# **SUPER 1/2/3**

PATENTED BOLTLESS SHELVING





METALSISTEN

## THE GROUP







Founded in 1968, METALSISTEM commenced its activities specialising in the design and production of machinery for the cold profiling of metals. The experience gathered, numerous highly innovative patents resulting from intense research and development and the considerable market success of the first range of cold form zinc coated profiles quickly channelled METALSISTEM into the production of the latter of its activities.

Today the METALSISTEM Group is an articulated network of companies with its head office and main production facility in Rovereto, Italy.

The Group has consolidated its position as one of the major industries within the Material Handling Sector.

Through products and services aimed at providing complete assistance for all warehousing, product showcasing and retail sales requirements, the companies of the METALSISTEM Group are able to offer their customers a wide range of products of the highest quality, highly competitively priced, with very rapid delivery times and a first class back up service, as well as tailor made solutions providing efficient and rational use of internal storage areas and material handling environments.

Lightness, strength and modular form, coupled with the ease of integrating and expanding already existing structures are but a few of the successful features of the METALSISTEM storage and shelving

The success of the METALSISTEM Group is the result of a precise managerial choice based on research of new production technologies and continuous development and innovation of its product range.

A direction which has produced numerous international patents (testament to the uniqueness of the METALSISTEM product), continuing improvements in safety, quality and versatility.

METALSISTEM's company strategy is to offer

products of the highest quality, very competitively priced, with rapid delivery times backed up by a first class service.

The numerous product lines are conceived and designed by METALSISTEM's internal Research and Development Centre, as are the profiling lines and equipment required for their manufacture.

The automated production facilities for the cold profiling of metals have enabled METALSISTEM to achieve one of the highest levels of productivity in the world, today.

Rigorous laboratory tests are conducted on the prime material entering production, and on the final product, thus ensuring the continuing evolution of efficiency and quality standards.

All products have elevated structural characteristics and ensure high quality standards recognised by the most important European certification bodies, such as Germany's TÜV Product Service GmbH, Austria's Ö-NORM, Rome's I.S.P.E.S.L, ACAI/CISI (Associazione Costruttori Acciaio Italiani - Sezione Costruttori Italiani di Scaffalatura Industriale), the latter of which METALSISTEM has membership, and others.

The company's ISO 9001 quality assurance system as well as its environmental management system ISO14001 are certified by RINA.

With an annual turnover of exceeding 260 Million Euro, the METALSISTEM Group premises occupy a total area of 230.000 m², 125.000 of which are dedicated to production.

The METALSISTEM Group affiliated companies and distributors provide a world wide commercial network covering the domestic market and the industrialised nations of the world, able to satisfy the most demanding needs.

We value greatly the high level of trust that is placed in us by our customers and feel that it is proof of the quality and reliability of our products.



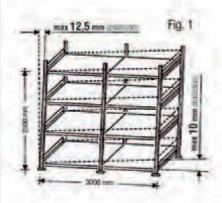


#### STANDARD SPECIFICATIONS CALCULATION AND SAFETY **STANDARDS**

The correct use of the product, both from the technical and design point of view indemnifies both the manufacturer and the customer in the event of improper use. Therefore, METALSISTEM recommends that customers follow its code of practice for design and utilisation of its products.

SUPER 2 Ref. No: System: 2010 Year of Construction: 2000 daN Frame Load Capacity (U.D.L.): 200 daN Shelf Load Capacity (U.D.L.): 10 daN Weight of Load Unit: Distance between ground 700 mm and first beam level:

> METALSISTEM declines all responsibility for improper or non authorized use of the racking and its accessories.



#### a) Floor slab loading

Loading capability should be checked before installation.

#### b) Site installation

It is of utmost importance that installations are assembled by skilled labour only.

Frames should be built in strict accordance with the assembly diagram shown at right. Particular attention should be paid to a proper assembly and location of security pins.



#### c) Rack alignment

Once the shelving is assembled, it is necessary to align it vertically and horizontally. The perpendicular deviation should not exceed 1/200 of the height (with a maximum of 15 mm) and correspondingly the horizontal deviation 1/300 of the bay length (see Fig. 1).

#### d) Load bearing capacity plate

Load capacity plates should be fixed in a prominent position and show the product series, the year of construction, the maximum load per bay, per shelf and per m² (in the case of platforms and/or two-tier-structures), as well as the weight of the load units and the distance from the ground to the first load level.

#### e) Rack safety standard

In the case of hand leaded static shelving, if the height of the frame is over 3 metres or exceeds over 5 times its depth, the frames must be securely bolted to the floor slab (using the heavy duty base plate art. 67006) and fitted with wall ties or overhead ties (see fig. 2). It is not allowed to use single sided shelving that exceeds over 8 times its depth, unless the frames are connected through walkways or fitted with wall ties or equivalent. The use of cross bracings (vertical and horizontal cross bracing) is necessary in the case of rack runs with frame heights over 3 metres, with less than 4 bays or with distances of more than 700 mm in height between the load levels. The frames must be securely bolted to the floor slab using the heavy duty base plates (art. 67006) and the locking frame spacer bars. As an alternative solution to the use of cross bracings customers may fit the shelving with wall ties or similar. This is valid only in case that the wall or the structure is adequate for that scope and provide an equal or better grade of constraint compared to cross bracing. Within seismic regions it is not allowed at all to use any type of wall ties or similar. For specific calculations and design customers should contact the Metalsistem Technical Department.

#### f) Installation design

SUPER 123 structures are to be used as hand loaded shelving only and not as pallet racking, with forklifts, or with wheeled equipment on two-tier-structures. METALSISTEM declines all responsibility for improper or non authorized use of the shelving and its accessories.

g) Two tier structures/platforms
Two tier structures with suspended walkways are to be designed exclusively with the SUPER 3 system and must comply with all safety recommendations. In case of platforms with continuous floor/decking (see page 5 - case "B"), the frames are to be assembled as shown in the assembly diagram, i.e. using exclusively diagonal spacer bars, at centre distances of 264 mm, up to the level of the platform. Uprights must be assembled with locking frame spacer bars and heavy duty base plates (art. no 67006), securely bolted to the floor slab. Staircases must be adequately reinforced and built with the reinforced SUPER 3 uprights only (art. 99230), either side of the staircase. The correct use of all safely components mentioned in this brochure is mandatory. The maximum load bearing capacity of walkways/decking within two-tier-structures and platforms is 300 kg/m², the maximum width of walkways is 1200 mm, and the maximum shelf bay length is 1500 mm. The frames must be fitted with overhead ties (art. n° 67401).

#### h) Software reference

The theoretical calculation is based on the EURO-CODE 3, using the safety factors recommended within the F.E.M. standards. The reference standards for the materials are the following: EN 10204 -EN 10346.

#### i) Calculation

The calculation is executed with the ANSYS software and based on finite elements.

#### I) Frame load capacity

The frame load bearing capacities stated in this brochure are calculated in compliance with the following criteria: the first shelf level must be fitted at no more than 700 mm from the ground and the following levels at intervals not exceeding 500 mm, with a minimum of 4 interconnecting bays. Frames are to be bolted to the floor slab.

#### m) Shelf load bearing capacity

Data for shelf load bearing capacities shown in the brochure are to be understood as referring to uniformly distributed loadings with a deflection equal to 1/200 of the shelf length. The beam locking pins must always be fitted.

n) Custom-built applications The METALSISTEM Technical Department is at its customers' disposal for any specific calculation or

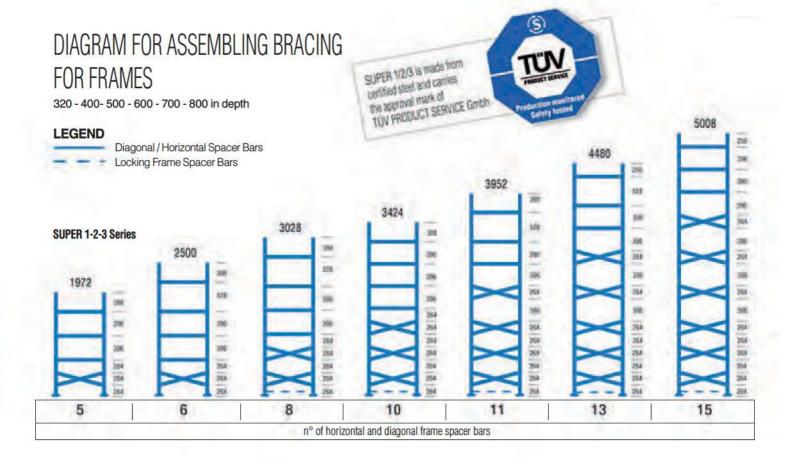
custom-built application.
METALSISTEM reserves the right to apply technical changes to the product. Data, characteristics and dimensions given in this document are merely

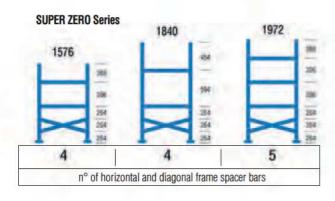






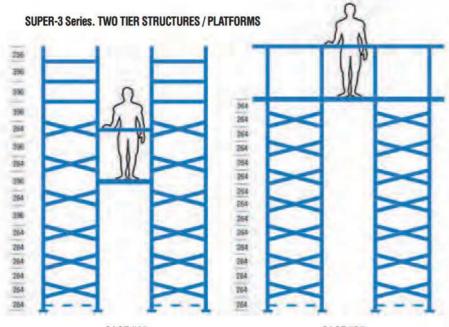






SUPER-ZERO uprights and frames are allowed with the use of SUPER-ZERO beams and shelves, only.

