


IMPORTANT INFORMATION

Carefully read the enclosed installation instructions before installation. When installing the product, warnings and general instructions must be followed. All enclosed documentation must be provided to the user by the installer.

CONTACT US

Remember that you are always welcome to contact us if you need any help. Email or call our technical support at info@steplock.se or +46 21-480 12 13.

	Stendals EI AB Signalistgatan 17 72131 Västerås Sweden
STEP 50	13
SS-EN 14846:2008	CPR-50-01

STEP
LOCK

When it has to work.



Installation instructions STEP 50™

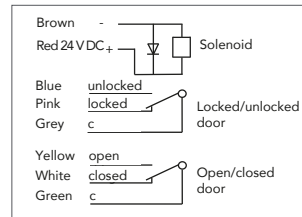
2021, version 1



POWER CONSUMPTION AND WIRING DIAGRAM

Power consumption 24 V DC, fail secure	Power consumption 12 V DC, fail secure
0 mA with rotating cam in standby	0 mA with rotating cam in standby
255 mA unlocked	480 mA unlocked

- The electric lock must be supplied with stabilized DC power, with deviations not exceeding +15 % / -10 % from the rated voltage.
- Microswitch unipolar changeover, max. 30 V DC, 1 A.
- Indication bolt contact: open / closed door.

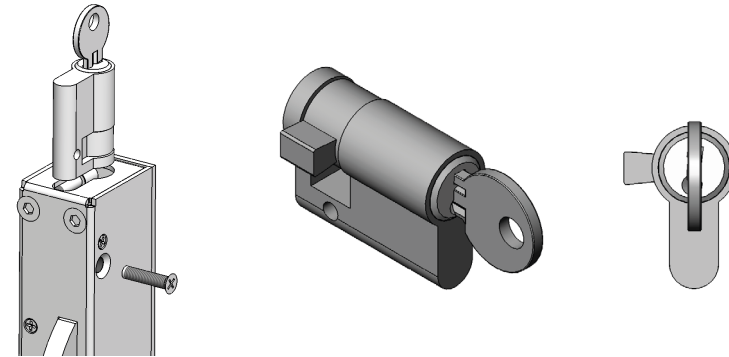


INSTALLATION INSTRUCTIONS

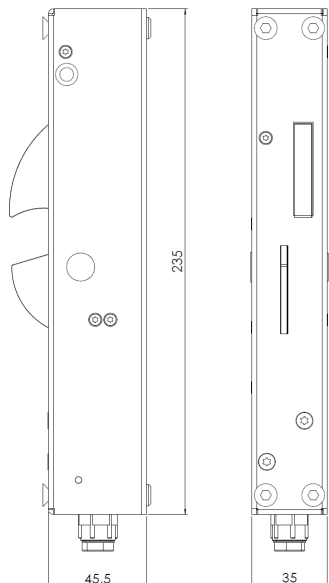
FOR EURO CYLINDER

The euro cylinder is available in the existing Assa Twin system.

Insert the euro cylinder into STEP 50 with the key in. Secure the cylinder with the included M5 screw. The pin must point to the left as shown when the key is withdrawn.

