

## **Supervision conditions for the STROTHMANN RoundTrack®**

(Abbreviations in use: Contractor = Co / Client = Cl)

1. The supervision costs are based on a one-time journey to the site and continuous work from Monday to Friday (without night shifts/weekend and holiday work). Any additional costs incurred for the above as well as additional costs for unplanned interruptions, wait times or additional travel to and from the site will be invoiced separately according to the work actually required.
2. The complete area around the RoundTracks® installation (plus 2 m on all sides) must be kept clear during the installation period.
3. Any required lifting equipment (e.g. forklift trucks, crane, lifting platforms, etc.) will be provided free of charge by the Cl.
4. The Cl will define and mark at least 2 freely accessible reference points (required for precise positioning of the tracks) for installation of the RoundTrack® system. In case of complex systems additional reference points are necessary and have to be provided by the Cl.
5. The Cl must provide rubble skips and containers for waste water disposal at the start of the assembly. The Cl is responsible for disposal of all skips and containers including leftover RoundTrack transport and installation material after assembly.
6. Cuts made in the floor screed/concrete floor can affect the structural integrity of the substructure. For this reason, it is the client's responsibility to have the overall load and work in the reinforcements checked for structural integrity. The Co will not assume any liability for resulting damage or level lowering, unless there is a legal requirement to assume liability.
7. The Cl must ensure that no intact underfloor lines are routed in the saw cut area. The Co will not assume any liability for damage resulting from damage to these lines, unless there is a legal requirement to assume liability.
8. For the cutting work, it is assumed that cuts are to be made in concrete. Cutting and removing of steel inserts in the concrete, including dry shake topping using corodur or similar substances will cause additional wear on diamond grinding wheels and prying tools that is not calculated and will increase the work time. Any additional expenses resulting from the above will be invoiced based on the required work.
9. Adapting the building floor to the RoundTracks® or applying cover coats after completion of the installation work is not part of the Co's scope of services.
10. To ensure installation accuracy, the assembly aids of the Co must be used for any installation.
11. The installation height of the RoundTrack® is aligned according to the highest floor level. Any deviations require mutual agreement. Adaptation work must be completed by the Cl. It is not possible to install the track so that it follows the floor level.
12. Grouting of floor slots is a manual activity. After grouting of the floor slots, the grouting may deviate from the old floor. This does not constitute a reason for rejection. The floor height determines the grouting height.
13. The Cl is responsible for guaranteeing the evenness of the floor on site. We recommend having the floor profile measured before installing the tracks. This profile measurement constitutes an additional service at cost. The Cl must sign the resulting measurement record for approval.
14. The Cl is responsible for ensuring sufficient lighting and a building and substrate temperature range between +5° and +35°C on site as well as a weather-protected installation area. If necessary, the installation area must be heated.
15. Simultaneous activities (e.g. cleaning or floor work) of the Cl must be coordinated with the Co. In particular, simultaneous activities immediately adjacent to the RoundTrack installation area, e.g. lifting platform work, is not permitted.
16. It is necessary to ensure that the Co's employees (incl. vehicles) have free access to the installation site and can perform the quoted work.
17. The Cl must provide a protected storage location for all supplied material.

### **Tolerances of the installed RoundTracks®:**

- Tolerance of the track width: +/-0.5 mm along the complete track length
- Evenness tolerance (height): +/- 1.0 mm along 5,000 mm travel path length
- Length tolerance: approx. -1mm along 3,000mm path
- Narrower tolerances on request

### **Recommended floor properties:**

- Minimum concrete slab thickness: 200 mm
- Minimum concrete strength class: C25/30
- Modulus of subgrade (soil type):  $\geq 200 \text{ MN/m}^3$  (e.g. well compacted crushed stone)
- Floor evenness DIN1802 table 3, line 3 or +/- 5 mm tolerance along 5 m length in the travel path area

Sizes and tolerances of floor slots		
RoundTrack 25	RoundTrack 40	RoundTrack 60
Width: 100 <sup>+5</sup> mm Depth: 50 <sup>+5</sup> mm	Width: 140 <sup>+5</sup> mm Depth: 75 <sup>+5</sup> mm	Width: 180 <sup>+5</sup> mm Depth: 90 <sup>+5</sup> mm
Straightness and parallelism of the recess: $\pm 10 \text{ mm}$		

In general modern conventional industrial flooring is sufficient for installing the RoundTrack®. If you have any doubts about the evenness of the floor, we can also offer you floor profile measurement acc. to item 13 separately on request.

### **Connection to ground and equipotential bonding:**

The RoundTracks® must be included in the overall equipotential bonding concept at the installation site. The typical measured value for electrical resistance is  $<0.02\Omega/\text{m}$  provided the installation work was performed correctly. The Cl is responsible for the design and number of grounding points. The rails must be connected to the equipotential bonding and the equipotential bonding must be checked by the Cl. Please indicate the required number of grounding straps in the order. We are unable to indicate the number of required equipotential bonding points, as we are not familiar with the local conditions e.g. lightning protection concept, floor, steel structures, etc..

### **Installation equipment and methods used by Strothmann:**

For installation of the tracks, construction industry measuring devices are used (e.g. surveyor's level, construction theodolite), which are not as accurate as machine construction measuring devices. Increased accuracies must be discussed with STROTHMANN beforehand.

**Provided by the customer:** **Workers:** sufficient number (see our quote), PPE, Qualification and ability of workers to perform the relevant work. **For channel construction:** Tape measure suitable for channel length and situation, quality 1, Tape measure 5 metres, quality 1, Percussion drill with drill bit  $\varnothing 6.10$ , Concrete anchor bolts anchor bolts  $\varnothing 6 \times 60$  e.g. Hilti HUS bolts, Cord 100 metres, longer for larger systems, Floor marking spray, possibly several depending on order, Permanent marker, Floor saw with diamond discs, Wet vacuum cleaner with accessories, Jack hammer with flat and pointed bit, Dustpan and brush, Container for construction waste, Trowels in different sizes, Pressure washer with accessories. **For track assembly:** WD 40, Tape for covering during grouting, width 45mm (RT25) and 75mm (RT40), Angle grinder with various cutting wheels, Cordless screwdriver, Pry bars, assembly levers of different lengths, Vacuum cleaner, Socket wrenches size 10 and 13, set, Plastic hammer 300 grams. For grouting the tracks: High-strength, fluid and non-shrink grout - grout with maximum grain size 1 mm. If unavailable, 2 mm grain. (Recommended: Pagel V2/10, MasterFlow 928) Quantity: 10kg/m RT25, 16kg/m RT40 (correct channel sizes are provided), Agitating machine with agitator, Metal bucket with 12 litre volume, metal bucket with 25 litre volume, Water connection with valve and, if possible, GEKA coupling, Basin for water, Measuring cup 5 litres. If required: Anchor bolts with a length of 80 - 120 mm for increased accuracy, Drill screw tap, counter bore grounding. **Measuring tools:** Automatics surveyor's level, 32-time magnification incl. measuring rod with clearly visible mm (unit) scale and round spirit level

Information about the properties and application of products does not constitute a warranty or guarantee of properties, but is only intended for information purposes.

For additional information, please go to: <https://strothmann.com/en/systems/roundtrack-systems/track-guiding/>