

MEZZANINE'S





Mezzanines enable the warehouse space to be utilized to its full potential by doubling or tripling the surface area. They can be designed as storage areas, changing rooms or offices, among other applications.

Installing a mezzanine is the best way of optimizing available space, such that the area below can remain open allowing for other storage.

Adding a mezzanine can be the most economical way to increase your warehouse needs saving you the cost of a conventional building expansion.



Advantages

Mecalux mezzanines offer the following advantages:

- They are quick, clean and easy to install.
- They can be completely disassembled; all parts can be reused, and their structure, size or location can easily be modified.
- The wide range of sizes, floor types and construction systems mean the mezzanines can be adapted to meet specific client needs.
- They can be complemented with a variety of shelving systems.

The mezzanine design must take into account the access-ways, work system, the product and handling methods so that components such as stairs, handrails, and loading and unloading zones can be accurately planned.

Platform and product lifts can also be incorporated to facilitate the movement of product from one level to another.



Applications

Mezzanine floors can be used for a variety of applications, such as work areas, component assembly areas, order preparation zones, storage space or offices.



The installation consists of two raised floors. The ground floor has been fitted with shelves for storing medium to small sized goods and a larger amount of picking operations. The top floor is used to store large or less frequently consumed products.



The mezzanine is connected to a picking warehouse by walkways that serve as reception and order preparation areas. An adjacent platform lift enables goods to be raised and lowered to the different floors.



A common application is to use the bottom area as a work or order preparation zone and the top part as offices or isolated work areas, complemented by aluminium partitions and false ceilings for a more agreeable working space.



Mezzanine with offices for the control and management area installed in a factory.



The mezzanine, in this case with several levels, is used as a classification and storage area for hanging items of clothing. The structure itself supports the elements required for the movement of the clothing trolleys.



In the bottom part of the mezzanine, bulky products are stored while shelving for storing small and medium-sized goods has been fitted in the top part.

GL 2000 System

This is ideal for large spans and medium to heavy loads.

The secondary beams are embedded in the primary beams and are joined together by brackets bolted to the beam cores.

The columns are made of "I" structural profiles. Holes are drilled into the beam flanges so that the beams can be held in place using lateral brackets.

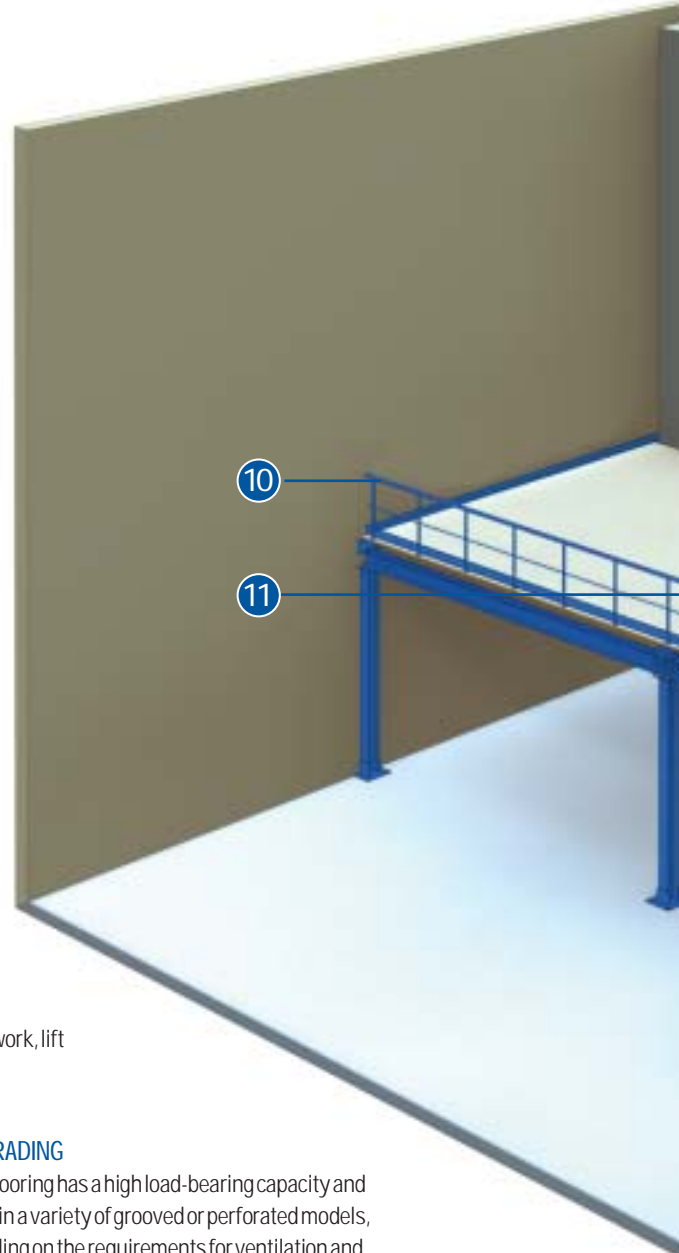
This construction system enables various floors to be installed one on top of another.