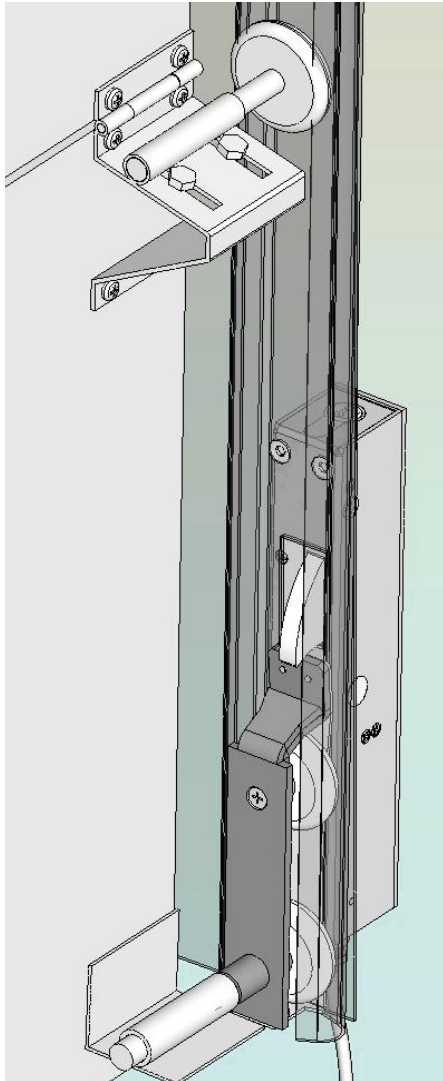


DIMENSIONAL DRAWING



INSTALLATION INSTRUCTIONS

STEP 50 WITH LOCK SLEIGH ST527-7 FOR INDUSTRIAL DOOR



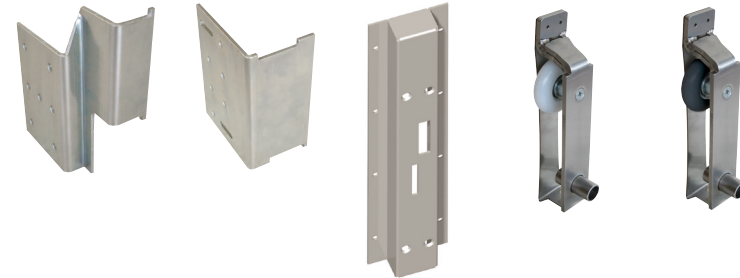
1. Remove the bottom wheel on the side best suited for installing the electric lock. Insert the wheel shaft into the sleigh; the wheel axle tube may need to be shortened for the wheel to fit between the plates. Screw the plate back onto the sleigh. Always use Loctite on the screws so that they do not loosen during use. Slide the lock sleigh into the C-rail; mount the wheel shaft back into the original bracket on the door. Now try sliding up the door to check that the lock sleigh runs freely all the way up to the top position. The tube on the lock sleigh may in some cases need to be welded to reduce movement of the locking sleigh on certain door types.
2. Determine and mark the approximate position of the electric lock by sliding the door down with the lock sleigh to its bottom position. On the C-rail, mark the point where the top part of the lock sleigh reaches. Make a square recess according to the dimensional drawing for both the lock hatch and the indication disc so that the bottom of the lock hatch reaches the same height as the mark. Mark and drill holes for the fastening screws through the C-rail so that the lock latch of the electric lock is against the lock sleigh with a maximum play of 5 mm, so as to prevent the lock gap from becoming too large. Countersink the holes and secure the electric lock with the four enclosed M5 screws coated with Loctite.
3. Connect the electric lock according to the wiring diagram.

ARTICLE NUMBER

Art.no	Designation
ST527	Electric lock STEP 50. 24 V DC. Incl. fixing screws and 5 m connection cable.*
ST527-12	Electric lock STEP 50. 12 V DC. Incl. fixing screws and 5 m connection cable.*

Art.no	Designation
ST527-1	Lock angle bracket designed for door with vertical or high-lift systems.**
ST527-2	Lock angle bracket designed for door with standard or high-lift systems.**
ST527-3	Euro cylinder including 2 keys.
ST527-5	Insert cassette designed for installation with ST527-2.
ST527-7	Lock sleigh designed for port with standard or low lift systems.**
ST527-9	Lock sleigh designed for port with standard or low-lift systems Hörmann**

ST527-1	ST527-2	ST527-5	ST527-7	ST527-9
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* Screws for mounting lock angle bracket to the door are not included.

