Specifications of Roll Up Shutter doors for shops, villas, garages, shopping centre outlets, or any building openings.

A) Manual Operated Type

1) Guide Channel – Shutter moves up and down. Made of G.I or Aluminium – 50mm depth, 25mm width and 2mm overall thickness – which will be of mill finish or color powder coated as per customer's requirements.

2) Side Plate – Supports shutter from both sides and holds weight. Made of M.S plate of 3mm thickness size of 30 cm x 30 cm which may be varied according to the height of opening. Normally redoxide coated or as per customer's required color.

3) Roller Drum – Shutter rolls on it while opening. Fabricated with item 4, 5, 6. Makes dia of 200mm.

4) Roller Drum Pipe – Dia- 1 inch Thick.

5) Spring Box – Allows shutter's up and down movements smooth. Made of flat spring steel 45 mm width and thickness 0.6 mm, 0.7 mm, 0.8 mm, 0.9 mm, 1mm, 1.2 mm, 1.5 mm, 1.7 mm according to opening width and height. Spring engaged inside a covering box.

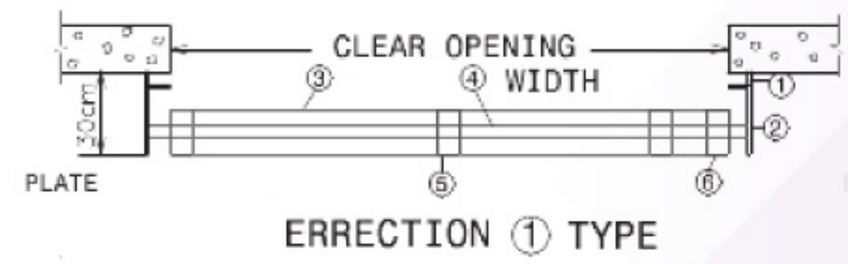
6) Support Ring – Allows balanced rotation of roller drum. 2mm thick GI sheet rolled. 200 mm dia connected with 25 x 6mm M.S flatbar.

7) Shutter Slates – All slates are available in 10 cm centre distance. But in various thickness range 0.6 mm, 0.7 mm, 0.8 mm, 0.9 mm, 1 mm, 1.2 mm in Aluminium. 0.5 mm, 0.6 mm, 0.7 mm, 0.8 mm in G.I.
G.I perforated slates available in 0.8 mm thickness. Vision 80%. Any color may be powder coated according to ral chart. Sample slates available upon request.

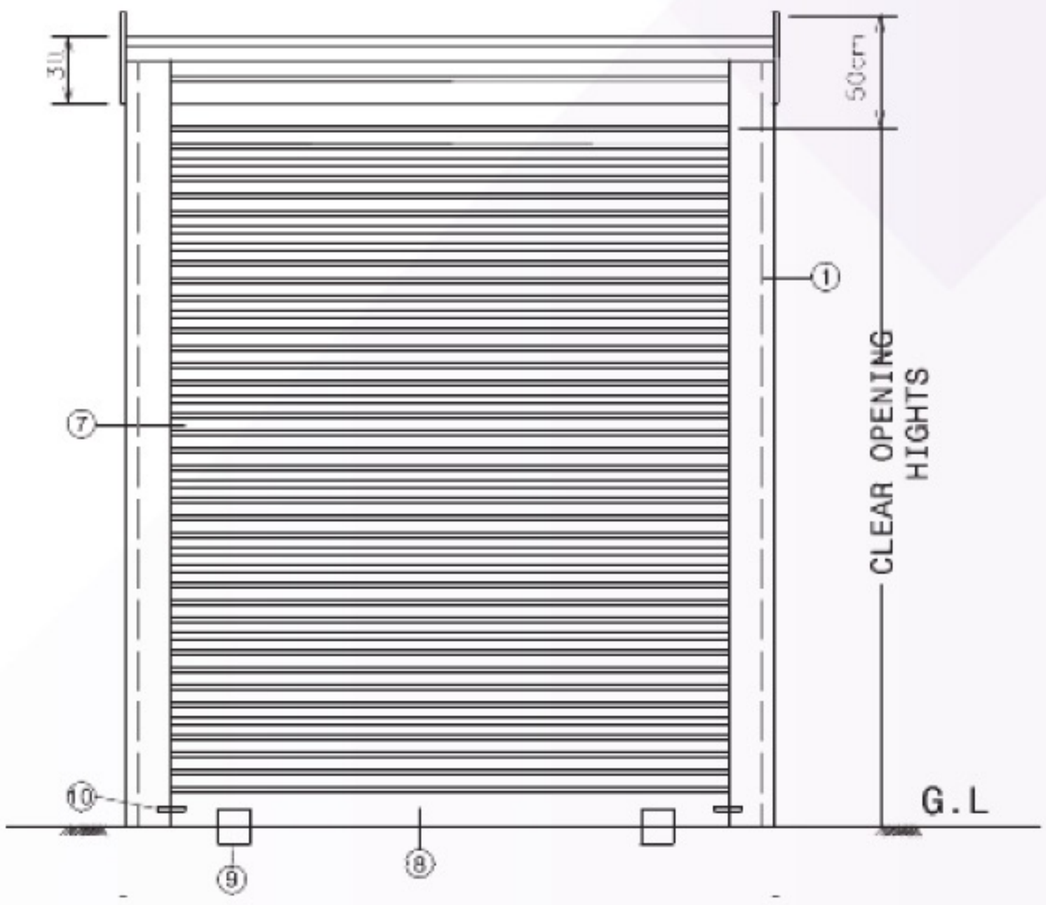
8) Bottom Bar –
Made of Aluminium –
2 mm thickness
Aluminium & Steel angles.

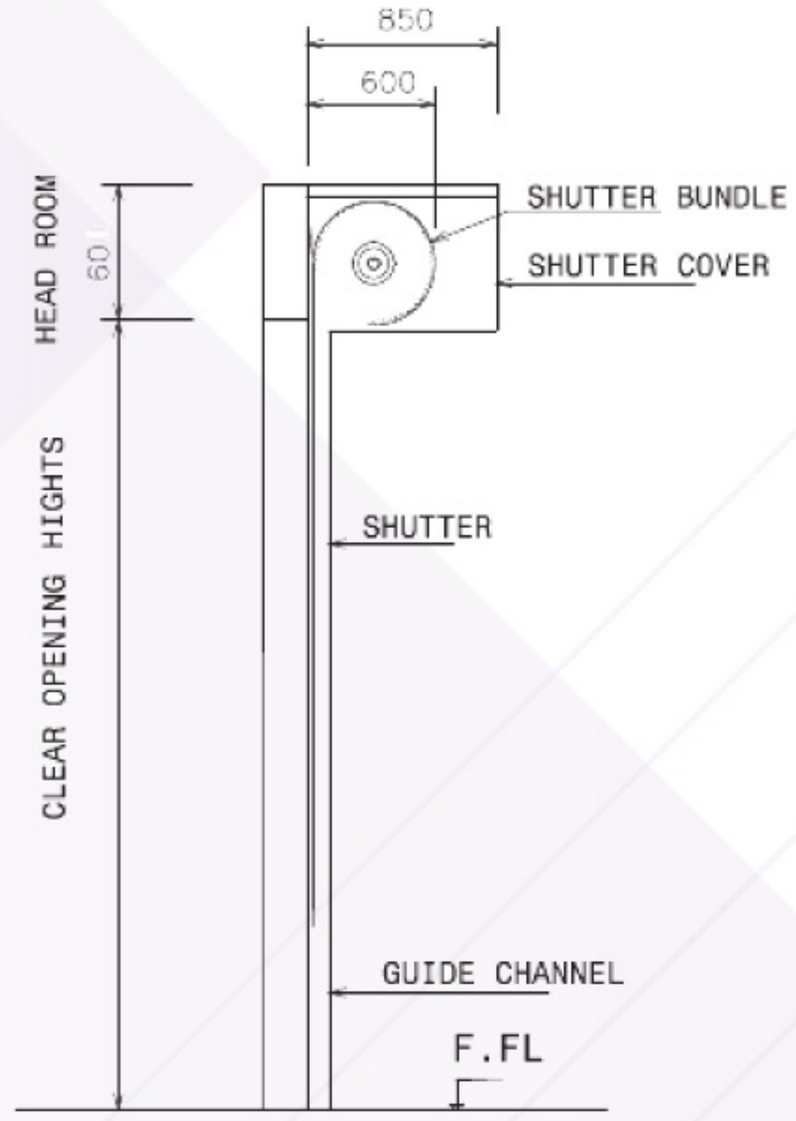
9) Hooks – For lock purposes
M.S. rod fabricated hook, one end on bottom bar other side on ground which can be used for lock.

10) Side Locks – This is fixed up on request. Optional accessories.
Centre lock with key - optional



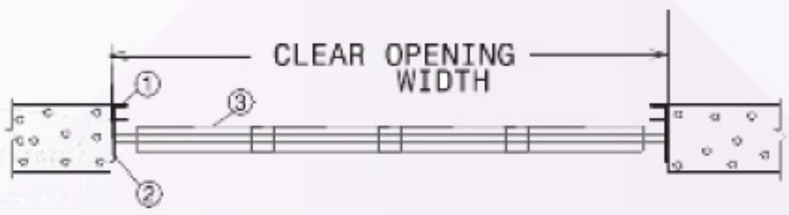
ERRECTION ① TYPE





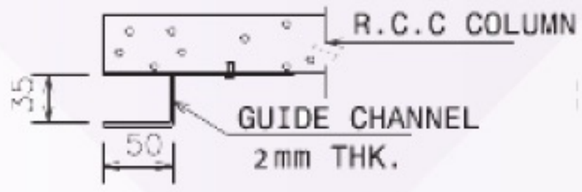
SECTION

MANUAL OPERATED TYPE



ERRECTION ② TYPE

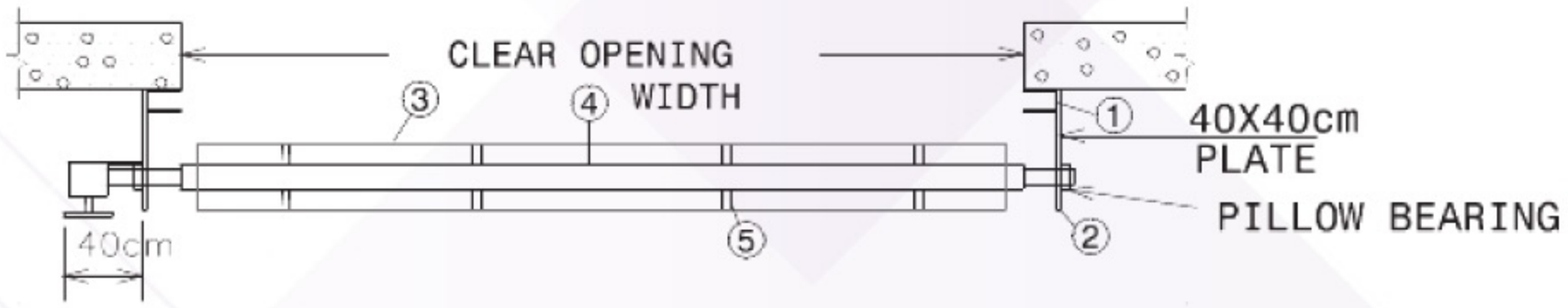
PLAN

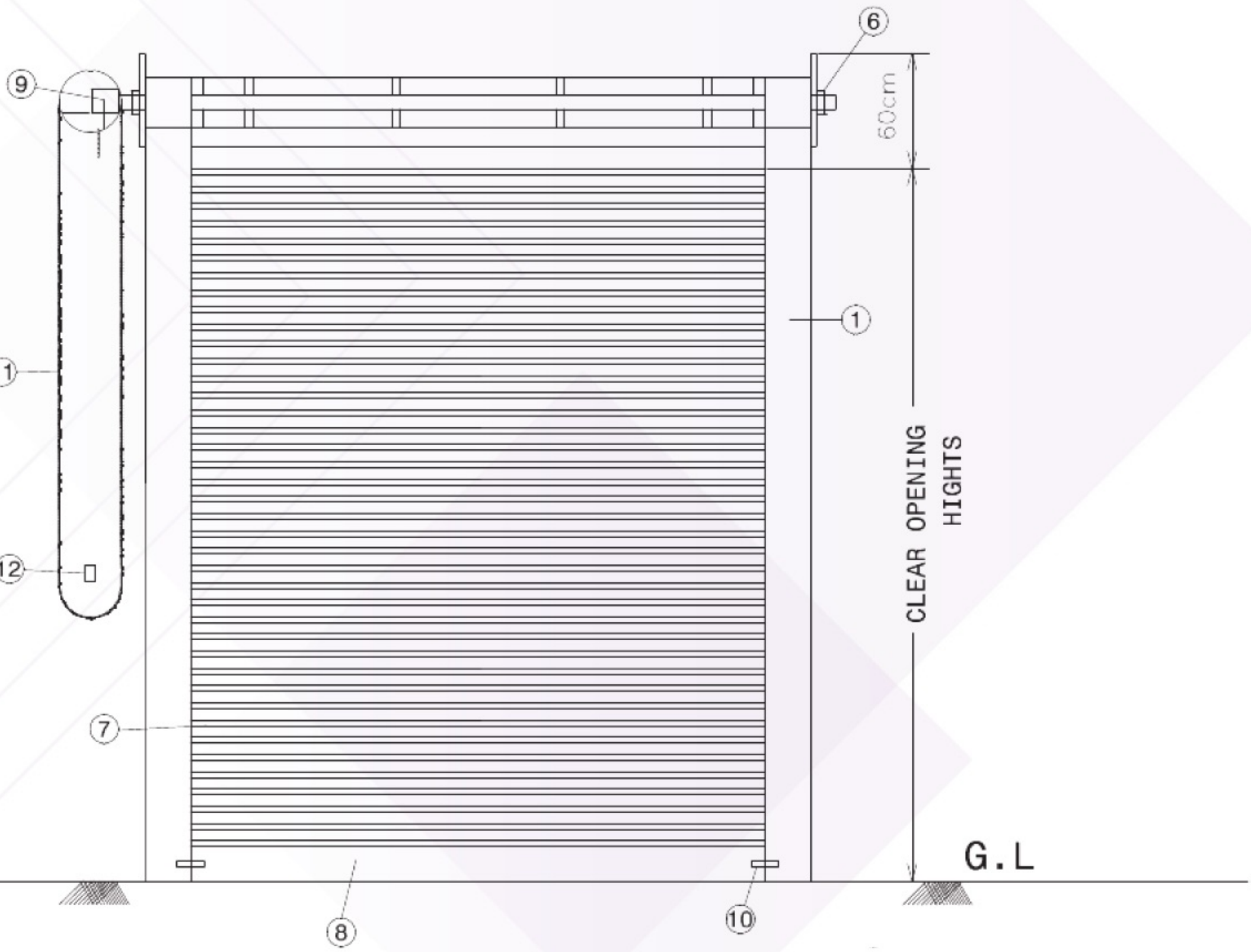


DETAIL –A

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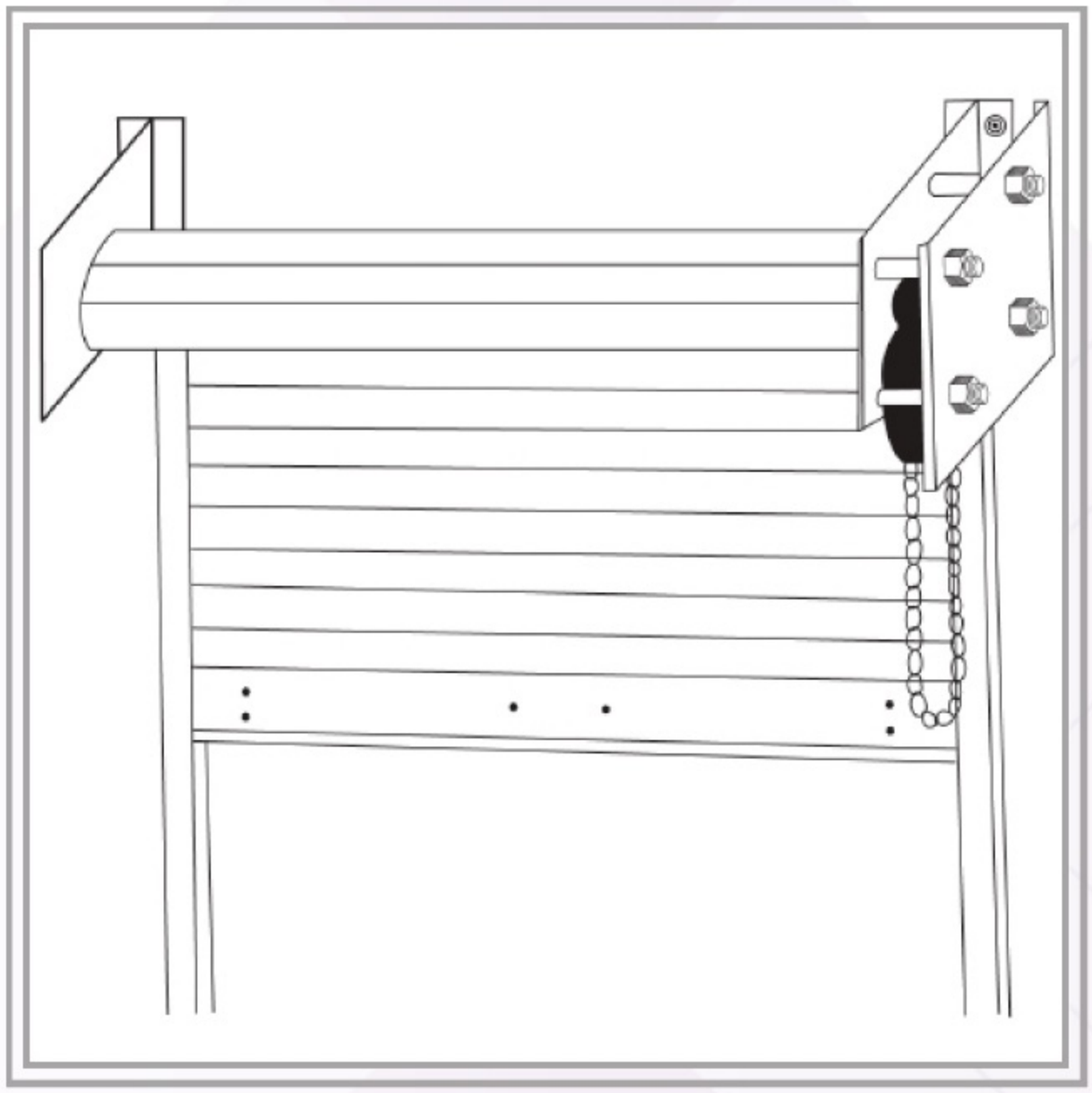
CHAIN PULLY ROLL UP SHUTTERS

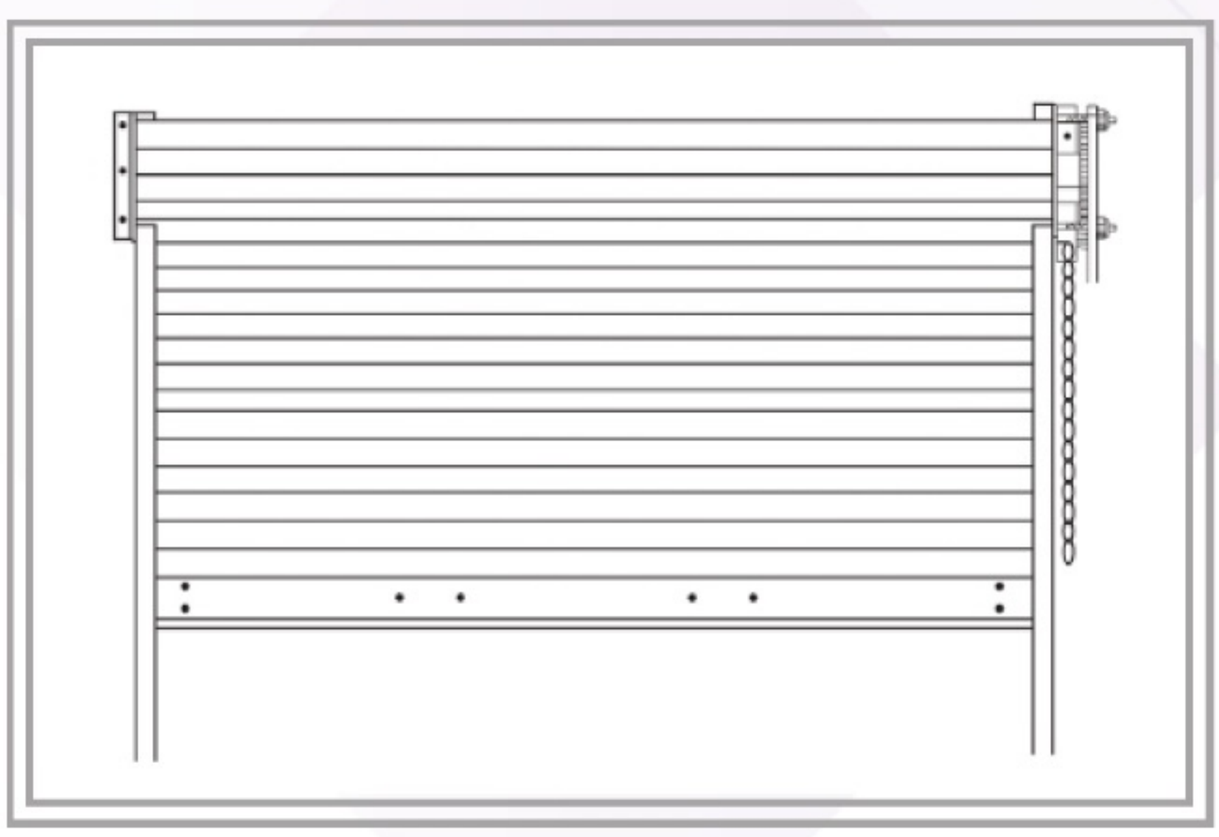




ROLL UP SHUTTERS

MANUALLY OPERATED BY CHAIN PULLY





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B) Chain Pully Roll Up Shutter

1) Guide Channel – Shutter moves up and down. Made of G.I – 60mm depth, 25mm width and 2mm overall thickness – which will be of mill finish or color powder coated as per customer's requirements.

2) Side plate – Supports shutter both sides and holds weight. Made of M.S Plate of 5mm thickness size of 40 x 40 cm. Redoxide coated or powder coated color.

3) Roller Drum – Shutter rolls on ot while opening. Fabricated with item (4) and (5) connected with flat bar 25 x 6 mm

4) Roller drum pipe – 55 dia – 3mm thick. Both ends welded with M.S. Sheets of bearing size.

5) Supports rings

6) Pillow block bearing – Fixed on both side plates.

7) Shutter slates

8) Bottom bar – Steel Angle 2 nos

9) Reducer gear box – Ratio of 20:1 - 10:1. Drives roller drum pipe while chain pulls.

10) Side Locks – This is fixed up on request. Optional accessories.
Centre lock with key - optional

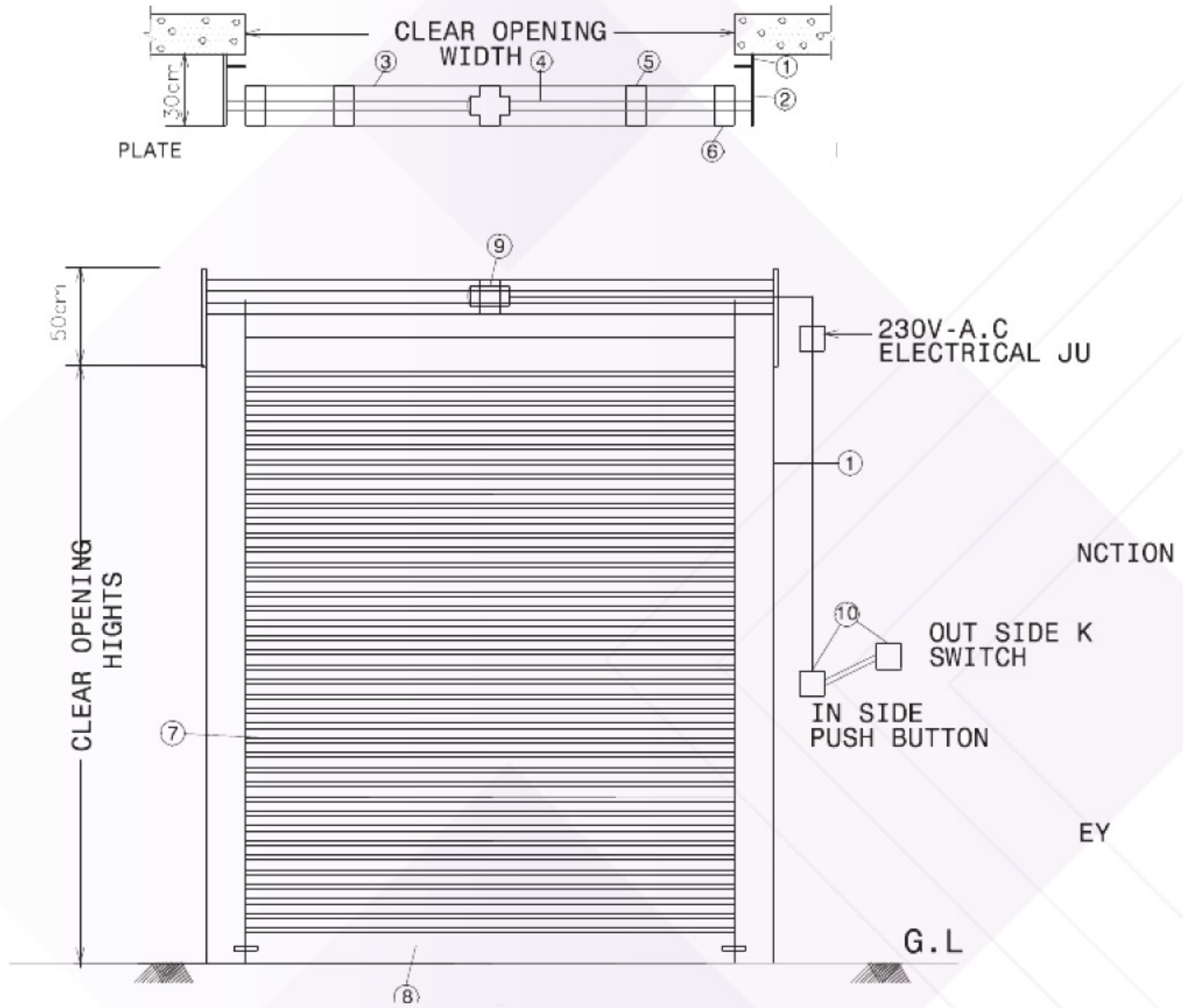
11) Hand chain – For pulling as drive, which rotates chain pully fixed on reducer box.

