors



RESIDENTIAL GARAGE DOOR



Golden Oak



RAL 9016: White color



RESIDENTIAL GARAGE DOOR

DESCRIPTION

- o The garage door is sectional door model that provides a high level of insulation, which is used to protect the car entrance and exit sections of the car parks of the residence.
- o The panels of decorative garage doors consists of insulated panels with finger-squeeze protection and can be lined and /or double walled decorative window can be applied on the panels optionally.
- o Decorative garage door can be easily opened manually with a 230 V-AC or 24 V-DC / 50 Hz electric motor and a double torision spring (wind-up) system that balances door weight. Door weight does not force the user and automation because of the springs.
- o Galvalume PU / **PIR** foam panel thickness is 40mm, with external & internal wall thickness of 0.4mm +0.4mm, height of 500mm.
- o Sizes up to 6 meter Width x 2.75 meter Height
- o Doors are provided with spring break safety and cable break safety.
- o Springs are designed for a standard of 20,000 cycles.
- o Windows can be provided as optional.
- o EPDM gaskets between the decorative garage doors, on the door, on the sides and bottom rows prevent dust, air and rainwater from entering. Hollow EPDM gasket located under the garage door ensures that the door rests smoothly on the ground
- o In case of power outages, the door can be opened easily by taking the motor to the manual, if there is no other entrance to the garage, the manual take-up lever must be kept outside with a key
- o Optionally automatic closing can be provided and a safety photocell can be connected.
- o Frequency conversion function, with smooth start and stop function.
- o Pneumatic safety edge, reflector Photocell is provided for additional safety to prevent door to collide with any object during closing.
- o TUV & CE certified Manufactured in Accordance with EN13241.

FEATURES OF GARAGE DOOR

- 2 Years warranty on door
- Exterior color / Inner color:
- Option 1 - Golden Oak / Golden Oak, wood grain embossed finish
- Option 2 - White 9016 / white 9016, STUCCO embossed finish
- Panel Design: Center Rib / three groves - Panel:
- Option 1 - Golden Oak PU 40mm with 0.4+0.4mm Ext/Int Thickness
- Option 2 - White PIR 40mm with 0.4+0.4mm Ext/Int Thickness
- Panel section height: 500mm
- Density: 45 Kg/m3
- EPDM sealing gasket between panels
- Finger safe protection
- Top & bottom Aluminium profile with EPDM seal
- CFC Free PU polyurethane / PIR (Polyisocyanurate)
- Galvanized vertical & horizontal
- track Spring 20000 cycles

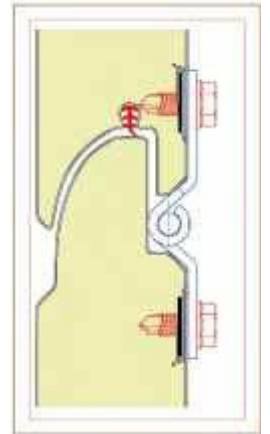
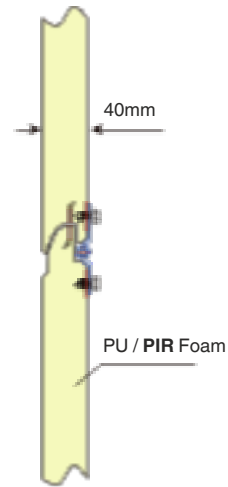
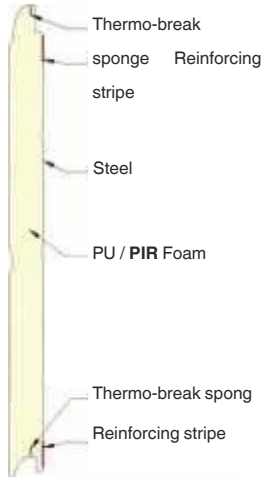
SPECIFICATION

Description	Value
R-value	1.12 (m ² · °C/W*)
Thermal insulation	0.04(W/m ² ·°C)
Wind load	2 class EN12424
Ai ightness	2 class EN12426
Water tightness	3 class En12425
Acoustic insulation	≤35 dB
Door panel weight	9.8 kg/m ²
Panel thickness, mm	40
Thickness of steel, mm	0.4