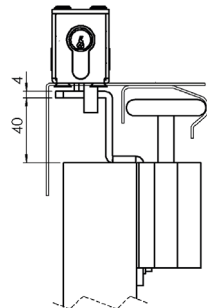
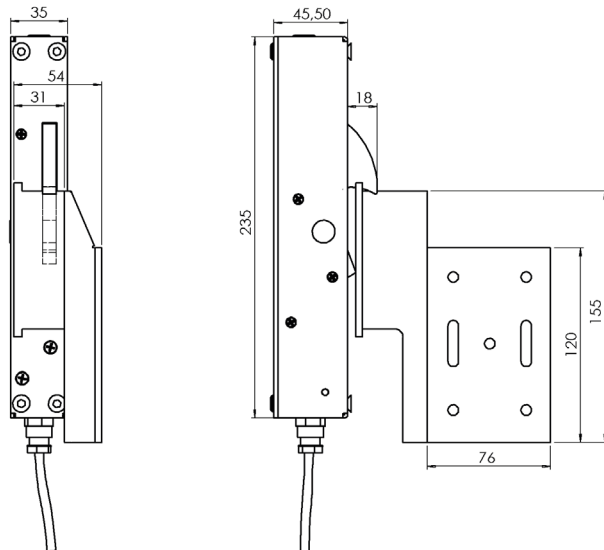
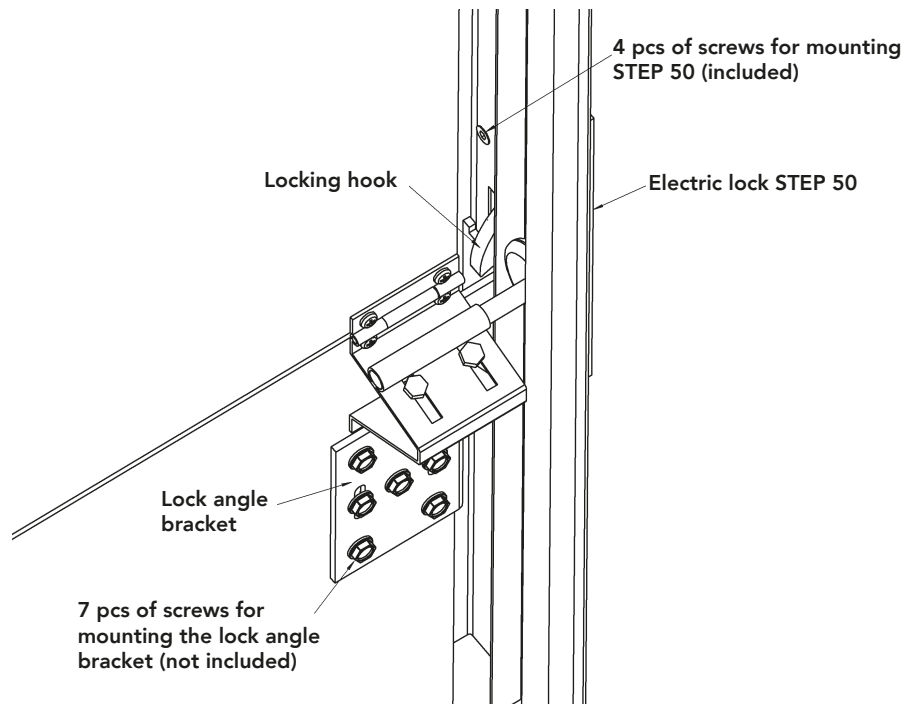
** The different systems can look very different and vary from door to door. We therefore recommend that you test your way forward to see which lock sleigh and lock angle bracket suits your particular installation.

TECHNICAL INFORMATION

- Built-in detection indication that the door is closed/open (bolt contact) and locked/unlocked (barrier contact) for connection to access control systems, alarm system, etc.
- Break resistance 10 kN (\approx 1 000 kg).
- Integrated protective diode.
- Material: Lock housing in stainless steel, lock latch in hardened steel.
- Including 5 m connection cable.

INSTALLATION INSTRUCTIONS

STEP 50 WITH LOCK ANGLE BRACKET ST527-1



2. Cut out for the lock housing cassette per the drawing. Drill for the M5 screws. Fit the cassette with STEP 50 to the rail with 8 screws.

3. Place the door in its bottom position and mark the position on the door blade where the lock angle bracket is to be mounted.

4. Align and attach the lock angle bracket in the two slotted holes so that the lock angle bracket can be laterally adjusted later.

