

*Extract of the
general catalogue,*

CHAPTER F

INDIVIDUAL SOLUTIONS FROM A SINGLE SOURCE

*Systems diversity for warehouses,
factories and workshops*



GENERAL CATALOGUE

Modular shelving mezzanines and platforms – optimal usage of storage space

By using SSI SCHAEFER's storage and racking platforms the usable space is practically doubled. With our versatile racking systems, simultaneous storing and working has method.

Multi-tier installations can be created using both steel platforms and raised storage areas which result in additional storage levels which are the same size as the ground floor installations. System platforms made from cold and hot pressed steel can be quickly and easily erected.

SSI SCHAEFER develops individual platforms according to your special requirements. The system can be extended as necessary, both longitudinally and front-to-back.

Safety is of paramount importance and of course the utmost safety on all levels is for granted. Make use of our extensive experience for modern storage management: versatile and individual. The results speak for themselves.





Mezzanines and platforms – one system with many possibilities

Shelving mezzanines

With freestanding shelving mezzanines you can double your storage space. The design options are virtually unlimited. Depending on your requirements, different upright patterns, support profiles and floor coverings.

Naturally a multi-tier design is also possible.

Storage platforms

With platforms, either aisles are built between the shelving rows or complete platforms are built onto the shelving units themselves.

This method is mostly used, where order picking is priority and conveying installations are needed.

The advantage lies in the fact that all the different kinds of racking systems, like modular shelving systems, live storage or pallet racking can be used as a supporting system.

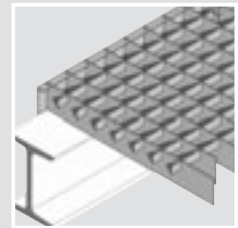


GREY GENTIAN BLUE GALVANISED

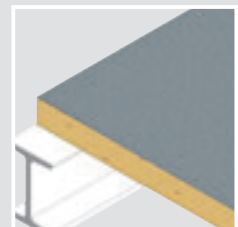


- ▶ **Floor decking for every application**
made from mesh panel, chipboard or multiple-glued beech wood, with or without anti-slip coating. The underside of the surface is either natural or white coated
- ▶ **Fire protection**
is designed to conform with Local Authority regulations
- ▶ **Ventilation for racking platforms**
is available in different forms, depending on the specific application
- ▶ **Safety with platforms**
starts at the bottom of the staircase and ends with the railing at the pallet loading areas
- ▶ **Construction with high load bearing capacity**
even for fork lift trucks, are a speciality of SSI SCHAEFER