Bay lengths 900/1050/1200 mm only, with a max. load capacity of 200 daN per shelf, for uniformly distributed loads.



CASE "A" Two tier structure with suspended walkways

CASE "B"
Platform with continuous floor

# TWO TIER STRUCTURES PLATFORMS

In case of two tier structures with suspended walkways the frames are to be assembled as shown in case "A" at left (i.e. the standard frame assembly diagram). In case of platforms with continuous floor decking, the frames have to be assembled with pairs of diagonal spacer bars only, at centre distances of 264 mm, up to the level of the platform (see case "B" at left).

In both cases the frames must be securely bolted to the floor slab using the heavy duty base plates (art.  $n^{\circ}$  67006.95) and the locking frame spacer bars.

Staircases made from standard components and integrated into the two-tier-structure have to be reinforced in an appropriate way, using the reinforced SUPER 3-upright (art. n° 99230.95) either side of the staircase. METALSISTEM strongly recommends to comply with all safety standards mentioned in this brochure.

The maximum load bearing capacity of walkways/decking within two-tier structures or platforms is 300 kg/m2 and the maximum width of the walkways is 1200 mm. The maximum shelf bay length is 1500 mm.













## THE COMPANY TODAY

METALSISTEM products are now in use in a great many installations throughout the world, and after more than 40 years production, we value greatly the high level of trust that is placed in us by our customers and feel that it is proof of the quality of our products.

The shelving components are produced on fully automated production lines.

The folding and cold processing techniques developed by METALSISTEM are designed to obtain light and extremely strong components.

Lightness, strength and modular form coupled with the ease of integrating and expanding already existing structures are but a few of the successful features of the METALSISTEM Industrial Storage Systems. Ideal storage solutions for a whole host of products supplied worldwide are created here thanks to a total commitment to research and development.

All METALSISTEM components are subjected to regular and rigorous technical tests. These cover both uniformly distributed and concentrated loadings.





## THE PRODUCT

The fully adjustable SUPER 1/2/3 systems have been designed to meet the needs of light to medium duty storage. They are also highly suitable for the construction of two tier structures (with the SUPER 3 system). The design of the various components is the result of rigorous technical testing and the highly specialised knowledge developed over years of experience in the field of metal processing.

This experience has enabled METAL-SISTEM to offer innovative products of the highest quality, highly competitively priced, and to produce a highly technical solution to the most important



shelving problems, such as rapid assembly, stability, low cost and load bearing capacity.

The design allows for high load bearing

from light gauge materials. The use of high quality zinc coated steel ensures a high level of durability.

The structural components of the SUPER 1/2/3 systems are made from high tensile steel, certified according

to EN 10204 3.1.









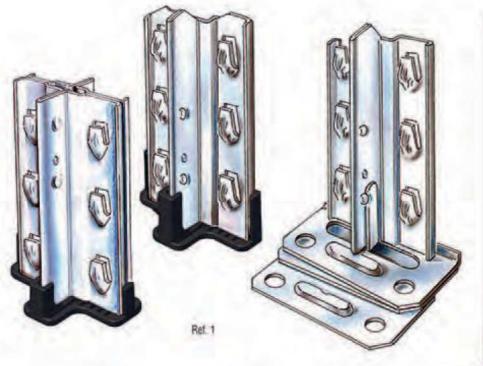






The safety and the quality of the product has always been a primary aim of METALSISTEM and is recognised by TÜV PRODUCT SERVICE in Munich, one of the most rigorous E.C. commissions in the field of quality and safety certification. The product meets the requirements of the Equipment Safety Law.

Thanks to its attractive high-tech design, SUPER 1-2-3 shelving is trendy and pleasing to the eye. It can provide unique and cost effective solutions for shopfitting and applications in domestic environments as well. See examples at left.



## ASSEMBLY INSTRUCTIONS

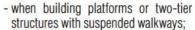
## **Base plates**

Fit the steel base plate onto the upright, using pliers to guide the two tongues on the plate into the nibs on the upright. Then tap the base plate into the nibs with a hammer (see sketch below).

Plastic base plates (Ref. 1) should be used for the SUPER-0 and SUPER-1 series only. They may be used as well for applications in domestic environments, with modest load bearing capacities. Double plastic base plates are available for back-to-back bays. Both items (single and double base plates) are also used as top caps for uprights (Ref. 20/29).

Heavy duty base plates (Ref. 1b) must be used in the following cases:





- when building staircases, under the uprights of the staircase;

 if the height of the shelving is over 3 metres or exceeds over 5 times the depth of the shelving.

Heavy duty base plates are always to be assembled in conjunction with locking frame spacer bars.

In all other cases customers may use the standard steel base plate (Ref. 1). Shims in 1 and 2 mm gauge are available for steel base plates.

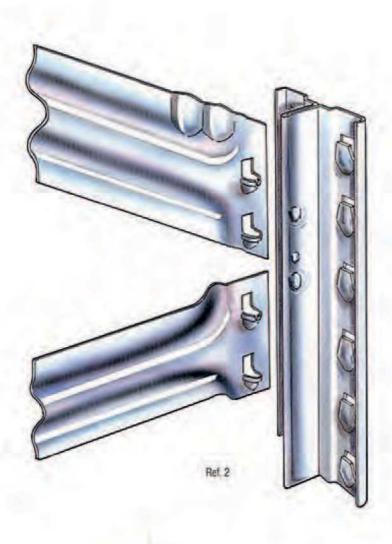


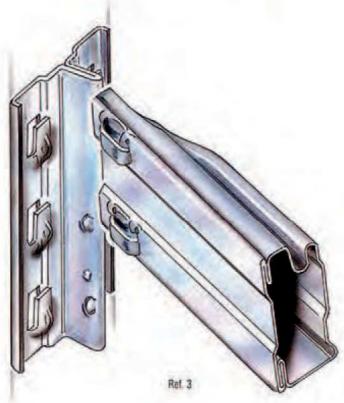
To fit spacer bars, refer to the diagram on pages 4/5 to determine the exact position and quantity.

Insert the horizontal and diagonal spacer bars into the grooves in the corner of the upright, locating the wide part of the slot over the nibs on the upright and keeping the spacer bars tight to the upright, in order to keep it square; then tap down into the narrow part of the slot alternating from side to side.

To achieve correct assembly, the spacer bar anti-release tongues should be closed (Ref. 2).

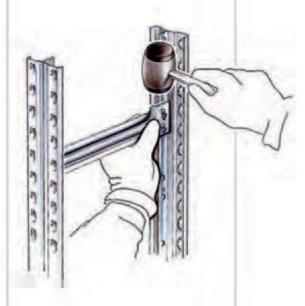




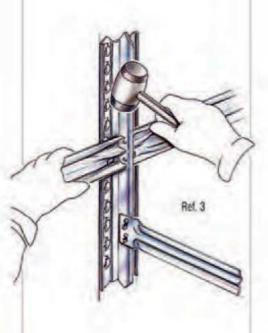


## Beams

Take the frames, assembled with bracing and base plates: keep them as perpendicularly as possible and fit the beam by tapping it down onto the tongues, close to the upright, with a plastic-faced hammer to avoid damage to the beam (Ref. 3).



The beams, once assembled, should be secured with the respective beam locking pins (see page 21, Ref. 22).