Large spans (up to 26ft x 26ft).

Heavy loads (100 lbs/ft² - 300 lbs/ft²).

Lift truck movement

- | | |
|--------------------------------|-----------------------------|
| 1) Columns | 7) Column baseplate |
| 2) Main beams | 8) Baseplate floor fixing |
| 3) Secondary beams | 9) Staircase |
| 4) Floor | 10) Handrail |
| 5) Floor support angle bracket | 11) Up and over pallet gate |
| 6) Floor attachment clamps | |



Mezzanine Flooring

A range of floor types are available to cover a variety of needs, depending on the load, type of work, lift truck use, ventilation requirements and other factors.

WOODEN FLOORING

This consists of chipboard panels interlocked in a bridge joint system for a strong floor.

An alternative wood floor is made of fire-resistant high-density fibers.



WOODEN FLOORING WITH B-DECK

This is installed when heavy trucks or pallet jacks are to be used on the top part and resulting noise levels need to be minimized.



BAR GRADING

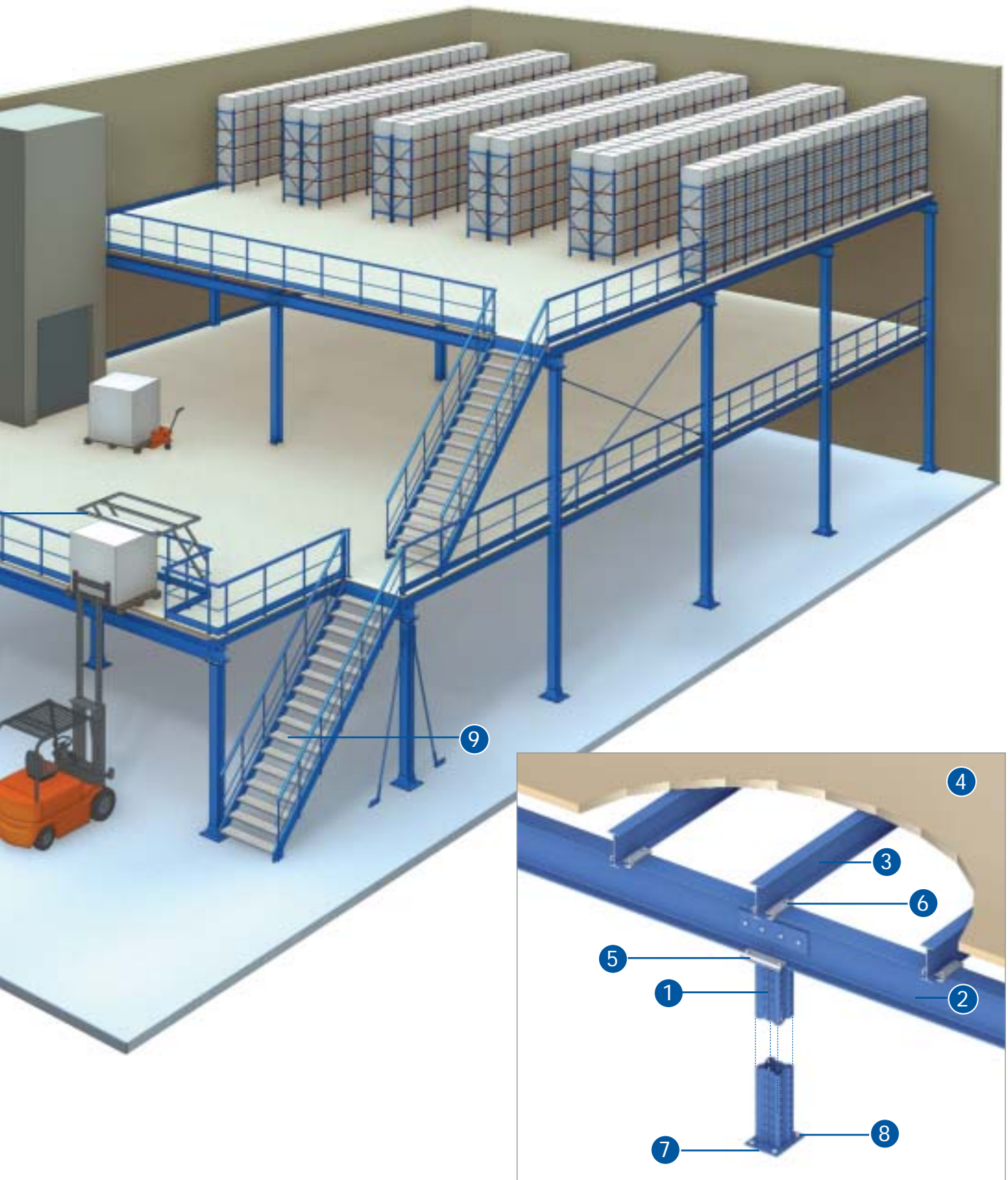
Metal flooring has a high load-bearing capacity and comes in a variety of grooved or perforated models, depending on the requirements for ventilation and water supply in fire-fighting systems.



