

TERZO UNO MODULAR STEEL STORAGE SYSTEMS MODULAR STEEL STORAGE SYSTEMS

SUPER 1/2/3

PATENTED BOLTLESS SHELVING



METALSISTEM
SISTEMI E STRUTTURE PER IL MAGAZZINO

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 sales outlet 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 systems.

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 TUV 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 is certified by IGO.

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.

Ref. N°:	SUPER 2
System:	1996
Year of Construction:	2000 kg
Frame Load Capacity (u.d.l.):	200 kg
Shelf Load Capacity (u.d.l.):	10 kg
Weight of Load Unit:	700 mm
Distance between ground and first beam level:	

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

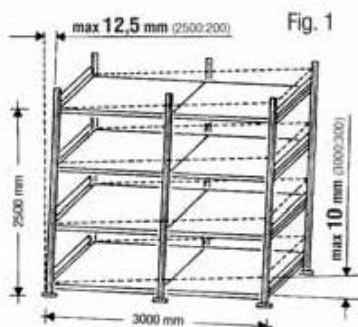


Fig. 1

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.

Fig. 2



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 sq.mt. (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 loaded 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. n° 67006), securely bolted to the floor slab. Staircases must be adequately reinforced and built with the reinforced SUPER 3 uprights only (art. n° 99230), either side of the staircase. The correct use of all safety components mentioned in this brochure is obligatory. The maximum load bearing capacity of walkways/decking within two-tier-structures and platforms is 300 kg/m², the maximum width of walkways is 1200mm, 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:
-EN10204 - EN10142 - EN10147

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

j) 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 indicative.