12) Chain lock hook





CENTRAL MOTOR





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C) Motorized Roll Up Shutter (Central Motor)

1) Guide Channel – Shutter moves up and down. Made of G.I or Aluminium – 50mm depth, 25mm width and 2mm overall thickness – which will be of mill finish or color powder coated as per customer's requirements.

2) Side Plate – Supports shutter from both sides and holds weight. Made of M.S plate of 3mm thickness size of 40 cm x 40 cm which may be varied according to the height of opening. Normally redoxide coated or as per customer's required color.

3) Roller Drum – Shutter rolls on it while opening. Fabricated with item 4, 5, 6. Makes dia of 200mm.

4) Roller Drum Pipe – Dia- 2 inch , Thick 3mm.

5) Spring Box – Allows shutter's up and down movements smooth. Made of flat spring steel 45 mm width and thickness 0.6 mm, 0.7 mm, 0.8 mm, 0.9 mm, 1mm, 1.2 mm according to opening width and height. Spring engaged inside a covering box.

6) Support Ring – Allows balanced rotation of roller drum. 2mm thick GI sheet rolled. 200 mm dia connected with 25 x 6mm M.S flatbar.

7) Shutter Slates – All slates are available in 10 cm centre distance. But in various thickness range 0.6 mm, 0.7 mm, 0.8 mm, 0.9 mm, 1 mm, 1.2 mm in Aluminium. 0.5 mm, 0.6 mm, 0.7 mm, 0.8 mm in G.I. G.I perforation slates available in 0.8 mm thickness. Any color may be powder coated according to ral chart. Sample slates available upon request.

8) Bottom Bar –
Made of Aluminium – 2 mm thickness

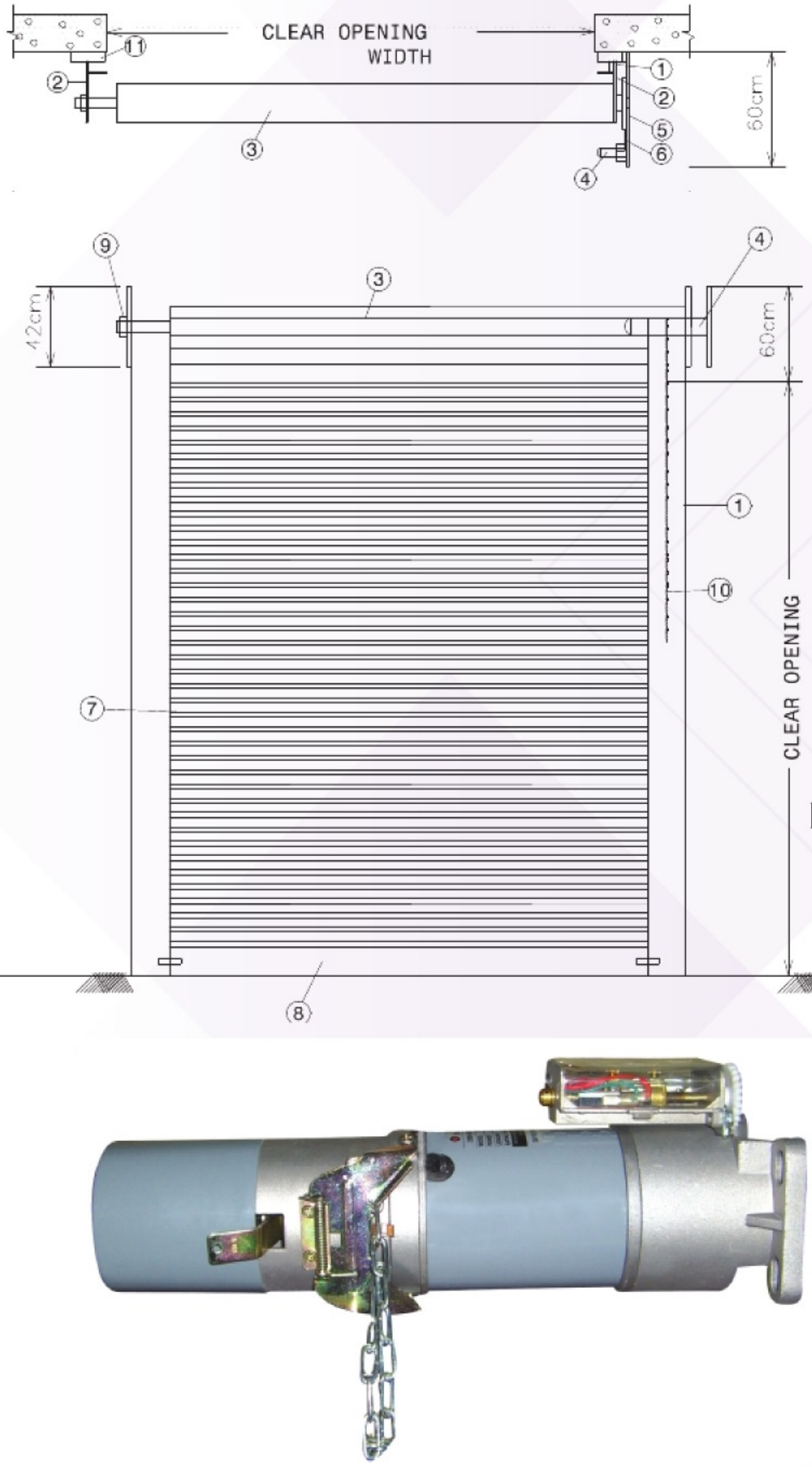
9) Shutter operater motor – Italian make 'Elsamec' brand or French make 'Somfy' brand available. Motor is fixed inside roller drum (3) on pipe (4) in such a way that so compact and noiseless while working. Single and double motor drive available which is applicable according to the size of shutter opening. Power supply – 220 V AC – 15 A. Isolator to be provided by the customer at the point marked 'Electrical Junction'.

10) Control Switch – One key switch is fixed at outside of opening and one push button at inside which are for the control of shutter. Up and down movements are adjustable to the limit required which ensures the move safety.
Remote control is possible with extra fittings of frequency receiver and wireless transmission – optional accessory. There will be brake releaser for manual operation while power fails.

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ROLL UP SHUTTER
MOTORIZED (SIDE MOTOR)



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D) Motorized Roll Up Shutter (Side Motor)

1) Guide channel – Shutter slides on this. 60 mm depth, 25 mm width made of mild steel with overall thickness 2 mm. G.I finish or any color powder coated.

2) Support Plate – Mild steel plates 4mm thickness – 42 cm x 42 cm size.

3) Drum Pipe – Shutter rolls on it. 6" and 4" outer dia, 3mm thickness. Redoxide finished M.S. Pipe.

4) Side motor – Drives shutter. Electrically operated. Either 220 V AC or 380 V AC according to a capacity of motor which varry according to the size of shutter width and height.
300 kg - 500 kg capacity – 220 V AC 1 phase supply.
750 kg - 950 kg capacity – 380 V AC 1 phase or 3 phase supply.

5) Motor plate (Brackets) – Motor fixing on this plate. Also drive sprocket is fixed centre to the drum pipe.

6) Sprocket drive or Gear drive

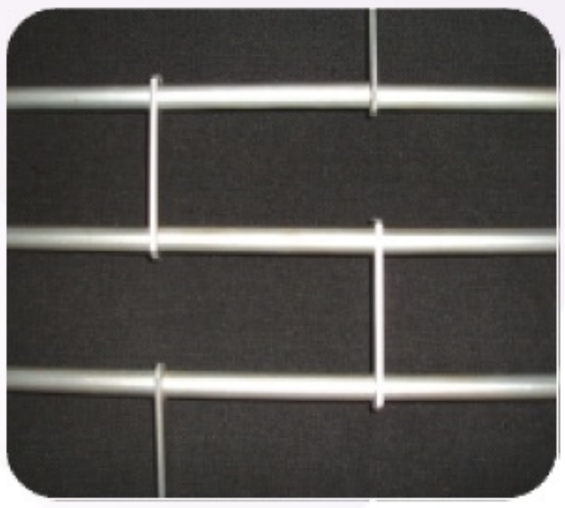
7) Shutter slates

8) Bottom bar – Steel Angle 2 nos

9) Support bearing – 35 mm dia

10) Hand chain – Which can be used for opening by manual operation.

11) Stainless steel switch box – Key switch can be fixed indoor or outdoor for controlling motor up to 4 DN push button switches provided.
Shutter control can be possible wireless remote by fixing sensor and transmitter – optional accessory

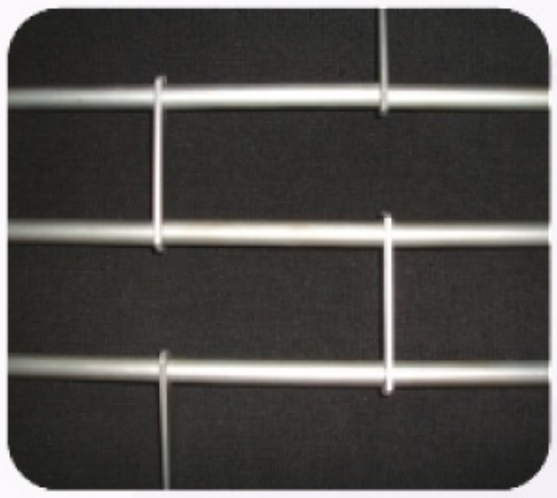

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ALUMINIUM ROLLING GRILL SHUTTER (MOTORIZED)

EXTERNAL FEATURES:

- The aluminum rolling grill shutter has got extra reliability, durability, visibility, and ventilation with extra safety, which is suitable for any location to keep the business display going on even after business hours.
- The grill is made up of aluminium with outer diameter 14mm & inner diameter 11 mm and thickness 1.5mm, which gives it extra strength.
- The Galvanized steel track is of 2.8cm width 2mm thickness and 6cm deep.
- The plastic end locks are of thickness 5mm on both ends of the grill to enhance smooth and noiseless operation of the aluminium grill shutter.
- The standard weight of aluminium grill per square meter size is 5kgs.
- Bottom rail is made up of aluminium and rubber with width 8cm and height 7cm, thickness of 3.3mm.
- The grill connector is made up of aluminium with thickness of 2.8mm and height of 7.5cm.

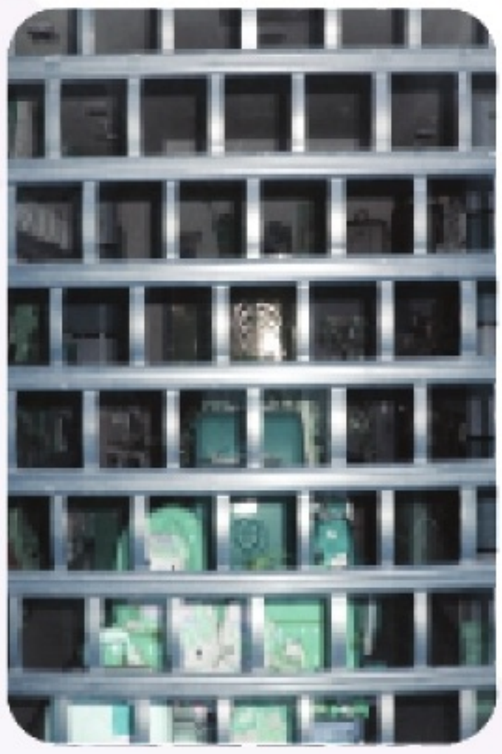

INTERNAL FEATURES:

- The side plate of the box is made up of steel with thickness 3mm and size of the plate is (40x40)cm.
- The shaft is made up of iron with thickness 3.2mm and dia 1" (manual) or dia 4" & 6" (motorized).
- The thickness of the spring coil is 1.5mm. Length of the spring depends up on the size of rolling shutter.
- Depending up on the size of the aluminium grill shutter available brands of motors are:
  - ↳ Italian made "Nice" central motors installed internally with a brake for manual operation installed inside a safe and secured key box.
  - ↳ French made Somfy central motors installed internally with a brake for manual operation installed inside a safe and secured key box.
  - ↳ Side motor installed externally (Right/Left) with a hoist chain for manual operation (as a back up system incase of power failure) can be used for shutters with a size of 40 square meters with weight of 500 up to 950kgs.

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SPECIFICATION:

- **Aluminium Grill**
  Outer diameter=14mm
  Inner diameter=11mm
  Thickness=1.5mm
  Weight/Sq.Meter=5 kgs.



- **Aluminium Grill Connector**
  Thickness=2.8mm
  Height=7.5cm.

- **Plastic End Locks**
  Thickness=3mm.

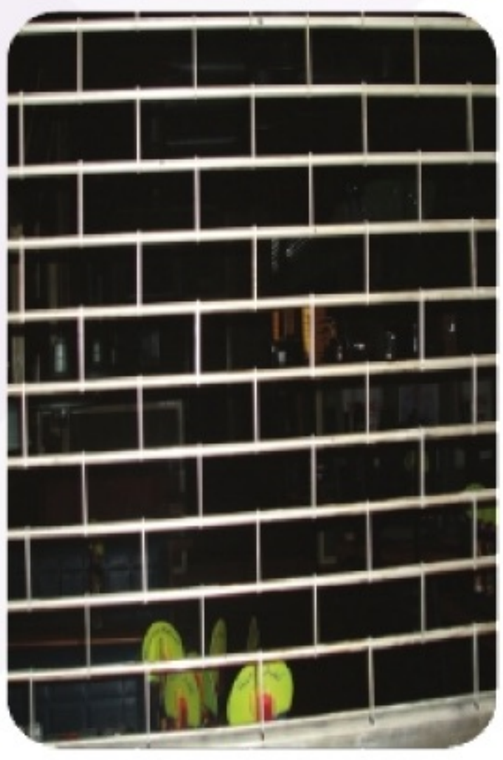
- **Aluminium Bottom Rail with Rubber**
  Width=8cm
  Height=7cm
  Thickness=3.3mm



- **Galvanized Track**
  Thickness=2mm
  Inner depth =6cm
  Width =2.8cm

- **Galvanized Steel Side Plate**
  Thickness = 3mm
  Height x Width =40 x 40cm.

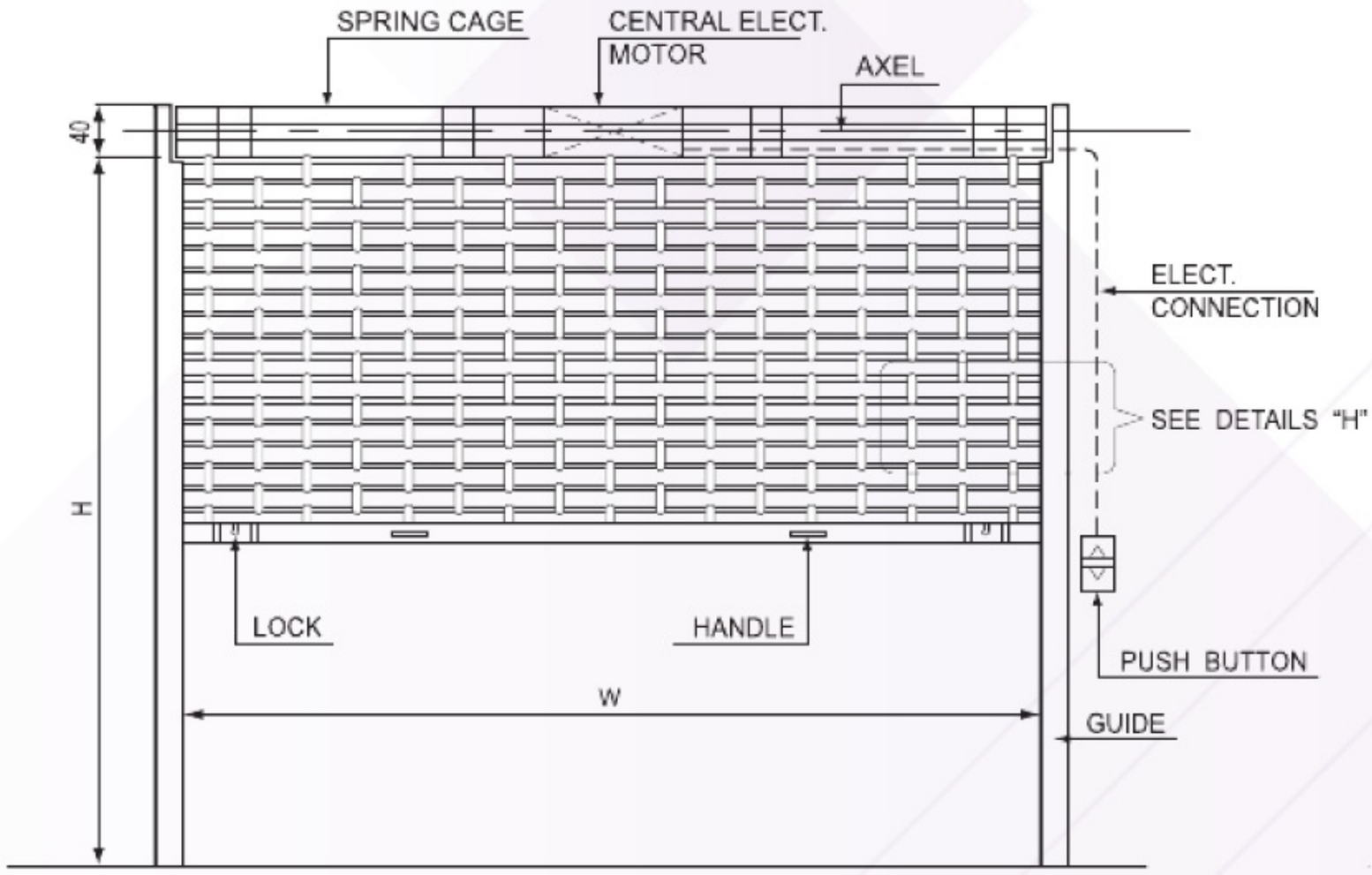
- **Spring**
  Thickness=1.5mm
  Length of the spring depends up on the size of rolling shutter



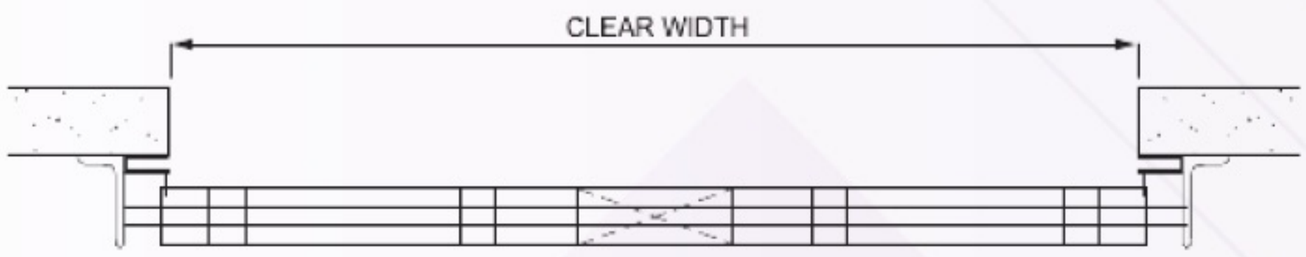
- **Galvanized Steel Cage for Pipe Shaft**
  Thickness=2mm

- **Galvanized Steel Shaft**
  Thickness = 3.2mm
  Diameter = 1", 2", 4" & 4"

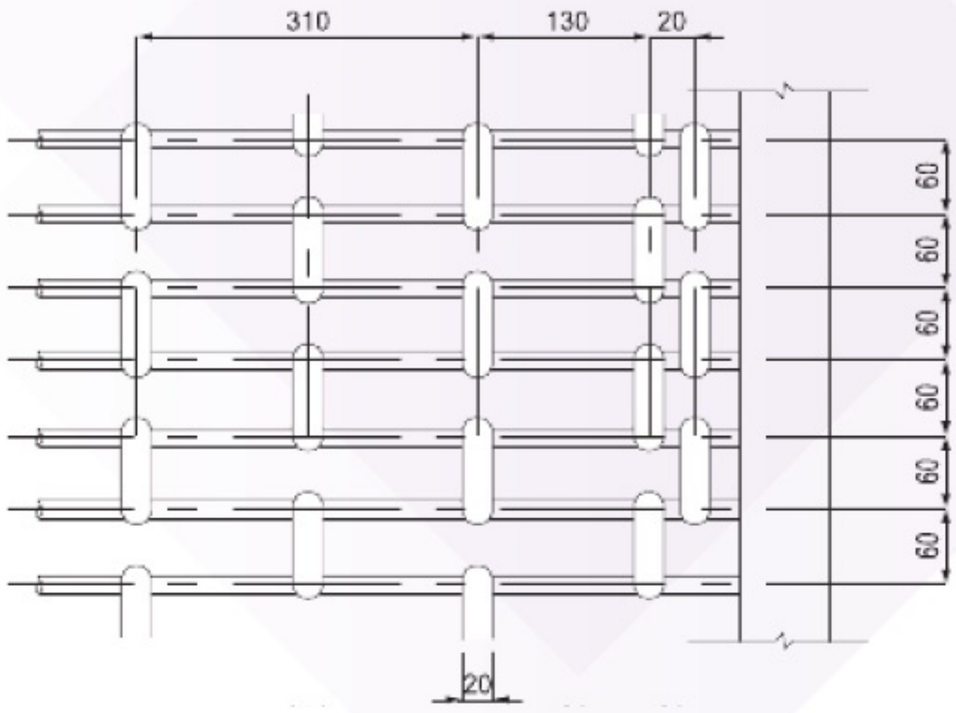
ALUMINIUM ROLLING GRILL SHUTTER (MOTORIZED)



ELEVATION



PLAN

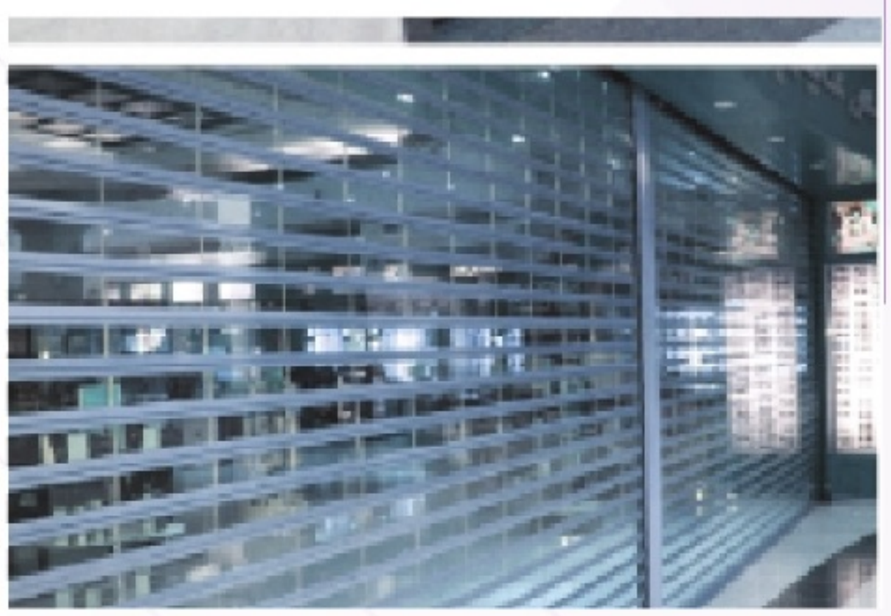


DETAIL "H"

Door sizes are available up to a maximum of 3500 mm. Wide by 3500 mm. Height for push-up and central motor operated a maximum 4000mm. Wide by 4000mm. Height for crank and chain operated.

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POLY CARBONATE ROLLING SHUTTER (MOTORIZED)







USAGE: To secure residences factories shopping centers

EXTERNAL FEATURES:

- The Poly carbonate rolling shutter has got extra reliability, visibility with extra safety, which is suitable for any kind of location to keep the business display going on even after the business hour and due to its beautiful colors it gives a pleasant look your house interior.
- The door panel is made up of small pieces of poly carbonate rectangles which is strong as steel but shape like transparent glass where you can see cross with size of each rectangles
  (30cm x 10cm) and thickness (0.4mm) which gives it extra strength.
- The bottom rail is made up of aluminum width 8cm and thickness 3mm and height 7cm with folded edges to avoid to and fro motion.
- The bottom rail is provided with the rubber width 4.5cm to prevent the dust and insects to go in.
- The track is made of galvanized steel with thickness 2mm inner depth 4cm and width 4cm, which gives it enough strength.
- It can be available in any color as per request.
- The tracks are provided with PVC strips inside to ensure smooth operation and low noise (An audible contribution to better living environment).
- The shutter curtain is made of high quality aluminum with reinforced interlocking groves and advanced designed cut interlocking transparent polycarbonate panels Furnishing available in any color upon request.

