

Railing set



RB-03TP

Certificate and operation manual



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Dear customers!

We thank You for choosing the product manufactured by PERCo. You have purchased the high quality product, which will be long lasting in operation provided that installation and operation rules are observed.

The Certificate and operation manual for **RB-03TP** Railing set (hereinafter referred to as the “**railing set**”) contains data that is necessary for the most full usage of operating advantages of the turnstile as well as chapters on packaging, installation and maintenance.

Only qualified personnel, following the instructions of this Certificate and manual, must carry out installation and maintenance.

1. APPLICATION

The guide barriers set is used as a part of the **RTD-03S** waist-high rotor turnstile (hereinafter referred to as the “**turnstile**”) and is designed to limit its nonpassage area.

2. OPERATION CONDITIONS

The railing set, in accordance with the resistance to environmental exposure, is compliant with GOST 15150-69, category NF 4 (artificially controlled climate conditions).

Operation of the railing set is allowed at ambient temperature between + 1°C and +45°C and relative air humidity up to 70% at +27°C.

3. DELIVERY SET

Centre post.....	1
Indication post.....	2
Indication cable	1
Centre rail with indicators (timber)	1
Rail (timber).....	2
Filler panel (polycarbonate plastic)	1
Mounting screw M3x8	6
Furniture mounting screw M6x30.....	15
Screw 4x20	12
Hex-nut wrench S=1.5	1
Operation manual.....	1
Packaging	1

Optional Equipment

Optional equipment is supplied on request:

• SORMAT PFG IH 8 anchor bolt.....	9
• Bolt M8x50 12x18H10T, DIN7984 A2	9
• Hex-nut wrench S=5.....	1

4. BRIEF DESCRIPTION

4.1 Main features

The rails of railing set are made of timber, the posts are made of polished stainless tubular steel Ø50 mm. Tinted polycarbonate plastic is used as filler panels.

The railing set is provided with built-in indication allowing visual determination of the turnstile operating mode.

4.2. Design

The general view of the railing set is shown in Fig. 1.

The overall dimensions are given in Figure 2.