For the storage of tyres or round materials which are placed directly onto the beams, plastic strips are available to avoid damage to the products stored; these strips are fitted into the recess of the beams (see page 21, Ref. 21).







## Roller Shelves

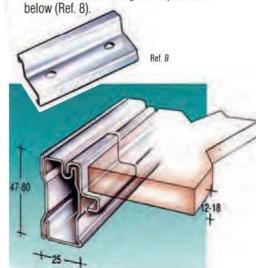
Roller shelf units consist of one or more inclined runways equipped with specially designed roller tracks. Merchandise is loaded in the rear of each runway and moves toward the picking station. As an item is removed from the front, the item directly behind it slides forward in place of the previous and rolls to the front, thus allowing merchandise to remain better organized and easier to find/pick.

METALSISTEM's carton flow is an economic, modular and functional solution based on standard components alone, allowing flow track beds to be created up to depths of 4 metres. The flow track profiles are made from certified, galvanised, high tensile steel and are manufactured in lengths ranging from 359 to 4022 mm at a cut pitch of 33 mm. Yellow rollers made from polypropylene are inserted into the tracks at varying pitches of either 33, 49.5, 66, 82.5 or 99 mm, according to the application requirements. The track profiles are inserted into sceenstrips that are fastened with clamps/ screws (art. 69829.95/00056.20) at centre distances of approx. 1000 mm.

The support for the roller shelves is provided by frames placed at fixed intervals set by oval tubes, (the same standard components used for walkway parapet elements) thus ensuring that the beams will be aligned at a constant inclination of approximately 8% from the rear to the front side of the system. However, the most suitable degree of inclination depends on the type of packaging and weight of the load unit and the overall length of the roller track. A "T"-section support bar placed at the picking side of the run provides both support for the flow tracks and an end stop for the cartons. For more information please refer to page 44 of this brochure.

## **Chipboard shelves**

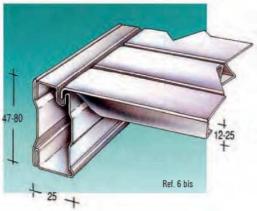
Chipboard shelves of thickness 12 or 18 mm can be fitted using the clips shown



## Shelves H12 and H25

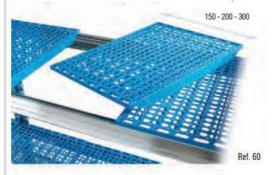
Shelves of profile 12 mm, 450-600-900 mm wide, are produced in depths varying from 320 to 700 mm.

Shelves of profile 25 mm and 300 mm wide are supplied in depths varying from 400 to 800 mm (Ref. 5-6).





The standard range of perforated plastic shelf panels in 150-200-300 mm width is made from high quality polypropylene, suitable for use within the food sector, perforated at >50% of the shelf surface area. Available in four different colours: white, yellow, light blue and blue, for frame depths 320-400-500 mm (Ref. 60).

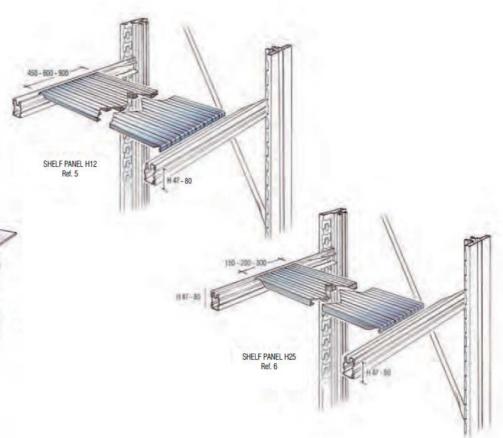


Specific FROST panels in light green colour are available for use within cooling rooms. ECO shelf panels in black colour, made from recycled polypropylene, feature utmost cost efficiency. ECO shelf panels are not compatible with the food sector.

For correct ordering and load bearing capacities, please refer to page 41 of this brochure.

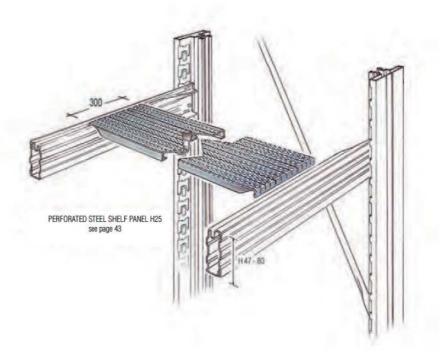
#### Perforated Steel Shelf Panels

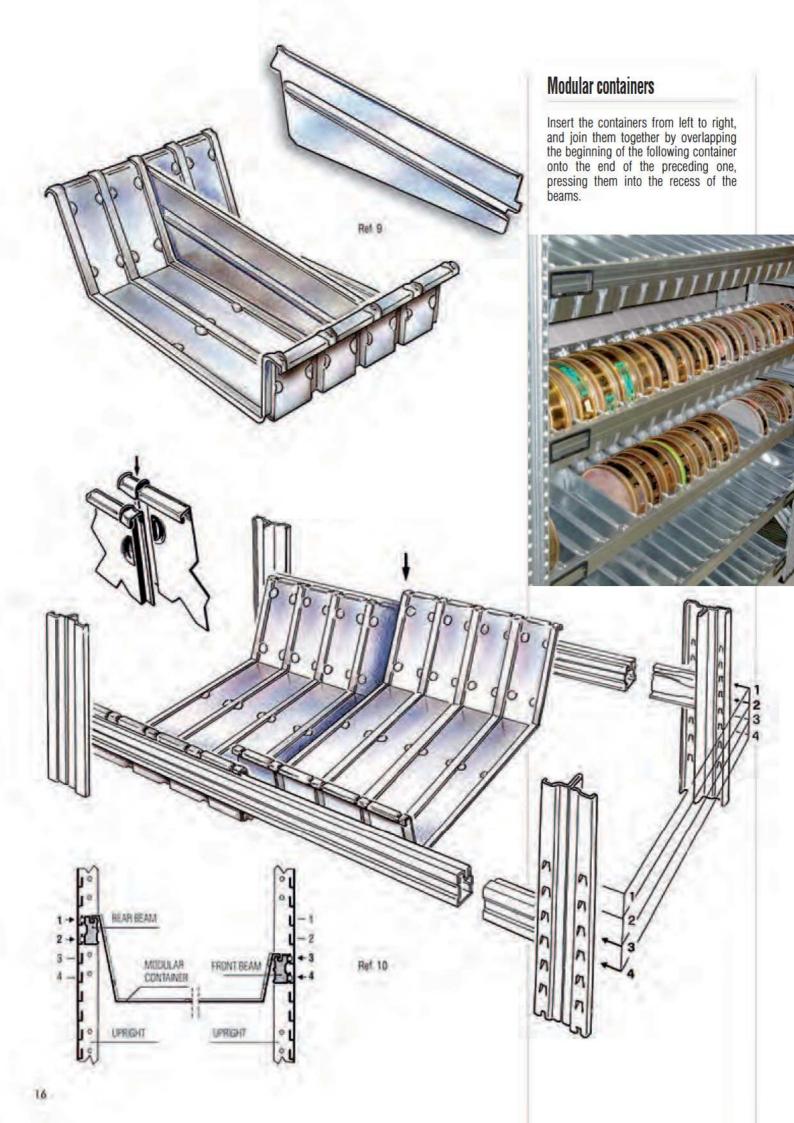
Perforated steel shelves of profile 25 mm in 300 mm width, perforated at 50%. For installations equipped with sprinkler systems. Hole diameter 6.5 mm. For correct ordering and load bearing capacities, please refer to page 43 of this brochure.











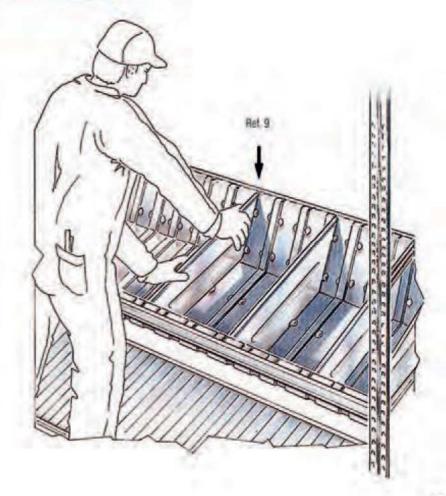
To assemble the containers correctly, the rear beam should be fitted two pitches higher than the front one (Ref. 10). Fit the dividers into the special slotted seats, pushing down to locate (Ref. 9).



