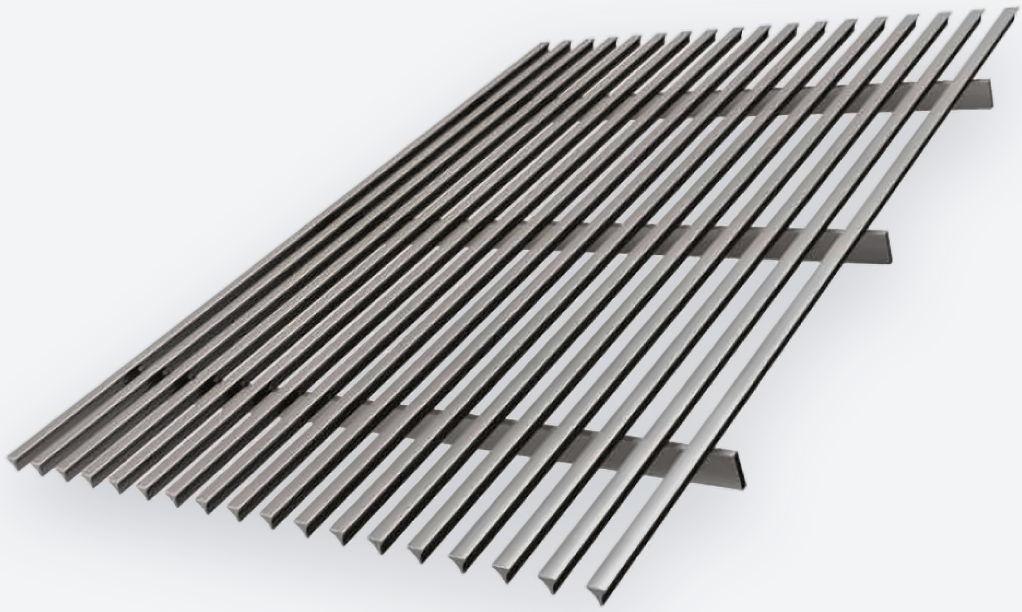
GERHMAN



Linear Grille

Linea-SS

Impact-resistant · ultra-hygienic · stainless steel — a heavy-duty architectural linear grille / bar grating system made of drawn stainless steel blades invisibly welded to the carrier profiles.

Linear Grille

Linea-SS



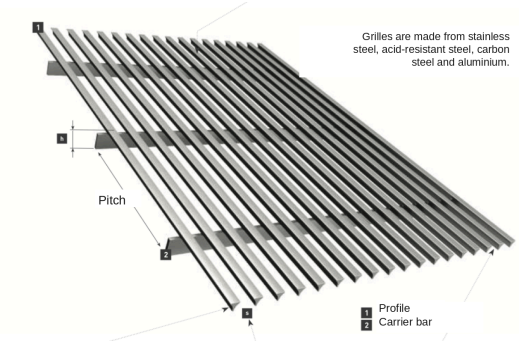
Overview

Impact-resistant, ultra-hygienic drawn-profile linear grille

Interest in stainless steel in architecture stems from its high resistance to corrosion and detergents and its strength at both high and low temperatures. **Linea-SS** combines this durability with an innovative drawn-profile design; it delivers a seamless architectural appearance, excellent airflow and noise reduction without compromising strength. Elements can be produced in rectangular, round or curved forms; in flat or three-dimensional structures; with vertical or horizontal flow.

Features

- **Impact-resistant** — heavy-duty stainless profile and invisibly welded structure; superior strength against vandalism, impact and foot / walking loads.
- **Ultra-hygienic** — smooth, non-porous, easy-clean surface; high resistance to corrosion and detergents.
- **Modern design** — distinctive visual impact, adding value to the space.
- **Open-area control** — high free-area ratio with the comfort of a small slot spacing.
- **Functional structure** — exceptional strength and high load-bearing capacity.
- **Special profile** — the aerodynamic shape minimises airflow resistance.
- **Precise spacing & slot direction** — adjustable to function; arranged along the long or short edge.