RESIDENTIAL GARAGE DOOR

FEATURES OF GARAGE DOOR



Finger Safe

Residential garage door has finger protection panel, the galvalume panel width is 40mm and height is 500mm, thickness is 0.4mm + 0.4mm. each panel is filled with PU (polyurethane) / **PIR (Polyisocyanurate)** with density of 45 Kg/m³

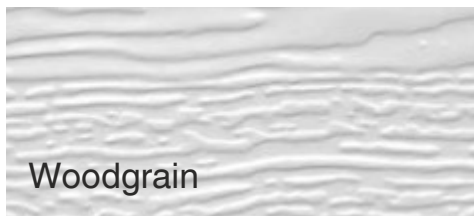
FINISH

Panel Design:

Exterior color - Golden Oak / Interior color: Golden Oak, wood grain embossed finish

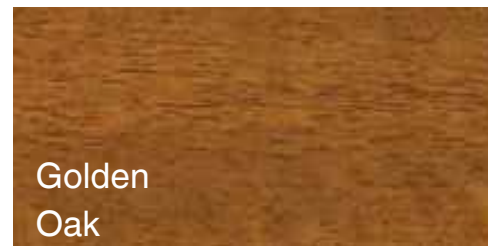


Panel Design: Center Rib



Woodgrain

Surface Texture: Woodgrain

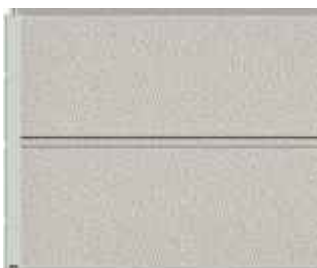


Golden Oak

Color: Golden Oak

Panel Design:

Exterior color - RAL 9016: White color/ Interior color: RAL 9016: White color, STUCCO embossed finish