The capacity of the containers can be increased by fitting bin front and rear panels 200 or 300 mm high.







## **DIVIDERS**

A large range of dividers is available.

## **Vertical sliding dividers**

These have been designed to separate loose items (Ref. 11). The concept of these dividers is based on the following components: a couple of clips (version at right/at left), and vertical dividers, available for all frame depths and in two different heights (H=100mm / H=200 mm), as well as in the profiled version (H=200/100 mm).

## Shelf trays

These comprise a bin front and rear panel 100 mm high placed on a normal shelf with adjustable dividers from 320 to 600 mm in depth (Ref. 13).

## **Chest of drawers**

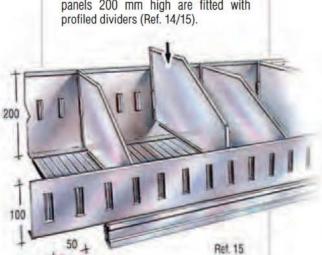
The modular drawers are fully integrated with the SUPER 1-2-3 series and are located directly on the frames.

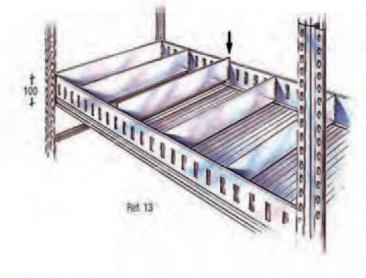




A cost effective solution for the storage of small items.

Bin front panels 100 mm high and rear panels 200 mm high are fitted with profiled dividers (Ref. 14/15).







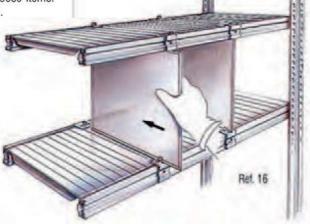




## **Plastic Bins**

Open fronted plastic bins are also available for the storage of loose items. More information on page 51.





Fixed height dividers

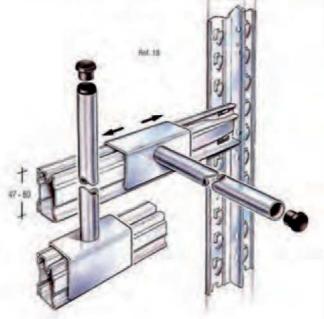
Available in three different heights: 244-344-444 mm
They can be inserted in any position on the shelf by means of spring clips located on the beams H47 (Ref. 16).











Used for the separation of cylindrical components or materials difficult to store

(windscreens and panels, etc.).
They comprise 2 tubes of 18 mm diameter sliding one inside the other.
They are fixed to the upper shelf by means of a clamp/screw connection (8mm). A minimum of two tubes should be used for each division (Ref. 17). be used for each division (Ref. 17).



## Dividers for exhaust pipes

Spigots designed for the separation of tubes, exhausts and conduits, etc. They are used both vertically and horizontally and are fitted on to the beams anywhere in the length. Not suited for hanging loads (Ref. 18).

#### **Label Holder**

It can be located in any position on both H47 and H80 beams. Dimensions 100x40 mm (Ref. 23).

### **ACCESSORIES**

#### **PVC** top caps

PVC top caps are to be fitted onto the top of the upright, in all applications (Ref. 20).

#### Oval shaped tubes and beams

The oval shaped beams and tubes are compatible with most types of hanger and provide a cost effective solution to garment storage and for hanging loads (Ref. 19/20). The garment hanging shelving can be designed on a single or double entry basis and equipped with shelves. The oval tubes fitted onto the spacer bars alone will not stabilise the structure in the horizontal plane and have to be combined with beams above and below.



#### **Tyre Storage**

The oval shaped beams can also be used for the storage of tyres (see page 10). In this case, please refer to the technical handbook to identity correct use and appropriate load capacities.

In the case that the tyres will be stored on H47 mm beams, it is obligatory to use the SUPER-3 version only and exclusively, both for the beams and the frames. Maximum allowed bay length: 1200 mm. Maximum allowed frame depth: 400 mm, to ensure safe storage and to prevent torsional deflection of the beams.

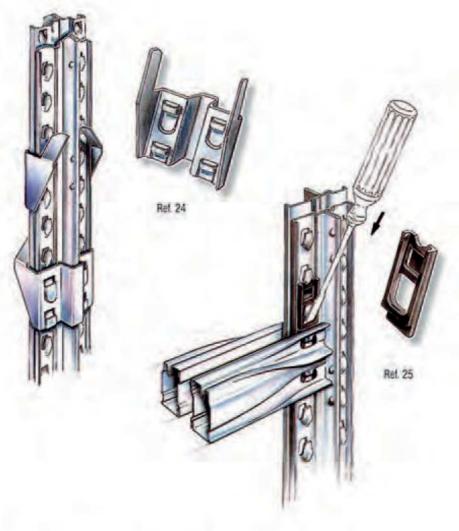
#### Plastic strip for glass shelves

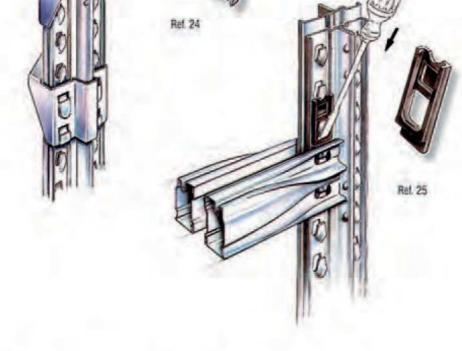
It can be fitted on the beams in order to protect glass shelves or delicate materials (Ref. 21).

#### Security pins

In order to prevent accidental lifting of the beams and shelves, the security pins should be used in all applications (Ref. 22). Assembly instructions as per the sketch at right.









They are used to fix the frames together when building back-to-back bays to improve stability. They are located at mid height (Ref. 24).

# Security pins for beams in back-to-back bays They are used to prevent accidental lifting

of the beams when building back-to-back bays (Ref. 25).



## **CLADDING END PANELS H25**

End panels are manufactured in two standard sizes (200/300 mm wide x 25 mm) and in standard heights of 1485-1940-2480 mm (Ref. 26). End and middle joints are also available to build multiple cladding heights and/or to finish off the panels at their upper end (Ref. 31) (Ref. 31).



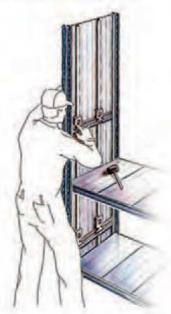


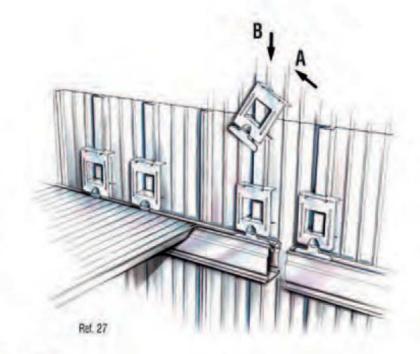
In case of the panels being lower then the respective frame, "H"-section profiles may be used at the bottom of the panels, to achieve equal height (Ref. 31).

