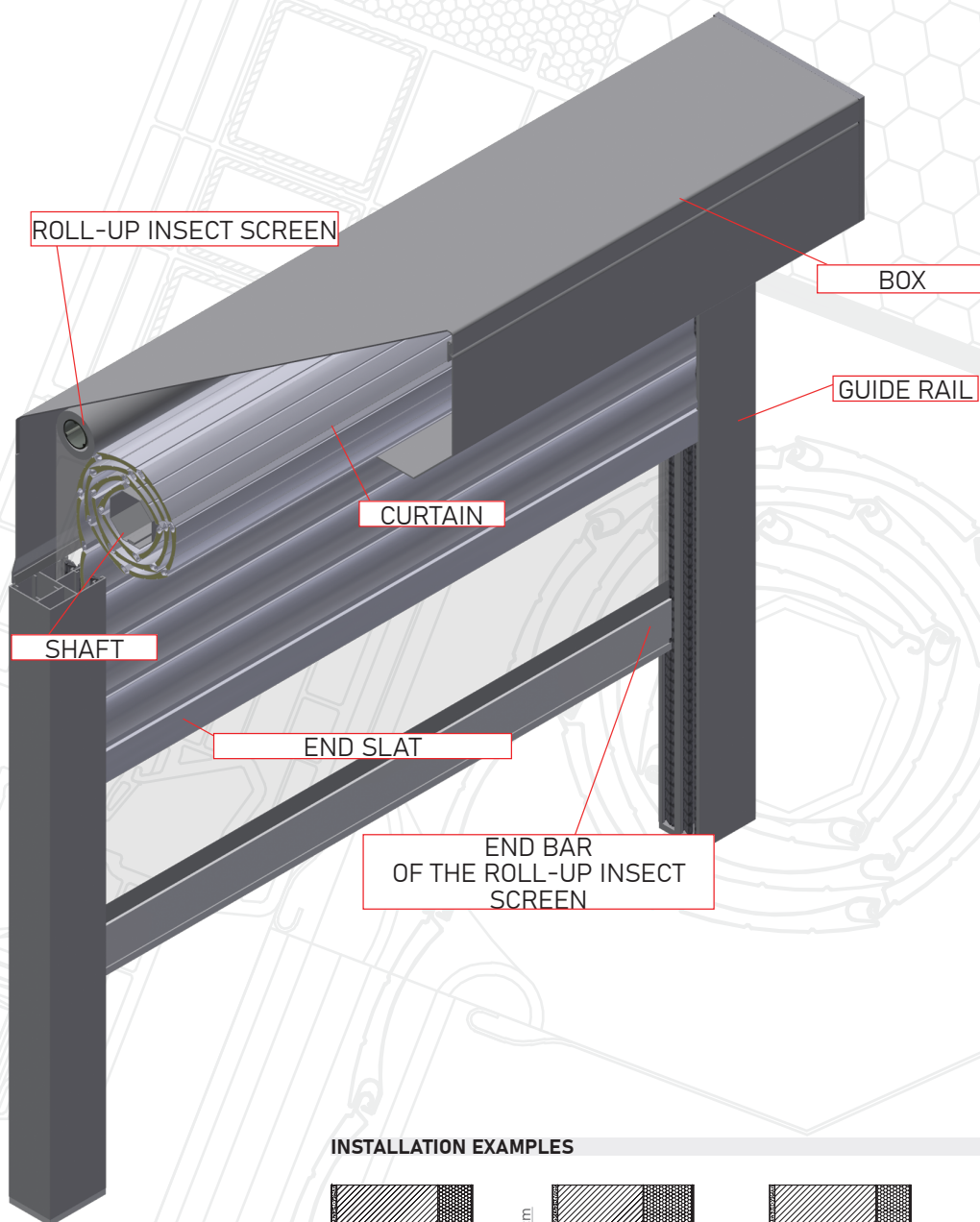
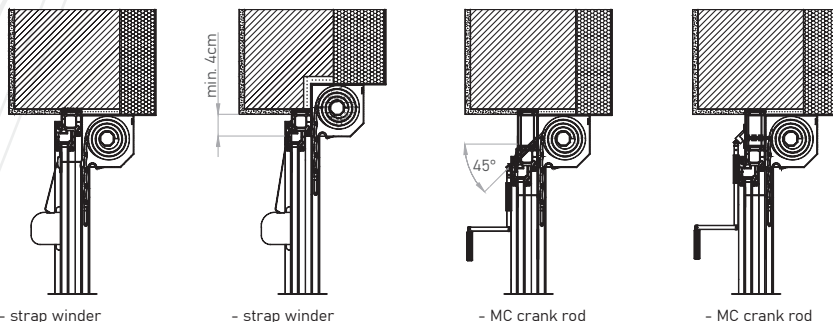


