

Mezzanines and platforms – set the stage for optimum space usage

SSI SCHAEFER's mezzanines and platforms enable you to make the best use of the available space. These versatile racking systems provide both storage and a working method.

These multi-tier systems with sophisticated steel platforms and platforms create additional storage levels with the same surface area. System platforms constructed from cold-rolled and hot-rolled steel profiles can be easily and safely assembled.

Suitable for longitudinal and front-to-back expansion to any desired extent, SSI SCHAEFER designs customized platform systems for diverse loads to meet your specific requirements.

The highest safety on every level as an integral aspect. Benefit from our extensive expert advice for modern warehouse management for a versatile and individual solution. The services speak for themselves.

Information regarding inspection requirements for rack systems

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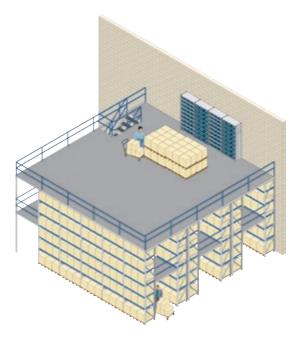












Mezzanines and platforms

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Mezzanines - one system with many options

Mezzanines

Free-standing mezzanines enable you to double your storage area. The design options are almost unlimited. Various support patterns, carrier profiles and floor coverings can be implemented, depending on your needs.

Naturally, these constructions are also available as multi-tier installations.

Platforms

With platforms, either platform alleys are installed between the rows of shelvings or complete platform surfaces are installed on the shelving systems.

This is a typical design wherever order picking represents the majority of the work and conveyor systems are also required.

The benefit lies in the fact that the different racking systems can be utilized, whether shelf, live storage or pallet racking systems.

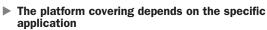












and can consist of gratings, chipboard or beech plywood, with or without non-slip coating. The underside is untreated or painted white

► Ventilation systems for platforms

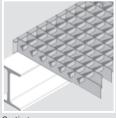
Available in various versions depending on the order picking requirements

Mezzanine safety

Begins with the stairs and ends with the railing designs with transfer locks

Mezzanine constructions for heavy loads Also for stacker transport, a specialty of SSI SCHAEFER

Mezzanine system design

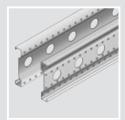




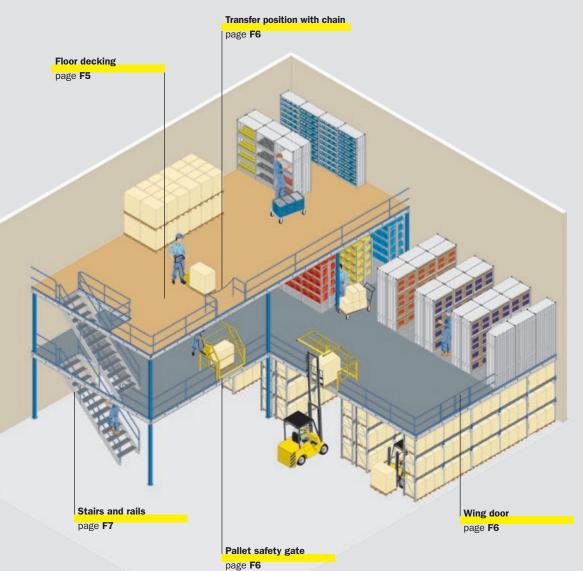
Chipboard with non-slip



Chipboard with edge protection, attached



System platform profile





Transfer position with chain



Pallet safety gate



Wing door



Railing

Mezzanine systems



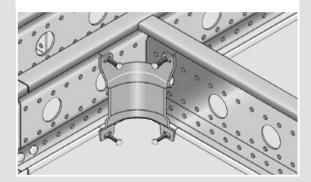
Supports made of square tube Welded to 200 x 200 mm floor plates, anchored to the floor

Carrier profiles

Made of high-strength, cold profiled high quality steel, with system hole pattern for customized layouts

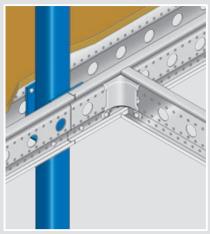
Platform covering
Made of highly compressed special chipboard,
38 mm thick, V20 E1. Tongue and groove construction. Untreated on both sides

- Bending of the main supports max. I/300
- **Calculated as per the applicable** DIN, FEM and BGR 234 regulations
- Railings with knee rail and lower roll edge

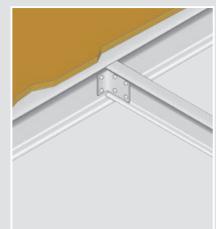


Platform supports

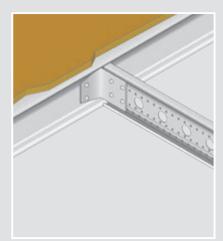
Three versions are available, ensuring the optimum platform support selection.