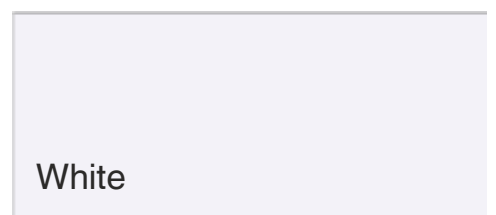


Panel Design: Middle 1 Line



Stucco

Surface Texture: STUCCO finish



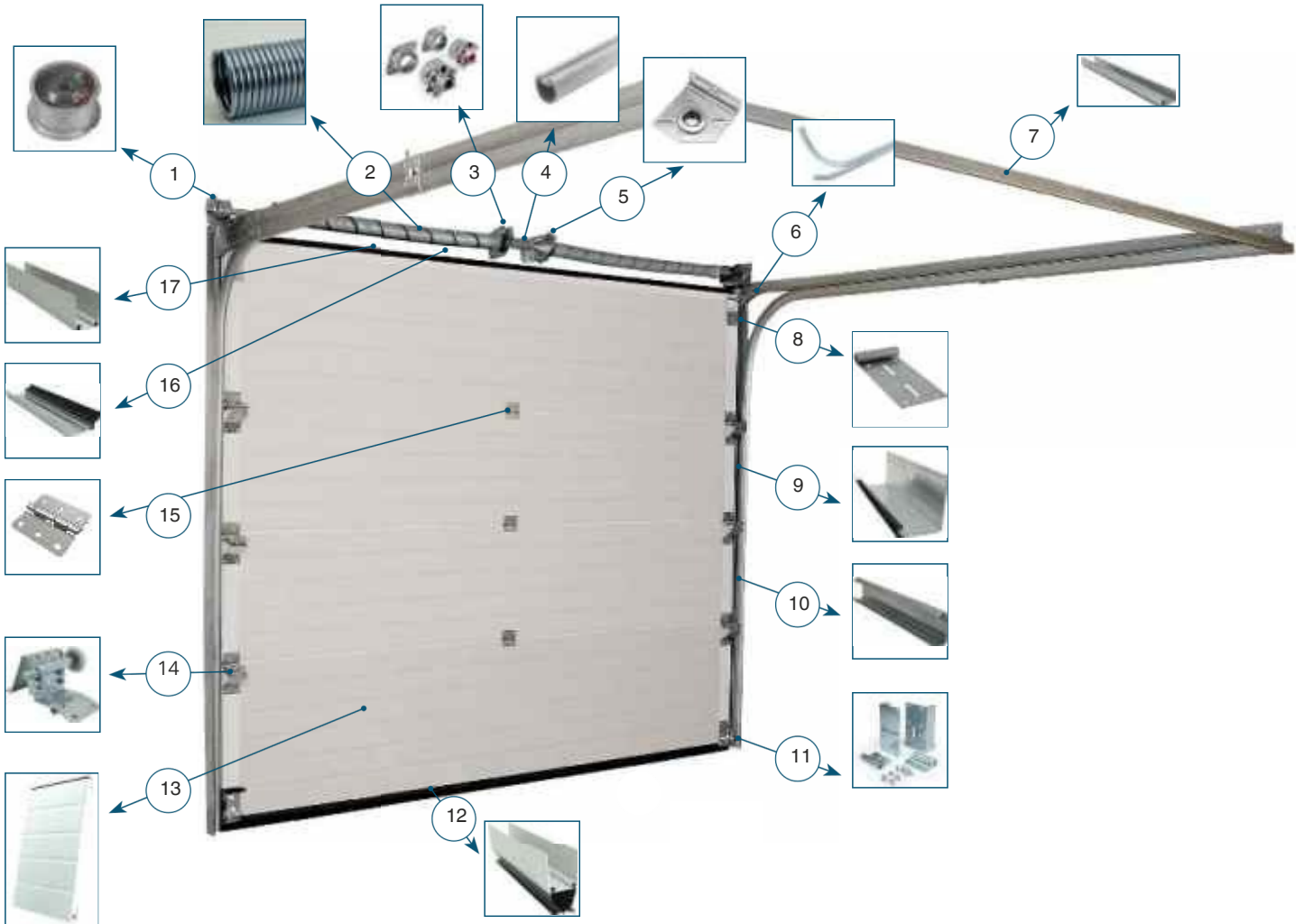
White

Color: RAL9016 (White color)



RESIDENTIAL GARAGE DOOR

TORSION SPRING GARAGE DOOR HARDWARE



- 1. Cable Drum
- 2. Torsion Spring
- 3. Spring Fitting
- 4. Shaft
- 5. Bearing Bracket
- 6. Double Curve Profile

- 7. C Profile
- 8. Top Roller Bracket
- 9. Vertical Angle and Seal
- 10. Bottom Track
- 11. Bottom Roller Bracket
- 12. Bottom Profile and Seal

- 13. Panel
- 14. Side Hinge and Roller
- 15. Middle Hinge
- 16. Top Profile and Seal
- 17. Top Panel profile