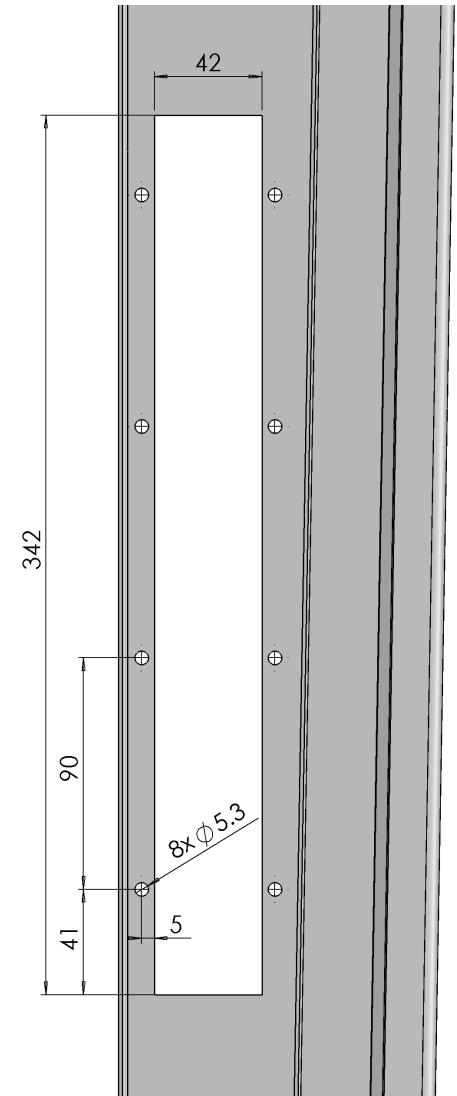
5. Make final adjustments to the lock angle bracket when the door closes so that the locking hook always comes out to the locked position. STEP 50 is tested to withstand pressure against the locking hook when opening.

6. Once the adjustment is complete, the remaining 5 screws are screwed into the lock angle bracket.

NOTE: Installation must be sufficiently stable that it can withstand approximately 1000 kg of lifting force on the door.

7. The lock angle bracket must be greased on the surfaces that come into contact with the locking hook.

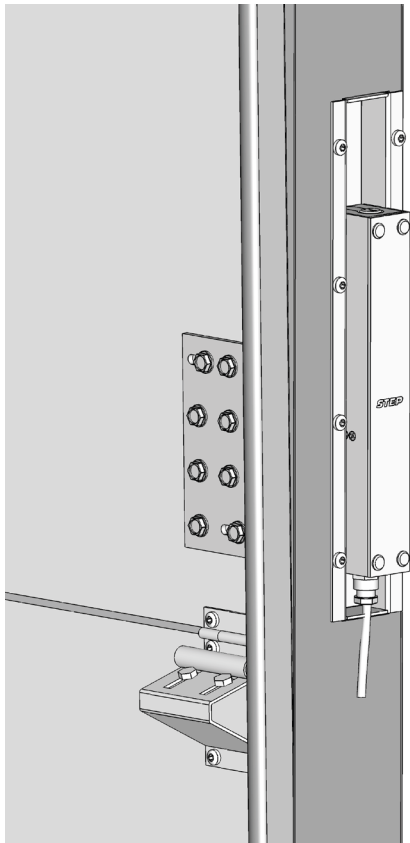
8. If the building has a high level of security, the cable for electrical connection to the lock should be placed in protective pipes so that it is inaccessible to unauthorised persons (e.g. shielded with protective pipes in close proximity to the lock). The screws for the lock angle bracket and cassette should be secured with a weld.



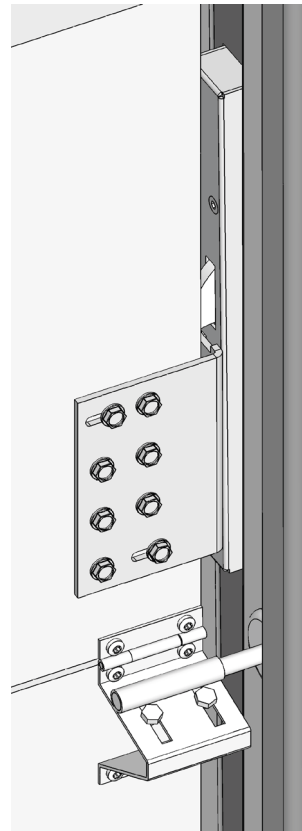
Recess drawing for cassette

INSTALLATION INSTRUCTIONS

STEP 50 WITH INSERT CASSETTE ST527-5 FOR INDUSTRIAL DOORS WITH 2 INCH RAIL



Drawing of STEP 50 with insert cassette ST527-5 for industrial doors with 2 inch rail.