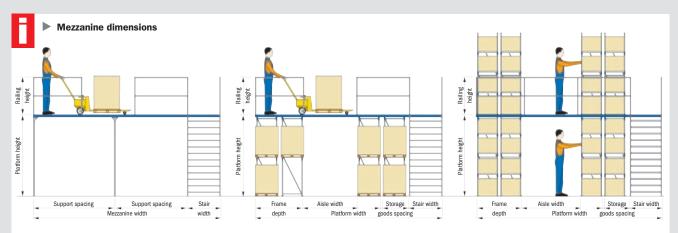
Platform support made of system profiles



Platform supports made of hot-rolled profiles



Platform supports made of a combination of hot-rolled profiles and system profiles





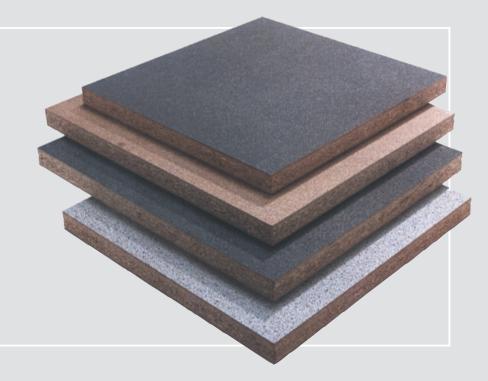
Platform coverings

Platform covers made of chipboard

Platform covers made of chipboard have a wide range of applications and diverse designs. These surfaces are untreated, oil-hardened or with an anti-slip coating.

Normal or highly compressed, for fire class B1 or B2, with tongue and groove joint or as a cladding panel.

Panel thickness 30 or 38 mm.

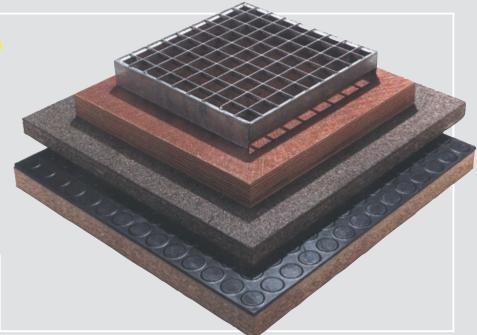




Mesh gratings, multiplex boards and PVC coverings

We deliver special solutions for special requirements.

Mesh gratings are required either due to fire safety reasons or for ventilation purposes. Multiplex boards are the optimum solution for extremely high loads and a long service life. Conductive covers or covers with PVC nubs provide higher comfort for permanent work stations.







Railings and transfer locations





Have an extremely sturdy design and are always configured with a hand rail, new rail and lower edge plate

Transfer locations and chain barriers

are the solutions recommended by the trade associations

Pallet safety gates
provide optimum personal protection when handing over the
transport goods. The railings are closed at the front or rear,
depending on the transport paths.
Painted RAL 1018, Zinc Yellow

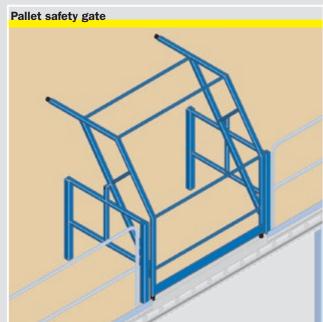
Standard widths for wing doors 1,500 / 2,000 mm

Surface

painted bright silver, partially galvanized. Special colors available on request









Standard stairs for multi-tier shelving installations

enable safe and easy access and are also exceptionally sturdy. The requirements of DIN 24 530 (stairs made of steel) are observed. All of the steps are surrounded by, and bolted onto, side profiles. Additional stairwell platforms are required, depending on the platform height. Both designs are utilized, depending on the specific conditions.