OPTIONAL INTEGRATION



Spring Break



Cable Break



Strengthening Profile



Window

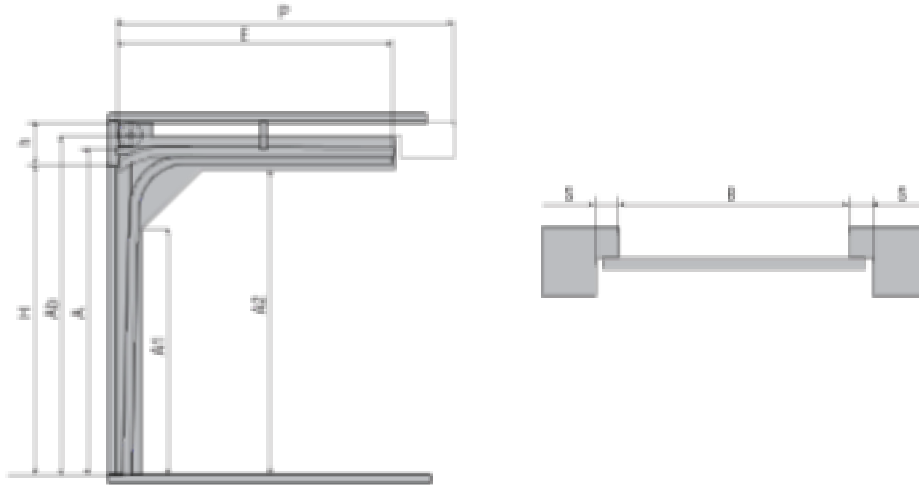


RESIDENTIAL GARAGE DOOR



Opening width, mm - from 2000 to 6000
 Opening height, mm - from 2000 to 2750
 Minimum headroom height manual / with operator, mm - from 230/250
 Minimum side room, mm - 150
 Balancing system
 Tension spring - torsion spring designed for 20000 cycles operation
 Windows - +
 Pass door - +
 Design - Exterior color / Inner color: Option 1 - Golden Oak / Golden Oak, wood grain embossed finish
 Option 2 - White 9016 / white 9016, STUCCO embossed finish
 Panel Design: Middle 1 Line / 4 line

LOW LIFT FRONT DRUM FOR GARAGE DOOR

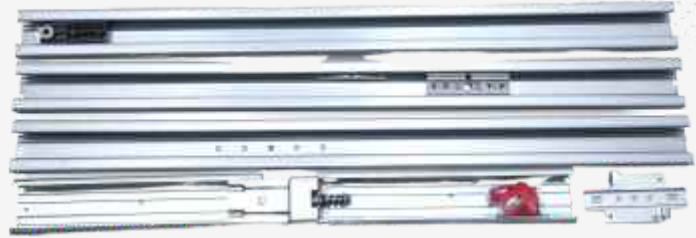


Parameter	Description	Space Requirements
H, mm	Opening height	H
h, mm B,	Headroom height	$h \geq 230$ manual (250 mm operator)
mm A,	Opening width	B
mm Ab,	Vertical angle height	$H + 54$
mm A1,	Shaft	$\geq A + 59$
mm A2,	Vertical angle angle track height	$A - 552$
mm E,	Door working space of horizontal angle	$A - 115$
mm	Horizontal track length	$H + 440$
	Points of attachment of the horizontal track to the ceiling (depends of door size)	$2/4$ Depends of door size and weight
Db, mm	Torsion mechanism operation space	
S, mm	Minimum sideroom	150
P, mm	Zone of ceiling operator position	$H + 1\ 185$



RESIDENTIAL GARAGE DOOR OPERATOR

24 V DC



PRODUCT DESCRIPTION:

- The Nirmal garage door operator features the latest advancements, including a control unit with various optimized capabilities.
- Multiple highlight LEDs enhance the lighting for better visibility.
- A multifunctional external terminal allows connection to various external devices, such as photocells (optional), wall switches (optional), and more.
- Safety reverse function ensures smooth start and stop operations.
- During operation, the opener continuously detects resistance to ensure precise positioning.
- The auto-close time is adjustable to suit individual needs.
- Operates with low noise and high lifting power.
- A backup battery interface is available in case of power failure or low voltage.
- Opening and closing force is automatically learned for optimal performance.
- Features a steel sectional rail with a chain and a rail with a belt (3.9-meter rail with 3 passes).



RESIDENTIAL GARAGE DOOR OPERATOR

24 V DC

RECOMMENDED ACCESSORIES:



AZ T21W Remote



AZ T22 Remote



AZ PC 10 Photocell



AZ PCW L11 Wireless Photocell



AZ WLKP 17 Wireless Keypad



AZ KS 15 Key Switch



AZ RF WIFI 31 A wifi Module



AZ GSM 30 GSM Module



AZ FL 19 Flash Lamp



AZ GOEM 215 Emergency Manual Release

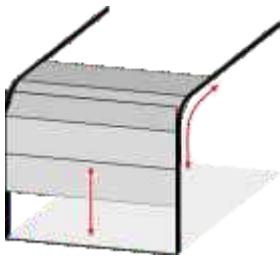


AZ R1 40 External Receiver

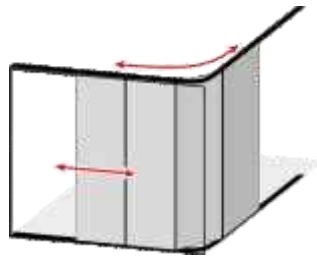


AZ CSVC 217 Car Sun Visor Clip

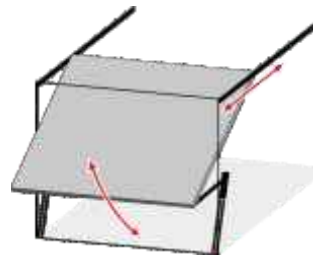
GARAGE DOOR OPERATOR OPENING APPLICATIONS:



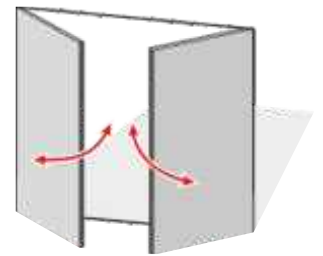
SECTIONAL GARAGE DOORS



SLIDING GARAGE DOORS



UP & OVER RETRACTABLE



SIDE HINGED DOORS

OPTIONAL INTEGRATION:



FACE RECOGNITION



FINGER PRINT



RFID



QR CODE



PASSWORD



IOT



GSM



SAFETY DEVICES



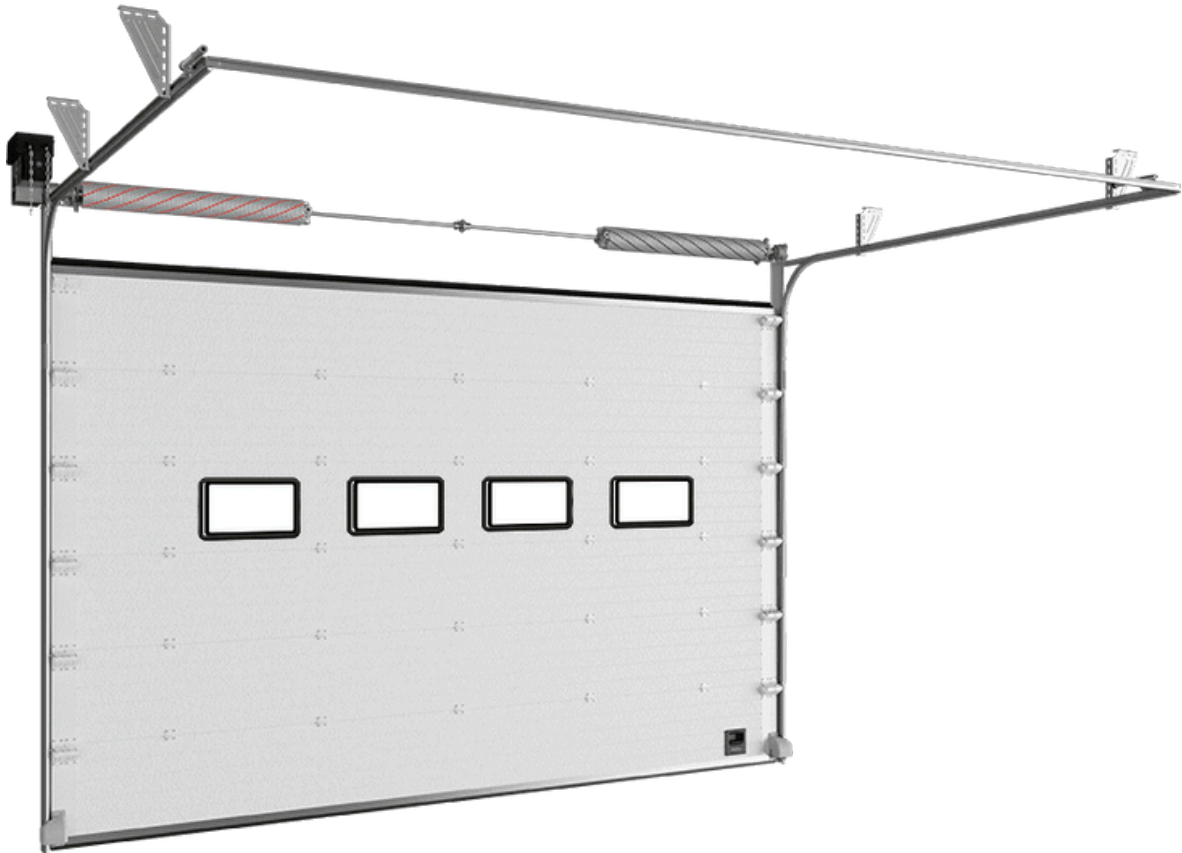
BATTERY BACKUP

TECHNICAL SPECIFICATIONS:	AZGDO210	AZGDO211
Power supply	220 V - 240 V AC	220 V - 240 V AC
Motor power	24V / 120W	24V / 200W
Force	1200N	1800N
Max Door Area	16 Sqm	20 Sqm
Door Height	≥3 m	≥3 m
Running Speed	12-15 cm/s	18cm/s
Remote Distance	≥30 m	≥30 m
Max Recording of transmitter	25 nos	25 nos
Temperature	- 20° C + 50° C	- 20° C + 50° C
Protection class	IP 20	IP 20
Weight	6.5 Kg	7 Kg



INDUSTRIAL SECTIONAL DOOR OPERATOR

220 / 380 V AC



PRODUCT DESCRIPTION:

- The standard electronic limit switch system can be configured through the integrated control unit using any conventional triplex sensing device.
- A powerful gearing system paired with the latest motor technology.
- The system's basic settings can be adjusted to meet individual requirements.
- The electric motor guarantees long-lasting performance, with reduced vibration and noise in all assembly positions.
- Frequency conversion function with smooth start and stop capabilities.
- In case of a power failure, the door can still be manually operated using the chain.



INDUSTRIAL SECTIONAL DOOR OPERATOR

220 / 380 V AC

RECOMMENDED ACCESSORIES:



AZ MRS 68
Microwave Sensor



AZ RFPC 43
reflector Photocell



AZ RFPC 417M IP
reflector Photocell



AZ LSEC 46
Series Light curtain Sensor



AZ LB 33
Loop Detector



AZ HSD BES 64
Safety Edge
Sensor



AZ PB 16 A
Push button



AZ PB IP 65
Water Proof Push
button



AZ SLD TLS 73
Wired Touch
less Sensor



AZ AF LAC 19A
Alarm Flash Lamp

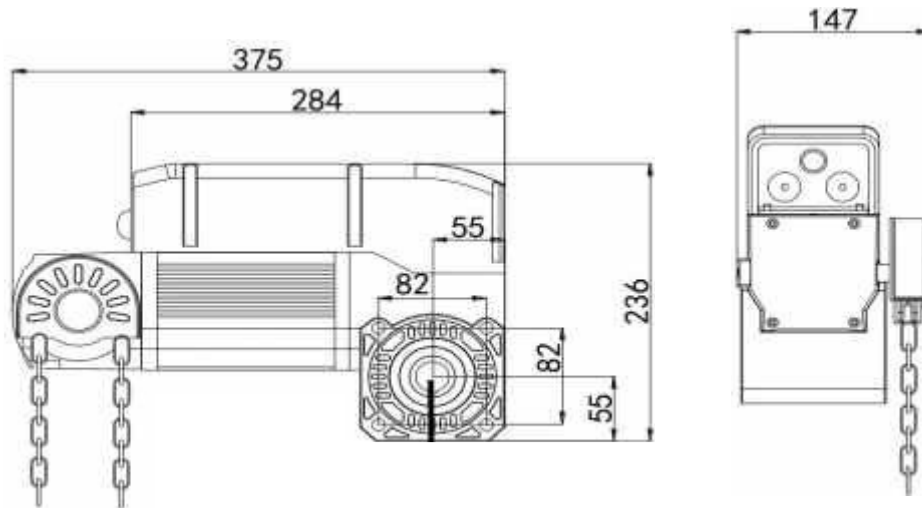


AZ FL 19
Flash Lamp



AZ SL 12
Signal Light

MACHINE CORE STRUCTURE:



OPTIONAL INTEGRATION:



FACE
RECOGNITION



FINGER
PRINT



RFID



QR CODE



PASSWORD



SAFETY
DEVICES

TECHNICAL SPECIFICATIONS:

MODEL	Voltage	MOTOR POWER (KW)	MAX DOOR AREA (Sqm)	TORQUE (Nm)	MOTOR RUNNING TIME	DIA OF OUTPUT SHAFT (Mm)	RUNNING SPEED (r/Min)	WORKING DUTY	PROTECTIVE LEVEL	PRODUCT WEIGHT (Kg)
AZISD40	220 / 380 V AC	370	18	40	25 Min	25.4	24	S2, 20 %	Ip54	13
AZISD60	380 V AC	450	25	60	25 Min	25.4	24	S2, 20 %	Ip54	14
AZISD100	380 V AC	650	35	100	25 Min	25.4	24	S2, 20 %	Ip54	15
AZISD150	380 V AC	800	40	150	25 Min	25.4	24	S2, 20 %	Ip54	16

Our esteemed client list includes

Automobile	Construction	IT Sector	Pharma And Foods	Hotels, Malls, Entertainment	Others
Tata Motor	Rohan	Infosys	Tetra Park	J W Mariott	Sandvik Asia
Bajaj	Ashoka Buildcon	AXA	Nestle	IBIS Hotels	KSB
Mahindra & Mahindra	Devi Construction	Eon IBT Free Zone	Chitale Bandhu	Novotel	Hindalco
Mercedes Benz	Gera Developers	KPIT Cummins	Coca Cola	Reliance Fresh	Kirloskar Brothers
Volkswagan	Ratilal Bhagwandas	Cybage	Corning India	Hotel Ambience	United Cranes
Skoda Auto	Elite Builders	ANSYS	Cipla	Ranka Jewllers	Oriental Rubber
Replus	Panchshil	PTC	Rich Graviss	Hotel New Leaf	Suzion
Flash Electronics	Vascon	Aurion ProSena	Oriental Yeast	Westend Mall	Kirloskar Pneumtaic
Volvo And Eicher	Shimzu Corporation	Expo India	Centaur Pharma	Aeromall	Techera
Harmon	Amanora Park	Magarpatta	Dream Plast	Velankani	Seco Tools
Bridestones	Copration Shimzu	Panchshil	B G Chitale Dairy	Solaris	Bobst India
Bosch	Nyati Group	Birla Soft	Cherry Park		Lifeline Hospitle
SKF	Magarpatta Township	Blue Ridge	Serum Institue		Mahaver Metal
Honeywell Turbo	L&W Construction		PV Son's		Harnex Systems
Piggio	Malpani		Datwyler		Pathera Graphite
Star Engineers	Goel Ganga		Alfa Laval		
GE Stamp	Suroj Buildcon		Drytech		
Motherson	Ulka Projects		Bharat Rubber		
Pinacal Mobility	Bhate Rajee		Tulip Pharma		
Super Auto	Ratnarup		Tastey Bite		
Eka Mobility	Kakkad Construction		Pravin Masale		

Who can benefit from Garage Door



Warehouses & Distribution Centers



Manufacturing Plants



Cleanrooms & Laboratories



Any Business with a Loading Dock



Hospitals & Healthcare Facilities



Airports & Transportation Hubs



Cold Storage & Freezer Rooms



Food & Beverage Industry



OTHER PRODUCT



AUTOMATIC
SLIDING DOOR



HIGH SPEED
DOOR



SECTIONAL
DOOR



ROLLING
SHUTTER



SWING
DOOR



GARAGE
DOOR



DOCK
LEVELER



BOLLARD



SLIDING
GATE



SWING
GATE



RETRACTABLE
GATE



BOOM
BARRIER

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