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TECHNICAL DATA SHEET

GW0090 Stainless Steel Guidance Solution



1. PRODUCT DESCRIPTION AND APPLICATIONS

- **Intended use:** A surface-mounted tactile guidance system (tactile guidance bar) for stone, concrete, or other hard surfaces in public and private buildings. The product is highly suitable for both indoor and outdoor use in locations requiring exceptionally high wear resistance.
- **Accessibility and warning function:** The system is developed for the accessible, effective, and safe guidance of visually impaired persons. The raised profile, which rises 5 mm above the floor surface, forms a tactile indicator that is easily detectable and trackable either through footwear or with a white cane.
- **Modularity and functionality:** The patented system is based on advanced modularity, allowing for 0–30 degree angles at every intersection point using ready-made components. The components are connected to each other with mechanical male/female extension pieces, ensuring the straightness and continuity of the guidance line.

2. DIMENSIONS AND SYSTEM COMPATIBILITY

- **Main profile dimensions:** The width of the bar is 25 mm, and the height of the raised profile from the finished floor surface is 5 mm.
- **System components:** The system consists of factory-ready, standardized straight module bars, as well as separate intersection and corner pieces, enabling versatile routing without the need for complex machining.

System parts and intersection pieces:

Product Code / Component	Dimensions (Width x Length / Size)	Technical Factory Configurations
GW0090 Straight guidance bar	Width 25 mm. Factory dimensions (max length 1000 mm): 1000 mm, 600 mm, 400 mm, and 300 mm.	Equipped with 5 mm fixing pins for mechanical anchoring.
GW0090-A (90-degree corner piece)	70 mm x 70 mm	Equipped with one factory-ready fixing pin.
GW0090-B (T-intersection)	T-shaped intersection piece	Does not require separate fastening (locks into the extension pieces of the straight bars).
GW0090-C (X-intersection / Square intersection)	115 mm x 115 mm	Does not require separate fastening (locks into the extension pieces of the straight bars).

3. MATERIAL PROFILE AND VISUAL PROPERTIES

- **Base material:** High-quality stainless steel. The selected material guarantees extremely high mechanical impact resistance, corrosion resistance, and a long lifecycle in demanding conditions.
- **Product color in daylight:** Gray (the natural metallic shade of steel).
- **Photoluminescent color in the dark:** The product is not photoluminescent (the system is purely tactile in nature and does not contain photoluminescent pigments).
- **Fire rating:** Non-combustible / Euroclass A1.

4. MECHANICAL PROPERTIES AND DURABILITY

Thanks to the stainless steel structure and the recommended dual-fastening method (adhesive compound + mechanical anchoring), the system has an exceptionally high dynamic load capacity. It can withstand heavy pedestrian traffic in public spaces, shopping carts, cleaning machines, and light property maintenance equipment outdoors without sustaining damage.

5. STRUCTURAL PROVISIONS AND DESIGN REQUIREMENTS

- **Installation method:** Surface mounting directly onto a finished and level floor surface. The system does not require grooving or structural embedding provisions during floor casting or the installation of surface materials.
- **Recommended adhesive compound:** Elastic and high-quality polymer adhesive and sealant (e.g., Würth polymer adhesive). For visual finishing, a light gray shade that blends with the metallic surface of the steel is recommended.
- **Mechanical anchoring and drilling provisions:** Mechanical pin fastening is used as a backup to the adhesive. 8 mm holes are drilled into the substructure (concrete/stone). The 5 mm thick pins integrated into the product are used for fastening, requiring an installation depth (hole length) of 12–25 mm.
- **Locking logic of special parts:** When designing, it must be noted that the T- and X-intersection pieces (GW0090-B and GW0090-C) receive mechanical support from the connecting straight bars, which are pinned to the base, via the male/female extension structure. A single independent 8 mm installation hole must be reserved in the floor for the 90-degree corner piece (GW0090-A) for its pin fastening.

6. CLEANING, MAINTENANCE AND CHEMICAL RESISTANCE

- **Cleanability:** Due to the stainless nature of the material, the general cleaning and maintenance instructions for other fixed stainless steel building components at the site apply to the product. Regular maintenance cleaning is performed using standard neutral or mildly alkaline detergents.
- **Structural tightness:** Continuous polymer adhesion under the bar, as per the design guidelines, prevents washing water, moisture, and microbes from penetrating under the bar structure. This guarantees hygiene and a long service life, even in demanding public spaces and outdoor areas.

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