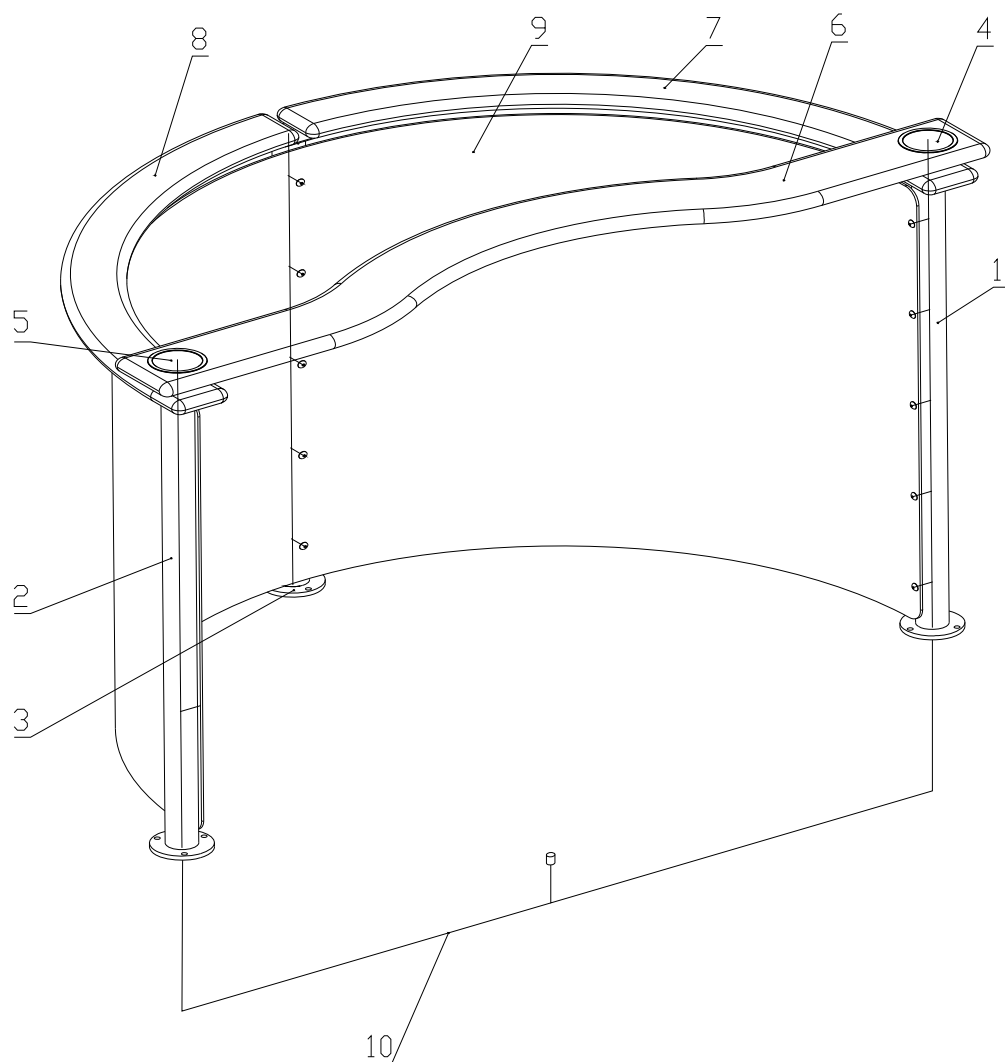


Fig. 1. General view of the Railing set

1 — right indication post; 2 — left indication post; 3 — centre post; 4 — right indication module;
5 — left indication module; 6 — centre rail; 7 — right rail; 8 — left rail; 9 — filler panel;
10 — indication cable

5. MARKING AND PACKAGING

The railing set in the delivery set (see Chapter 3) is packed into the shipping box, which keeps it undamaged during the transportation and storage. The guide barriers set is packed in 2 shipping boxes.

- Box 1 — 1356 x 366 x 216mm (length x width x height);
- Box 2 — 2160 x 1000 x 116mm (length x width x height).

The shipping boxes have marking.

6. SAFETY REQUIREMENTS

Installation safety requirements

- The installation should be carried out only by the qualified personnel after the careful study of this Manual.
- Use only the serviceable tools for installation.
- Observe general electrical safety rules when laying out the cables.

Operation safety requirements

- Do not use the railing set under conditions that do not comply with the requirements of Chapter 2 of this Manual.