Steps

made of corrugated plate or, alternatively, grating

▶ Handrails

run the full length of the stairs

▶ Railing solutions

are sophisticated and also cover the transition from the stairs to the platform railings

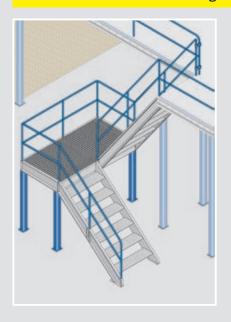
Surface

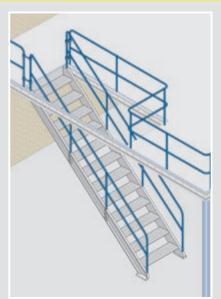
painted bright silver, partially galvanized. Special colors available on request

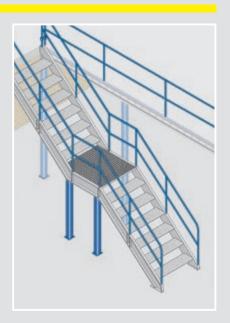


Stairs and rails

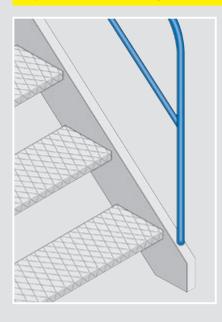
Standard stairs for multi-tier shelving installations

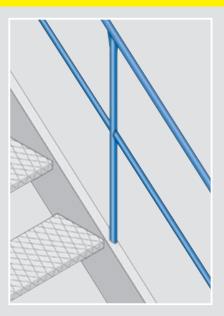


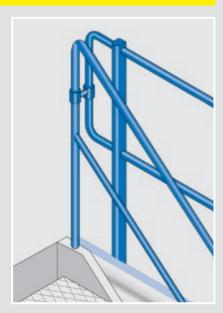




Steps, handrails and railing solutions







Lighting installations

The BGR 234 directives require the following:

"Storage facilities must be adequately illuminated and without blinding. The lighting installations must be designed and arranged in such a way that they are protected against mechanical damage. The nominal illumination of the general lighting should be at least 100 lx 0.85 m above the floor. For tasks requiring better visibility such as miniload systems and reading, the nominal illumination should be at least 200 lx. Light and heat sensitive goods may require alternative measures"

SSI SCHAEFER has developed a special lighting program for precisely this reason. It fulfills the workplace lighting requirements in every area of the platform system.

Lights from SSI SCHAEFER are integrated into the carrier construction of the platform level and they are largely protected against impact damage.

The positioning transverse to the aisle direction provides unimpeded space in front of the top rack compartment and gives the warehouse employees a clear view of the goods.

All of the carrier profiles in the aisles are prepared for fitting conventional PG 9/1 cable tubes or other installation material. SSI SCHAEFER only utilizes compensated lights.





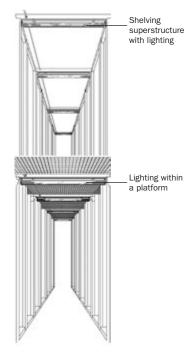
▶ BGR 234 directives

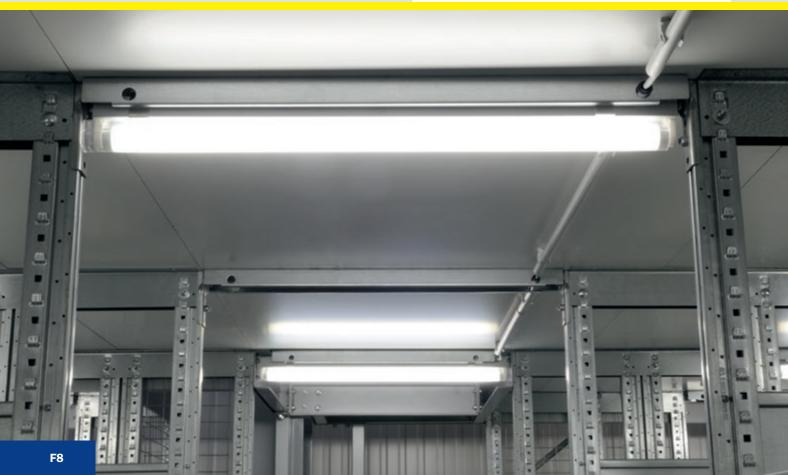
for adequate and non-blinding illumination

- ► Integration into the carrier construction provides extensive protection against impact damage
- ➤ The positioning transverse to the aisle direction provides unimpeded space in front of the top rack compartment and a clear view of the goods
- Carrier profiles