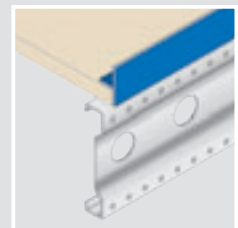
Design details



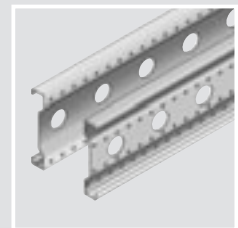
Mesh panel



Chipboard with anti-slip coating



Chipboard with edge protectors, laid on top



System platform profile

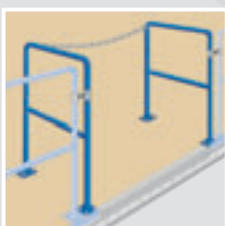
Floor decking
Page F5

Transfer posi. with chain
Page F5

Stairs and rails
Page F7

Transfer position with sliding gate
Page F6

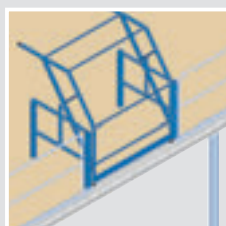
Rail lock
Page F6



Transfer position with chain



Transfer position with sliding gate



Pallet safety gate



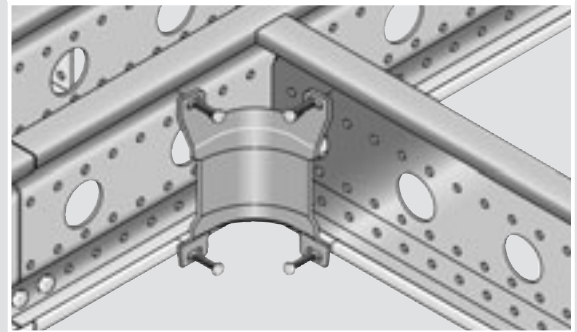
Rail



Platform systems

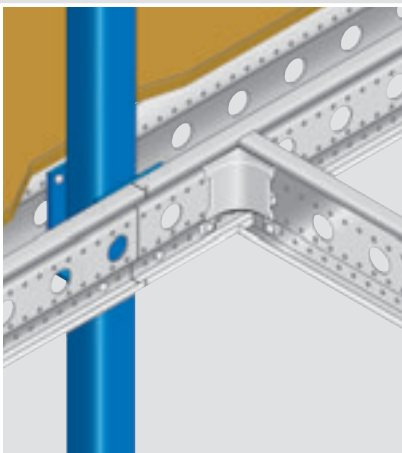


- ▶ **Square tube uprights**
with welded foot plates 200 x 200 mm, fixed to the floor
- ▶ **Support profiles**
made from high-strength cold formed quality steel, with perforation for individual assembly
- ▶ **Decking**
made from high-pressed special chip wood 38 mm strong, V20 E1. Tongue and groove joint. Finish: natural on both sides
- ▶ **Bending of the main girder**
maximum $l/300$
- ▶ **Calculations according to current regulations**
from DIN, FEM and BGR 234 (formerly ZH 1/428)
- ▶ **Rails with elbow pipe**
and end stop



Platform supports

For an optimal selection of the platform supports altogether three variants are available.



Platform supports made from system profiles

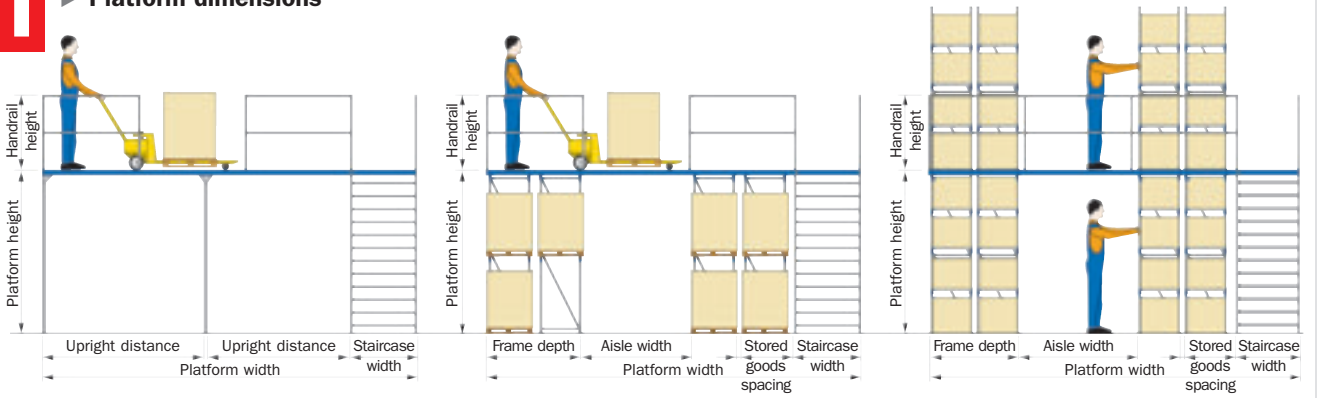


Platform support made from hot rolled steel profiles



Platform supports made from a combination of hot rolled steel profiles and system profiles