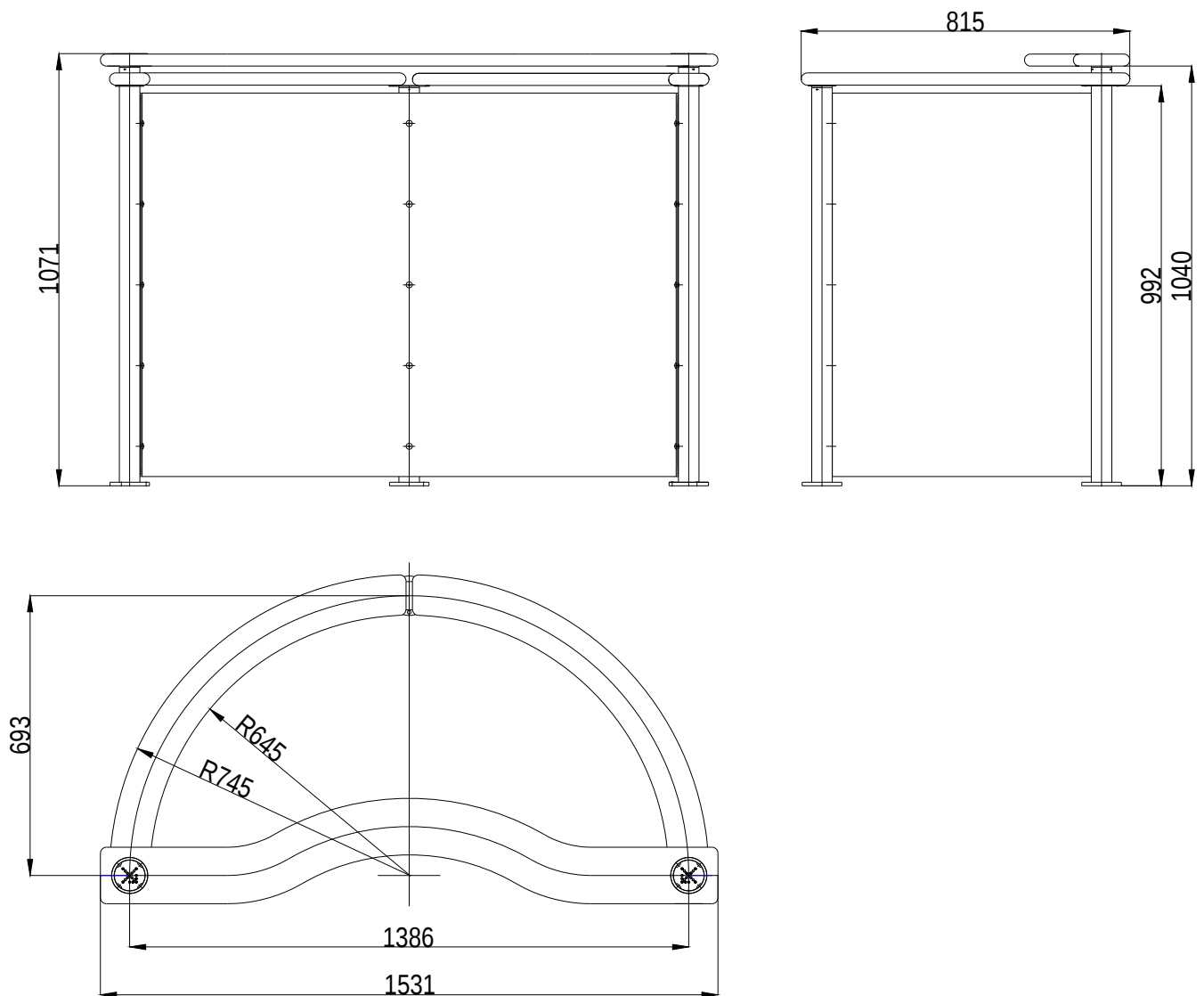


Fig. 2. Overall dimensions of the Railings set

7. . INSTALLATION INSTRUCTIONS

7.1. General Recommendations

IT IS RECOMMENDED:

- to mount the railing set on steady and level concrete (grade 400 or higher, strength group V22.5), stone or similar foundations at least 150mm thick;
- to level the foundation so that the anchoring points of the posts lie in the same plane;
- to apply reinforcing elements (300x300x300mm) for installation on less steady foundation;
- to mark the mounting holes according to the enclosed installation instructions (see Fig.3);
- to control the vertical position of the posts during installation.

7.2. Installation tools

- 1.2–1.5kW perforator;
- Ø14mm hard-alloyed drill for anchor bolts;
- Hex-nut wrench S=1.5;

- Hex-nut wrench S=5;
- Plumb - line and level;
- Measuring tape 3m.

7.3. Installation procedure

Note! The manufacturer shall not be liable for any damage caused in the result of improper installation and declines any claims arising thereof in case if the installation is not in compliance with the instructions provided in this Certificate and manual.

7.3.1. Unpack the railing set, check the completeness as per Chapter 3 of this Manual.

7.3.2. Study the Certificate and manual carefully prior to the installation.

7.3.3. All positions are marked as per Figure 4. Recommendations for preparation of mounting holes for installation of the posts are given for the "SORMAT" anchor bolts for steady concretes (see Table 1).

Table 1

Anchor bolt size, mm	Drill diameter, mm	Drilling depth, mm
PFG IH-8	14	50

7.3.4. Mark out the holes for the anchor bolts for the guide barriers post installation as shown in Fig. 3.

7.3.5. Drill the holes for the indication cable and PFG IH-8 anchor bolts for the posts mounting in the floor. Insert the anchor bolts sleeves into the holes so that they do not stick out above the floor surface.

7.3.6. Lay out the indication cable (8) via the right and left indication posts (1,2) accordingly (not connecting to the indication modules). The connector marked with paint is laid via the right indication post (1). The centre connector is brought out in the centre of the electric raceway.

7.3.7. Unpack the guide barriers set posts from the shipping box and carefully place them with flanges on the anchor bolts sleeves. The posts should be mounted strictly upright. The posts adjustment is recommended to perform by installing the different-size gaskets under the turnstile post flange. Prefasten the posts with M8 bolts.

7.3.8. Take the filler panel (7) out of the shipping box. Mount the filler panel on the centre post (3) through the centre holes with screws (11). Fasten the filler panel sides one after another to the two indication posts (1,2) with screws by bending the filler panel carefully in the direction of the corresponding post. This operation is recommended to perform by two persons.