Drawn-profile structure — 1 profile (blade) · 2 carrier bar · h height · s / pitch spacing

Where it is used: Railway & airport terminals · public buildings (courthouse · library · museum) · healthcare facilities · entertainment & shopping centres · entrance & mat areas.

Linear Grille

Linea-SS

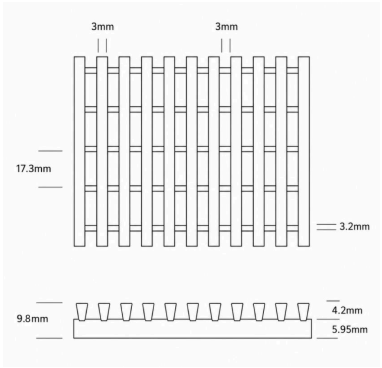


Technical Specifications & Construction

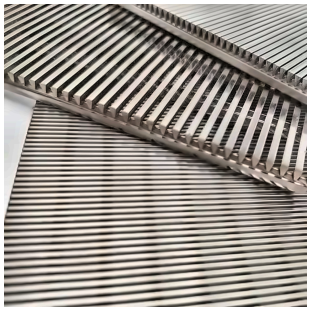
Models, dimensions and construction

Model	Depth	Locking
Linea-SS 10	9.5 mm	Recessed plate (GP)
Linea-SS 16	15.9 mm	Concealed tab (HT)
Linea-SS 29	28.6 mm	Concealed tab (HT)

Material	304 · 316 · 316L · 2205 stainless steel
Blade profile	1×2 · 2×3 · 2.5×3.5 · 2.2×4.2 · 3×5 · 4×7 mm
Slot	1.0 · 1.5 · 2.0 · 2.5 · 3.0 mm (and above / on request)
Carrier bar	1×2 · 2×3 · 3×5 mm · spacing 10 / 20 / 25 / 30 mm
Frame	3×15 · 3×18 · 3×20 · 5×18 · 5×20 mm (or on request)
Size & form	Custom W × L · rectangular · round · curved · flat / 3D · vertical / horizontal
Joining & finish	Resistance weld at every node · polishing / acid passivation



Technical drawing — representative blade profile and carrier bar section (mm); model depths are given in the table above



Drawn-profile surface — drawn stainless steel, concealed weld

Linear Grille

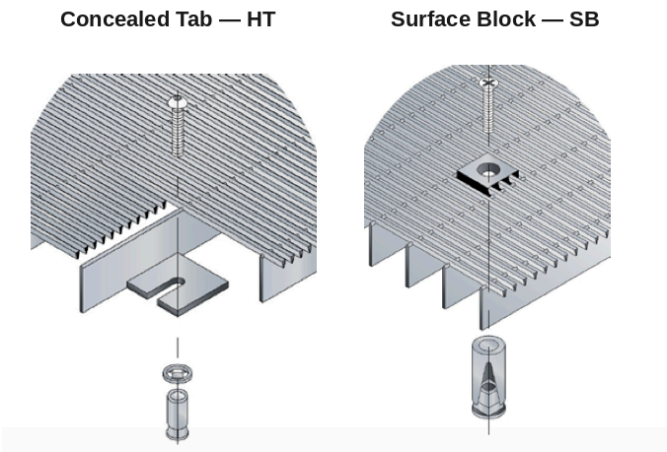
Linea-SS



Locking & Installation

Two concealed locking systems

Two concealed locking systems are available. Both use a recommended centre-to-centre spacing of **610–915 mm** with corrosion-resistant screws and anchors. Supplied pre-assembled depending on the model; EZ-loc and slot-tab options are available on request.



Concealed Tab (HT) and Surface Block (SB) locking systems — exploded view

Concealed Tab — HT

Keyhole stainless clip + machine screw + threaded anchor. Standard on 15.9 / 28.6 mm models; recessed into the panel, invisible fixing.