ROLLER SHUTTER INSTALLATION INSTRUCTIONS

FRONT-MOUNTED – VISIBLE AND CONCEALED

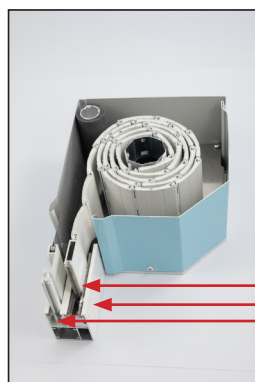


INSTALLATION EXAMPLES



ROLLER SHUTTER INSTALLATION INSTRUCTIONS

FRONT-MOUNTED – VISIBLE AND CONCEALED



1. Fit the left and right **guide rails onto the box consoles**. Make sure that the roller shutter entry guides are correctly positioned in the guide rail groove and that the integrated Roll-up insect screen is positioned correctly as well.

GUIDE RAIL roller shutter groove
insect screen groove



2. Place the roller shutter **on the window frame** and align it with the bottom of the frame. The left and right offsets depend on the measurements.

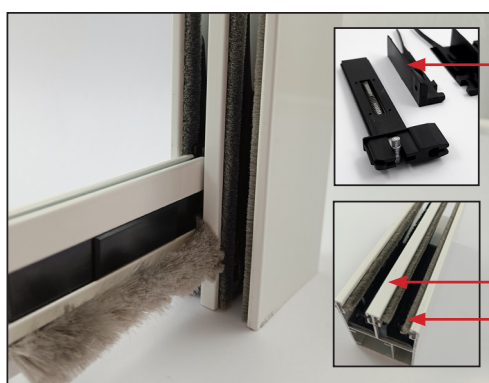
3. Use screws suitable for the window type (wood screws or screws for aluminium/metal). Use 4x16 self-tapping or wood screws. Longer screws may be used for a timber window frame.

GUIDE RAIL

4. Fit caps into the holes.



- Elements wider than 150 cm must be additionally screwed at intervals of no more than 70 cm.
- Elements with an electric drive must be screwed in place regardless of their width.
- The upper profile must be horizontal.



5. Set the height of the Roll-up insect screen and adjust the lower click position using the insect screen stopper.

6. Determine the stopper height according to the window type and, in some cases, the guide rail offset. The Roll-up insect screen can seal against the window frame or the window sill. Fasten the stopper in the guide rail using a 3.5x9 screw.

INSECT SCREEN GROOVE

ROLLER SHUTTER GROOVE

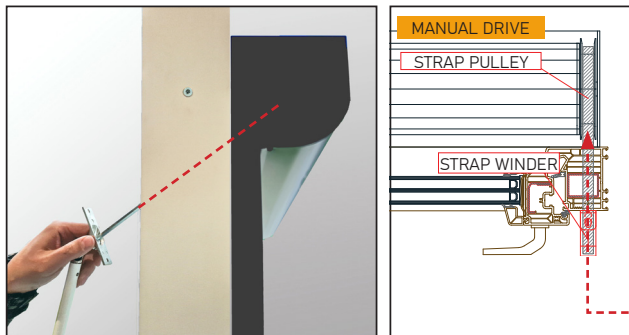
7. If the roller shutter has an EM drive with a test cable, check that it operates correctly mechanically and does not jam. The end positions must function correctly.

ROLLER SHUTTER INSTALLATION INSTRUCTIONS

FRONT-MOUNTED – VISIBLE AND CONCEALED

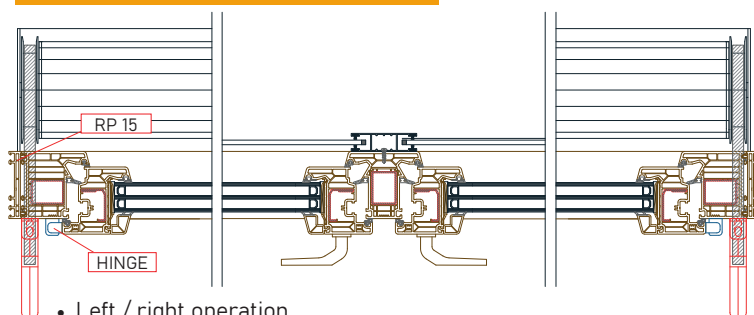


8. If the roller shutter is strap-operated (strap winder), drill the operating hole before mounting it on the window frame.