Platform dimensions



Floor decking

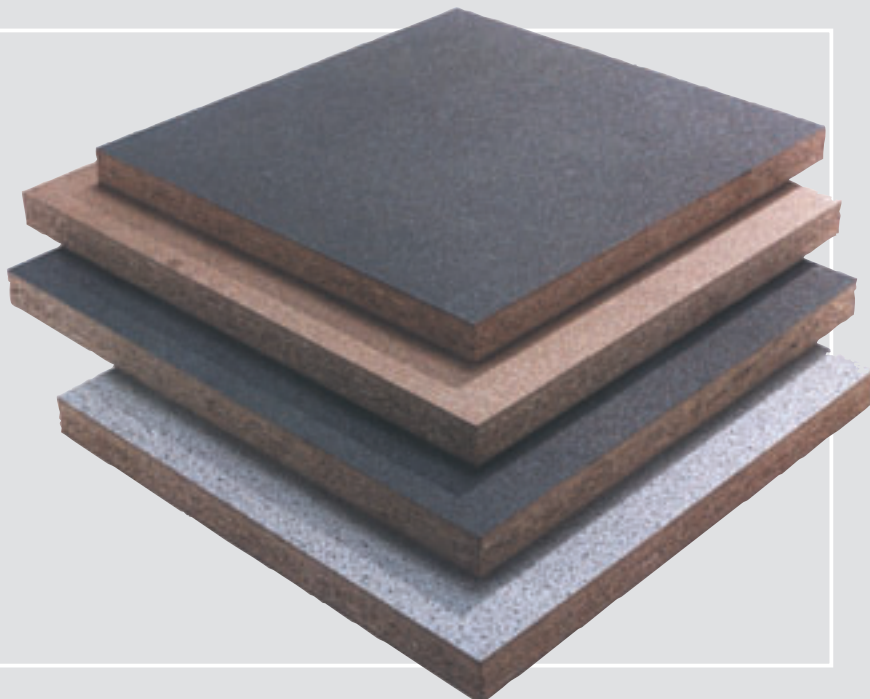


Decking made from chipboard

Platform surface covering made from chipboards are applicable for a large range of application in different versions. Surfaces in natural finish, oil-hardened or with anti-slip coating.

Normal or high-pressed, for fire protection class B1 or B2, with tongue and groove joint or as a board.

Chipboard thickness 30 or 38 mm.

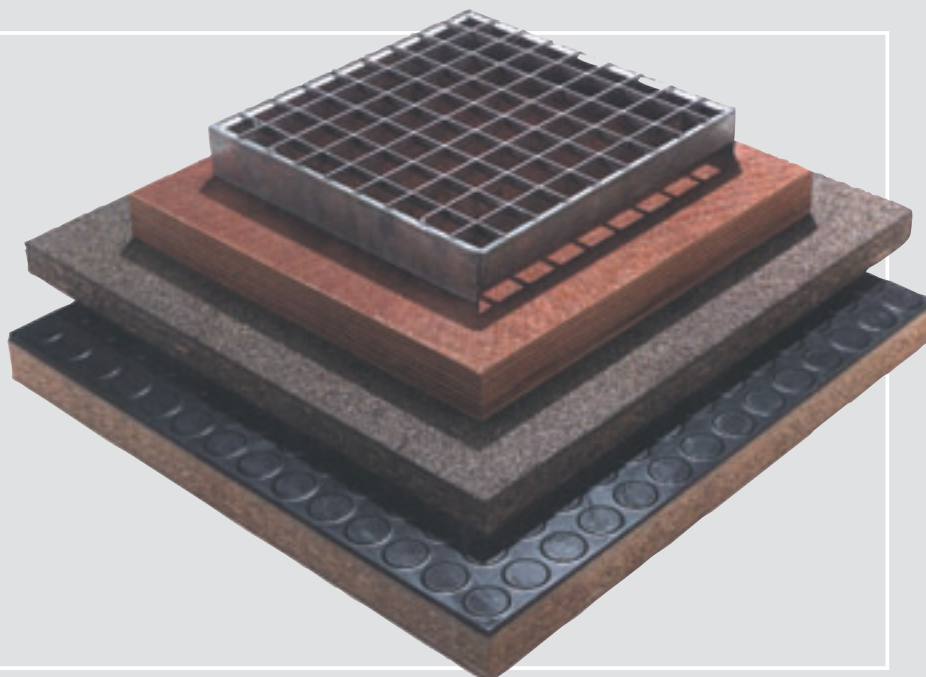


Mesh grating, multiplex boards and PVC covering

We supply special solutions for special requirements.

Mesh gratings are necessary either for fire protection reasons or for ventilation.