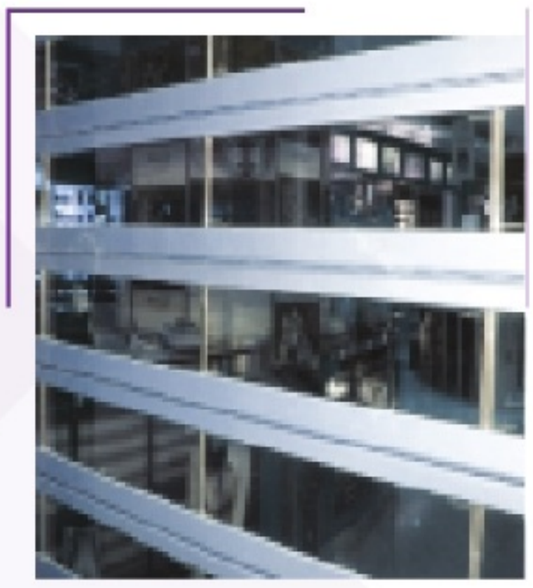
INTERNAL FEATURES:

- The side plate of the box is made of steel with thickness of 3mm and size of box (40x40)cm .
- The shaft is made of galvanized steel with thickness 3.2mm and diameter 1", 4" & 6".
- The spring thickness is 1.5mm only for centre motor, length of the spring depends up on the size of rolling shutter.
- Galvanized steel cage for pipe shaft, spring motor assembly thickness is 2mm.
- Available brands of motors are:
  - ↳ Italian made "Nice" central motors installed internally with a brake for manual operation installed inside a safe and secured key box.
  - ↳ French made Somfy central motors installed internally with a brake for manual operation installed inside a safe and secured key box.
  - ↳ Side motor installed externally (Right/Left sides) with a hoist chain for manual operation can be used for shutters with a size of 40square meters with weight of 500 up to 950 kgs.

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SPECIFICATION:

- **Shutter panel**
  Thickness = 0.4mm
  Width = 30cm
  Height = 10cm
  Weight/Sq.Meter = 10kgs.



- **Bottom rail**
  Width = 8cm
  Height = 7cm
  Thickness = 3mm
  Rubber width = 4.5cm



- **Galvanized track**
  Thickness = 2mm
  Inner depth = 4cm
  Width = 4cm
  Height = 4cm



- **Galvanized steel side shaft**
  Thickness = 3.2mm
  Diameter= 1 inch

- **Galvanized steel shaft**
  Thickness 3.2mm
  Diameter= 1 inch

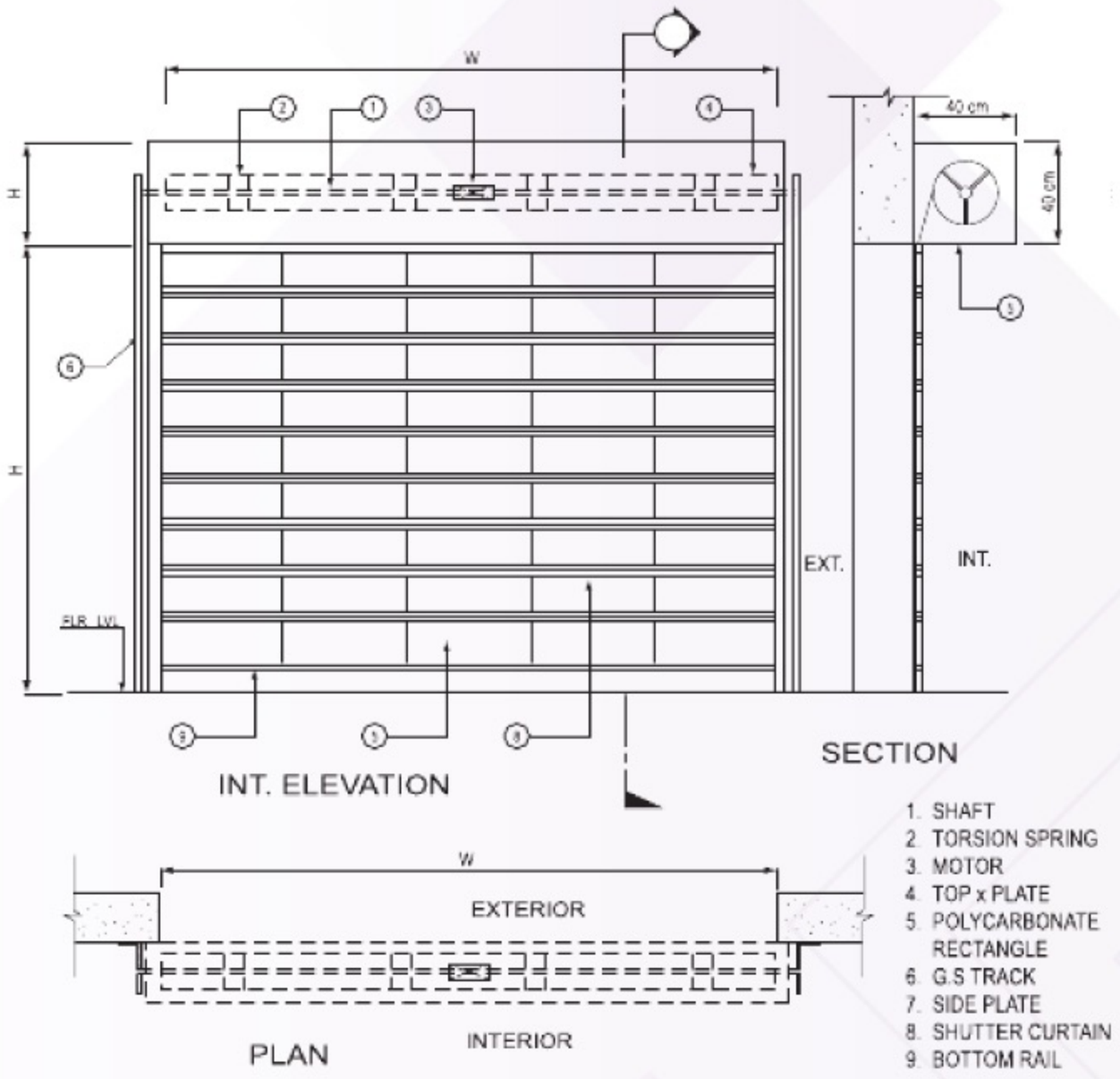


- **Galvanized steel cage for pipe shaft**
  Thickness = 2mm
  Spring Thickness = 1.5mm
  Length of the spring depends up on the size of polycarbonate rolling shutter.

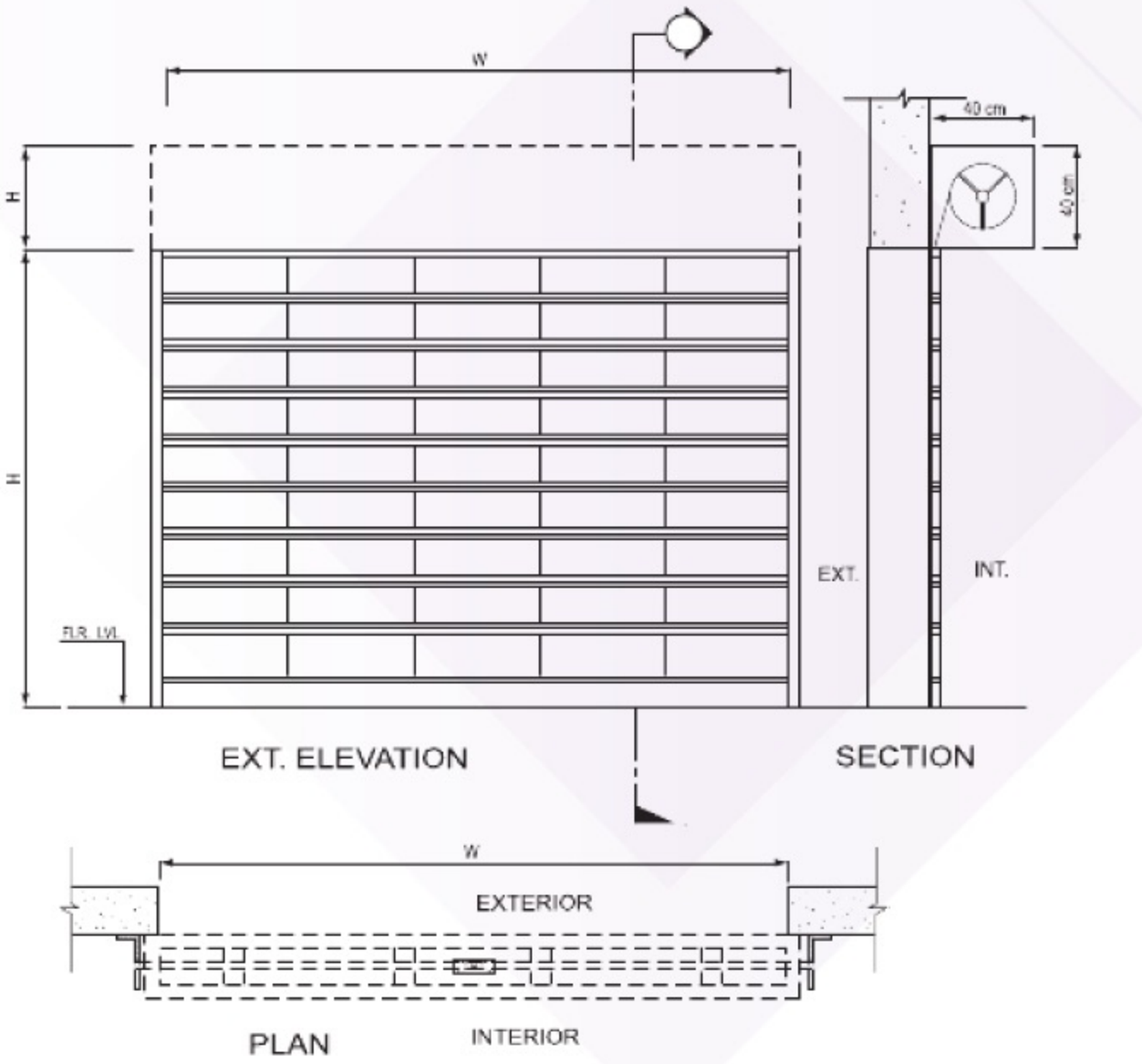
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POLY CARBONATE ROLLING SHUTTER (MOTORIZED)



1. SHAFT
2. TORSION SPRING
3. MOTOR
4. TOP x PLATE
5. POLYCARBONATE RECTANGLE
6. G.S TRACK
7. SIDE PLATE
8. SHUTTER CURTAIN
9. BOTTOM RAIL



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PERFORATED ROLLING SHUTTER (MOTORIZED)







Perforated shutters are shutters with (80%) perforation area, which gives it a beautiful shape and makes it useful to keep your business display going on even after business hours and for warehouse and industries to enhance proper ventilation by using (25%) perforation area.

EXTERNAL FEATURES:

- The shutter slats are made up of galvanized steel with width 10cm and thickness 0.8mm and are available with 80% ventilation holes which makes it useful both commercially as well as industrially and mostly in warehouses/stores with heights.
- These galvanized steel slats have got a good locking grip to keep them tied to one another.
- Manual operation with hoist chain is possible for shutters.
- The galvanized steel track is of 2.8cm width, 2mm thickness, & 5cm deep.
- The plastic end locks are of thickness 5mm and height depending upon the shutter height is fixed on both ends of shutter slates to enhance smooth and noiseless operation of the shutter.
- The shutter slats are strong, reliable, and durable and rust proof.
- The standard weight of the shutter slats is 8kgs/Sq.M
- Bottom rail is made up of aluminum with width 3cm and height 12cm and thickness of 2mm.

INTERNAL FEATURES:

- The side plate of the box is made of steel with thickness of 3mm and size of box (40x40) cm.
- The shaft is made of galvanized steel with thickness 3.2mm and diameter 1", 2", 4" & 6".
- The spring has got thickness of 1.5mm. The length depends up on the size of rolling shutter.
- The available colors are: All colors (available from the color chart of Jotun).
- Depending up on the size of the shutter available brands of motors are:

↳ Italian made "Nice" central motors with a brake for manual operation installed inside a safe & secured key box.

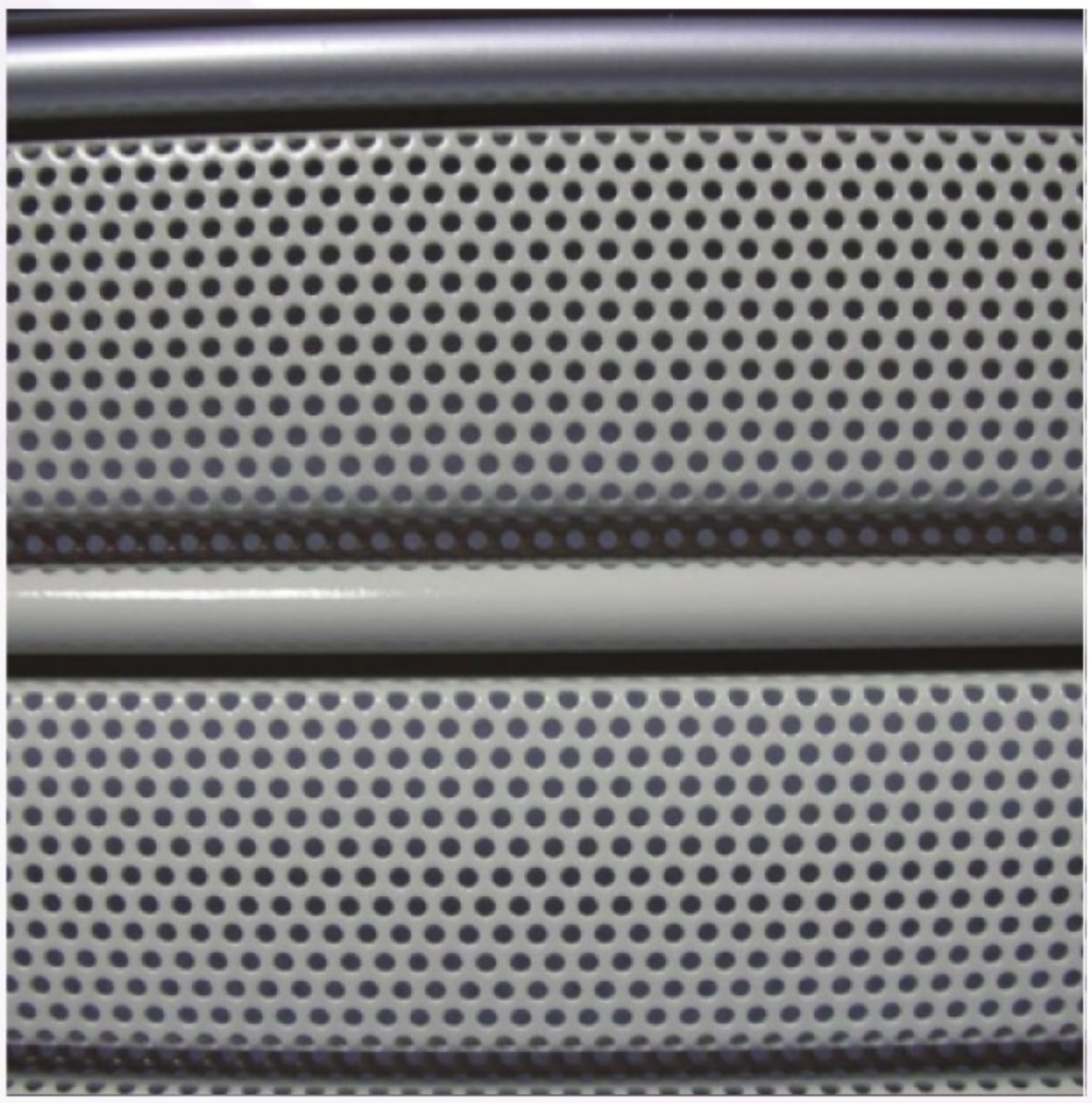
↳ French made Somfy central motors installed internally with a brake for manual operation installed inside a safe & secured Key box.

↳ Side motors installed externally (Right/Left) with a hoist chain for manual operation can be used for shutters with a size 40 square meters with weight of 500 to 600Kgs

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SPECIFICATION:

- **Galvanized Shutter Slat**
  Thickness = 0.8mm
  Width = 10cm
  Weight/SQ.METER = 8kgs



- **Plastic End Locks**
  Thickness=5mm

- **Galvanized Bottom Rail**
  Width = 3cm
  Height =12cm
  Thickness = 2mm

- **Galvanized Track**
  Thickness = 2mm
  Inner depth = 5cm
  Width = 2.8cm





- **Galvanized Steel Side Plate**
  Thickness = 4mm
  Height x Width = 40 x 40cm

- **Spring**
  Thickness = 1.5mm
  Length of the spring depends up on the size of rolling shutter.



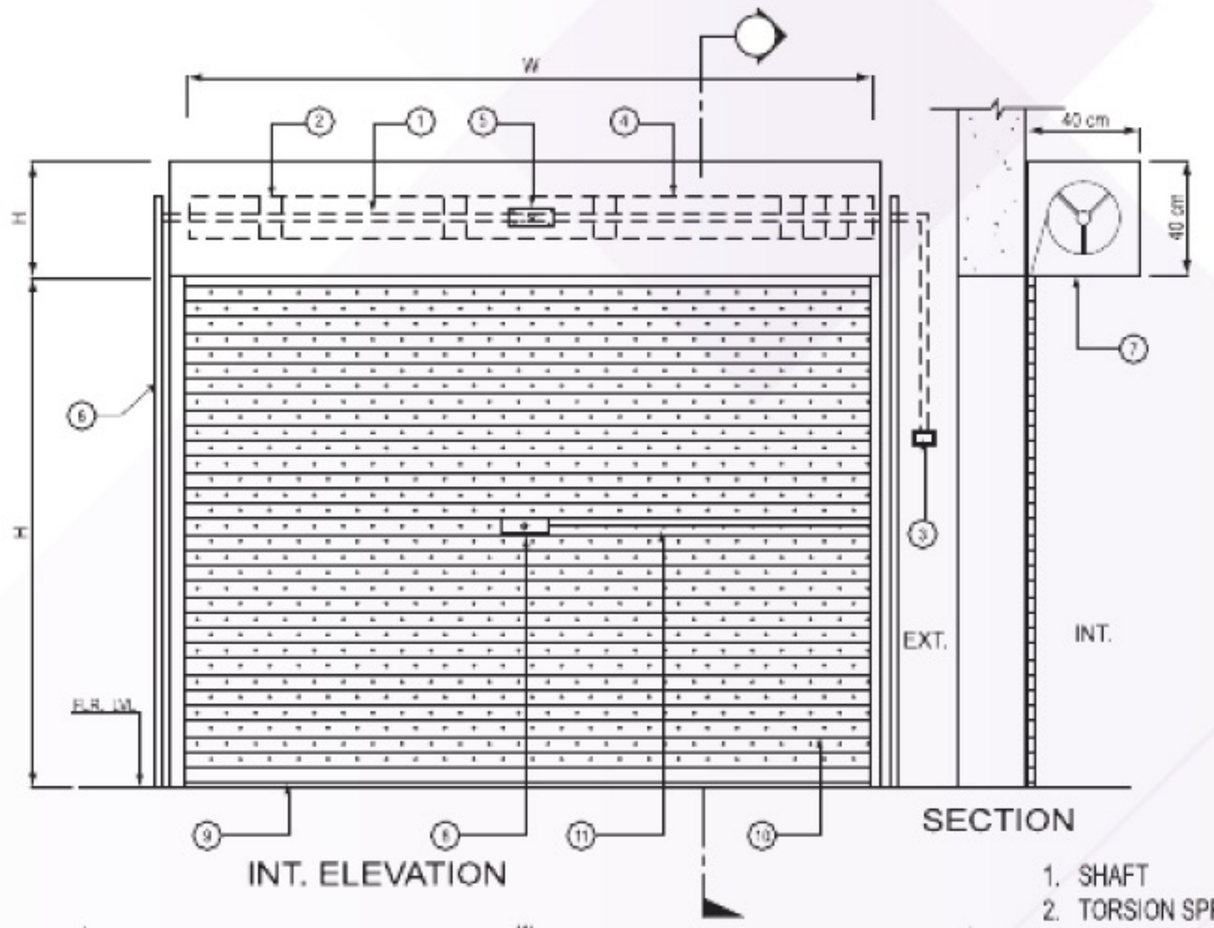
- **Galvanized Steel Cage for Pipe Shaft**
  Thickness = 2mm

- **Galvanized Steel Shaft**
  Thickness = 3.2mm
  Diameter = 1", 2", 4" & 6"

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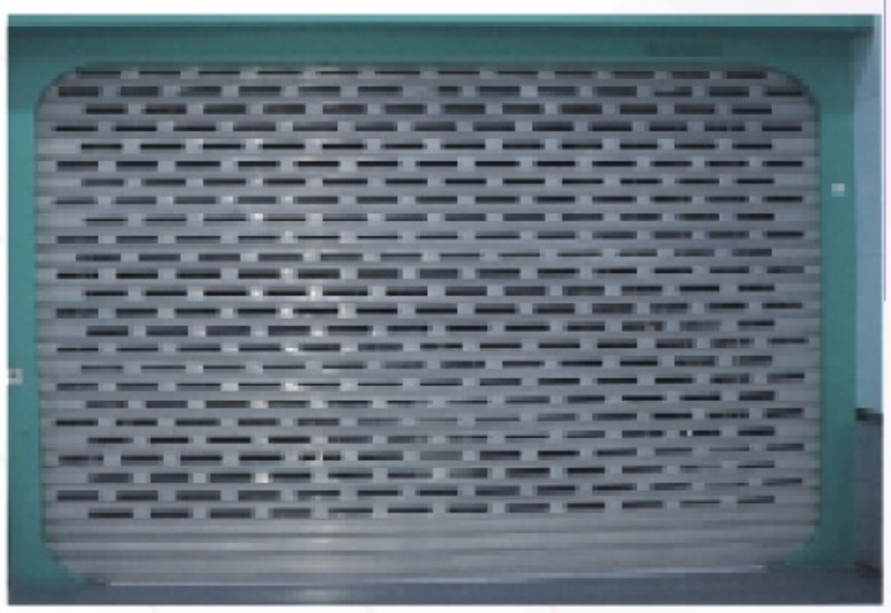
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PERFORATED ROLLING SHUTTER (MOTORIZED)

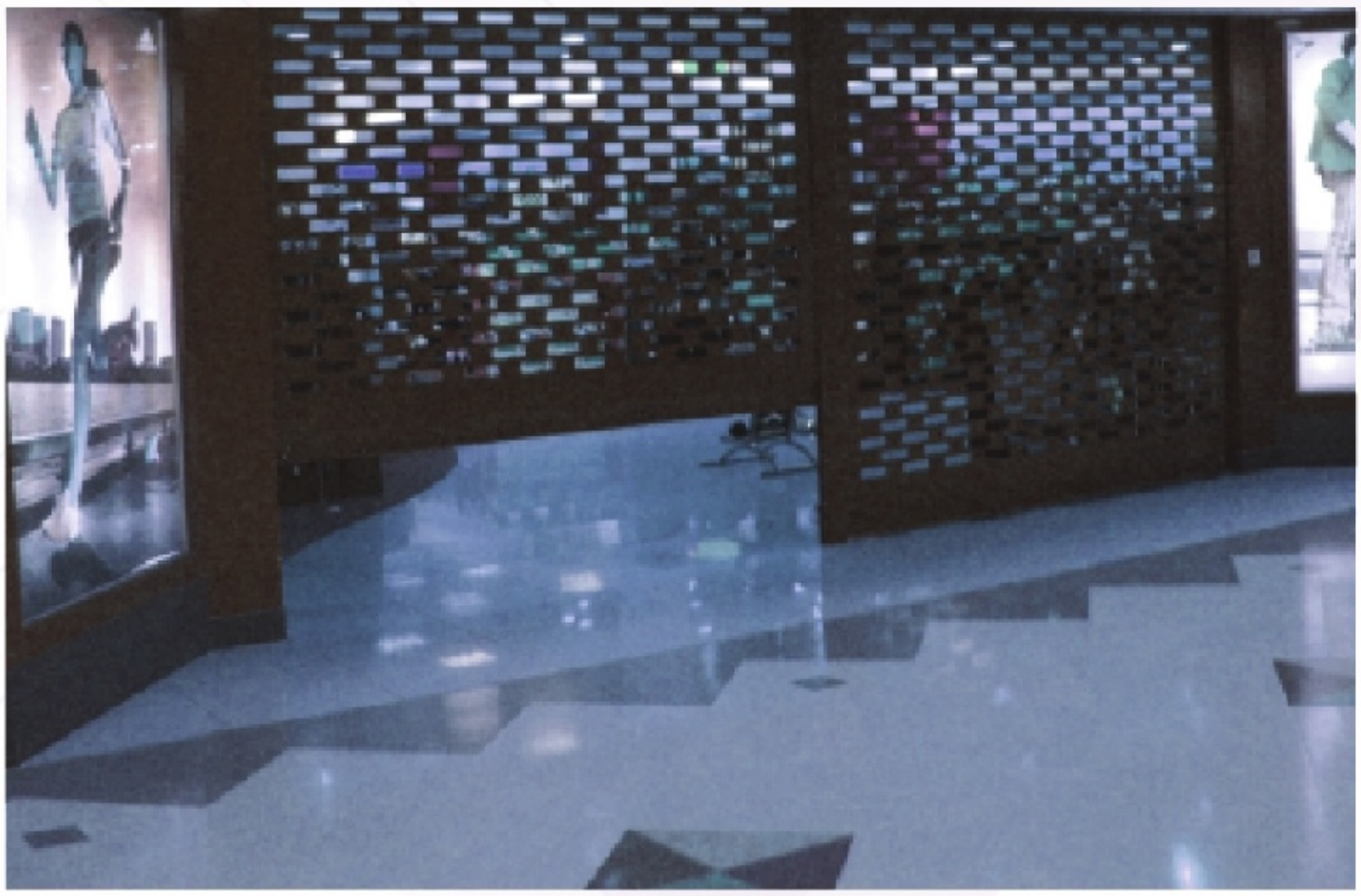


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ROLLING SHUTTER VISION PANEL (MOTORIZED)







EXTERNAL FEATURES:

- The shutters slats are made up of aluminium with width 10cm and thickness 0.7mm to 1.5mm are available with and without ventilation holes which makes it useful both commercially as well as industrially and mostly in warehouses/stores with long heights.