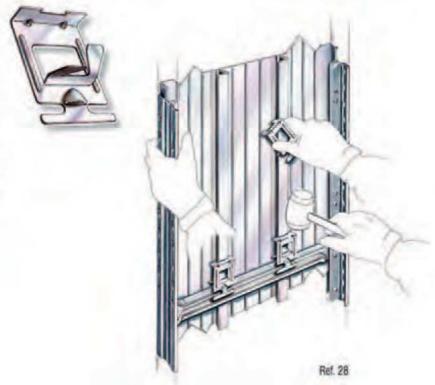


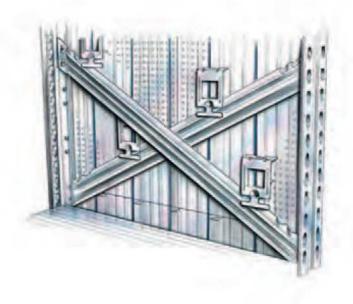


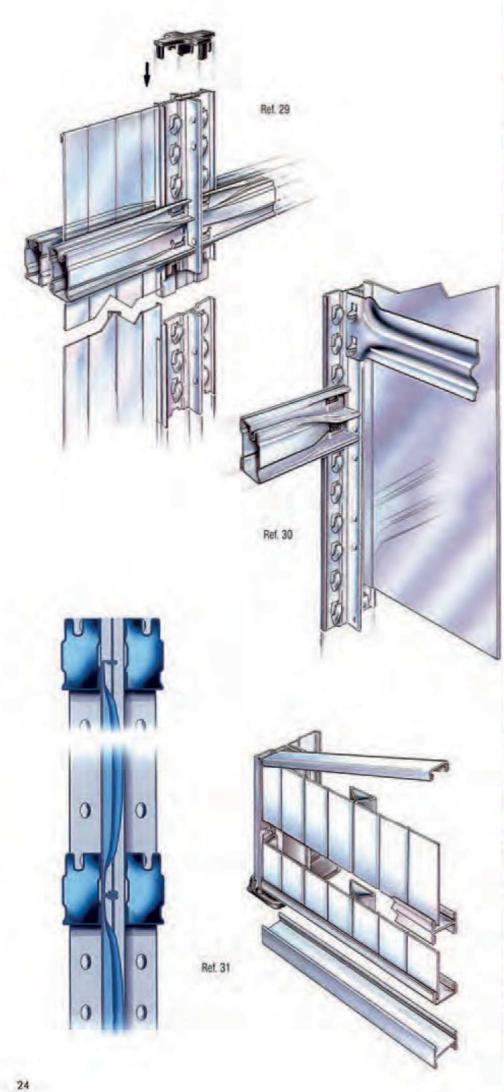
Punched hole panels H25 are also available, according to European Standards (i.e. hole diameter of 5 mm, at 25 mm centre distance). Special clips are used to fasten the cladding panels. For end panels it is the clip art. code n° 68107.95 (Ref. 28), for back panels H29 mm it is the clip art. code n° 68108.95 and for back panels H12 mm the clip 67010.95 (Ref. 27).













## Side cladding

This type of cladding may be used to enclose individual bays within shelving runs. Available for frame depths up to 600 mm. Side cladding panels are fitted between the diagonal spacer bars of the frames. When ordering side frame claddings, the respective frames are to be built with diagonal spacer bars only, i.e. the horizontal spacer bars have to be replaced with diagonals (Ref. 30).





## **MODULAR SLIDING GATE**

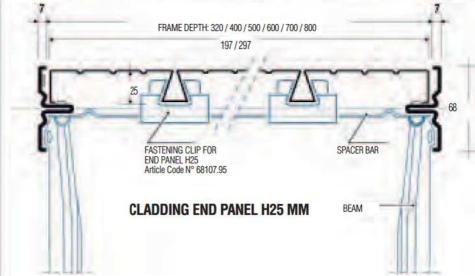
The modular METALSISTEM sliding gates are supplied preassembled, in kit form. Two different models are available: with guide rail assembled on the ground or with external, suspended guide rails, made from a USP-upright profile supplied in standard lengths of 4500 mm which has to be cut to size on site according to individual needs. For available dimensions and ordering, please refer to page 48 of this brochure.

# CLADDING BACK PANELS H12 mm for back-to-back bays

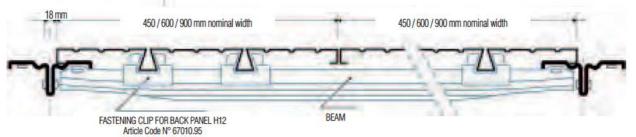
Back panels H12 are manufactured in 450-600-900 mm standard width and in standard heights of 1485-1940-2480-2980 mm (Ref. 29). When using H12 mm panels within back-to-back bays, the single modules are superposed at the center of the bay (see sketch below). The cladding modules are kept in position by the beams of the back-to-back bays. For multiple cladding heights, a couple of beams has to be located at junction points (Ref. 31).

The sketches shown below and beside explain the design and assembly of the various cladding components.