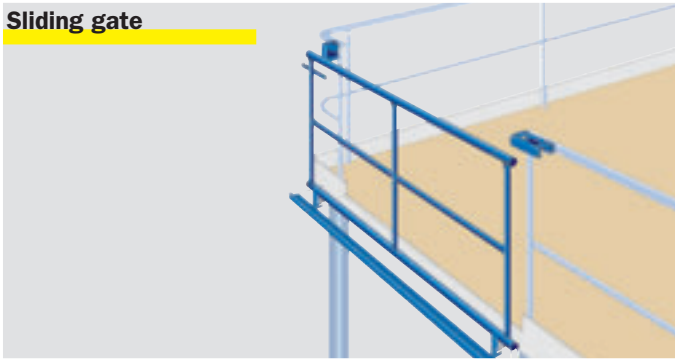
Multiplex boards are the optimal solution for extremely high loads and long life span. For higher comfort in a constant workplace are conductive coverings or floor covering with PVC dimples ideal.



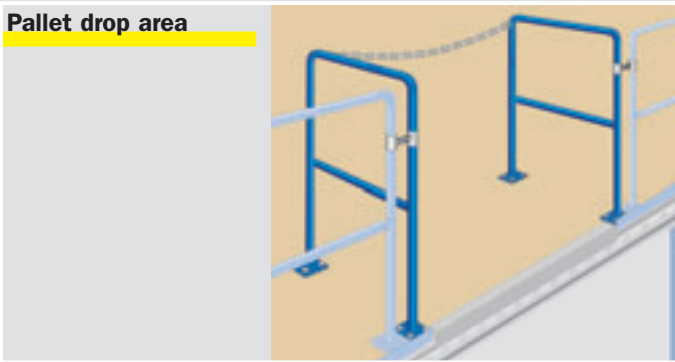


Gates and pallet drop areas

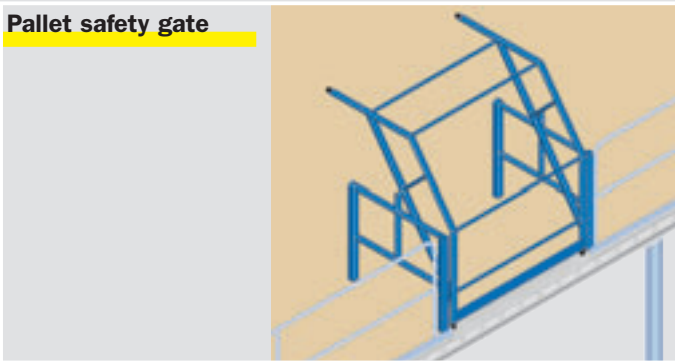
Sliding gate



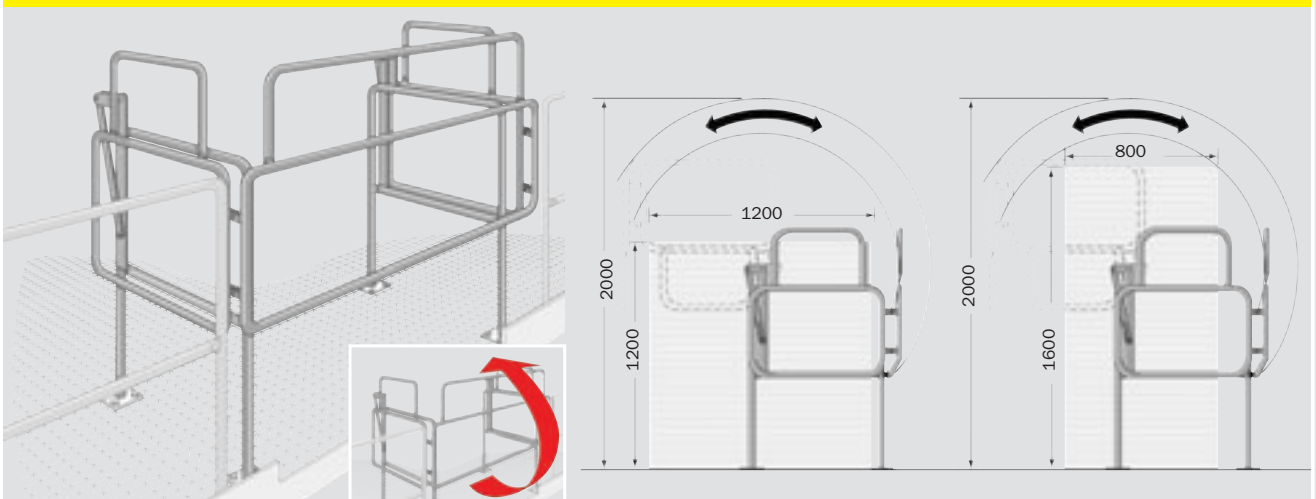
Pallet drop area



Pallet safety gate



Pallet safety gate



► **Handrailing and kickboard**

are designed to be extremely sturdy and are always equipped with handrailing, guardrail and lower sheet steel mantle