- These aluminium slats have got a good locking grip to keep them tied to one another.

- Manual operation with hoist chain (as a back up system incase of power failure) is possible for shutter.

- The galvanized steel track is of 2.8cm width, 2mm thickness and 5cm deep.

- The plastic end locks of thickness 5mm and height depending upon the shutter height is fixed on both ends of slats to enhance smooth and noiseless operation of the shutter. Also plastic end locks are fixed on each shutter slat to enhance smooth and noiseless operation.

- The thickness of the paint is 0.25micro meter inside and 0.5micro meter outside.

- The shutter slats are strong, reliable, and durable and rust proof.

- The standard weight of the shutter slats with out ventilation holes of one square meter size is 9.5kgs and with ventilation holes is 7.5kgs.

- Bottom rail is made up of aluminium with width.

THE VISION PANELS ARE AVAILABLE FOR VENTILATION PURPOSE

INTERNAL FEATURES:

- The side plate of the box is made of steel with thickness of 3mm and size of box (40x40) cm.

- The shaft is made of galvanized steel with thickness 3.2mm and diameter 1 inch's.

- The spring thickness is 8mm length of the spring depends up on the size of rolling shutter.

- The available colors are – all color (available from the color chart of Jotun).

- Galvanized steel cage for pipe shaft, spring motor assembly thickness is 2mm.

- Available Brands of Motors are:

  ↳ Italian made "Nice" central motors with a brake for manual operation installed inside a safe & secured key box.

  ↳ French made Somfy central motors installed internally with a brake for manual operation installed inside a safe and secured key box.

  ↳ Side motors installed externally (Right/Left sides) with a hoist chain for manual operation can be used for shutters with a size of 40 square meters with weight of 500 to 600 Kgs.

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SPECIFICATION:

- **Aluminium Shutter Slat**
  Thickness = 0.7mm to 1.5mm
  Thickness paint (Inside)=0.25 Micro meter
  Thickness paint (Outside)=0.5 Micro meter
  Weight/Sq.Meter=7.5 Kgs to 12 Kgs.



- **Plastic End Locks**
  Thickness=5mm inside
  Thickness=10mm outside

- **Aluminium Bottom Rail**
  Width=3 cm
  Height=12 cm
  Thickness = 2 mm



- **Galvanized Track**
  Thickness = 2 mm
  Inner depth = 5 cm
  Width = 2.8 cm

- **Galvanized Steel Side Plate**
  Thickness = 4 mm
  Diameter = 1 inch's

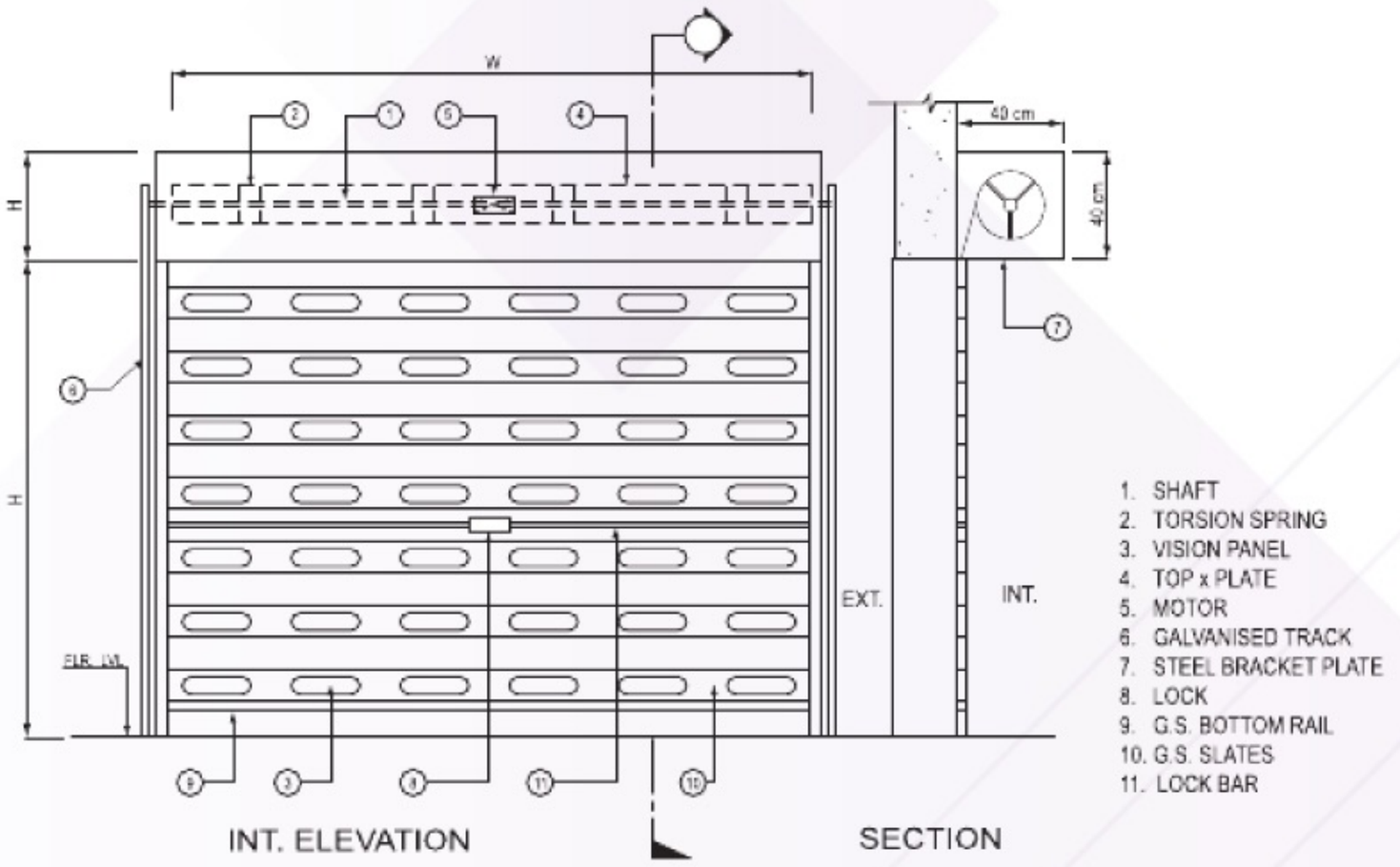
- **Shaft**
  Thickness = 8mm
  Diameter = 1 inch's

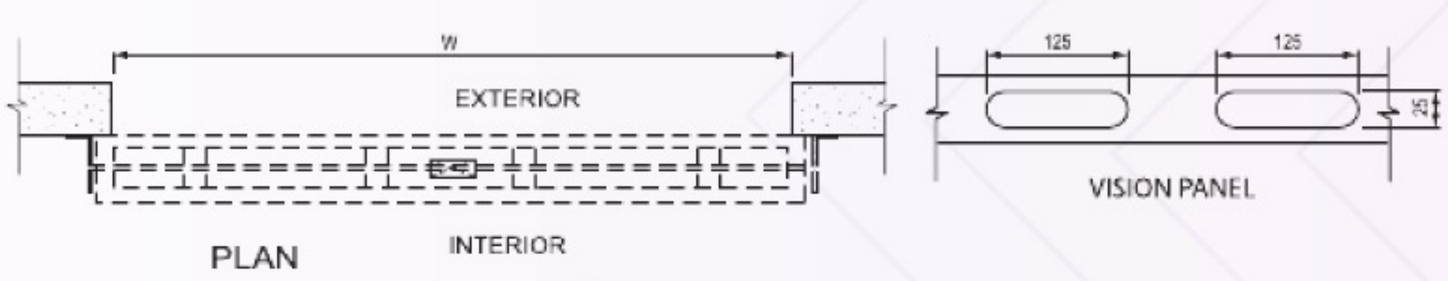


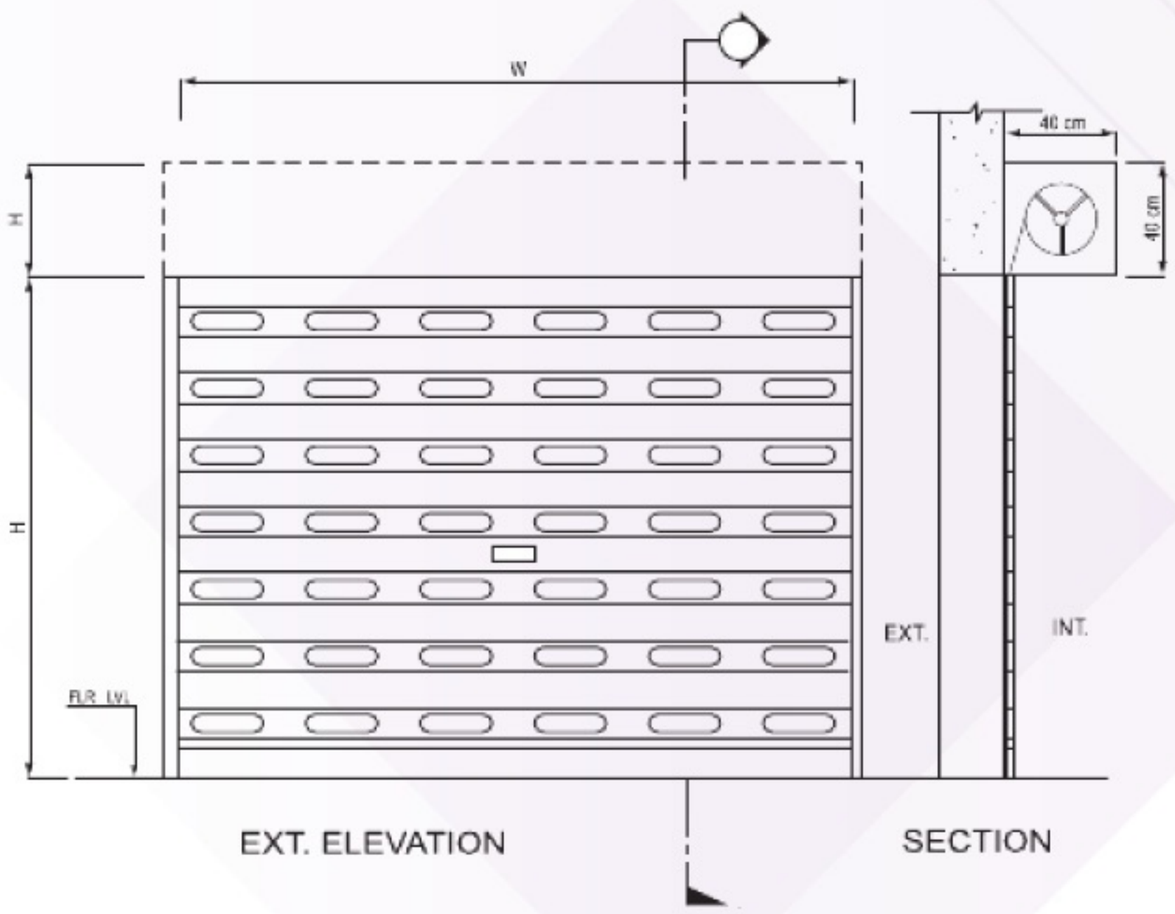
- **Spring**
  Thickness = 8 mm
  Length of the spring depends upon the size of rolling shutter.

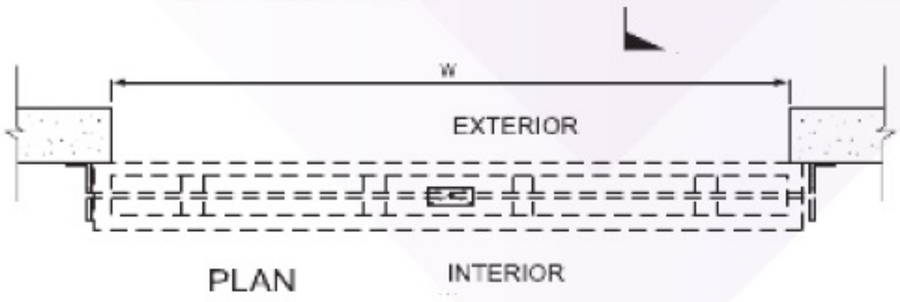
- **Galvanized Steel Cage for Pipe Shaft**
  Thickness = 2 mm
  Vision panel
  Length = 125 mm
  Width = 25 mm

ROLLING SHUTTER VISION PANEL (MOTORIZED)









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GALVANIZED (G.I) ROLLING SHUTTER (MOTORIZED)







EXTERNAL FEATURES:

- The shutter slats are made up of galvanized steel with width 10cm and thickness 0.8mm which makes it useful both commercially as well as industrially and mostly in warehouses/stores with heights.
- These galvanized steel slats have got a good locking grip to keep them tied to one another.
- Manual operation with hoist chain is possible for shutters.
- The galvanized steel track is of 2.8cm width, 2mm thickness, & 5cm deep.
- The plastic end locks are of thickness 5mm and height depending upon the shutter height is fixed on both ends of shutter slates to enhance smooth and noiseless operation of the shutter.
- The shutter slats are strong, reliable, and durable and rust proof.
- The standard weight of the shutter slats is 8kgs.
- Bottom rail is made up of aluminium or angle with width 3cm and height 12cm and thickness of 2mm.

INTERNAL FEATURES:

- The side plate of the box is made of steel with thickness of 3mm and size of box (40x40) cm.
- The shaft is made of galvanized steel with thickness 3.2mm and diameter 4" & 6".
- The spring has got thickness of 1.5mm. The length depends up on the size of rolling shutter.
- The available colors are: All colors (available from the color chart of Jotun).
- Depending up on the size of the shutter available brands of motors are:
  - ↳ Italian made "Nice" central motors with a brake for manual operation installed inside a safe & secured key box.
  - ↳ French made Somfy central motors installed internally with a brake for manual operation installed inside a safe & secured Key box.
  - ↳ Side motors installed externally (Right/Left) with a hoist chain for manual operation can be used for shutters with a size 40 square meters with weight of 500 to 600Kgs

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SPECIFICATION:

- **Galvanized Shutter Slat**
  Thickness = 0.8mm
  Width = 10cm
  Weight/SQ.METER = 8kgs

- **Plastic End Locks**
  Thickness=5mm

- **Galvanized Bottom Rail**
  Width = 3cm
  Height =12cm
  Thickness = 2mm

- **Galvanized Track**
  Thickness = 2mm
  Inner depth = 5cm
  Width = 2.8cm



- **Galvanized Steel Side Plate**
  Thickness = 3mm
  Height x Width = 40 x 40cm



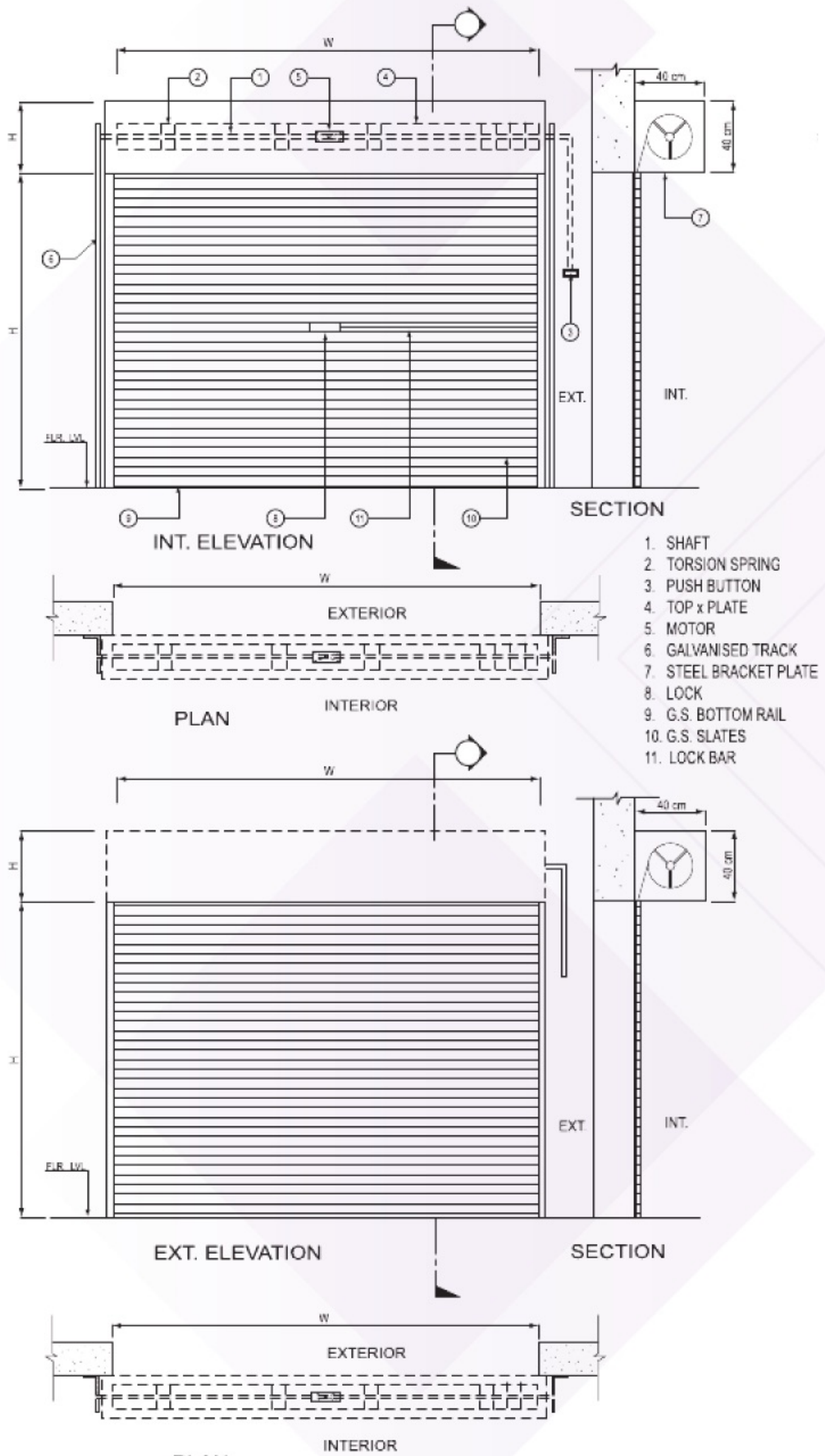


- **Spring**
  Thickness = 1.5mm
  Length of the spring depends up on the size of rolling shutter.

- **Galvanized Steel Cage for Pipe Shaft**
  Thickness = 2mm

- **Galvanized Steel Shaft**
  Thickness = 3.2mm
  Diameter = 4 & 6 inch

GALVANIZED (G.I) ROLLING SHUTTER (MOTORIZED)

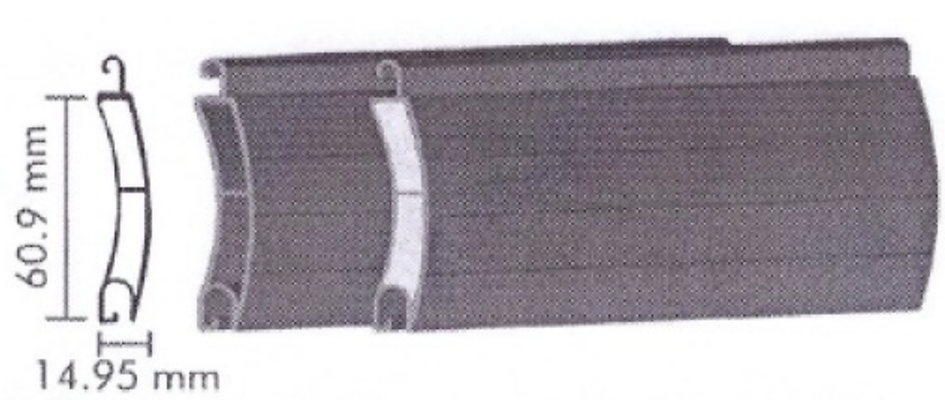


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ALUMINIUM DOUBLE SKIN ROLLING SHUTTER

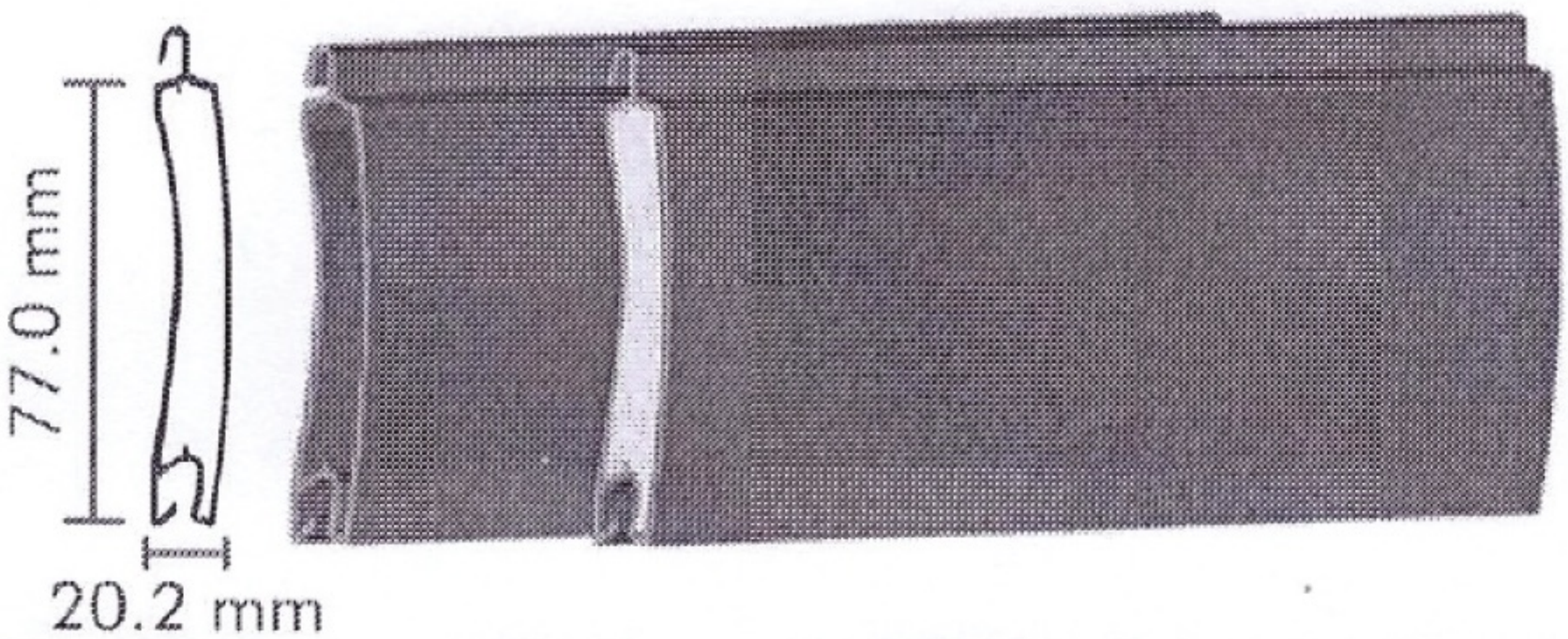


Aluminium Double skin Extruded slats 60.9mm pitch thickness 1.2mm



Aluminium Flat Double Skin Slat (medium)				
Code	Thickness(mm)	KG/M²	Max. Length(m)*	
PAPPE 60.9/1.2	1.2	9.33	6.5	Non Insulated
PAPPE - P 60.9/1.2	1.2	9.39	6.5	Insulated

Aluminium Double skin Extruded slats 77mm pitch thickness 1.2mm



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EXTERNAL FEATURES:

- The shutters slats are made up of aluminium with width 4.5cm and thickness 1mm to 1.5mm are available with and without ventilation holes which makes it useful both commercially as well as industrially and mostly in warehouses/stores with long height windows.
- These aluminium slats have got a good locking grip to keep them tied to one another.
- Manual operation with hoist chain (as a back up system incase of power failure) is possible for shutter.
- The galvanized steel track is of 2.8cm width, 2mm thickness and 5cm deep.
- The plastic end locks of thickness 5mm and height depending upon the shutter height is fixed on both ends of slats to enhance smooth and noiseless operation of the shutter. Also plastic end locks are fixed on each shutter slat to enhance smooth and noiseless operation.
- The thickness of the paint is 0.25micro meter inside and 0.5micro meter outside.
- The shutter slats are strong, reliable, and durable and rust proof.
- The standard weight of the shutter slats with out ventilation holes of one square meter size is 8.5kgs and with ventilation holes is 7.5kgs.
- Bottom rail is made up of aluminium with same slats.
- Available with insulation and without insulation.