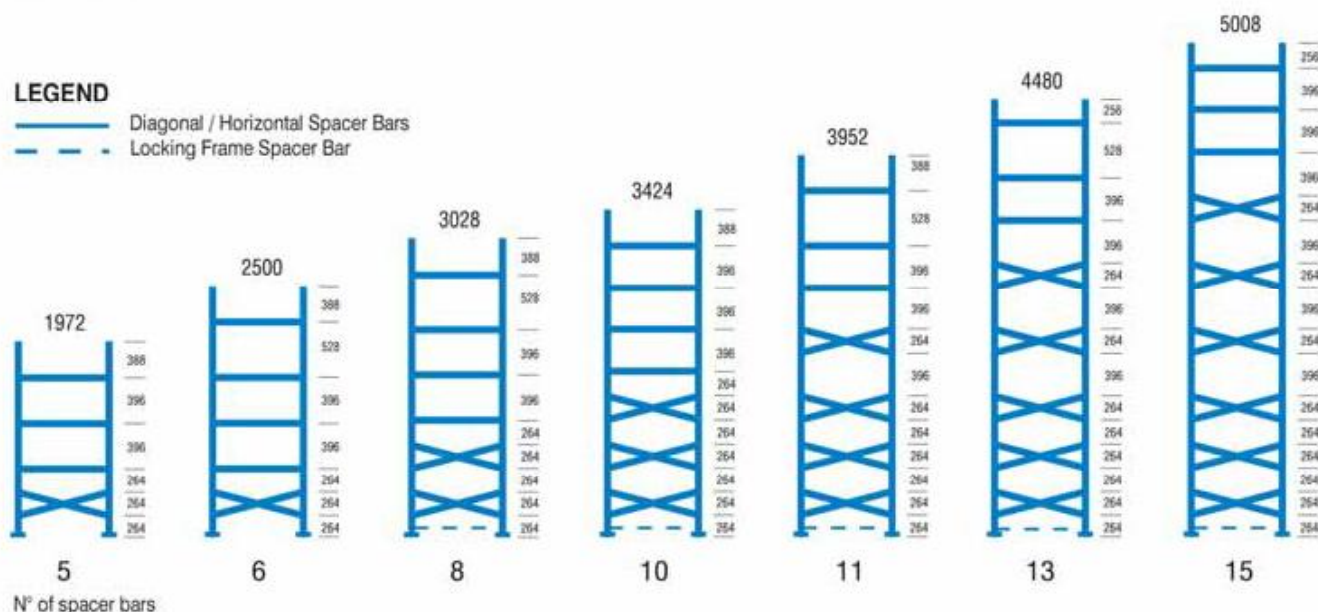


DIAGRAM FOR ASSEMBLING BRACING FOR FRAMES

320 - 400 - 500 - 600 - 700 - 800 mm in depth

LEGEND

- Diagonal / Horizontal Spacer Bars
- - - Locking Frame Spacer Bar

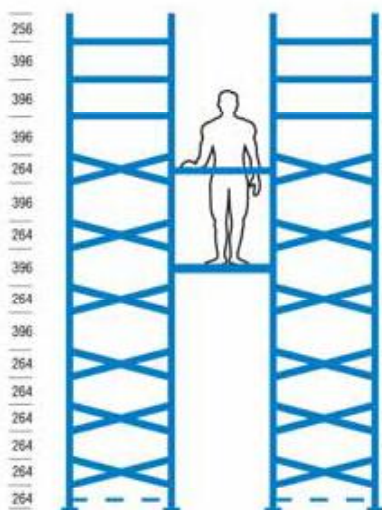


TWO TIER STRUCTURES PLATFORMS

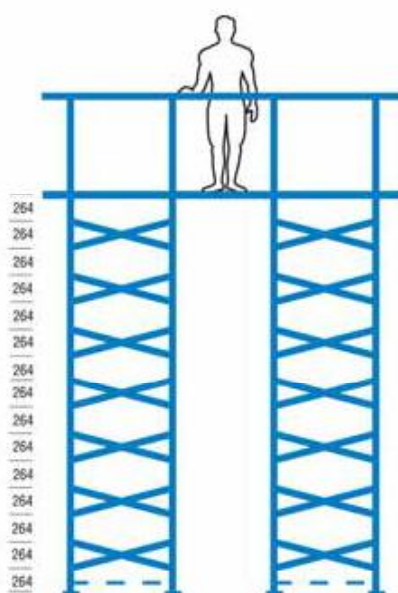
In case of two tier structures with suspended walkways the frames are to be assembled as shown in case "A" at left (i.e. the standard frame assembly diagram). In case of platforms with continuous floor decking, the frames have to be assembled with pairs of diagonal spacer bars only, at centre distances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

In both the cases the frames must be securely bolted to the floor slab using the heavy duty base plates (art.n° 67006) 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) 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.



CASE "A"
Two tier structure with
suspended walkways



CASE "B"
Platform with continuous floor







THE COMPANY TODAY

METALSISTEM products are now in use in a great many installations throughout the world, and after more than 30 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 3.1B.





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 pleasing to the eye and can provide unique solutions for applications in domestic environments. See examples at left.



Ref. 1

ASSEMBLY INSTRUCTIONS

Base plates

Fit the metal base plate onto the upright, using pliers to guide the two tongues on the plate into the ribs on the upright. Then tap the base plate into the ribs with a hammer. Plastic base plates should be used for the SUPER 1 system only (Ref.1). Double plastic base plates are available for back-to-back bays.

These can also be used as top caps for double uprights (Ref.29).

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

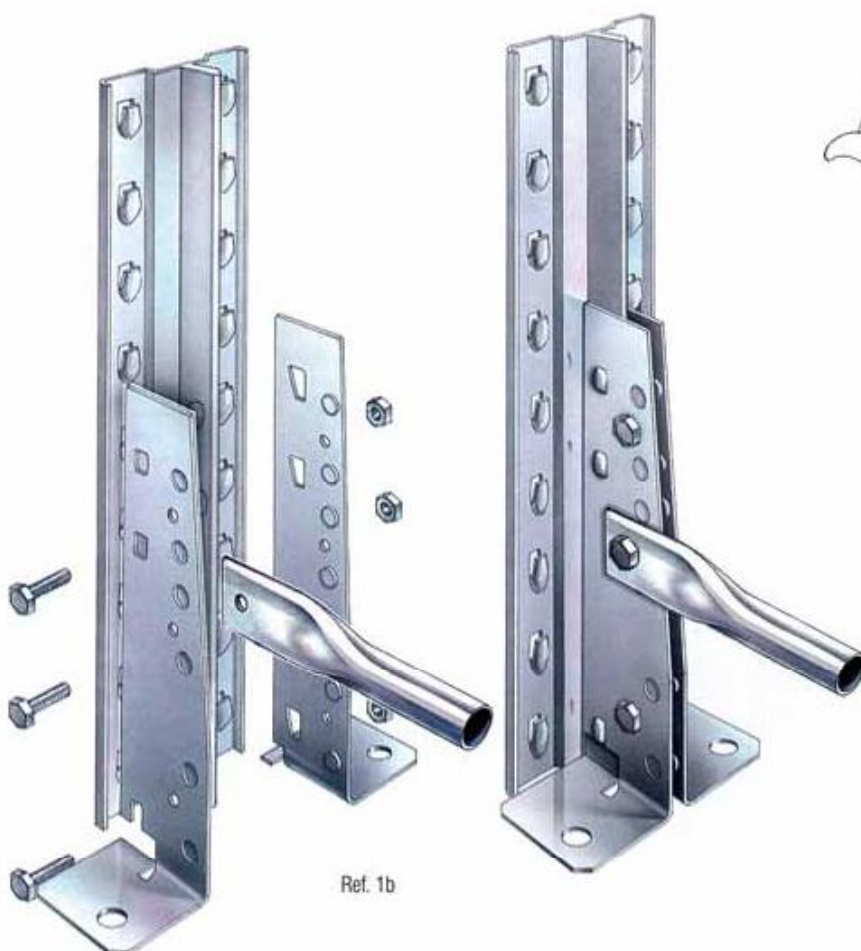
- when building platforms and/or two-tier structures with suspended walkways;