7.3.9. Take the right and left rails (5,6) out of the shipping box and fasten them on the posts (1, 2, 3) with screws (10). Check that the rails holes match with the flanges holes on the posts.

7.3.10. Take the centre rail with indicators (4) out of the shipping box. Connect the indication cable to the indication modules using connectors.

7.3.11. Set the centre rail into the right and left indication posts up to the stop. Fasten the centre rail with mounting screws (9) using the S 1.5 hex-nut wrench, included in the delivery set.

7.3.12. Finally fix the guide barriers set posts to the floor.

7.3.13. The indication cable connection to the turnstile is performed according to the connections scheme.

8. MAINTENANCE

The railing set does not require any special maintenance during the whole operating period.

For cleaning the timber parts of the guide barriers set it is recommended to use furniture polishing aerosol. For cleaning the posts it is recommended to use liquid purifiers, containing liquid ammonia.

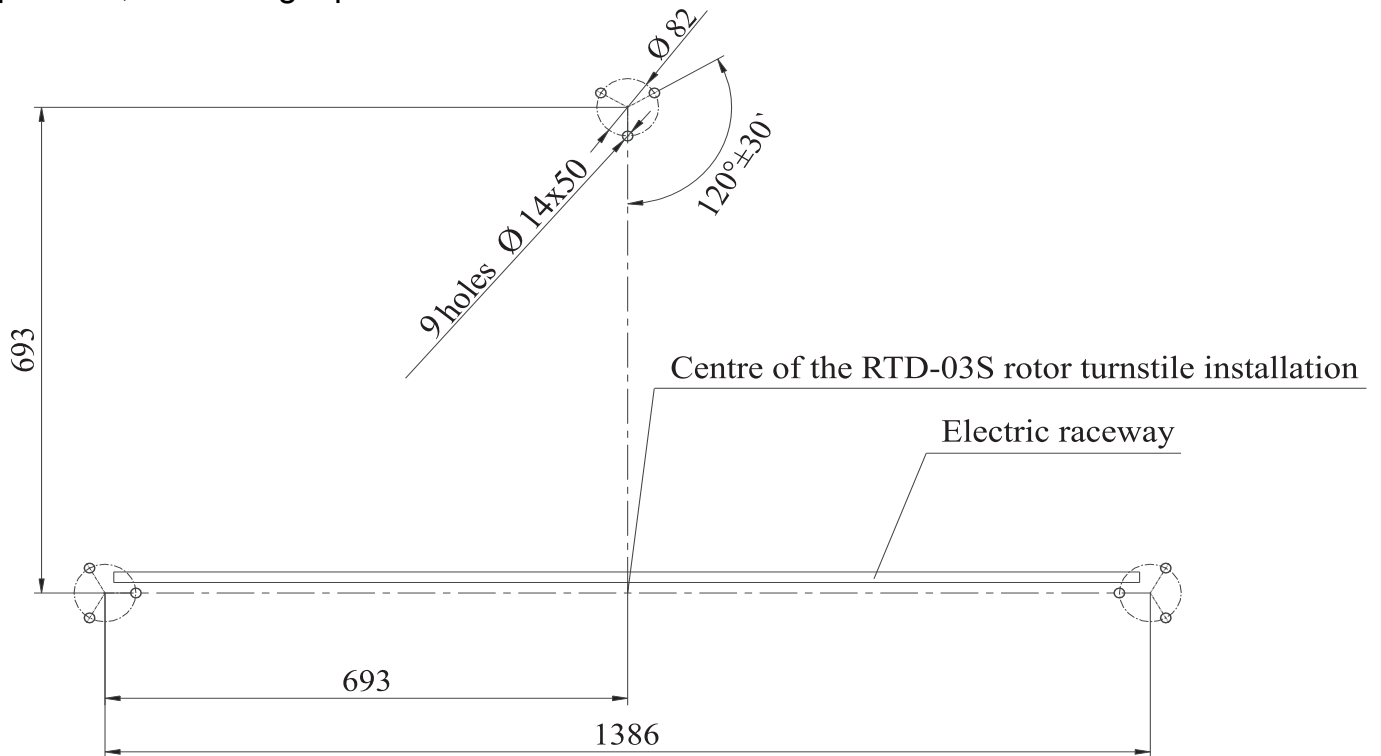


Fig. 3. Marking for mounting of the Railing set posts

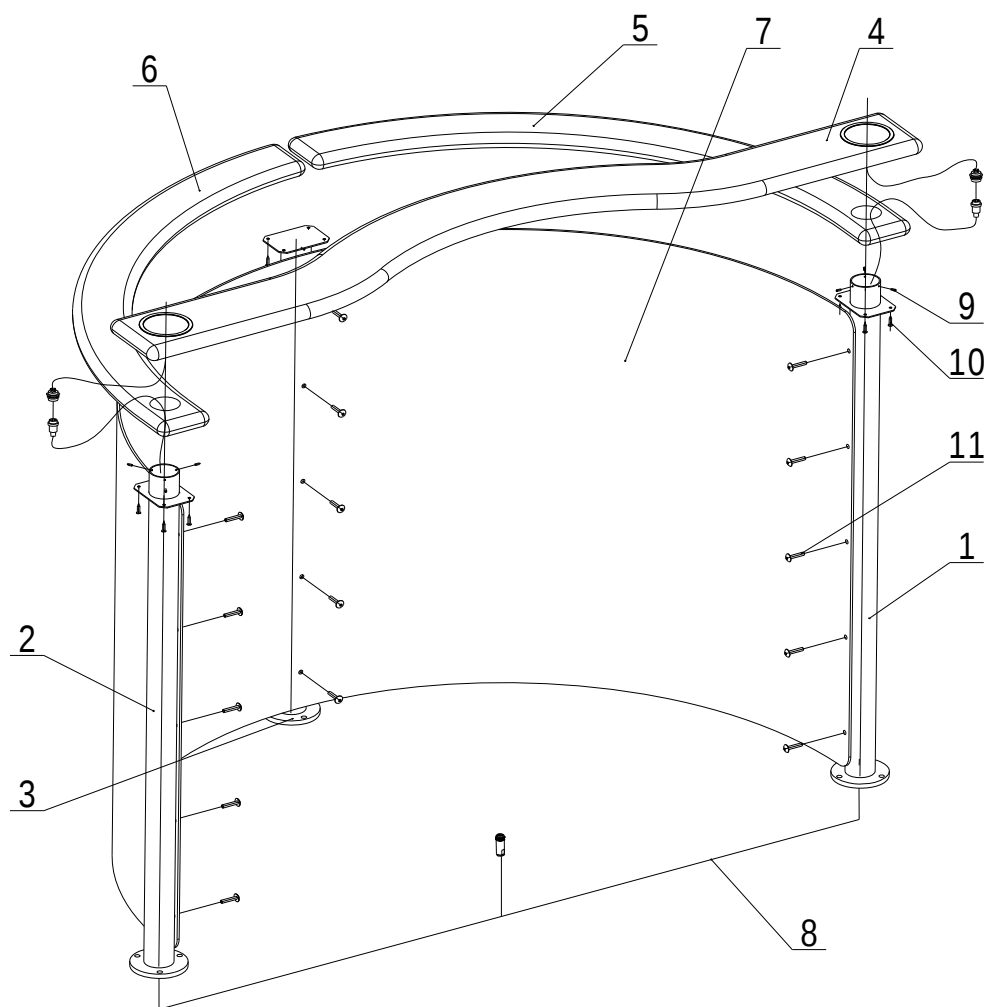


Fig. 4. Railing set installation

1 — right indication post; 2 — left indication post; 3 — centre post; 4 — centre rail with indicators;
5 — right rail; 6 — left rail; 7 — filler panel; 8 — indication cable; 9 — M3x6 mounting screw;
10 — screw 4x20; 11 — M6x30 furniture mounting screw

9. TRANSPORTATION AND STORAGE

The railing set in the original package can be delivered by any means of transportation.

During the transportation boxes can be stacked in 3 rows.

The storage of the guide barriers set is allowed indoors at ambient temperature between -10°C and $+45^{\circ}\text{C}$ and at relative air humidity up to 98% at $+25^{\circ}\text{C}$.

After the transportation at temperatures below zero or at high air humidity the guide barriers set must be kept unpacked for not less than 24 hours indoors within normal climate conditions prior to putting it in operation.