INTERNAL FEATURES:

- The side plate of the box is made of steel with thickness of 3mm and size of box (35x35) cm.
- The shaft is made of galvanized steel with thickness 3.2mm and diameter 1 inch's.
- The spring thickness is 1.5mm length of the spring depends up on the size of rolling shutter.
- The available colors are – all color (available from the color chart of Jotun).
- Galvanized steel cage for pipe shaft, spring motor assembly thickness is 2mm.
- Available Brands of Motors are:
  - ↳ Italian made "Nice" central motors with a brake for manual operation installed inside a safe & secured key box.
  - ↳ French made Somfy central motors installed internally with a brake for manual operation installed inside a safe and secured key box.
  - ↳ Side motors installed externally (Right/Left sides) with a hoist chain for manual operation can be used for shutters with a size of 40 square meters with weight of 500 to 600 Kgs.
  - ↳ Somfy Tubular motor for window type.

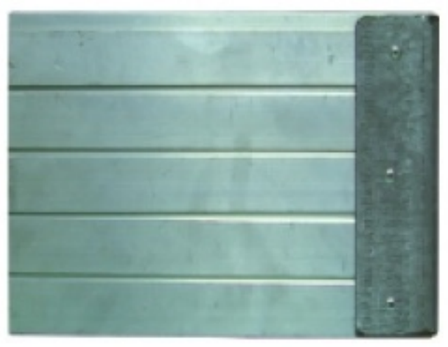
SPECIFICATION:

- **Aluminium Shutter Slat**
  Thickness = 0.7mm to 1.5mm
  Thickness paint (Inside)=0.25 Micro meter
  Thickness paint (Outside)=0.5 Micro meter
  Weight/Sq.Meter=8.5 Kgs



- **Plastic End Locks**
  Thickness=6mm inside

- **Aluminium Bottom Rail**
  Width=3 cm
  Height=12 cm
  Thickness = 2 mm

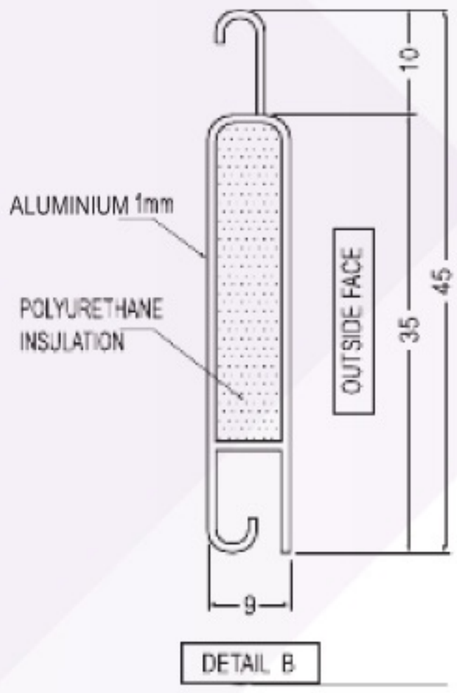


- **Galvanized Track**
  Thickness = 2 mm
  Inner depth = 5 cm
  Width = 2.8 cm

- **Galvanized Steel Side Plate**
  Thickness = 4 mm
  Diameter = 1 inch

- **Shaft**
  Thickness = 8mm
  Diameter = 1 inch

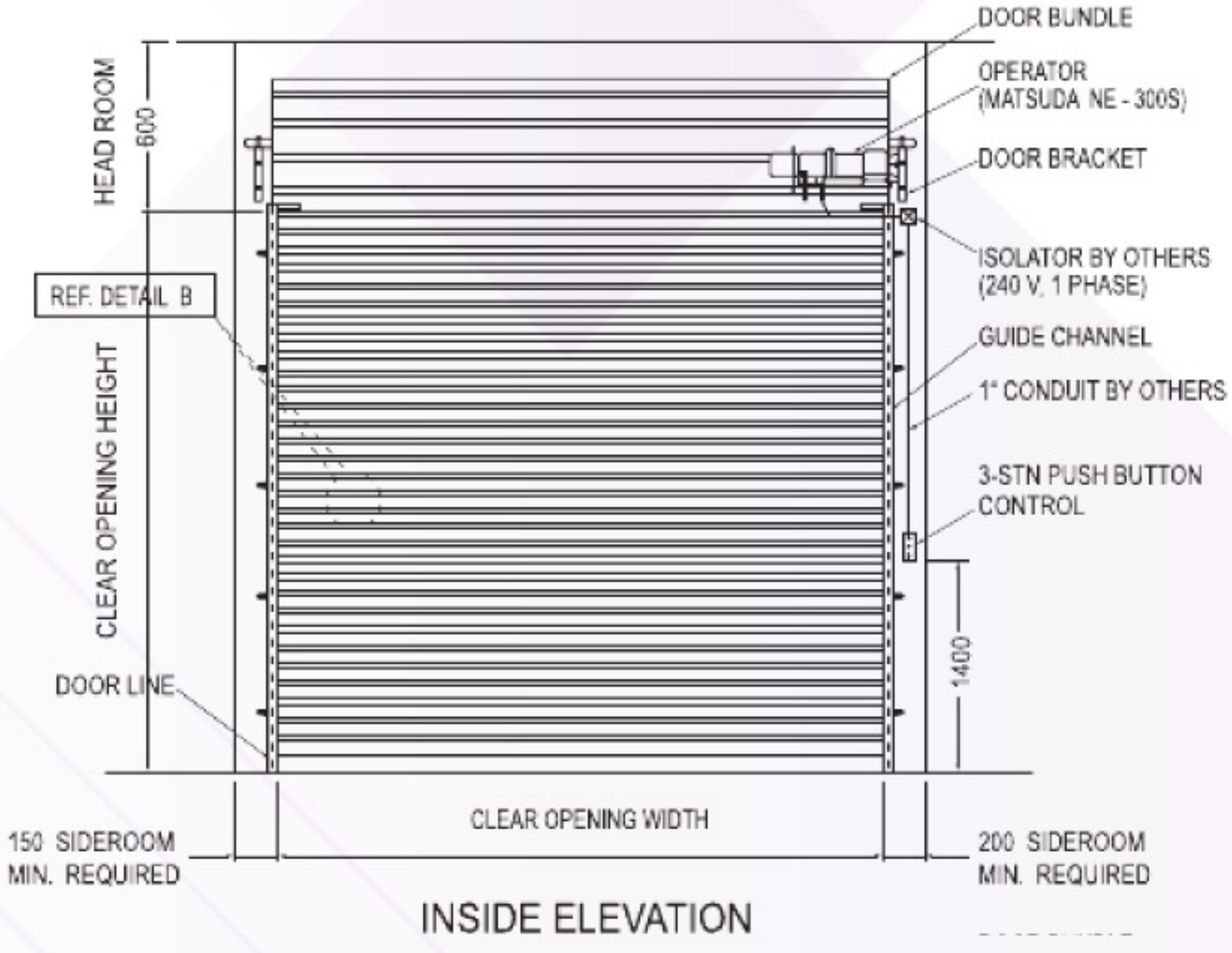
- **Spring**
  Thickness = 8 mm
  Length of the spring depends upon the size of rolling shutter.



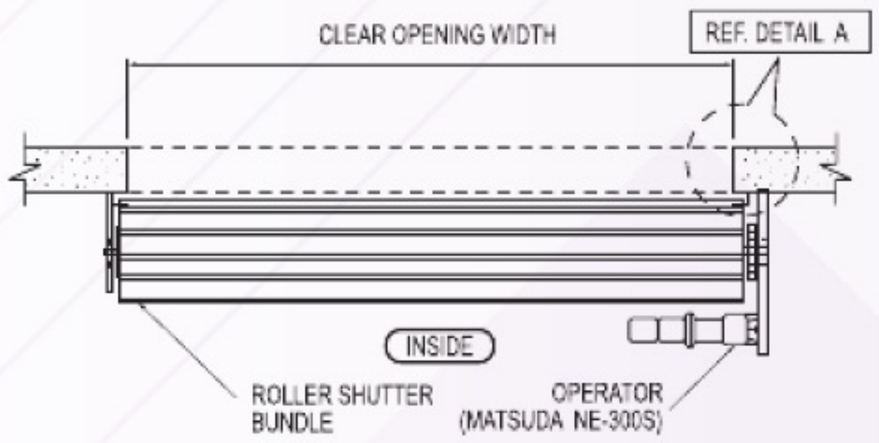
- **Insulation**
  Polyethelene Foam
  Inside thickness = 6mm

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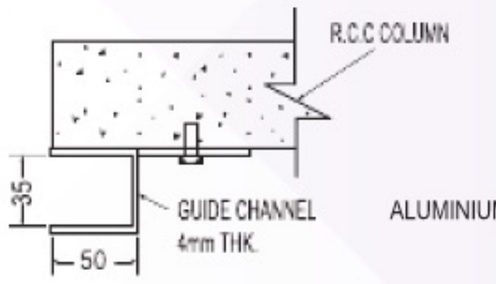
ALUMINIUM DOUBLE SKIN ROLLING SHUTTER



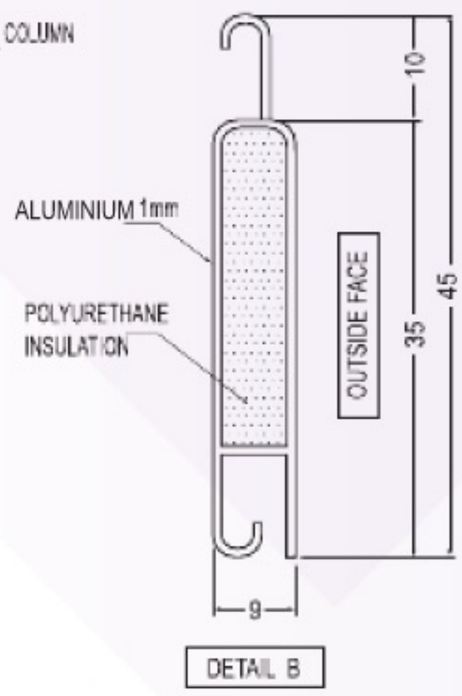
INSIDE ELEVATION



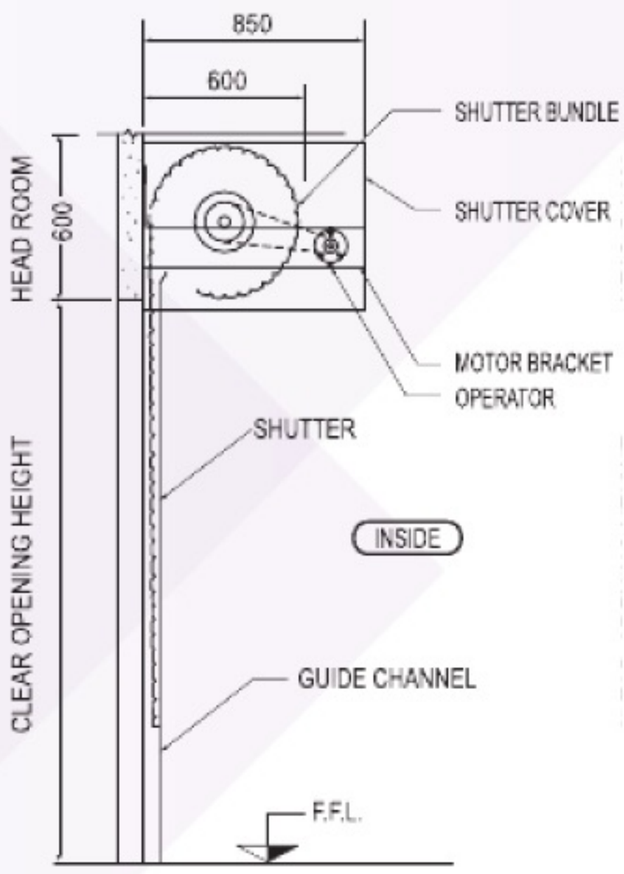
PLAN



DETAIL A



DETAIL B



SECTION

ALUMINIUM SINGLE SKIN ROLLING SHUTTER EXTRUDED



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EXTERNAL FEATURES:

- The shutters slats are made up of aluminium with width 5cm and thickness 1mm to 1.5mm are available with and without ventilation holes which makes it useful both commercially as well as industrially and mostly in warehouses/stores with long height for windows.
- These aluminium slats have got a good locking grip to keep them tied to one another.
- Manual operation with hoist chain (as a back up system incase of power failure) is possible for shutter.
- The galvanized steel or aluminium track is of 2.8cm width, 2mm thickness and 5cm deep.
- The plastic end locks of thickness 5mm and height depending upon the shutter height is fixed on both ends of slats to enhance smooth and noiseless operation of the shutter. Also plastic end locks are fixed on each shutter slat to enhance smooth and noiseless operation.
- The thickness of the paint is 0.25micro meter inside and 0.5micro meter outside.
- The shutter slats are strong, reliable, and durable and rust proof.
- The standard weight of the shutter slats with out ventilation holes of one square meter size is 6.0 kgs.
- Bottom rail is made up of aluminium with same slats.
- Available with insulation and without insulation.

INTERNAL FEATURES:

- The side plate of the box is made of steel with thickness of 3mm and size of box (35x35) cm.
- The shaft is made of galvanized steel with thickness 3.2mm and diameter 1 inch's.
- The spring thickness is 1.5mm length of the spring depends up on the size of rolling shutter.
- The available colors are – all color (available from the color chart of Jotun).
- Galvanized steel cage for pipe shaft, spring motor assembly thickness is 2mm.
- Available Brands of Motors are:
  - ↳ Italian made "Nice" central motors with a brake for manual operation installed inside a safe & secured key box.
  - ↳ French made Somfy central motors installed internally with a brake for manual operation installed inside a safe and secured key box.
  - ↳ Side motors installed externally (Right/Left sides) with a hoist chain for manual operation can be used for shutters with a size of 40 square meters with weight of 500 to 600 Kgs.
  - ↳ Somfy Tubular motor for window type.

SPECIFICATION:

- **Aluminium Shutter Slat**
  Thickness = 1mm
  Thickness paint (Inside)=0.25 Micro meter
  Thickness paint (Outside)=0.5 Micro meter
  Weight/Sq.Meter=6.0 Kgs



- **Plastic End Locks**
  Thickness=6mm inside

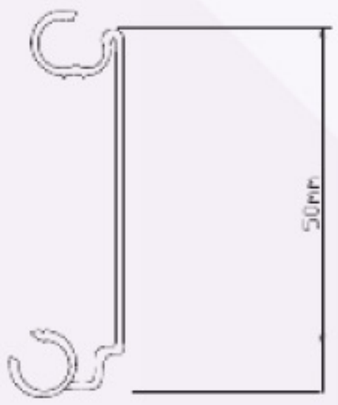
- **Aluminium Bottom Rail**
  Width=3 cm
  Height=12 cm
  Thickness = 2 mm

- **Galvanized Track**
  Thickness = 2 mm
  Inner depth = 5 cm
  Width = 2.8 cm

- **Galvanized Steel Side Plate**
  Thickness = 4 mm
  Diameter = 1 inch

- **Shaft**
  Thickness = 1.5mm
  Diameter = 1 inch

- **Spring**
  Thickness = 1.5 mm
  Length of the spring depends upon the size of rolling shutter.

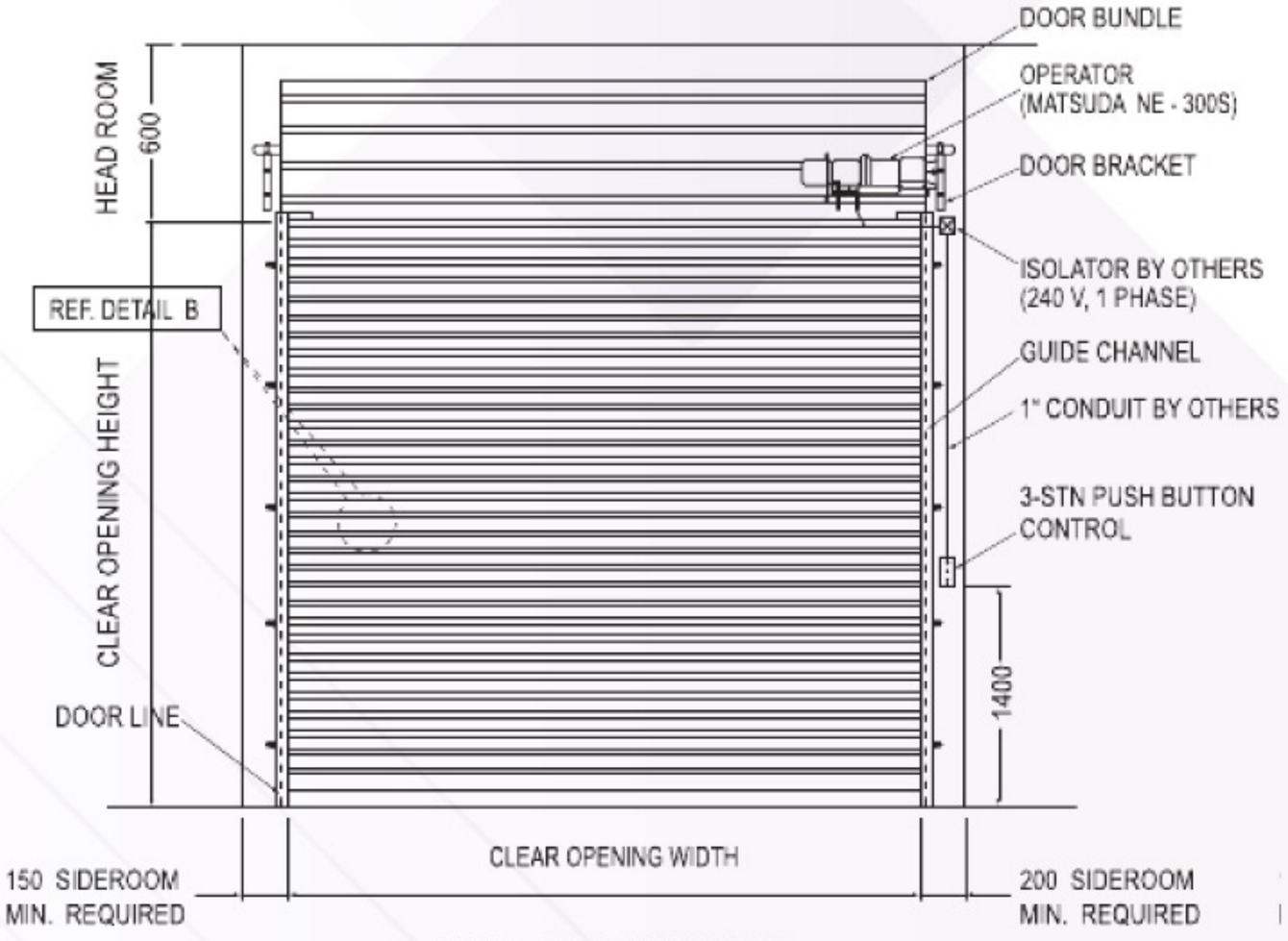


SINGLE SKIN
EXTRUSION PROFILES

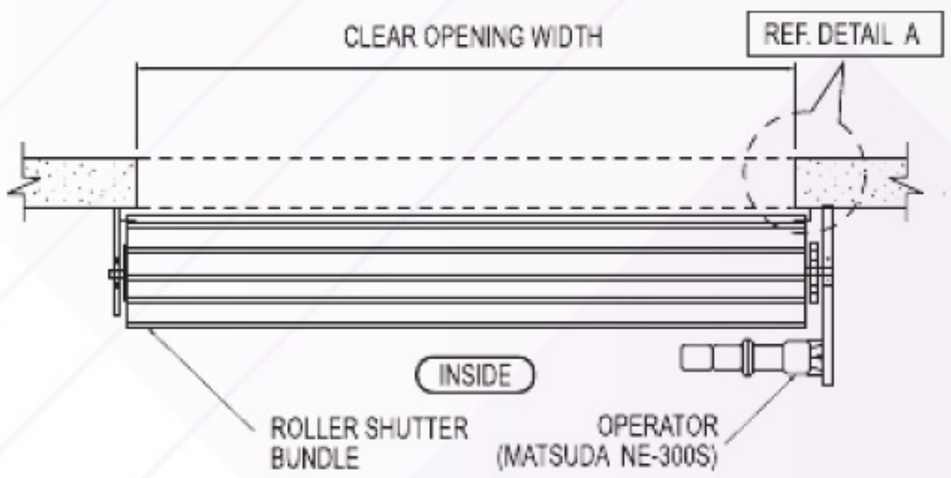
- **Insulation**
  Polyethelene Foam
  Inside thickness = 6mm

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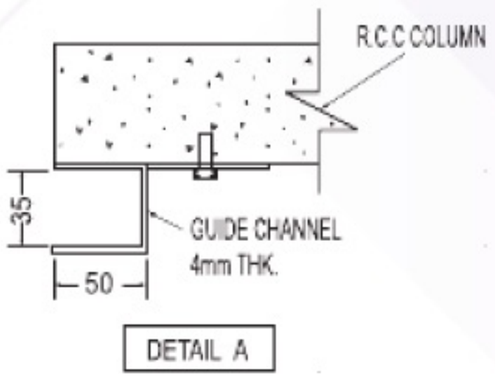
ALUMINIUM SINGLE SKIN ROLLING SHUTTER EXTRUDED



INSIDE ELEVATION

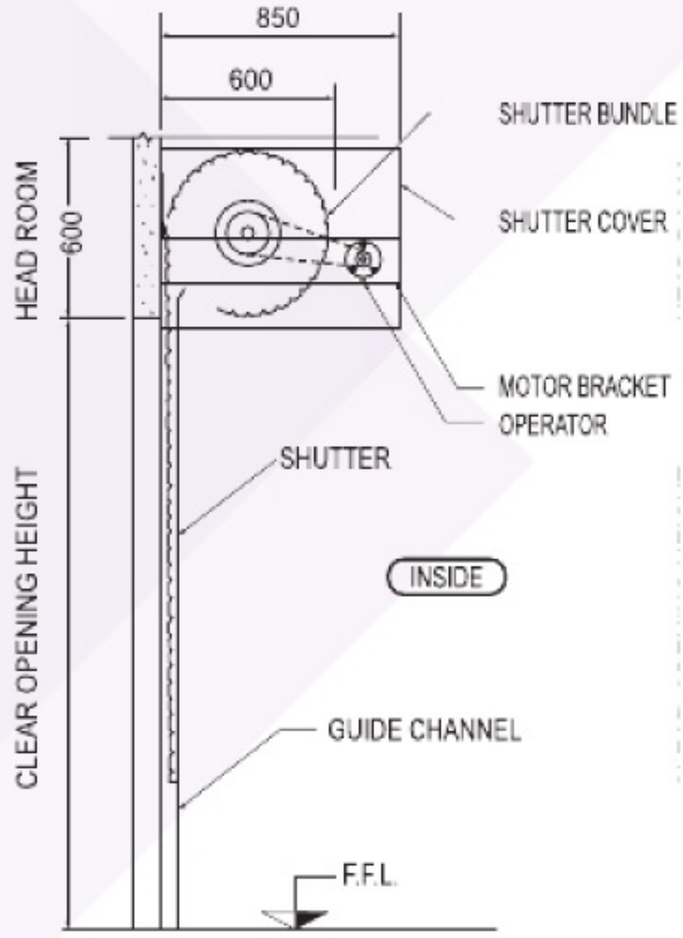


PLAN



DETAIL A

SINGLE SKIN
EXTRUSION PROFILES



SECTION

ROLLER WINDOW SHUTTER (MOTORIZED)













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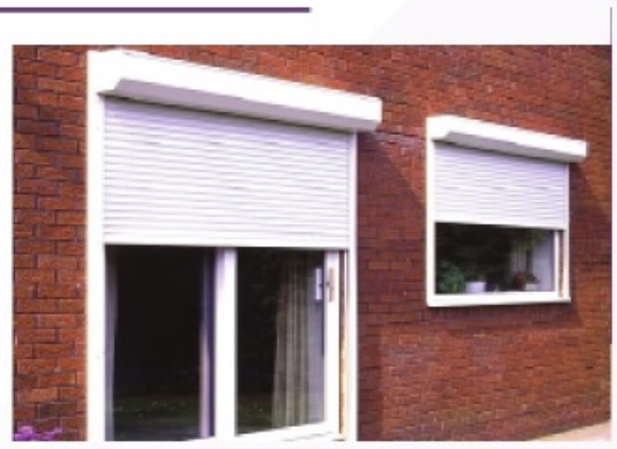
FEATURES:

- The Roller window shutter has got extra reliability, durability
- It makes your house interior to protect from sunlight and any other disturbances in case fully closed
- The shutter slats are made up of aluminium
- The plastic end locks are provided on each side of the slats to enhance noiseless operation of the shutter
- On the bottom slat two small stopper are installed which makes shutter to stop during aperture
- The bottom slat is provided with rubber seal to enhance good closing of the shutter
- The topmost slat is provided with stainless steel tie anchor strips whose number depends upon the size of window shutter
- The maximum height of the window shutter available is 3.30 meters
- All colors are available
- The box frame are made up of aluminium with three types

  90 Degree square box
  45 Degree square box
  360 Degree square box

- Box side plate are fixed at each end which is provided with an ball bearing to hold pipe and bearing cylinder. The other side plate is fixed with manual machine with a provision to hold square cylinder. The manual machine is provided with manual machine. Extension to hold the manual handle to operate the shutter manually in case of power failure.
- The handle is fixed on the wall by using fixing base.
- The track is made up of aluminium with rubber fixed inside to enhance smooth and noiseless operation. The limit of plastic channel is fixed on top of each track to stop the shutter while opening.