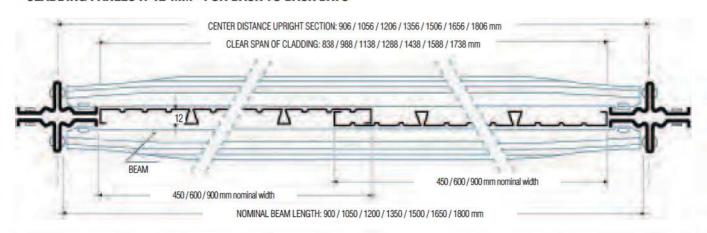


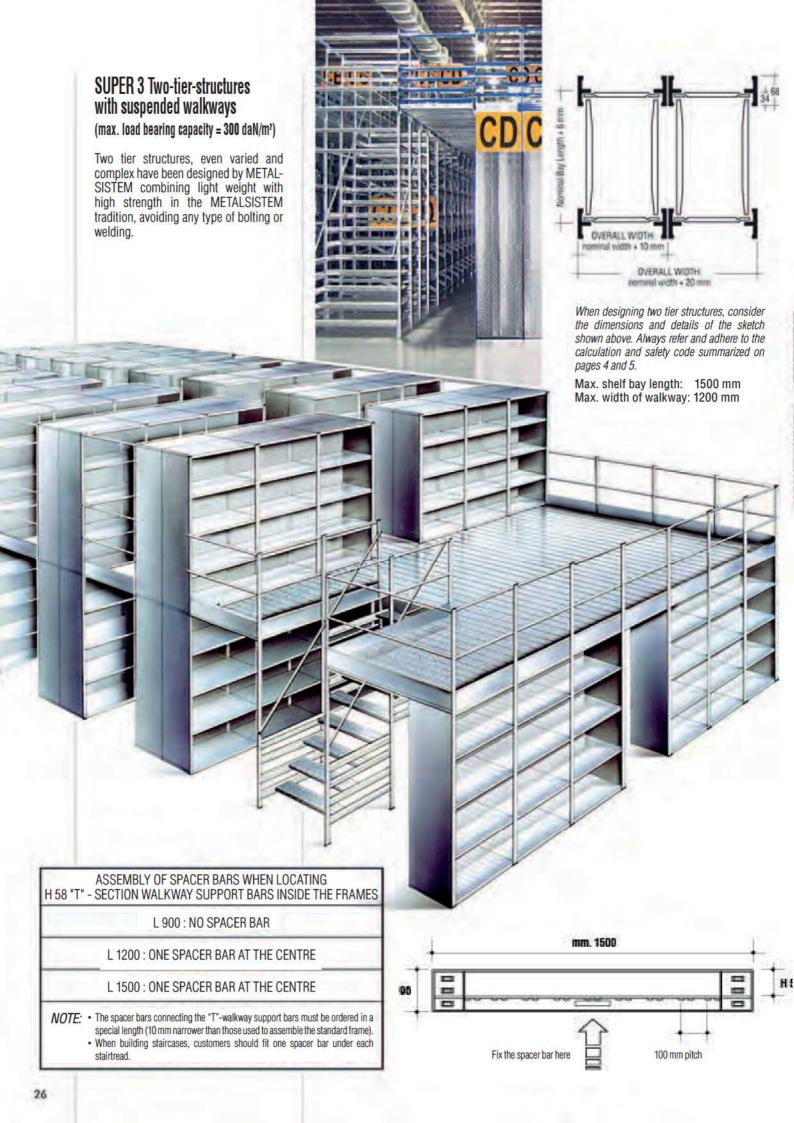


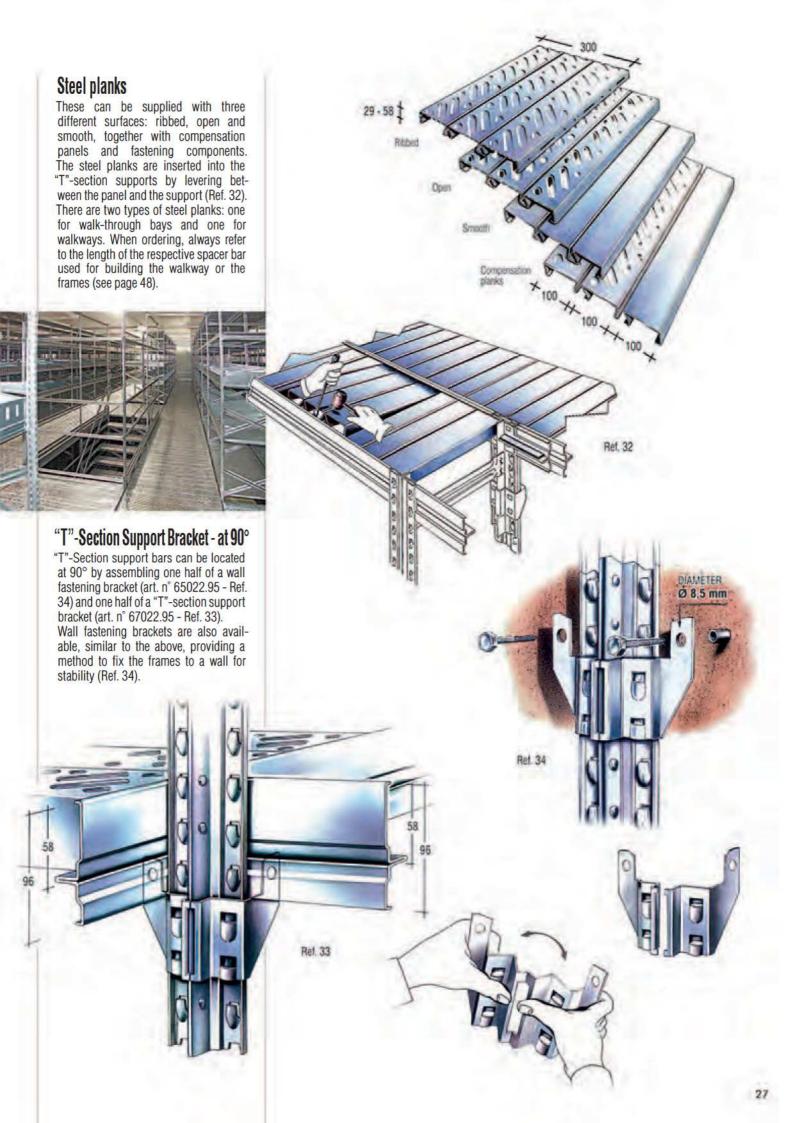
#### **BACK CLADDING H12 MM**

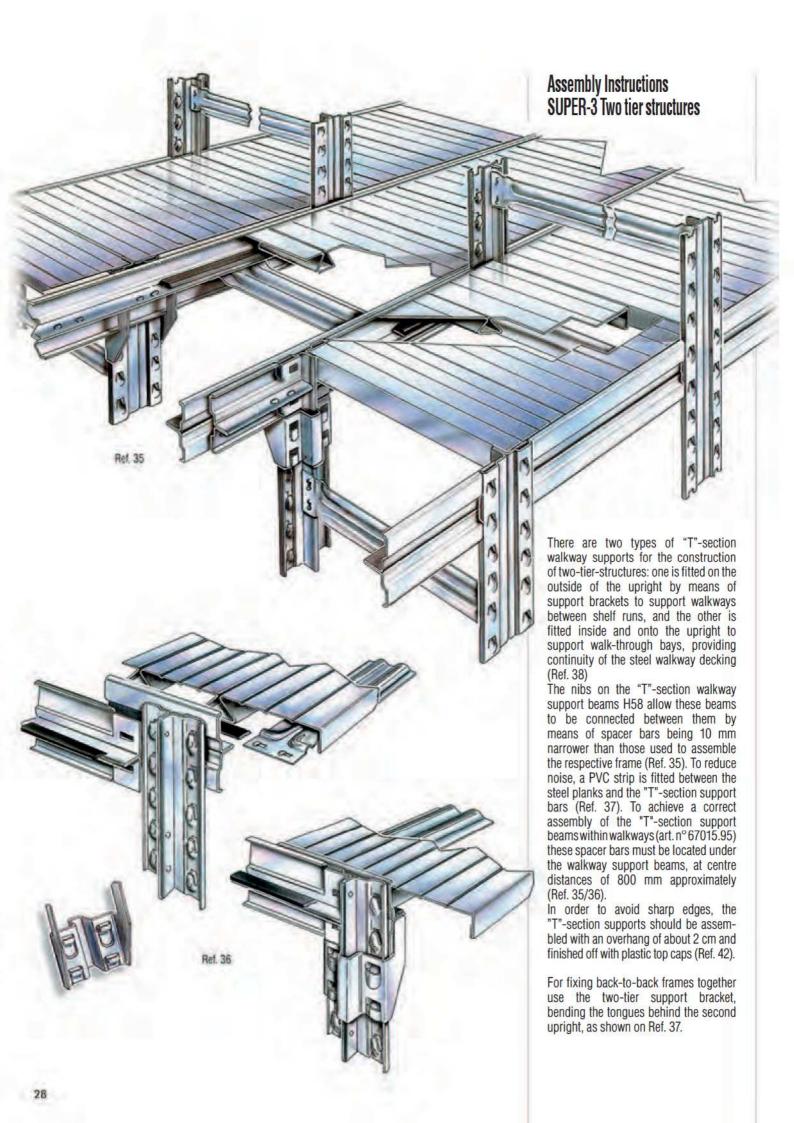


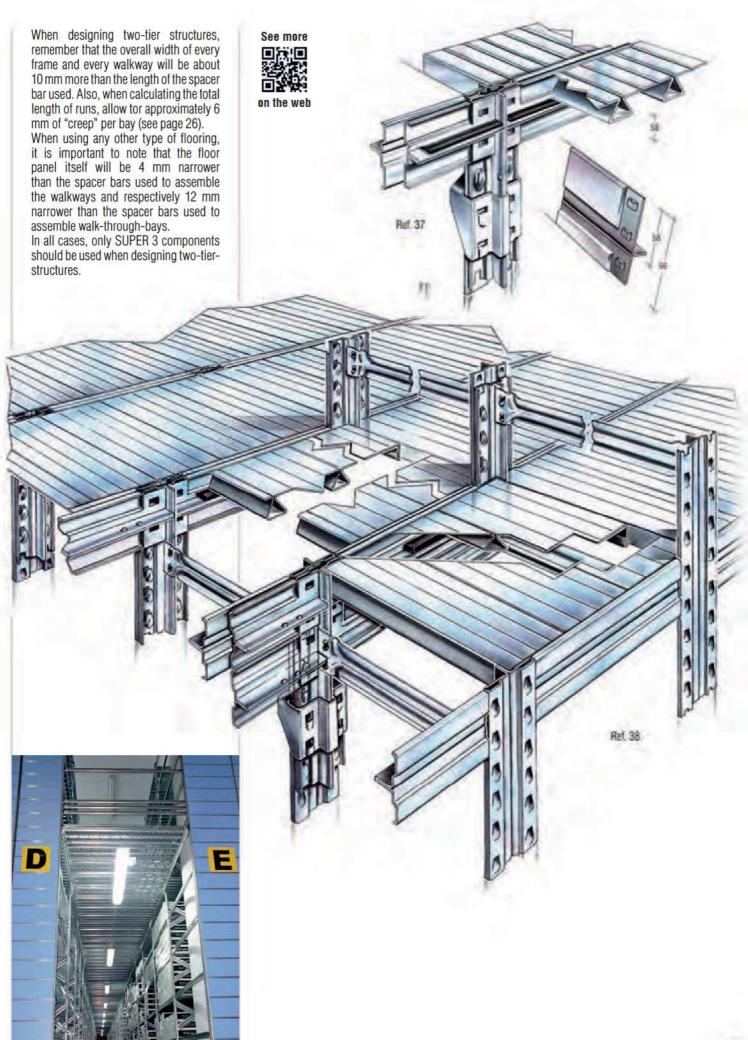
#### **CLADDING PANELS H-12-MM - FOR BACK TO BACK BAYS**

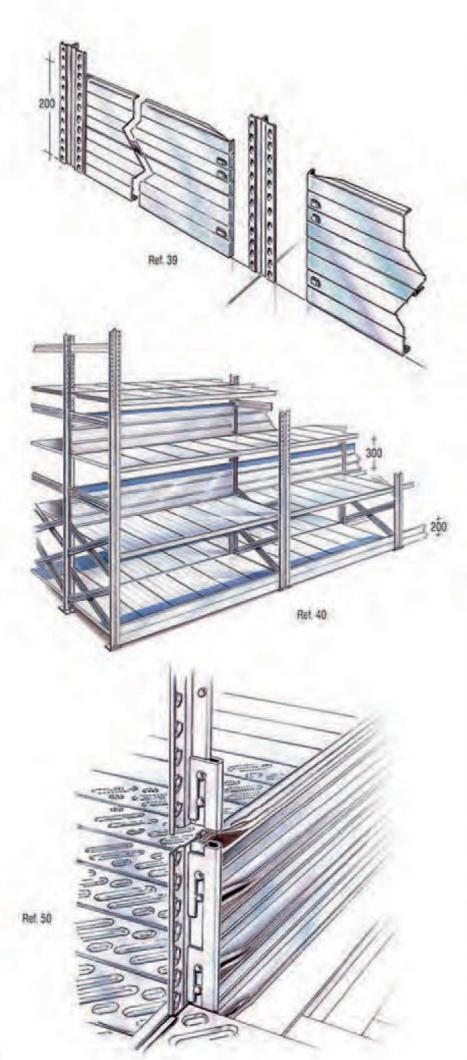












## **Kickboards**

Three different types of kickboards are available: for use in the direction of the beams, at the end of a run within uprights, or for walkway ends.