► **Pallet drop areas**

are solutions recommended by professional trade associations

► **Sliding gates**

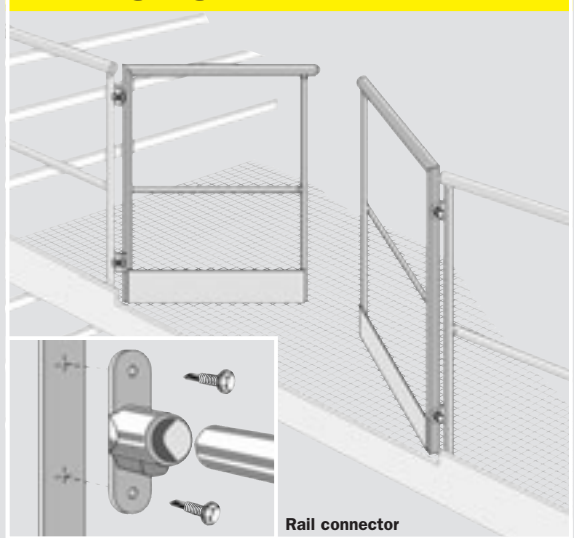
are only installed for occasionally used transfer positions

► **Rail lock**

offer optimal protection for individuals working in transfer positions. The rail is closed in front or in the back according to the transport path



Self closing wing door



Stairs and handrailing

► Standard stairs for multi-tier shelving installations

permit a safe and easy passage and are extremely sturdy. The requirements according to DIN 24 530 (stairs made from steel) are to be considered. All steps are limited by the side panels of the stair case and bolted into them. Depending upon platform height, additional stairway landings are necessary. The two different stair models are being used according to individual requirements and the availability of space