WINDOW SHUTTER MOTORIZED INSULATED







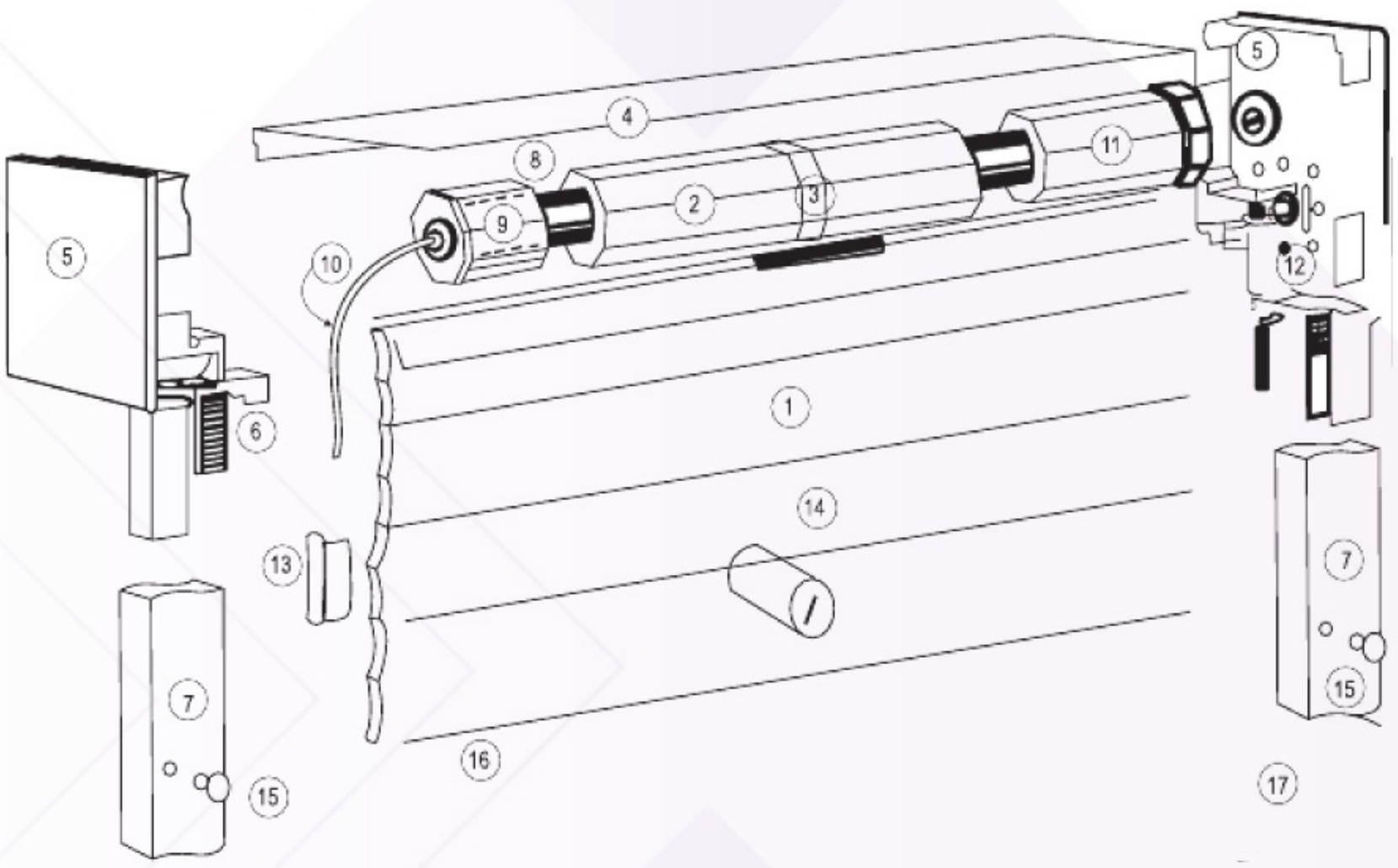




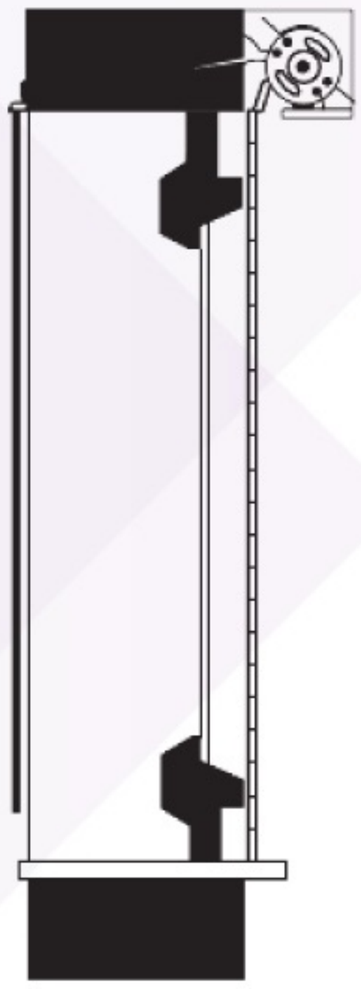
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ROLLER WINDOW SHUTTER (MOTORIZED)

DETAIL DRAWING FOR WINDOW SHUTTER UNIT (MOTORIZED)



1. SHUTTER SLIDE
2. SQUARE PIPE (SHUTTER)
3. TIE ANCHOR
4. SHUTTER BOX
5. SHUTTER BOX SIDE
6. LIMIT OF PLASTIC CHANNEL
7. TRACK
8. TUBE MOTOR
9. SQUARE CYLINDER
10. ELECTRICAL CONNECTION
11. PIPE & CYLINDER BEARING
12. BALL BEARING
13. END SHUTTER BLOCK
14. STOPPER
15. PLASTIC COVER
16. RUBBER
17. TRACK RUBBER



VERTICAL CROSS SECTION

INSULATED OVERHEAD DOORS







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The most beautiful, reliable and durable garage door with pleasant outlook , suitable for any type of location.

Available in various sizes to meet any kind of project.

FEATURES:

- Thermal break provided seperates the inner and outer skins so that virtually no heat or cold is conducted through your garage door.
- Prepainted inner and outer skins for added corrosion resistance.
- Both skins are hot dipped galvanized steel for further protection against corrosion.
- Solid polyurthane core provides maximum thermal efficiency and adds smooth and quiet operation and strength
- A rubber seal is installed on the bottom panel of the door to prevent dust and reptiles to go in.
- The outside look of the panels is embossed pinstriping (grooves) which gives a beautiful look to your garage.
- It is available in two colors namely white and almond.
- A lock is provided inner side of the garage door.

ADDITIONAL FEATURES:

- Hardware plates at all fastner points for added durability and life.
- Hot dipped galvanized steel end caps protect end of door and help provide tight seal against jamb.
- Graduated hings and inclinded adjustable track assures snug seal against air filtration.
- Top seal saves energy by providing additional protection against air filtration.
- Torsion extension counter balance springs.
- Silent glide roller with nylon tires and solid steel shaft provide smooth operation and life long service.
- Heavy guage steel wrap around end caps on finish door edges for better appearance and protect the foamed in place polyurethane insulation from damage.

SPECIFICATION:

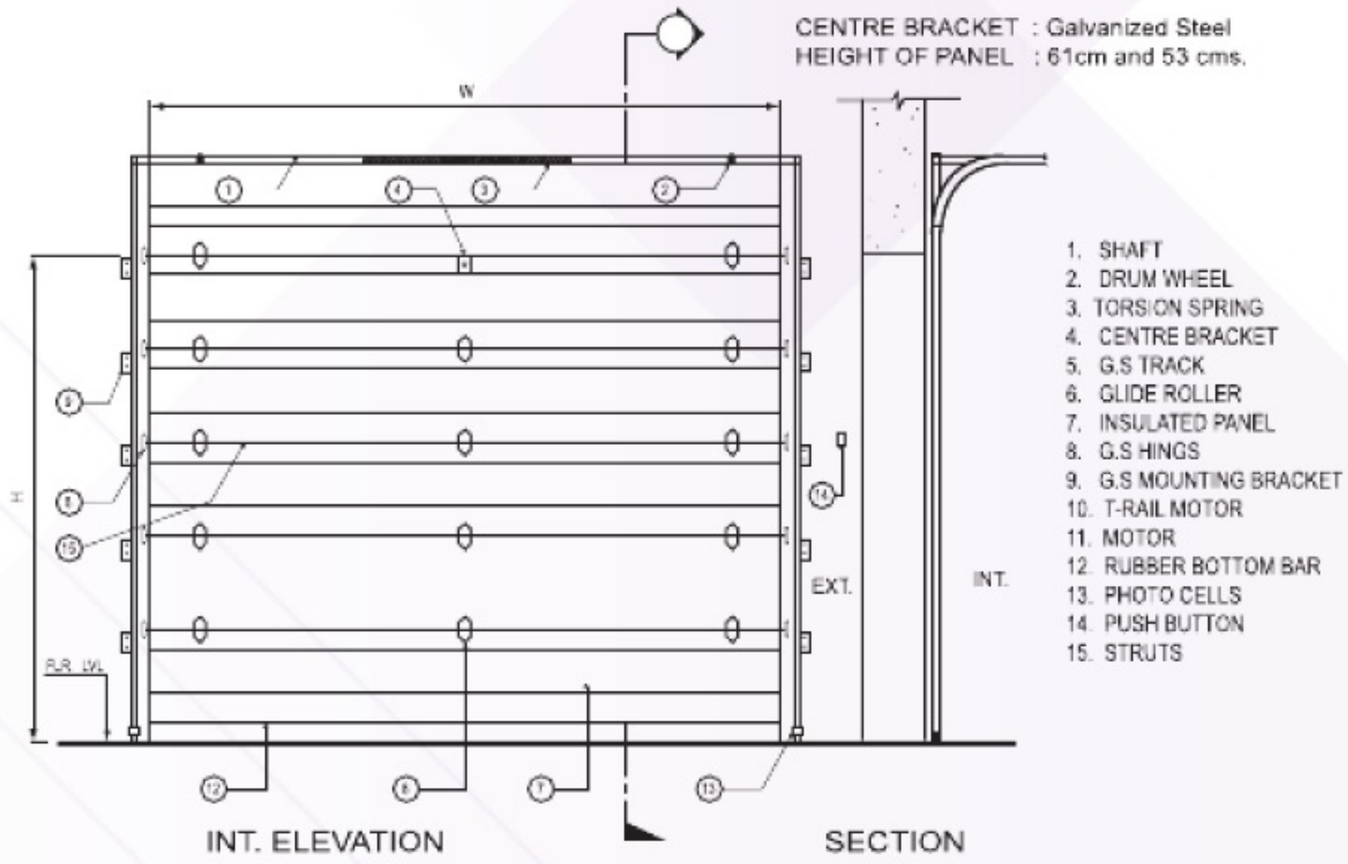
- Polyurathane foam with an r-value of 15
- 25 gage hot dipped galvanized steel
- Thickness of the panel is (5) cm
- Thickness of the end cap is (0.9) mm
- The drum wheel is made of aluminium with thickness (0.5 mm for four panel and (0.6) mm for five panel door
- The tracks are made of galvanized steel with thickness (0.2)mm
- The hinges are made of galvanized steel with thickness (0.2) mm
- The centre bracket is made of galvanized steel with thickness (0.2) mm and its size dependsupon the size of the door
- The wall mounting plate is made of galvanized steel with thickness (0.3) mm
- The thickness of the vinyl seal all around the door is (1) cm and its width is (7) cm
- The height of each panel is (61) cm and (53) cm
- The size of the spring depends upon the door size
- The diametre of the silent roller is (4.5) cm and thickness of its axle is (1.1) cm

THE GARAGE DOOR CAN BE OPERATED MANUALLY AS WELL AS ELECTRICALLY ALONG WITH SAFETY PHOTOCELLS TO AVOIDE ANY KIND OF ACCIDENTS.

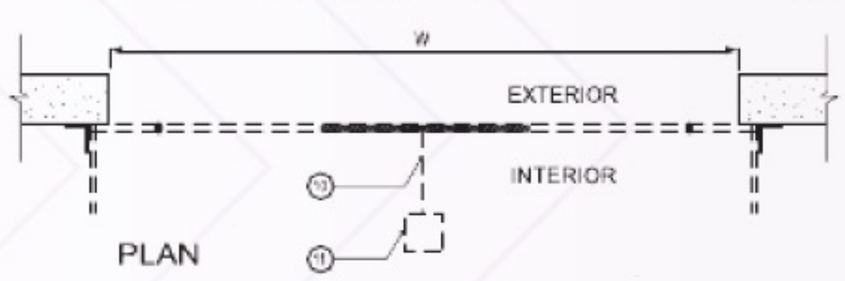
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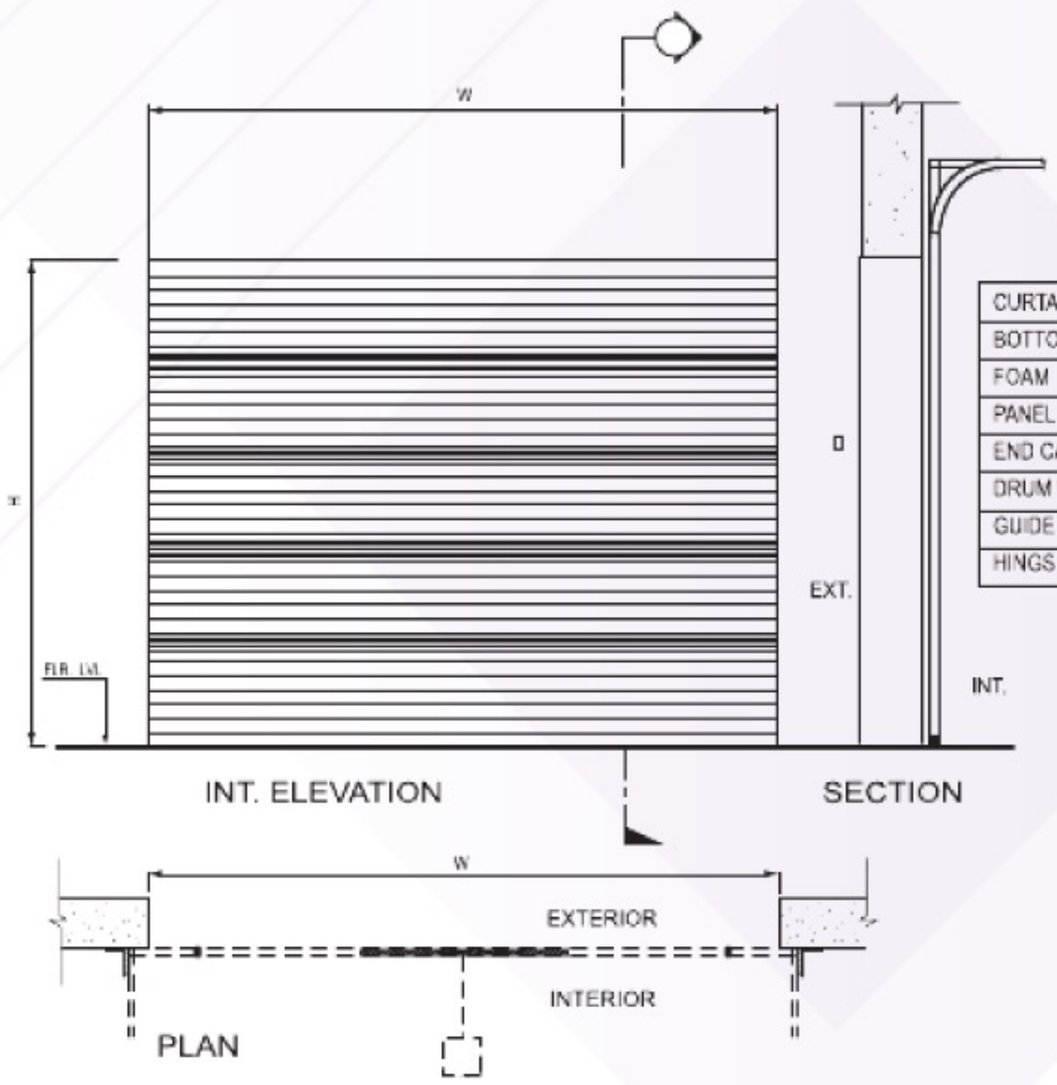
INSULATED OVERHEAD DOORS

CENTRE BRACKET : Galvanized Steel
HEIGHT OF PANEL : 61cm and 53 cms.



1. SHAFT
2. DRUM WHEEL
3. TORSION SPRING
4. CENTRE BRACKET
5. G.S TRACK
6. GLIDE ROLLER
7. INSULATED PANEL
8. G.S HINGS
9. G.S MOUNTING BRACKET
10. T-RAIL MOTOR
11. MOTOR
12. RUBBER BOTTOM BAR
13. PHOTO CELLS
14. PUSH BUTTON
15. STRUTS





CURTAIN	25 guage hot dipped G.S
BOTTOM SEAL	Bulb shaped
FOAM	Polyurethene with R-15
PANEL THICKNESS	7 cm with Struts
END CAP	0.9 mm
DRUM WHEEL	Aluminium 0.5mm & 0.6 mm
GUIDE	Galvanized Steel
HINGS	Galvanized Steel

SWING GATE OPERATORS











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FEATURES (ATI):

- Strong powerful and electromechanical which guarantee the long term reliability of the automation gate system
- Easy to install and does not require an structural gate modification
- Elecctromechanical gearmotor does not require periodic maintanance
- Strong and compact die-cast aluminium structure to guarantee their sturdiness ,compactness and resistance against adverse atmospheric conditions
- Powerful designed to operate in especial heavy duty cycles
- Self-locking: maximum security by an unique self locking feature while keeping gate closed
- Key release mechanism : for all models to operate the gate manually in case of power failure
- Safety photocells are used for reaperture during closure to avoid any kind of accidents in accordance with uni 8612 safety standards
- Flashers are used to indicate the door movement during motor operation
- Control panel . The new generation of came electronic control panels for swing gates provide variety of safety and control features utilizing the latest microprocessor technologies.it provides the output for curtesy light to illuminate the drive way(optional)
  partial opening features is available in some models of control
  panel automatic closing facility available
  all the devices connected to the control panel are low voltage for total safety
- Transmitter the game transmitter from the top series is elegant ergonic easy to grip good range and made with practical rubber attachment for your key ring one touch is enough to operate your gate.
- It can be operated by using key switch remote control as per customer requirements
- Depending upon the weight of the door leaf ,ati operator is available in different models as shown in table below

WIDTH OF GATE WING M	WEIGHT OF A3000/A3024	GATE WING KG A5000/A5024
2,00 2,50 3,00 4,00 5,00	800 600 400	1000 800 600 500 400

OPTIONAL:

- Electric Lock Facility Is Available To Enhance Extra Safety
- Loop Detectors Can Be Installed

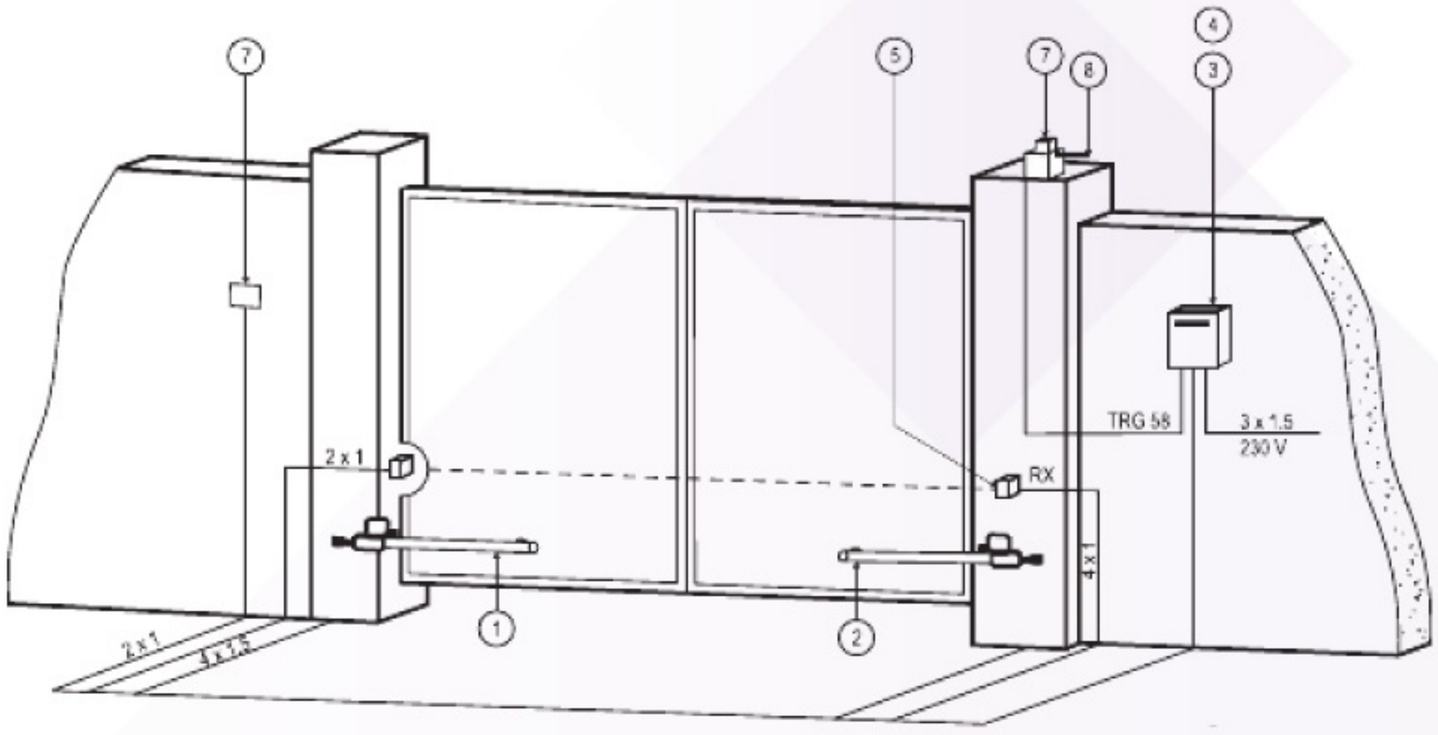
ADDITIONAL FEATURES 924 V VERSION):

- Travel Slow Down Speed and Declaration Adjustment During Aperture and Closure isi possible to enhance smooth stop
- Heavy And Continuous Duty Operation

TECHNICAL FEATURES:

TYPE	PROTECTION LEVEL	POWER SUPPLY	POWER WALLS	D.CYCLE	PUSH N	O.T. SEC	CURRENT AMP
A3000	IP54 (MEMA 3)	230V	150	50%	400	19	1.2
A3024	IP54 (MEMA 3)	24V	120	INTENSIVE USE	400	ADJUSTABLE	8 MAX
A5000	IP54 (MEMA 3)	230V	150	50%	400	32	1.2
A5024	IP54 (MEMA 3)	24V	120	INTENSIVE USE	400	ADJUSTABLE	8 MAX

SWING GATE OPERATORS

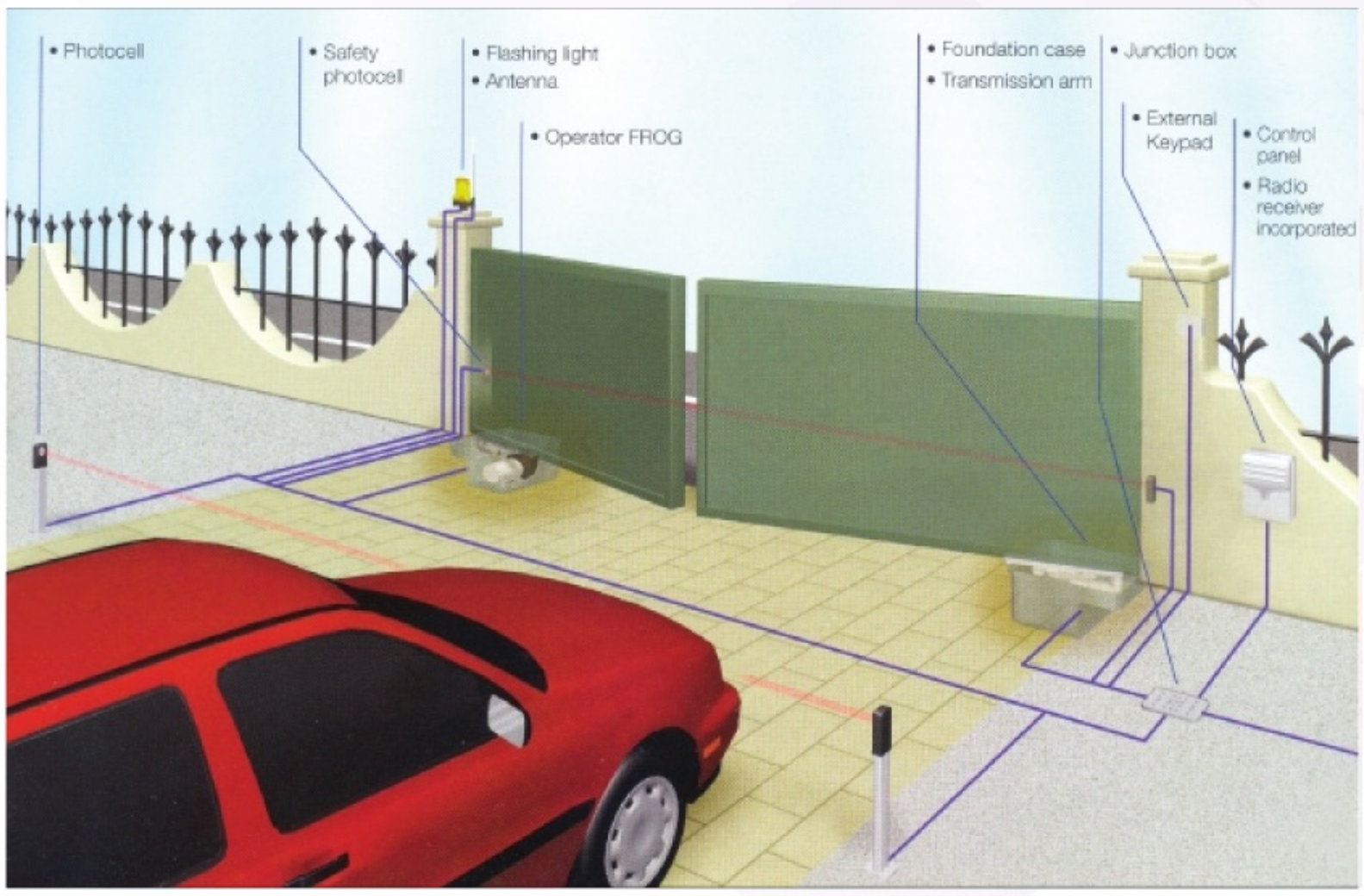


1. UNIT (LEFT)
2. RIGHT (RIGHT)
3. CONTROL PANEL
4. RADIO RECEIVER
5. SAFETY PHOTOCELL
6. KEY SWITCH
7. FLASHER
8. ANTENA