Kickboards are made from two oval shaped tubes (the same items used to build the handrails) fixed to the uprights and finished oft with a metal sheet element located onto the oval shaped tubes by self tapping screws. For correct ordering of these items and dimensions, please see instructions on page 48 of this brochure.

The use of beam retaining clips is mandatory.



In the direction of the beams, shelf boards are available in two different heights, 200 or 300 mm (art. n° 64016.95 - 64040.95).

These items have flanged ends with slots to be located onto the uprights (Ref. 39).

Upright reinforcement
Uprights that are used as newel posts for handrail should always be fitted with the reinforcing brackets shown (Ref. 50).



## Staircase handrails

The handrail tube is a square profile in  $\not \square$  32x32 mm section, available in both stainless steel and zinc coated version. The fastening of the handrail onto the uprights is made by nylon components and brackets, as shown in the picture below (Ref. 45).

The necessary components have been included into a macro code, for easy ordering. Please refer to page 50 of this brochure.



## **Hand rails**

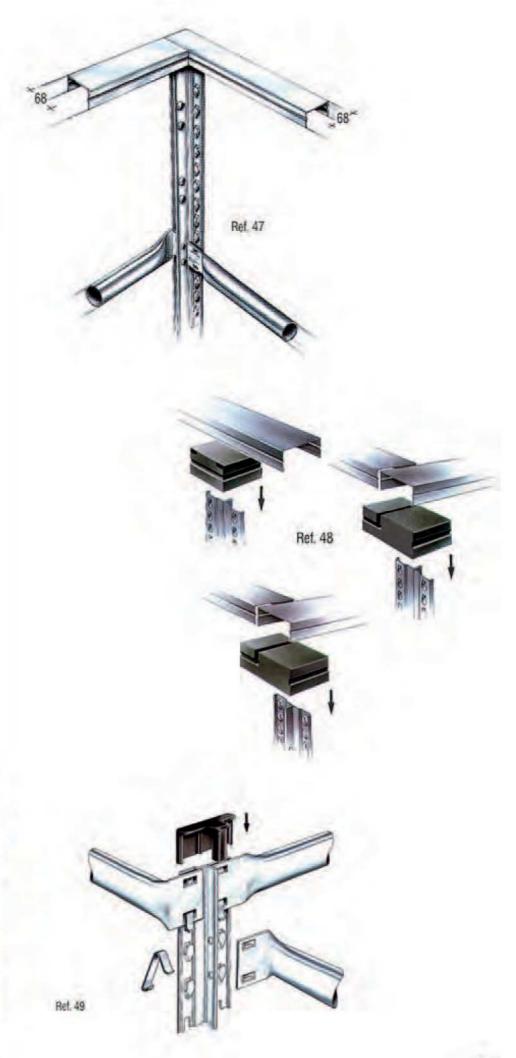
Hand rails and knee rails are made from oval shaped beams (Ref. 49). For correct ordering of these items, please see instructions on page 48 of this brochure.

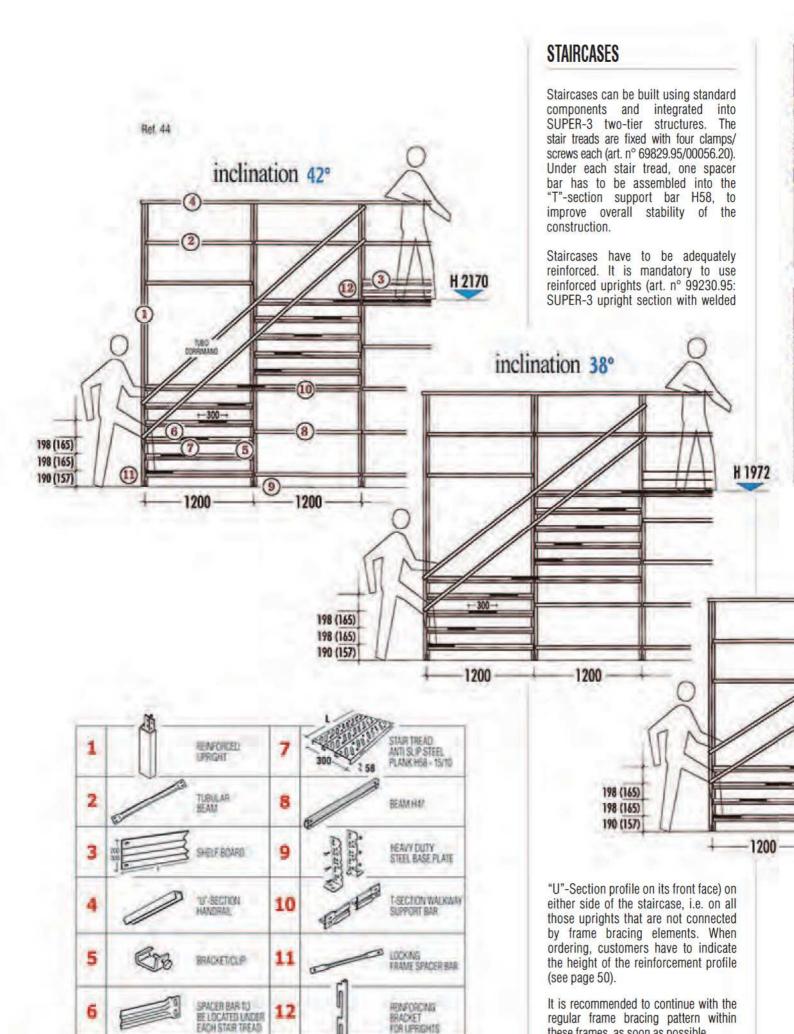
The use of beam retaining clips and upright tops caps is mandatory.

Handrails on two-tier structures may also be built with "U"-Section profiles assembled in conjunction with special PVC supports (Ref. 47-48).

These supports can also be used to finish off the handrails at their ends.





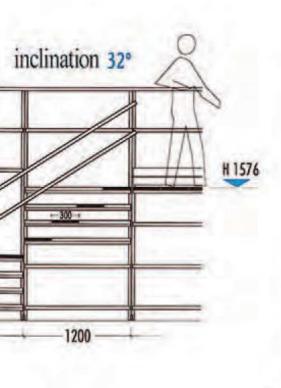


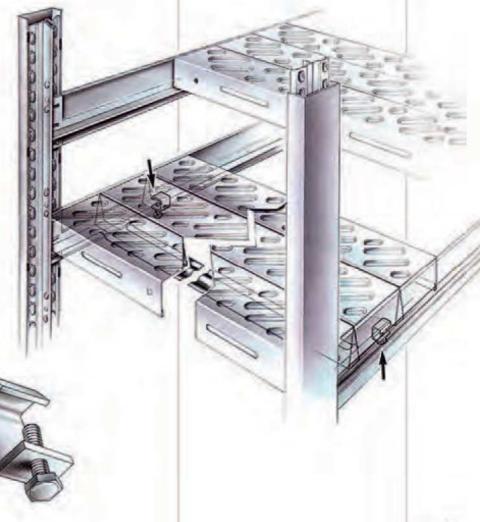
these frames, as soon as possible.































## SUPER 1-2-3 shelving system integrated with EUROSCACCO shelf panels

The SUPER 1-2-3 shelving series can be integrated with EUROSCACCO shelf panels. This combination provides specific advantages for shopfitting applications, such as an enhanced choice among various display solutions.

EUROSCACCO shelf panels can be equipped and customised with a huge array of accessory items, such as wire dividers and front risers. This system is available for frames of the SUPER-1 series with a maximum height of 2500 mm.

EUROSCACCO shelves are available in smooth and perforated version, in 1000-1250-1333 mm length, to suit frame depths ranging from 300 to 700 mm, providing a load bearing capacity of 70 daN per shelf, for uniformly distributed loads. SUPER 1 frames, when integrated with EUROSCACCO shelf panels, require vertical bracing - please refer to page 39.