1. Determine and mark the approximate position for placement of the STEP 50 electric lock. Measure so that the cassette fits into the space between the wall bracket and the wheel rail.

The electric lock can be mounted on the right or left side of the door and should be mounted as far down as possible. Try pushing the door up with the lock angle bracket provisionally attached. Make sure that the lock angle bracket does not fasten against the rail and that it runs free of the line.

1. Determine and mark the approximate position for placing the lock angle bracket. The electric lock can be mounted on the right or left side of the door.

The lock angle bracket shall be positioned as close as possible to the hinge bracket to withstand the bend of the rail. On the right side, the lock angle bracket is mounted below for the hinge bracket, and on the left side the lock angle bracket is mounted above the hinge bracket. It is also possible to mount the lock angle bracket under the wheel bracket to avoid the bend on the wall rail catching in the lock angle bracket. Try pushing the door up with the lock angle bracket provisionally attached.

2. Align and attach the lock angle bracket in the two slotted holes so that the lock angle bracket can later be adjusted both in the up and down direction.
3. Place the door in its bottom position and mark the position on the wall rail where the lock hook will hit the lock angle bracket. The electric lock also unlocks when pressure is applied to the lock hook when the opening signal is given. The lock angle bracket must therefore be mounted with as little play as possible (max. 5 mm) to obtain solid locking. Next mark where the first hole is to be placed (at least 86 mm from the lock angle bracket; see drawing).
4. Cut out space for the locking hook and the indication as shown in the drill template. Drill and countersink holes for the M5 screws. Secure the STEP 50 electric lock using the 4 supplied screws.

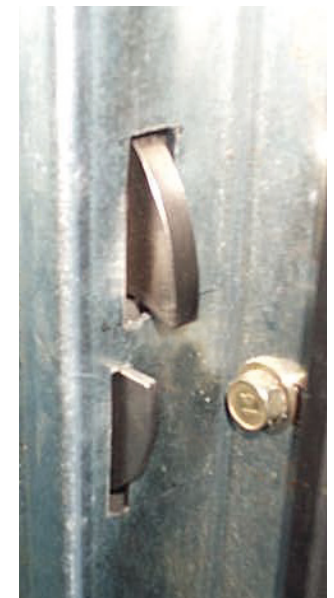
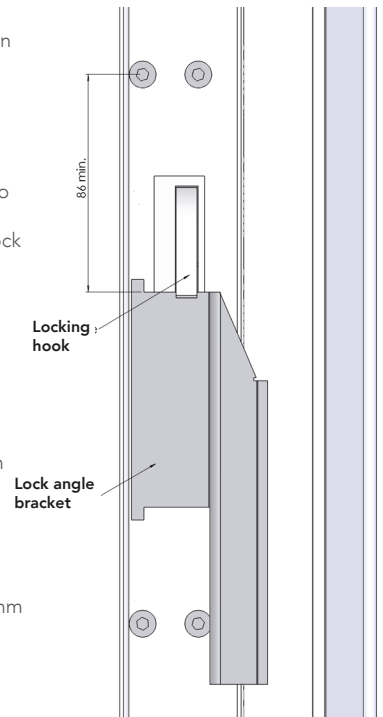
5. Make final adjustments to the lock angle bracket when the door closes so that the locking hook always comes out to the locked position. STEP 50 is tested to withstand pressure against the locking hook when opening.

6. Once the adjustment is complete, the remaining 5 screws are screwed into the lock angle bracket.

NOTE: Installation must be sufficiently stable that it can withstand approximately 1000 kg of lifting force on the door.

7. The lock angle must be greased on to the surfaces that come into contact with the locking hook.

8. If the building has a high level of security, the cable for electrical connection to the lock should be placed in protective pipes so that it is inaccessible to unauthorised persons (e.g. shielded with protective pipes in close proximity to the lock). The screws for the lock angle bracket should also be welded so that the lock angle bracket cannot be dismantled.



DRILL TEMPLATE