► Steps

made from checker plate or mesh panel possible

► Handrailing

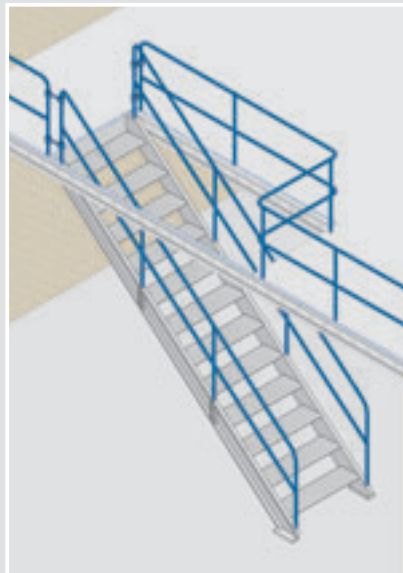
continuous from top to bottom on stairs

► Rail solutions

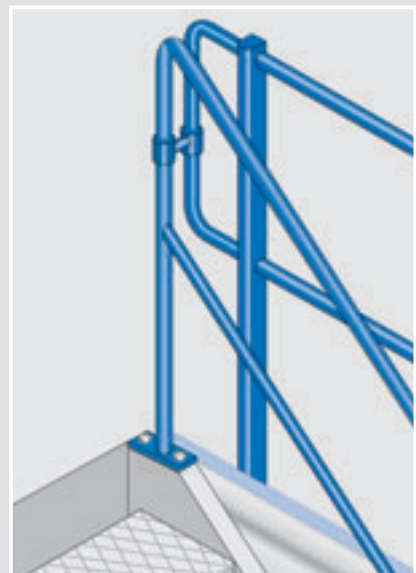
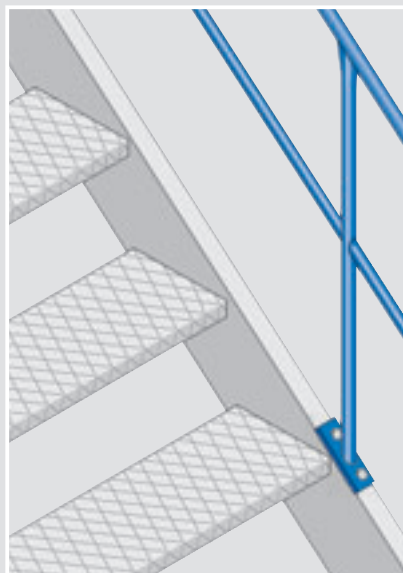
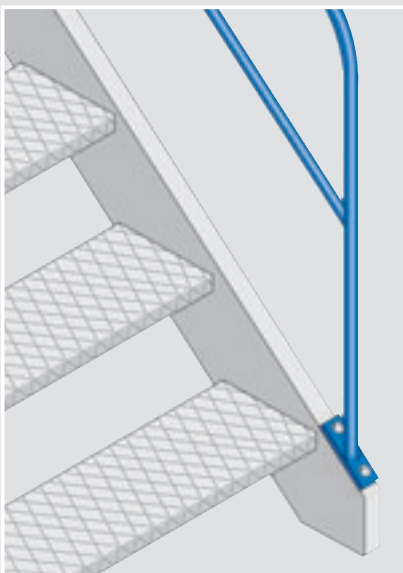
down to the last detail – including the transition from stairway rail to platform rail



Standard stairs for multi-tier shelving installations



Steps, handrailing and rail solutions





Lighting installations for warehouses

Guidelines of BGR 234 (formerly ZH 1/428): *“All storage installations are to be equipped with sufficient and glare-free lighting”.*

For this reason SSI SCHAEFER created a special lighting program, which fulfills the nominal densities of glare-free light within all areas of racking platform installations, demanded in the working place guidelines.

SSI SCHAEFER lights are integrated into the support structure of the

platform level and are protected thereby to a large extent against impact damage.

Assembly transverse to the aisle direction for unimpaired area in front of the highest shelf, with free view of the stored material for the staff.

All support profiles in the middle aisles are prepared for the admission of commercial cable conduit PG 9/1 or other installation material. SSI SCHAEFER uses only compensated lighting.

► **Guidelines of BGR 234 (formerly ZH 1/428)**

for sufficient and glare-free lighting

► **Integration into the support structure**

protects to a large extent against impact damage

► **Assembled crosswise to the aisle direction**

for unimpaired area in front of the highest shelf, free view of the stored materials