SPECIFICATIONS

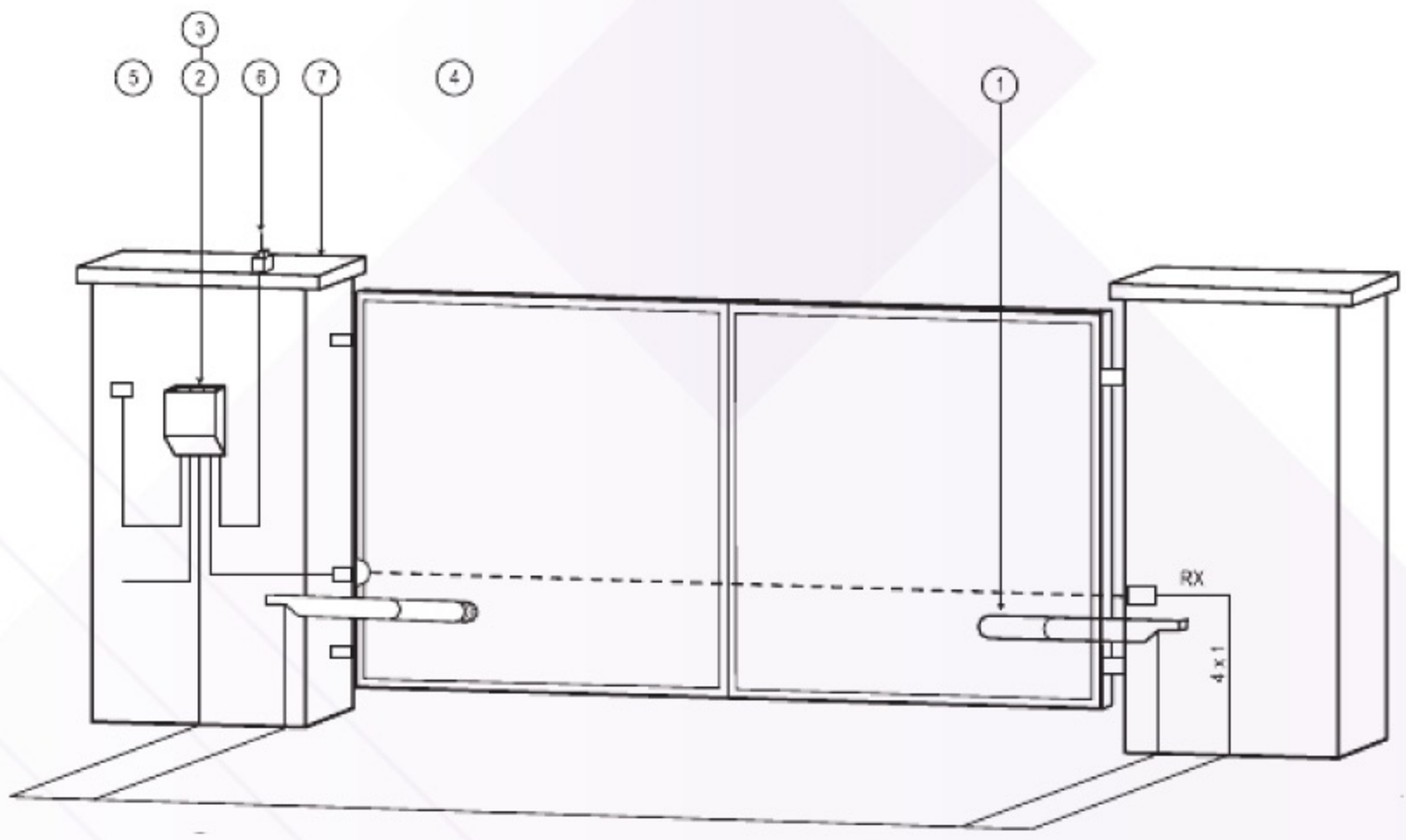
WIDTH OF GATE WING M	WIDTH OF GATE WING KG UNIT
3.0	400

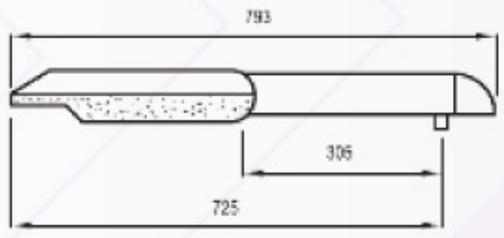
TYPE	PROTECTION LEVEL	POWER SUPPLY	POWER WATTS	D.CYCLE	PUSH N	O.T SEC	CURRENT AMP
UNIT	400 (MEMA 3)	230 V	130	30%	400	25	1.5



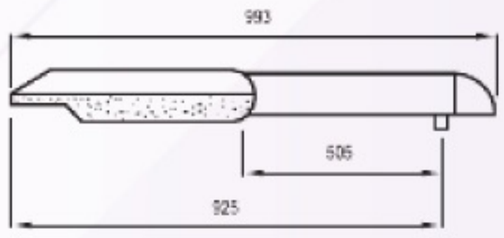
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SWING GATE OPERATORS

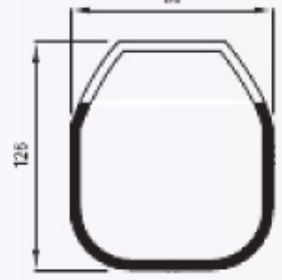




ATI 3000 / 3100 / 3024



ATI 5000 / 5100 / 5024



1. ATI UNIT
2. CONTROL PANEL
3. RADIO RECEIVER
4. SAFETY PHOTOCELL
5. KEY SWITCH
6. ANTENA
7. FLASHER

SPECIFICATIONS

POWER SUPPLY	230 V (110 V)
MOTOR POWER SUPPLY	230 V (110 V)
CAPACITY	150 W
DUTY CYCLE	50 %
MOTOR THERMAL PROTECTION	150 deg. cel.
OPENING TIME	19 S

SLIDING GATE OPERATORS



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FEATURES :

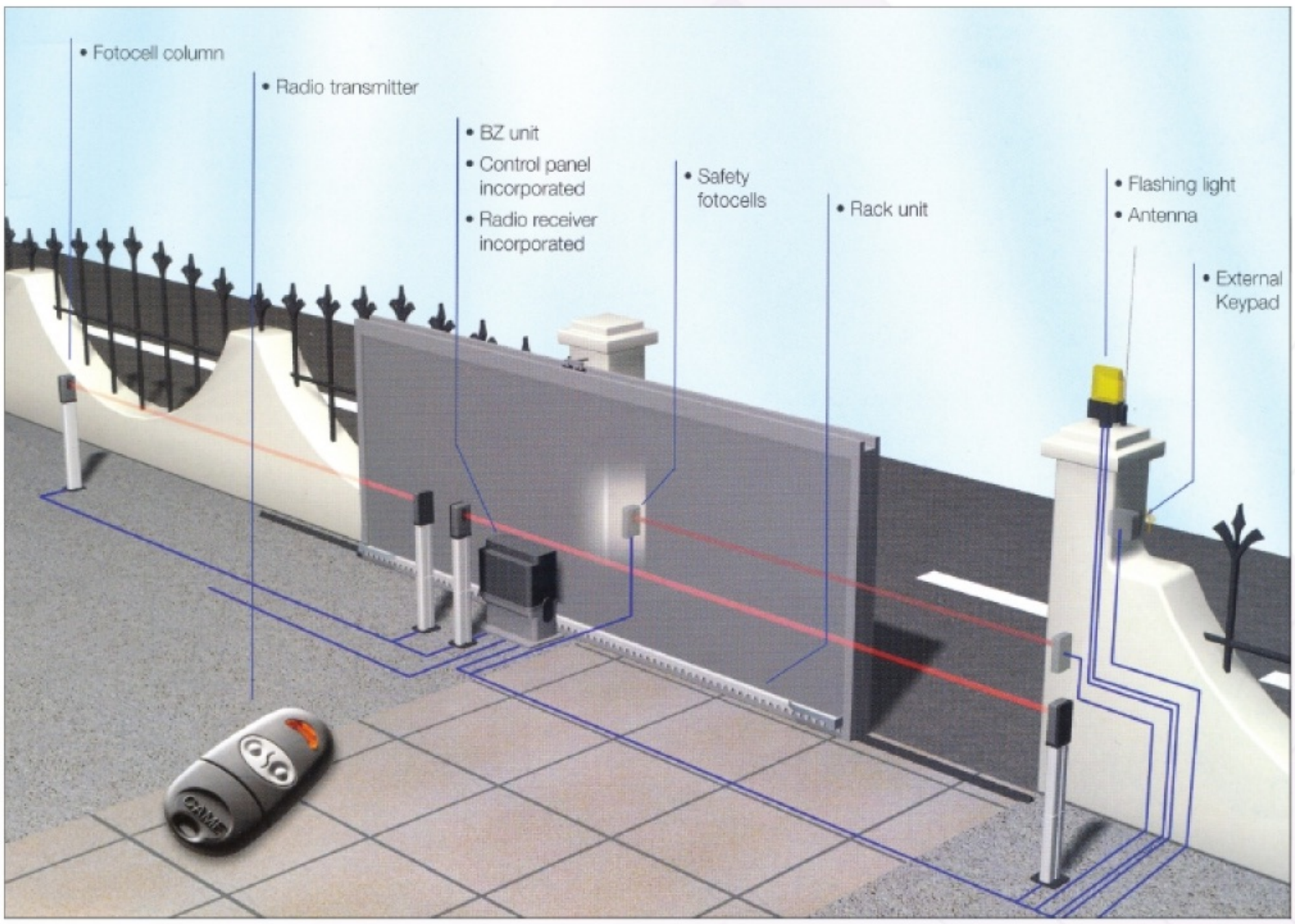
- Strong powerful which guarantee the long term reliability of the automation gate system
- Easy to install and does not require any structural gate modification
- Gearmotor does not require periodic maintenance
- Strong and compact die-cast aluminium structure to guarantee their sturdiness, compactness and resistance against adverse atmospheric conditions
- Powerful designed to operate in especial heavy duty cycles
- Self-locking: maximum security by an unique self locking feature while keeping gate closed
- Key release mechanism for all models to operate the gate manually in case of power failure
- Safety photocells are used for reaperture during closure to avoid any kind of accidents in accordance with uni 8612 safety standards
- Flashers are used to indicate the door movement during motor operation
- Control panel : The new generation of Came water proof electronic built in control panels for sliding gates provides variety of safety and control features utilizing the latest microprocessor technologies. It provides the output for courtesy light to illuminate the drive way(optional)
  stop and partial opening features is available
  automatic closing facility is available
- Transmitter the Came transmitter from the top series is elegant, ergonomic, easy to grip good range and made with practical rubber attachment for your key ring. One touch is enough to operate your gate.
- It can be operated by using key switch, remote control, magnetic-key reader as per customer requirements

OPTIONAL:

- Electric lock facility is available to enhance extra safety
- Loop detectors can be installed





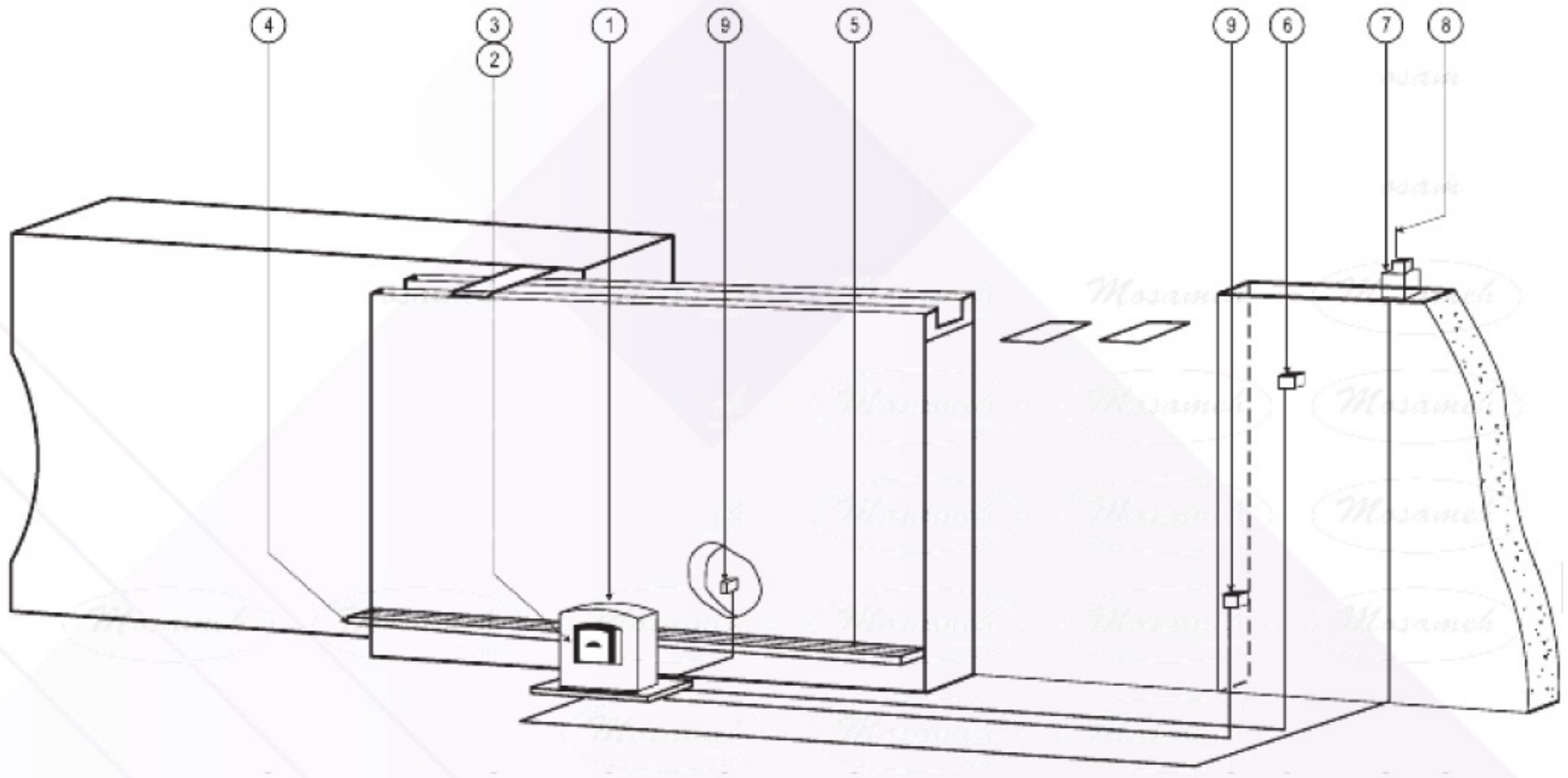


TECHNICAL FEATURES:

TYPE	PROTECTION LEVEL	POWER SUPPLY	POWER WALLS	D.CYCLE	THRUST N	SPEED M/ MIN
BK 1200	IP54 (MEMA 3)	230V	380	50%	850	10.5
BK 1800	IP54 (MEMA 3)	230V	480	50%	1150	10.5
BK 2200	IP54 (MEMA 3)	230V	580	50%	1500	10.5
BK 3500	IP54 (MEMA 3)	230/380 V THREE PHASE	750	50%	3500	10.5

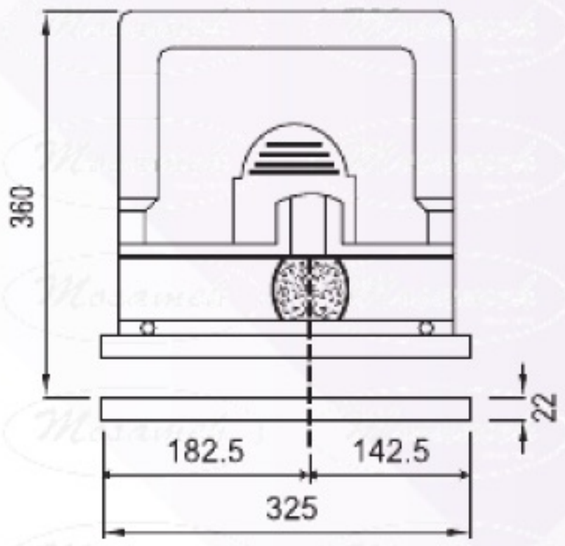
Above features are for CAMAY.
Also available similar feature in other brands like SOMFY,NICE etc...

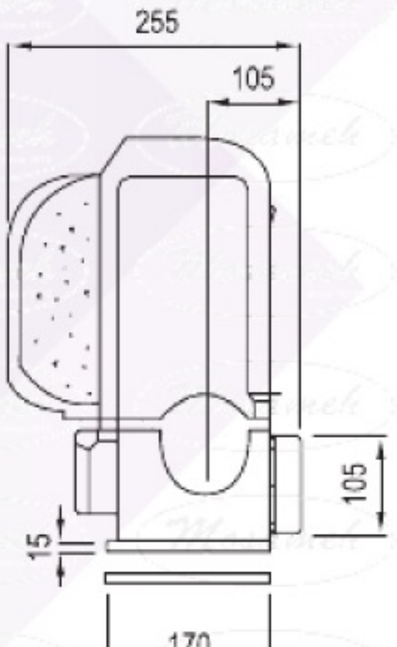
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1. BK UNIT
2. CONTROL PANEL ACCESSORIES
3. RADIO RECEIVER
4. RACK
5. STOPPER
6. KEY SWITCH
7. FLASHING LIGHT
8. ANTENA
9. SAFETY PHOTO CELL





GLASS DOORS AUTOMATIC SYSTEMS

Swing door systems

The swing door systems from Mosameh make going through a door easier in the event that manual operation is too complex or difficult. The absolute reliability and safety of the swing door drives go hand in hand with clear and modern design lines. Mosameh enables project specific solutions and ensures planners the greatest possible degree of design freedom.



Sliding door systems

Sliding doors are space-saving, elegant and modern. Glass sliding doors are ideal when it comes to making good use of daylight and fulfilling optical criteria. The automatic sliding doors from Mosameh can be used to implement the widest range of application requirements within a building.



Revolving doors systems

Revolving doors are a component of a facade and also the point of focus of the entrance area of a representative building. Here, it is important for the visitor to make a good "first impression" with the help of an architecturally perfect revolving door which continues to function reliably and safely despite high frequencies of operation. Mosameh enables almost unlimited design freedom when it comes to the various materials and colours.



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ALUMINIUM, STEEL & GLASS WORKS

Standard Steel Doors	Aluminium Doors & Windows
Fire Rated Steel Doors	Glass Doors













PICKUP SHUTTERS & BODY FABRICATION



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Mosameh
Since 1970

Mosameh
Engineered Like No Other

Pickup Shutters

We have been manufacturing roller shutters and doors for the Pickups and Special Purpose Vehicle Market for over 15 years. Trading under the brand names of Mosameh, we boast the largest product range of Roller Shutters and Roll-Up Doors for the Pickup and Special Purpose Vehicle market in GCC.

Our pickup doors provide versatile solution to the problem of providing access to compartments, storage areas and pay loads whilst also providing security and ensuring that the appearance of the pickup body remains attractive.

To ensure the owner gets value for money, our extensive and unique range allows customers to choose from a variety of special features and pricing points. Mosameh provides a free design service for each pickup door. We custom manufacture each door to ensure that the doors suit your purpose and fit the desired opening.

Our range includes a variety of curtain materials including roll formed slats in galvanised steel and aluminium; extruded aluminium slats in six profiles and a timber sectional door. There are three basic design configurations; sliding, rolling and sliding-roller assisted.

We can entertain any fabrication as per the client's requirements.



COLD ROOM PICKUP FABRICATION

MOTOR & ACCESSORIES PARTS

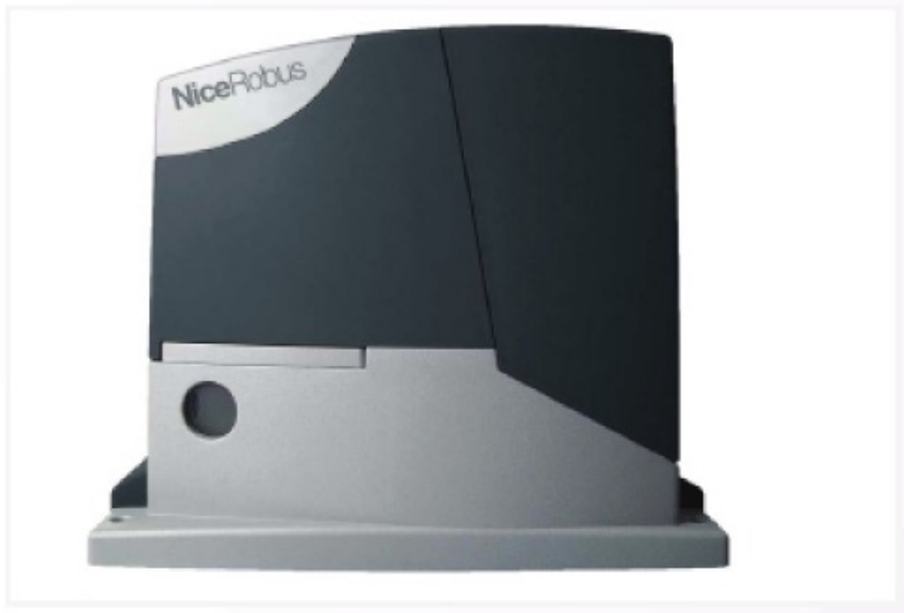
NICE TUBULOR MOTOR



SOMFY TUBULOR MOTOR



NICE SLIDING MOTOR



SOMFY SLIDING MOTOR



NICE CENTER MOTOR



SOMFY CENTER MOTOR



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MOTOR GENERAL FEATURES

Product designed and built entirely by SOMFY france to fulfill all customer requirements. SOMFY, the leading French company has got more than 30 years experience in manufacturing tabular motors and Control systems for shutters like roller star(SPAIN) to provide convience,comfort and energy savings.

MODELS:

LTCSI 50 SERIES

1. LT508A6CSI: Used to motorize a window shutter of weight around 14kgs with manual override system.
2. LT518A6CSI:Used to motorize a window shutter of weight around 12-24kgs with manual override system.
3. LT538R6CSI:Used to motorize a window shutter of weight around 35-50kgs with manual override system.

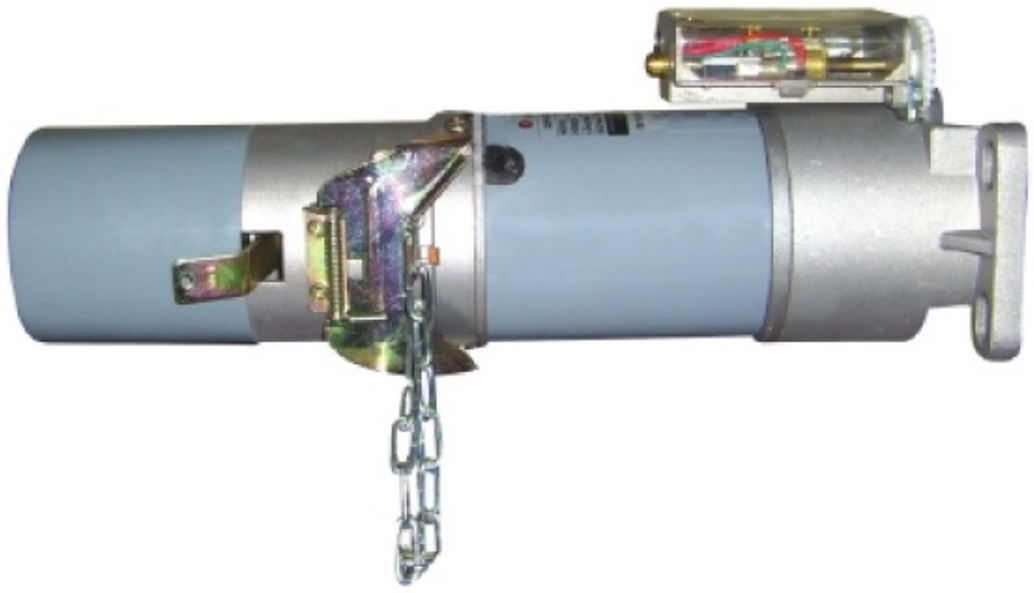
ACCESSORIES:

- Radio remote control (single channel,4channel)
- Radio receiver
- Wireless switch
- Key switch
- Push button sequencing relay/CD4

FEATURES:

- State of art technology is incorporated in designing and manufacturing SOMFY motors and their automatic controls ensuring exceptional performance and reliability.
- The motor is compact in size and round in shape.
- Designed to withstand whether conditions ranging from extreme cold to extreme hot.
- Can be operated by an remote control,push button or wireless switch or key switch.
- No interference with other electronic appliances.
- Motors can be controlled individually or in group along with other motors by using some special designed mechanism.
- Motors can be controlled by using sunrays and wind.
- Motors can be controlled by setting time of the timer daily or weekly bases using special accessories.
- Limit switches are provided to stop the movement of the shutter automatically in both up and down positions.