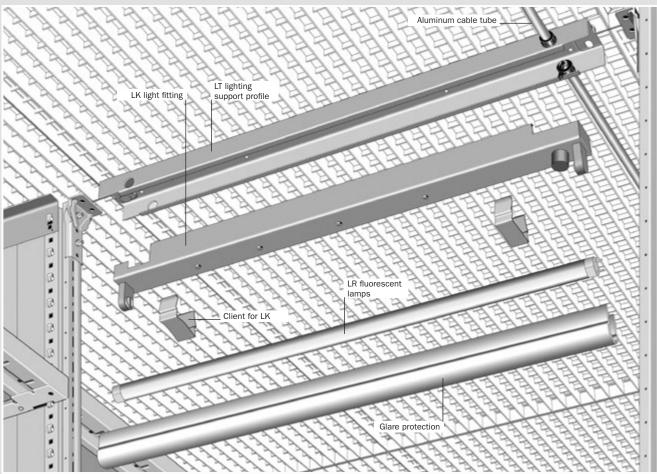
prepared for standard installation material

- **▶** Compensated lights
- ➤ Emergency and signal lighting as per VDE 0108, DIN 4844 and DIN 5035 Part 5, can also be planned and installed on request

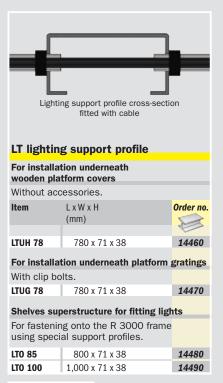


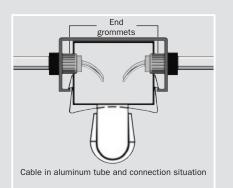


Lighting system design



Lighting support profile, prepared for wiring material





Aluminum cable tube

For wiring, including 2 locking rings and end grommets

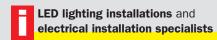
Item	Length (mm)	Order no.
PG 9/1	1,005	14440

LK light

Compensated design, with 18 or 25 W fluorescent lamps, 2 fastening clamps and glare protection.

Item	Power (W)	Order no.
SV 18/LK 85	18	14520
SV 18/LK 85/EVG		14522
SV 25/LK 85	25	14430
SV 25/LK 85/EVG		14432

LR fluorescent lamps		
Item	Power (W) / Lumens	Order no.
LR 18	18/1,250	14510
LR 18 U	18/1,350	14512
LR 25	25/1,800	14500



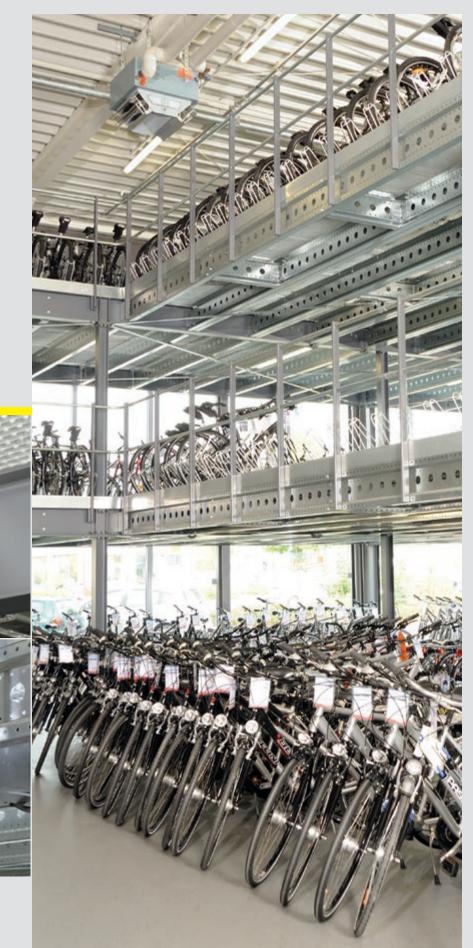
on request

Application example – free-standing platform

Storage and aesthetics are not necessarily mutually exclusive. SSI SCHAEFER demonstrates this with the construction of the 2-story, freestanding platform system with C-Sigma platform supports at a specialist bicycle dealer.

The platform warehouse is visually integrated into the sales room. The individual levels are accessible via stairs which are also equipped with rails enabling the bicycles to be transported easily.

In addition, floor gratings provide a clear view of the stored and pre-assembled wheels.



Detailed views of the platform support construction

Application example - Goods lift



Goods lifts integrated into the platform system simplify access to the facility and enable unrestricted access to all of the levels. Loads of up to 2,000 kg can be transported.

The sturdy, freestanding frame construction with a compact design requires a minimal amount of space and can be installed and retrofitted almost anywhere. The stacking system ensures short delivery times and easy construction without cutting or welding work.

2 to 6 retaining points can be set up and equipped with up to 12 access points. The shaft doors comply with the DIN 18 090 fire safety regulations. Safety components allow the installation above accessible areas.

The elevators are operated externally with send and deliver controls. Selected types can also be equipped with a control panel for operation from inside the cabin.





Detailed views of the elevator cabin with control panel