► **Support profiles**

prepared for standard installation materials

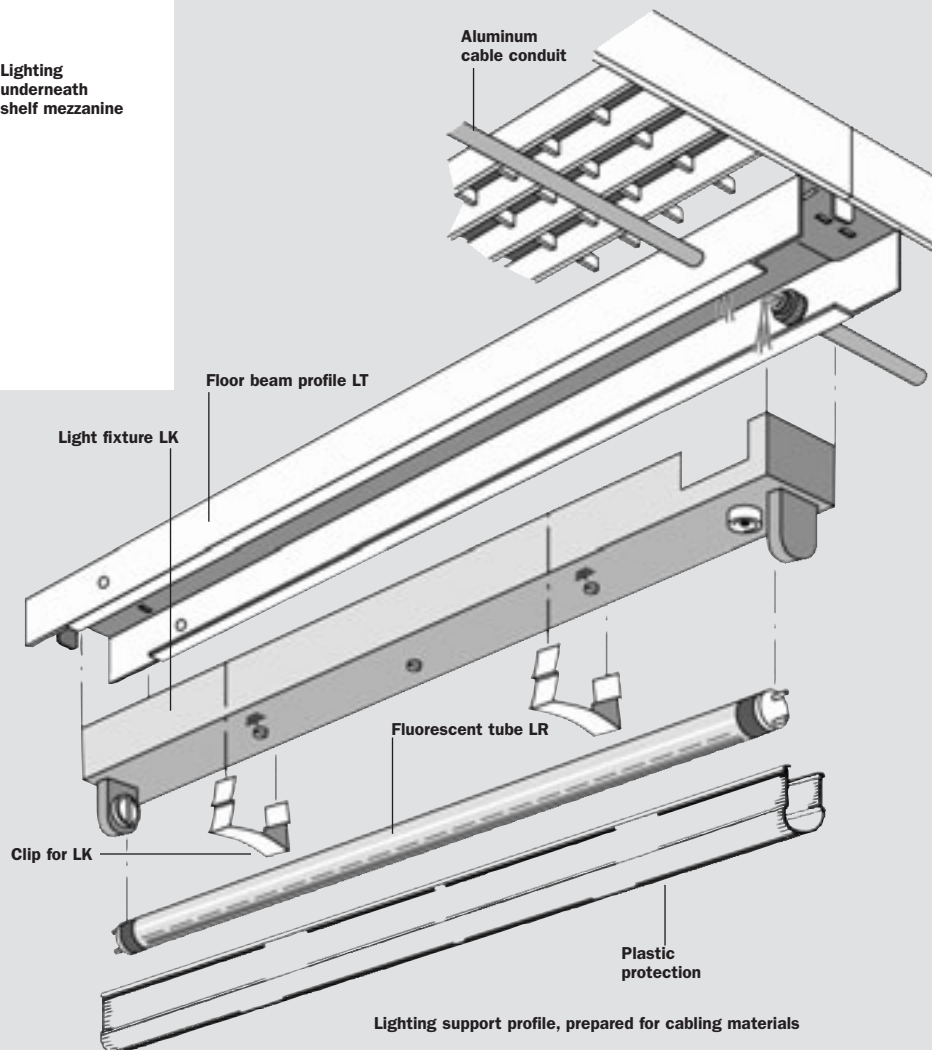
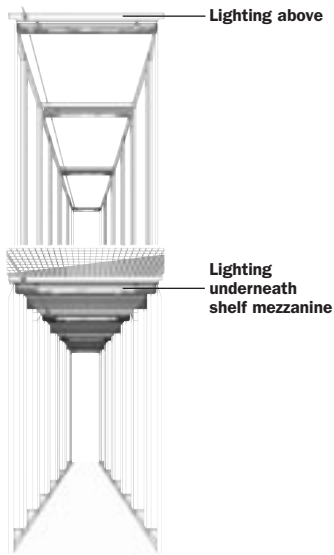
► **Compensated lights**

► **Emergency and reference lighting**

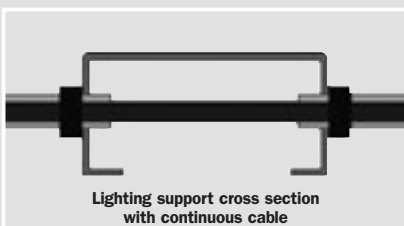
acc. to VDE 0108, DIN 4844 and DIN 5035 part 5, can be planned and installed upon request



Lighting system design



Lighting support profile, prepared for cabling materials



Lighting support cross section with continuous cable

Lighting support profiles LT

For assem. underneath platf. with wooden fl. cover
Without accessories.

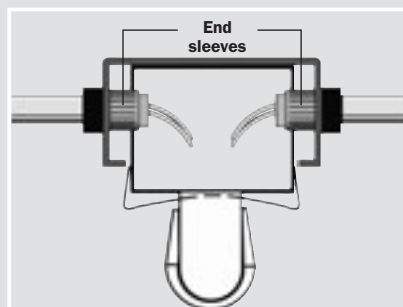
Item	L x W x H (mm)	Order no.
LTUH 78	780 x 71 x 38	14460

For assem. underneath platf. with mesh floor cover
With hook bolts.

LTUG 78	780 x 71 x 38	14470
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Racking top cover to accommodate the lighting tube

LTO 85	800 x 71 x 38	14480
LTO 100	1000 x 71 x 38	14490



Cable in aluminum tube and connection scheme

Aluminum cable conduit

For cabling, incl. 2 fixing rings and end sleeves.

Item	Length (mm)	Order no.
PG 9/1	1005	14440

Lighting tube LK

Compensated with 18 or 25 Watt fluorescent tube, 2 brackets and glare protection.

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

Fluorescent tube LR

Item	Output (W)/Lumen	Order no.
LR 18	18/1250	14510
LR 18 U	18/1350	14512
LR 25	25/1800	14500

i Specialist companies for electrical installations

on request