Metal Grid



Panel Deck



Railings

The protective railings consist of round and rectangular tubes joined together by flanged attachments. Protective kick boards are fitted around the bottom to prevent objects falling off the mezzanine.

Railings on high floors are connected to banisters by means of joints which permit elements to be attached from varying angles. The banister components have similar characteristics to the railings.

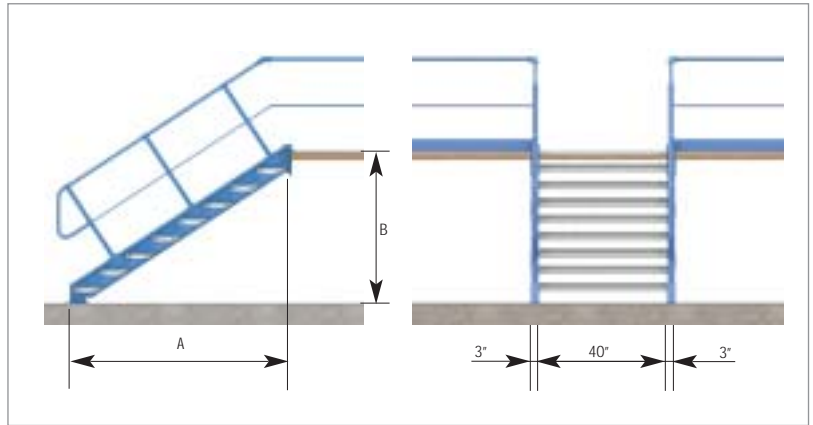


Staircases

The stairs developed by Mecalux are easy to install, sturdy and adaptable to different heights (the same staircase can be used for different heights by adjusting the angle of incline).

Staircases of 8, 10, 12, or 15 steps can be installed, depending on the distance between the ground floor and the mezzanine floor. Extra flights of stairs are required for staircases over 15 steps.

Single flight of stairs



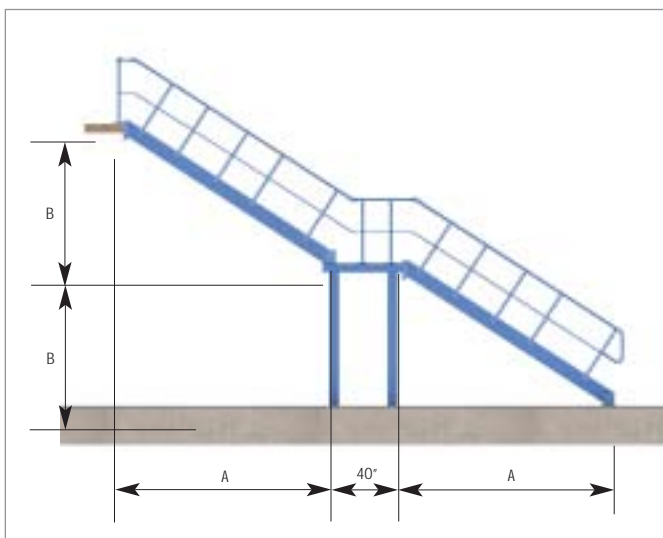
Heights in inches

NUMBER OF STEPS	HEIGHTS AND STEPS AVAILABLE			
	HEIGHTS (in inches)			
	Min.	Max.	Min.	Max.
8	95 1/4"	101 1/4"	52"	65 1/2"
10	117 3/4"	126"	63 5/8"	79 7/8"
12	140 1/8"	150"	75 1/4"	94 1/2"
15	173 7/8"	186 1/4"	92 1/2"	116 1/2"