## **Shopfitting accessories**

A wide range of hooks, wire rods, and bars with pegs are available for supply. These items fit onto the oval beams in 10/10 and 18/10 mm gauge (art. n° 36051.95-36810.95 - see pages 38 and 48 of this brochure).

## Trendy Shopfitting and Display Solutions

Achieved with the modular SUPER 1-2-3 shelving series. See pictures at left.

## **Sliding Doors**

Sliding Doors are ideal for areas with limited corridor width and can be used to create closed spaces or cupboards. Sliding doors are supplied preassembled and are available in the standard METALSISTEM colour range. A lock is supplied as a standard accessory with every door. Sliding doors are available for 900-1200-1500 mm bay lengths, in two different heights: 2000 and 2500 mm.

The sliding rails are made to match the height of the shelving beams on top and at the bottom of the shelving bay. In case of MOBIBASIC mobile shelving installations, the rails are fixed directly to the MOBIBASIC chassis and to the shelving beam on top of the bay, to ensure a dust proof connection. For more information and ordering, please refer to page 42.

## **Mobile Shelving**

Thanks to its attractive high-tech design, SUPER 1-2-3 is also a highly suitable and cost effective system to achieve mobile shelving applications. For the design and ordering of mobile shelving installations, please refer to the MOBIBASIC Technical Manual <Doc: MT16>.



### **Modular Steel Cabinets**

Made from our shelving series and cladded with EUROSCACCO steel panels, these cabinets are equipped with lockable sliding doors and are highly performing in terms of load bearing capacity. Available in zinc coated or powder coated version (Ref. 62). The standard configuration has been conceived with four modular, adjustable steel shelves made from SUPER-1-beams and H-12-shelf panels; other configurations can be easily achieved thanks to the modular design. Customers may use shelving components from their stock to build the framework and just order the cladding set to build the cabinet. Compared to similar products available on the market, METALSISTEM steel cabinets distinguish themselves by higher load capacities, utmost cost efficiency and solidity. Available as well in a width of 1500 mm; a feature that is not common for this product category. For ordering, see page 42.

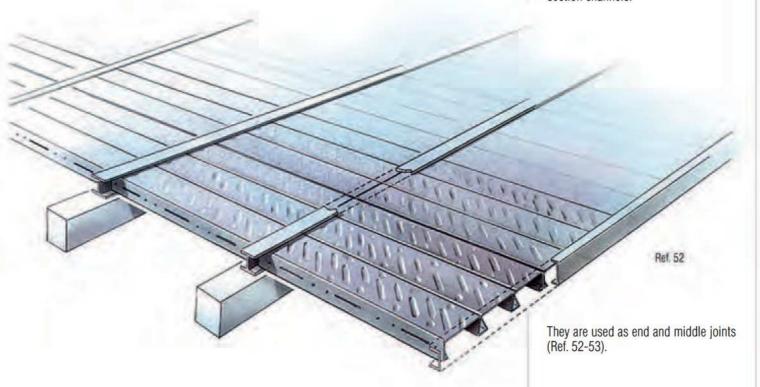
## **Mobile Ladders**

Mobile ladders are available in 2000-2500-3000 mm height (in 5-7-9-step version) and can be supplied with guide rail and curves to adapt them to any environment (Ref. 56). For ordering please refer to page 47.

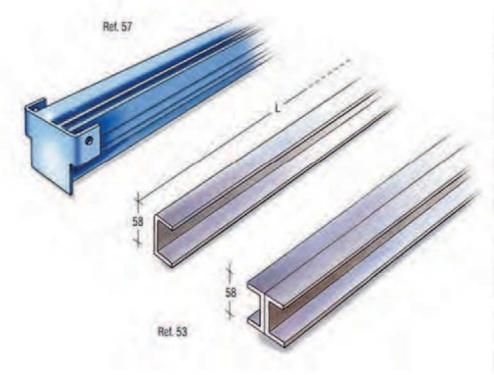


## Steel planking

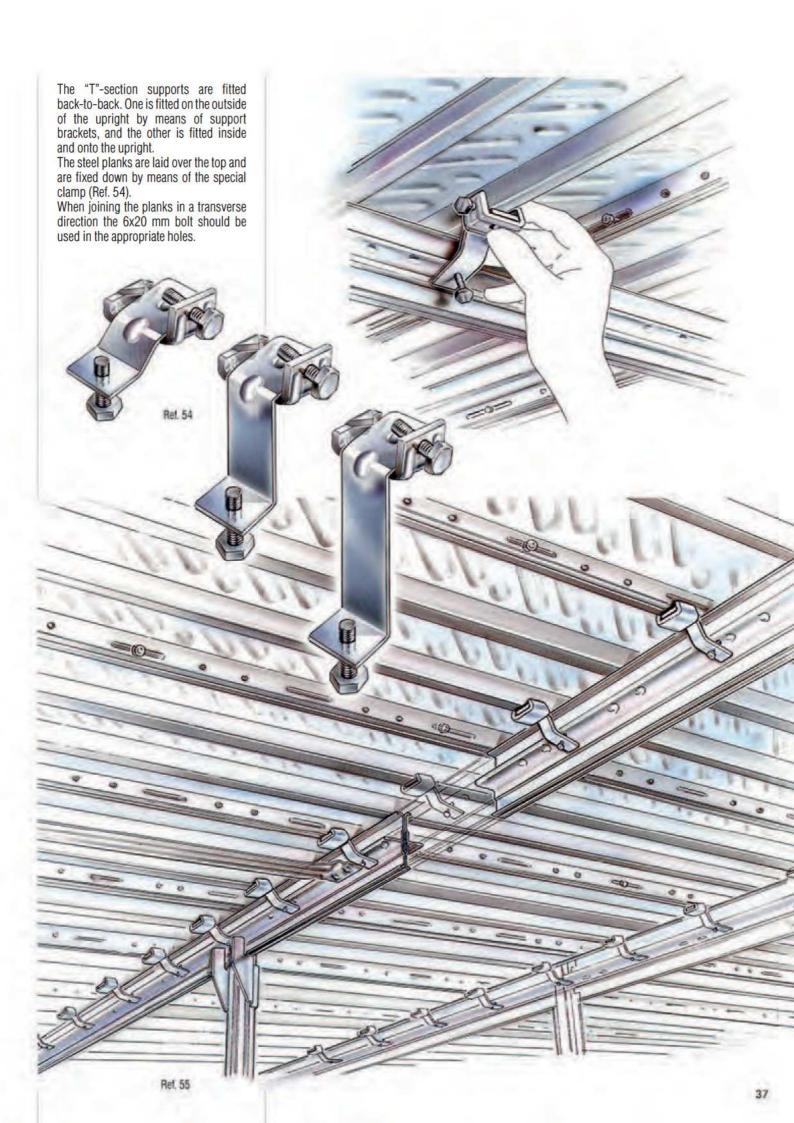
"T"-sections can be used as support beams for the steel planking (Ref. 55). Floors of any dimension can be built in conjunction with "H" joints and "U" section channels.



The 70 mm-section walkway beam (art. 99253B.B1) provides an alternative solution to the use of the "T"-section support bars. It enables the steel planks to be laid in length direction along the walkways (Ref. 57).

















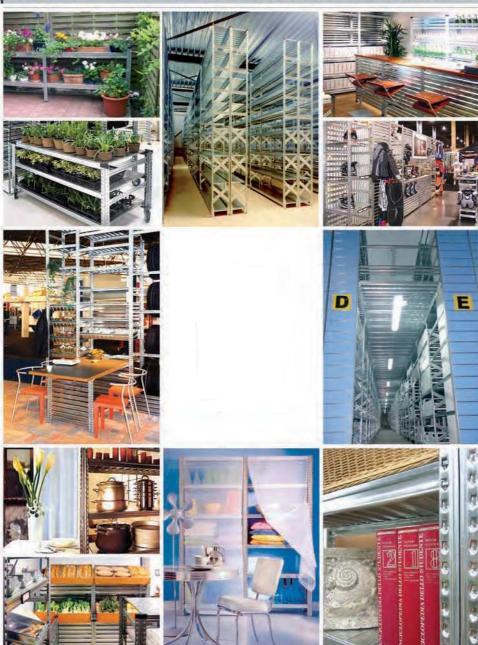








Our dedication to making a difference: creating MORE VALUE with LESS IMPACTI METALSISTEM is proud to adopt ECO-EFFICIEN concepts in its business model. ZERO emission and ZERO ecological impact thanks to a UNIQUE MANUFACTURING FROCESSI METALSISTEM has achieved energy self-sufficiency through the use of renewable resources.





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