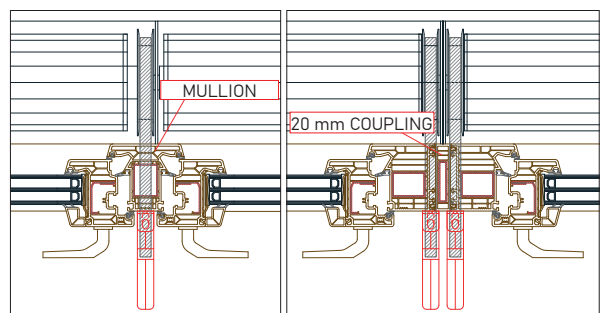


DRILL A HOLE for the MC crank rod

MANUAL DRIVE – MULTI-PART ROLLER SHUTTERS



- Left / right operation
- Window with mullion and 15 mm extension profile for correct strap routing on the hinge side.
- Combined operation possible

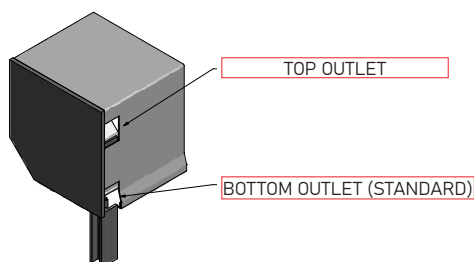


- Central operation
- Window with mullion
- Central operation
- 2 windows + 20 mm coupling

ROLLER SHUTTER INSTALLATION INSTRUCTIONS

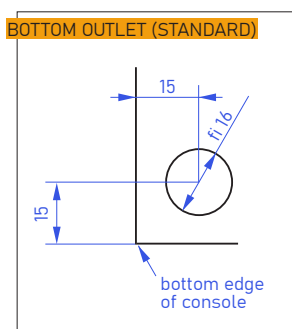
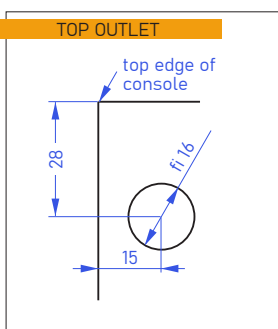
FRONT-MOUNTED – VISIBLE AND CONCEALED

STRAP OR CORD OUTLET



9. Place the roller shutter guide rails against the window and mark the top of the guide rail. For operation with a strap winder and strap, drill a hole approx. 1.5 cm above the marked guide rail position and approx. 1.5 cm from the façade. From the outside, enlarge the hole to Ø16 mm to allow the strap to run freely.

10. Feed the strap through the drilled hole and then fasten the roller shutter to the window frame.



11. On the inside, fasten the strap winder at the bottom of the window on the side of the drilled hole. The bottom of the strap winder should be aligned with the window sash. Feed the strap through the strap guide and fasten the strap guide to the window.



12. Straighten the strap so that it does not twist and hook it into the strap winder spring. Release the spring so that the strap winds up.



Guide rail symmetry - the distance between the guide rails must be the same at the top, centre and bottom!



Before leaving the site, **check the operation of all roller shutters.**



A visual inspection of concealed boxes is required before applying the final façade layer to ensure suitability for further installation and trouble-free operation of our elements.

SETTING THE MOTOR END POSITIONS (instructions for authorised service technicians and installers)

AUTOMATIC SETTING - Motor with automatic end-position setting (so-called PLUG&PLAY motors):

- The roller shutter is equipped with anti-lift springs and concealed stoppers.
- Once the roller shutter has been correctly wired and installed (remote control, switch/push-button or a combination of both), start raising the roller shutter curtain.
- When the concealed stopper reaches the entry guide in the roller shutter box, the motor detects the increased load and stops automatically.
- Then lower the roller shutter curtain. When the roller shutter is fully closed, continued rotation tensions the anti-lift spring.
- The motor detects the increased load and stops automatically.
- The motor uses this procedure to set its end positions.

MANUAL SETTING - Manual setting is carried out using the RED button on the motor head.

For this procedure, the roller shutter box must be opened (authorised installers and service technicians only!):

→ Setting the UPPER end position:

- Move the roller shutter curtain slightly below the desired upper end position.
- Activate the motor to raise the roller shutter and press the RED button on the motor head.
- The roller shutter moves while the button is held down. When the button is released, the upper end position is set (the RED button can be pressed as many times as required during the procedure. The position at which it is released for the final time is saved as the end position).

Setting the LOWER end position:

- Lower the roller shutter curtain slightly above the desired lower end position.
- Activate the motor to lower the roller shutter curtain and press the RED button on the motor head (the RED button can be pressed as many times as required during the procedure).
- The motor runs while the button is held down. When the button is released, this position is saved as the end position.

MOTORS WITH MECHANICAL END-POSITION SETTING - (setting using the plastic Allen screws on the motor head):

- With the roller shutter curtain detached from the shaft, connect the motor, run it in the downward direction and wait until it reaches its end position.
- Then attach the roller shutter curtain to the shaft using the anti-lift springs.
- Depending on whether the motor is installed on the left or right side of the roller shutter box, tighten or loosen the plastic Allen screw to precisely set the lower end position.
- Then activate the motor so that the roller shutter curtain starts moving upwards. While the curtain is rising, tighten or loosen the Allen screw to adjust the upper travel limit as the motor approaches it.
- When the motor stops, the exact position can be fine-tuned by turning the plastic Allen screw.