Two flights of stairs at 180°

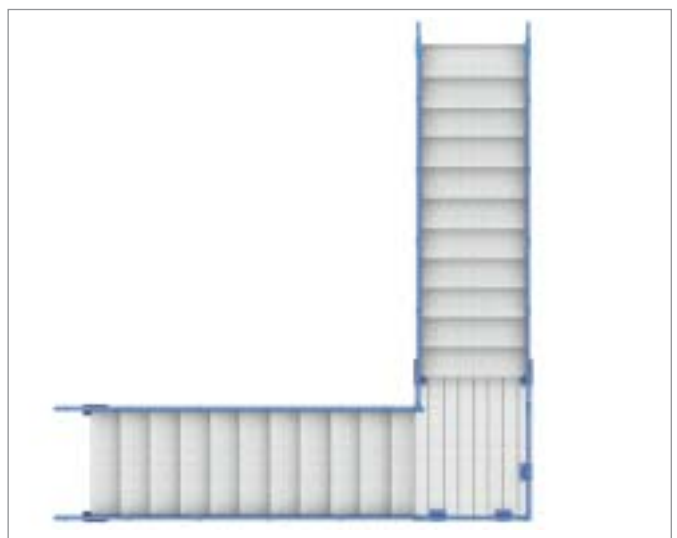


Two continuous flights



Heights in inches

Two flights of stairs at 90°



Accessories



Swing Gate

This opens inwards, with a stop at the bottom and a security latch at the top. It permits access to goods from outside or limits the work area.



Up and over pallet gate

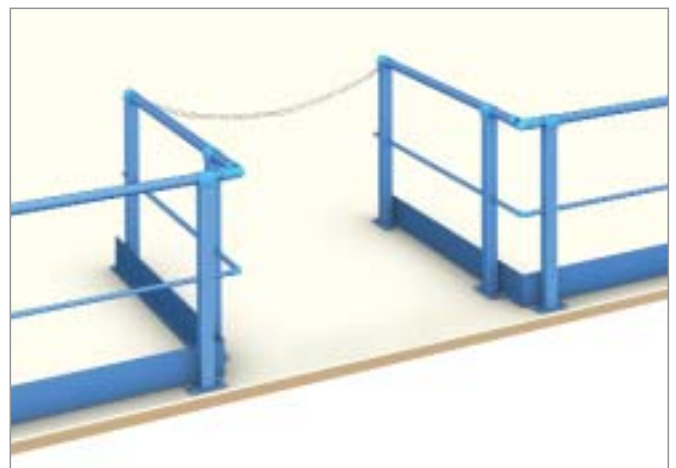
This is the best system for creating a product loading and unloading bay when lift trucks and pallet forks are used.

It has two positions, depending on the direction of access, which prevent the area from being entered from both parts at the same time.

The weight of the assembly is balanced to make it easier to open and close the space.

Safety Zone

This is marked by the railings, creating a space exclusively for depositing goods, whenever a loading and unloading zone is required.



Technical specifications

Mecalux's materials are treated by means of automated painting processes each of which provides the best form of protection for specific needs. The vertical supporting elements (columns) are painted by cataphoresis, providing a level of resistance which is three times higher than conventional painting.

These state-of-the-art facilities for painting the columns and beams can deal with lengths of up to 40ft in a single piece. The cataphoresis process is totally automated, resulting in an epoxy paint finish by cathodic electro-plating.

This painting process offers significant benefits with respect to traditional methods:

- Greater resistance to corrosion than conventional electrostatic painting or electrolytic galvanised painting. (In a salt fog chamber, for example, conventional electrostatic painting without special treatment cannot withstand more than 160 hours; while an electrolytic galvanised finish can endure between 100 and 200 hours according to the type of finish, compared to the 550 hours of the cataphoresis system).



- As the piece is dipped in a constantly-agitated paint, and the coat is applied by electro-plating, no surfaces are left unpainted, with the paint penetrating the most inaccessible areas.
- The cathodic resins act as corrosion inhibitors due to the presence of the characteristic amino group.
- This paint protection behaves optimally against fire. The ignition temperature is higher than 390°F.



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Selective Pallet Racking



Drive-In Pallet Racking



PushBack System



Flow Systems



Wide Span Shelving



Metal Point Shelving



Structural Cantilever



Mezzanine's



Structural Rack



Tijuana, Baja California: 378,000 sq.ft.



Chicago: 361,000 sq.ft.

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