Surface Block — SB

Surface block + expansion anchor fixing. Practical installation at shallow depths and on existing floors; countersunk stainless plate option.

Installation & Floor

- The product is placed on a flat, levelled floor; floor tolerance ±3.2 mm over 3.28 m.
- The product's top surface is flush with the finished floor; the door undercut is coordinated.
- Spacers and anchors are provided for correct positioning and fixing of the frames into the concrete.
- Plywood / fibre protection after installation; the product is placed after wet works and wheeled site traffic are finished.

Linear Grille

Linea-SS

Performance & Maintenance

Load, airflow / sound selection and maintenance

453 kg/m² STANDARD LOAD

800 kg/m² CUSTOM PRODUCTION

Face velocity (m/s)	1000 × 100 mm		1000 × 150 mm		1000 × 250 mm	
	Airflow L/s	NR	Airflow L/s	NR	Airflow L/s	NR
1.5	150	26	225	27	375	28
2.0	200	30	300	31	500	32
2.5	250	33	375	34	625	35
3.0	300	35	450	36	750	37
3.5	350	38	525	38	875	39
4.0	400	39	600	40	1000	41

Airflow = face area × face velocity (face area: 0.10 / 0.15 / 0.25 m²). For airflow in m³/h, L/s × 3.6. Free area ≈ 45%. Sound (NR) values are based on EN 12238 / ISO 5219 / ISO 3741. Load values are valid under the recommended support spacing (610–915 mm centre-to-centre) and the stated carrier-bar spacing. Minimum / maximum dimensions are confirmed per project with your Gerhman representative. Single-source responsibility: grilles and frames are supplied from a single manufacturer; standard 453 kg/m², up to 800 kg/m² in custom production.

Cleaning & Maintenance

- In winter the bars are cleaned weekly, in other seasons monthly.
- Sediment between the bars is removed; residue under the recess is cleared (a vacuum cleaner is most effective) — floor-induced distortion is prevented.
- If the product sits over a drain, check that water flow is not obstructed.
- Never apply wax / polish to the surface; it creates a slip hazard.
- Non-abrasive, chloride-free stainless steel cleaners are preferred; follow the manufacturer's instructions.

Linear Grille

Linea-SS



Application Areas & Ordering

Use areas and order code

- Railway & airport terminals
- Public buildings — courthouse · library · museum
- Healthcare facilities
- Entertainment & shopping centres
- Entrance grilles & mat areas
- Ceiling · column · wall cladding
- Ventilation grilles
- Special applications

How to Specify — Order Code

Linea-SS	–	16	–	100×1200	–	DK	–	316L	–	HT
MODEL		DEPTH		SIZE W×L (MM)		FORM		MATERIAL		LOCKING

Depth	10 (9.5 mm) · 16 (15.9 mm) · 29 (28.6 mm)	**Size**	Width × length (mm), custom
Form	DK rectangular · YU round · KV curved	**Material**	304 · 316 · 316L · 2205 stainless
Locking	HT concealed tab · SB surface block · GP recessed plate		

Example: **Linea-SS-16-100×1200-DK-316L-HT** — 15.9 mm depth, 100 mm width × 1200 mm length, rectangular form, 316L stainless, concealed tab.



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Linear Grille

Linea-SS

Impact-Resistant · Ultra-Hygienic · Drawn Profile · Concealed Weld · Stainless Steel

One step ahead with gerhman

E-MAIL
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WEB
gerhman.com

SCAN TO CONTACT

In line with our continuous product development policy, technical specifications may change without notice. Linea-SS is made to order — confirm depth, form, material, finish and locking options with your Gerhman representative before ordering. Air performance values are from Gerhman EN 12238 testing. Not all options may be available in every market. · © 2026 All rights reserved to Gerhman Global GmbH. · Linea-SS Linear Grille Catalogue · R1