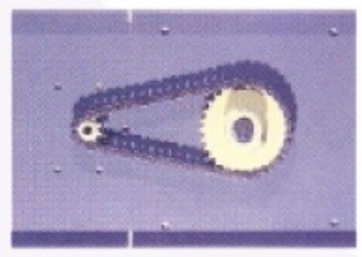
Side Motor Components



Bracket Set

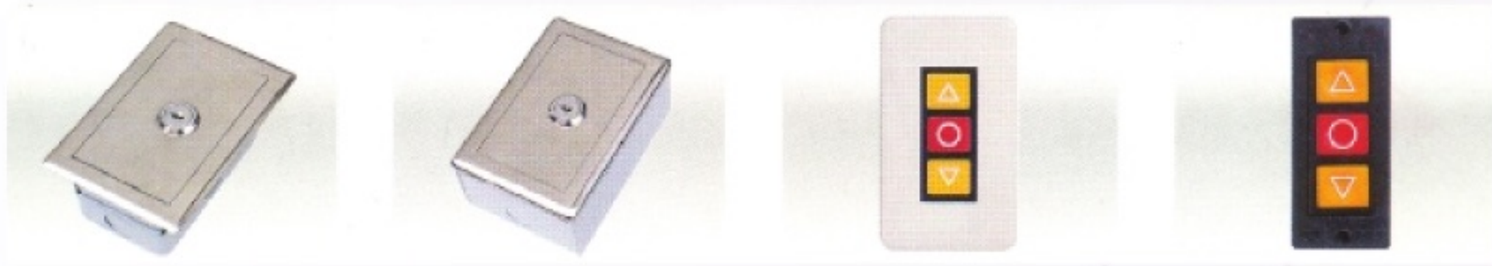


Gear Type

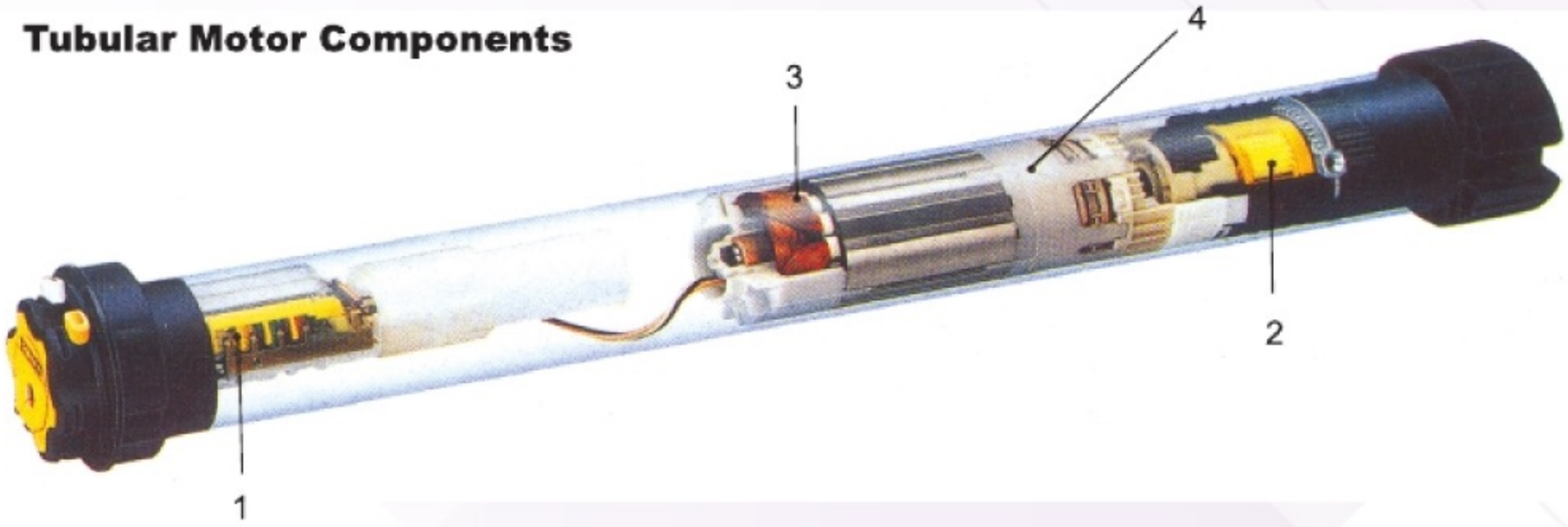


Chain Type

Accessories



Tubular Motor Components



1 - EASY LIMIT SWITCH ADJUSTMENTS:

Maintenance-Free.

Maximum tolerance of (+/-5°) on the roller tube during lifetime of the motor.

2 - GEARS:

Three stage planetary gear mechanism. Extremely quiet and reliable because of precision production.

3 - ASYNCHRONOUS MOTOR:

Maintenance free and permenantly lubricated.Features overheating protection,sturdy electrical and mechanical design and with a long lifetime.

4 - BRAKE:

Electromagnetic disk brake results in a smooth and accurate stop without any slippage. Features full braking power in the event of a power failure.

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The system used for securing the closure of shops or industrial buildings must be totally reliable, secure and simple.
MC PRO meets all these requirements! Like all SOMFY motors, it has been designed to withstand the toughest conditions of use for the longest period of time.
Among other innovative features, SOMFY has created a full range of accessories to facilitate everyday use, and to ensure that MC PRO can be adapted to all types of configuration.



Accessories

This safety box allows manual control and operation of the closure from outside the building in case of power failure.



This ultra-slim switch is a reversing switch for the safety box.



Key-operated control boxes.



Brake Release Handle

In the case of a power cut, the integrated brake release between the motor and the gear box makes manual operation very easy.The new aesthetic and ergonomic handle is very practical and ensures effortless handling.

Central Motor

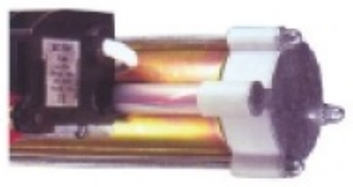
RELIABILITY

The new high-resistance crown in zamak with its carefully designed profile,offers a high definition outer surface finish that avoids any marking of the slates.The quality of the materials used for the box (ABS), is "shock and heat"-resistant.



SECURITY

The motor is equipped with a brake which holds the closure in the desired position. The electric wiring and connections are perfectly protected by a sealing cap.



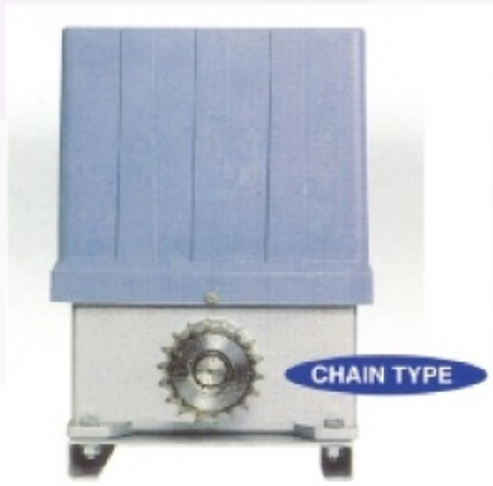
SIMPLICITY

The limit switch unit designed in one ABS block, allows a strong withstand to shocks and heat and an accurate adjustment; with our new device,only 1 cycle is required to adjust the limits.



Sliding Gate Motor



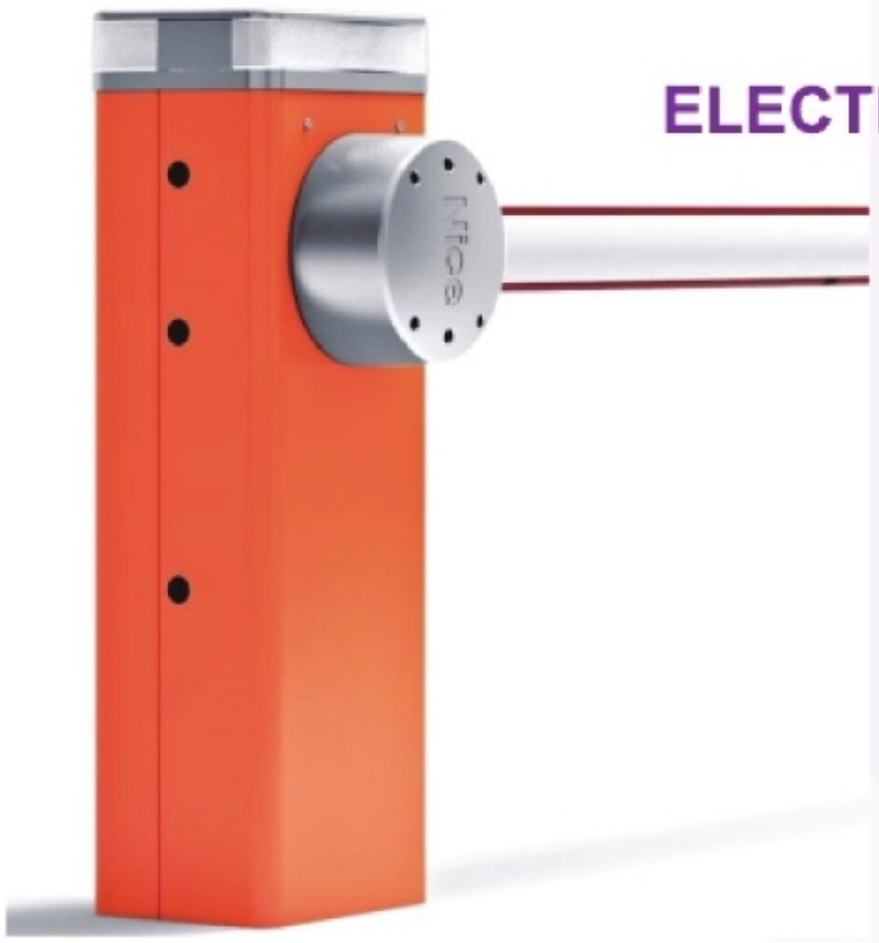




SOMFY GATE BARRIER



NICE GATE BARRIER



ELECTROMECHANICAL TRAFFIC BARRIERS

Barriers for vehicle access and control.

Very easy to install.

Ideal for car parks, shopping centres, hospitals,

official buildings, industrial pavilions, ...

Left hand and Right hand easily interchangeble.

Quiet in operation

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NICE SLIDING GATE OPERATOR



SOMFY SLIDING GATE OPERATOR



- **Fast opening** in 20 seconds.
- Robustness: for leaf **up to 500 kg** in residential or commercial.
- **Self-learing programming** system to start up the equipment quickly.
- Settings can be **adjusted** for customized installation of the motor torque.
- **Programming displayed on LCD screen** with software ing several languages.
- Mechanical external **declutching system.**

Mosameh
Since 1973

POWDER COATING COLOR CHART



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Mosameh
Since 1970

Mosameh
Engineered Like No Other



Insulated Steel Raised Panel



Super Insulated Commercial Steel Door

Nice

- Automatic Swing/Sliding Gates
- Remote Control Overhead Sectional Doors
- Automatic Rolling Shutters
- Car Traffic Barriers
- Inetrcom System
- Maintenance & Servicing On Call
- Maintenance Contract



B/W Door Camera



Intercoms

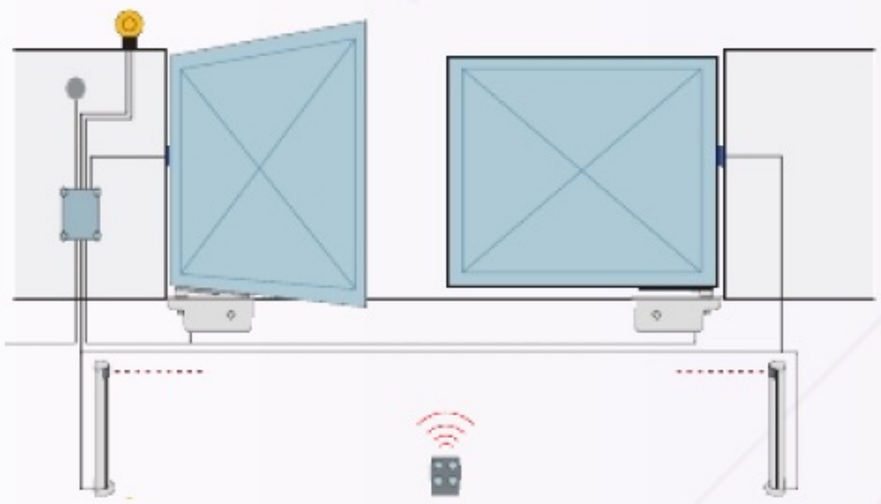


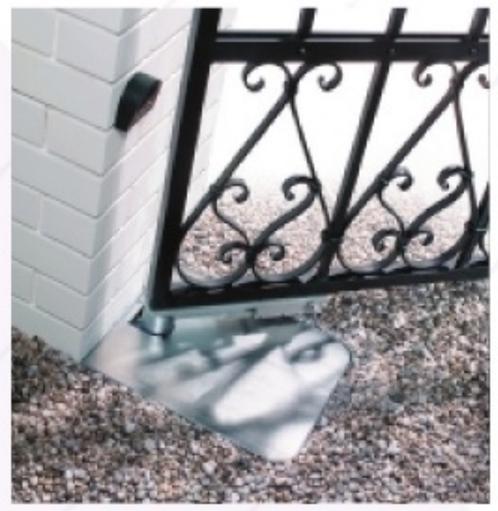
B/W Video Doorphone

Nice

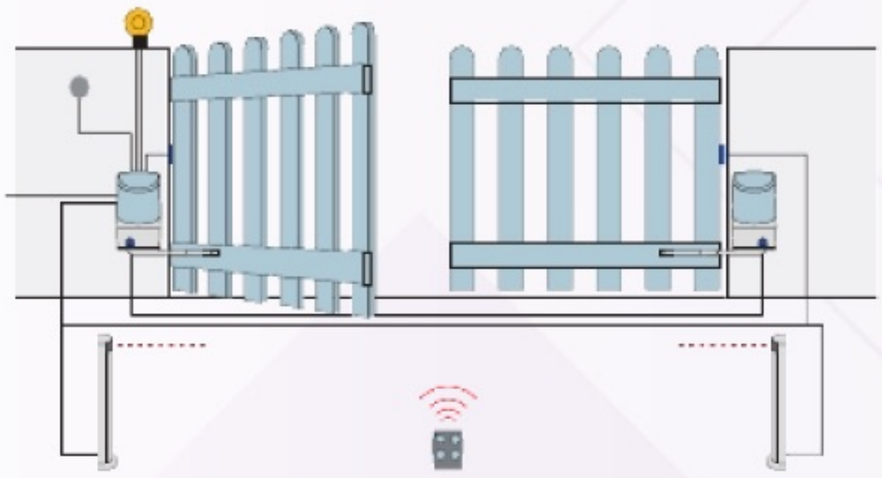
Automation for swing gates

A typical installation of an underground automation (Nice Metro)



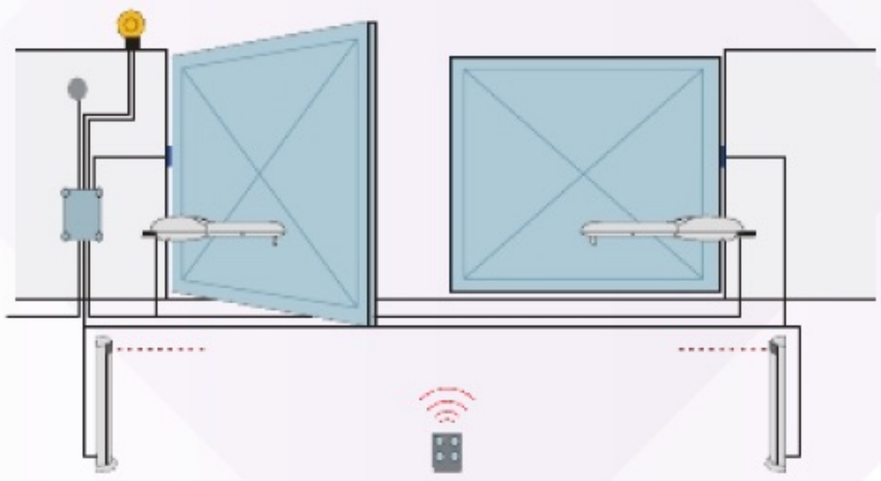


A typical installation of a motor with articulated arm (Nice Wingo)





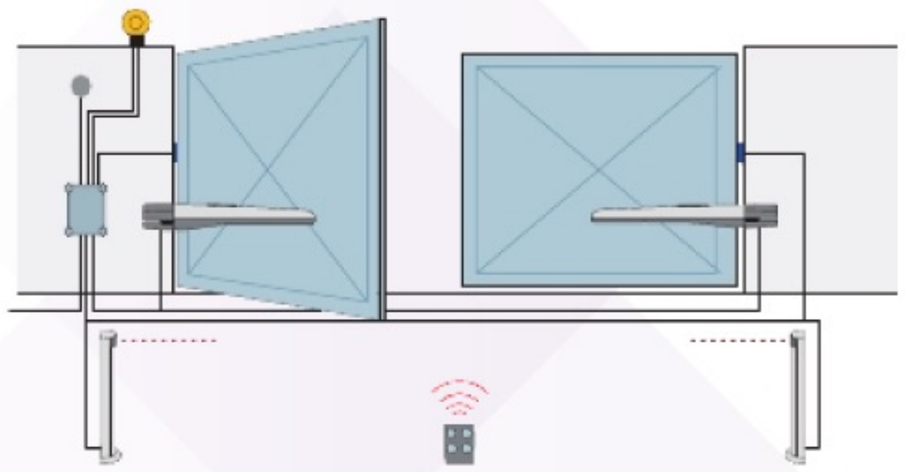
A typical installation of a motor with worm gear (Nice Moby5000)





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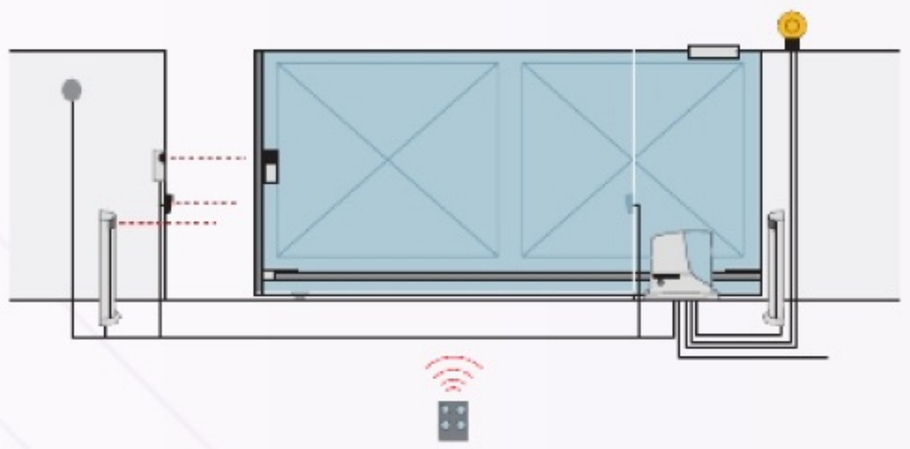
A typical installation of a motor with worm gear (Nice Toona)



Nice

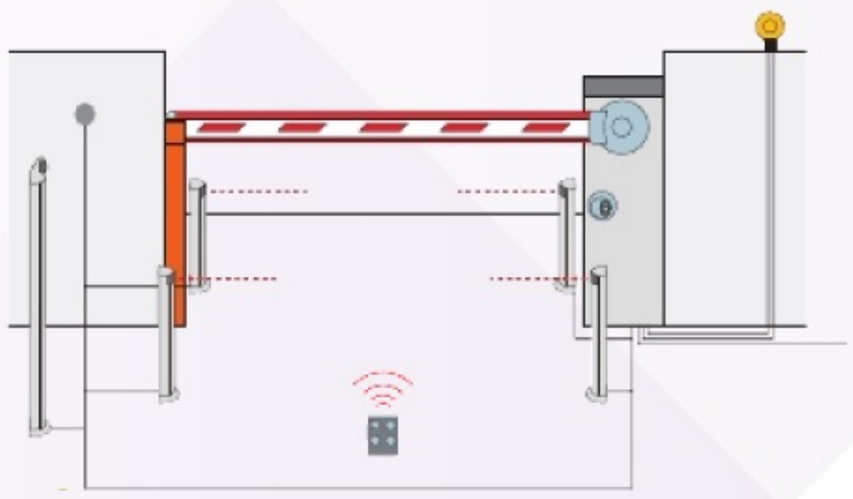
Automation for sliding gates

The automation for sliding gates comprises a motor with toothed wheel mounting a rack and pinion assembly fixed to the gate



Automation for electromecanical barriers gate

A typical installation with an electromechanical barrier gate operator







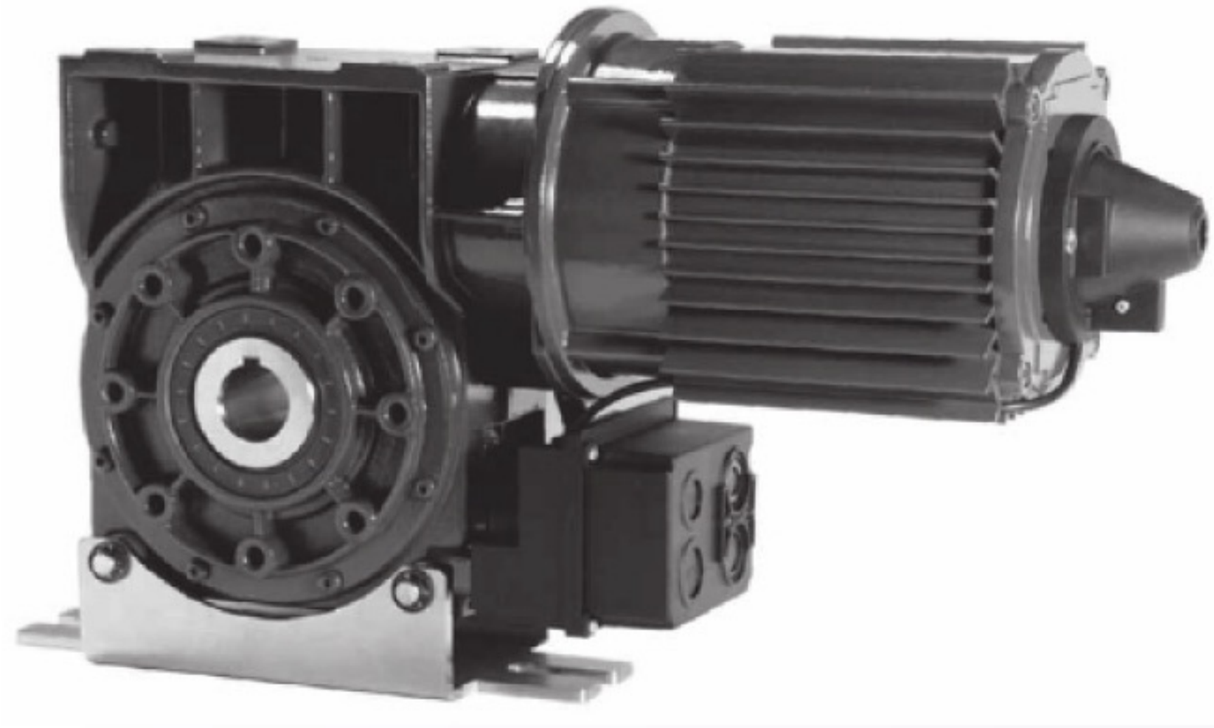


Mosameh
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Mosameh
Since 1973

RDF Industrial European Motor Nice Italy

CE



TECHNICAL SPECIFICATIONS

NOTE: all the technical characteristics indicated refer to a temperature falling beetwen -5°C and +40°C. • Nice reserves the right to change all the modifications to the product it deems necessary at any time, but keeping the functions and intended use unaltered.

Technical data

Model RDF-	140-20	220-15*	290-15*	380-15	450-15	550-12	750-9,5
Shaft Ø (mm)	30			40			
Max. torque (Nm)	140	220	290	380	450	550	750
Rated torque (Nm)	120	200	250	360	400	450	700
Output rpm	20	15	15	15	15	12	9.5
Motor power (kW)	0.55	1.1	1.1	1.5	1.5	1.5	1.5
Limit switch rpm	15	10-20	10-20	10-20	10-20	10	40
Working voltage (V/Hz)	3x230 V / 3x400 V 50 Hz						
Duty Cycle	S 3 - 60%						
Connection cable (no. x mm ^{2})	5 x 1.5						
Operating temperature (°C)	-5 ÷ +40						
Noise dB(A)	<70						
Protection rating (IP)	IP 54						
Weight (kg)	12.4	22	24	28.9	27.7	27.7	35

Model RDF-	850-10	1100-10	1400-7*	250-24*	350-24	500-24*	750-24*	950-24*	1250-24*	1400-24*
Shaft Ø (mm)	55			40			55			
Max. torque (Nm)	850	1100	1400	250	350	500	750	950	1250	1400
Rated torque (Nm)	700	950	1250	230	310	450	650	850	1100	1250
Output rpm	10	10	7	24	24	24	24	24	24	24
Motor power (kW)	2.2	2.2	2.2	1.1	1.5	2.2	2.2	3	4	5.5
Limit switch rpm	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40	10-40
Working voltage (V/Hz)	3x230 V / 3x400 V 50 Hz									
Duty Cycle	S 3 - 60%									
Connection cable (no. x mm ^{2})	5 x 1.5									
Operating temperature (°C)	-5 ÷ +40									
Noise dB(A)	<70									
Protection rating (IP)	IP 54									
Weight (kg)	51.7	51.9	58	24.1	29.2	32.7	51.9	61	63	65

* These models are not tested by TÜV-Nord

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