- 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;

In all the other cases customers may use the normal standard base plates.

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



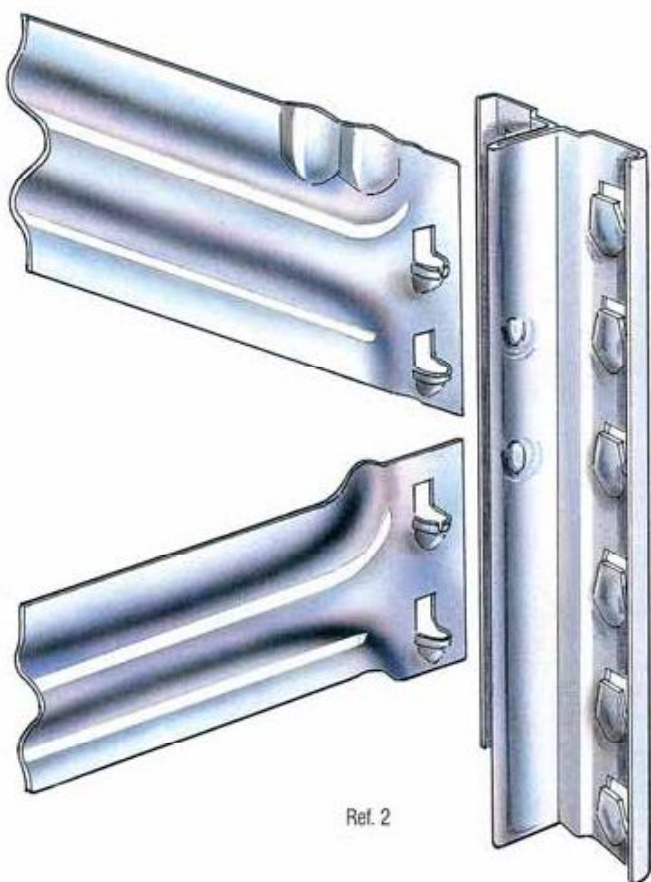
Ref. 1b

Spacer bars

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 ribs 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).



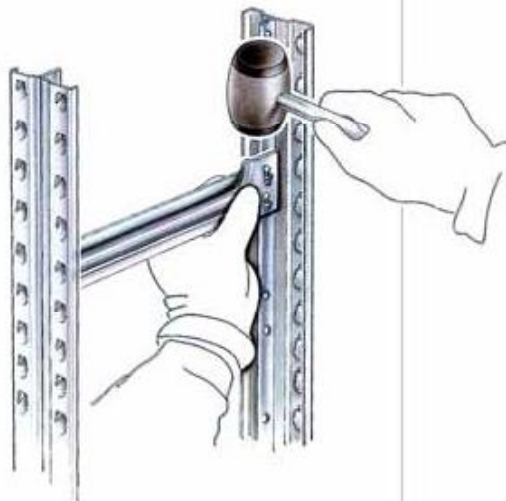
Ref. 2



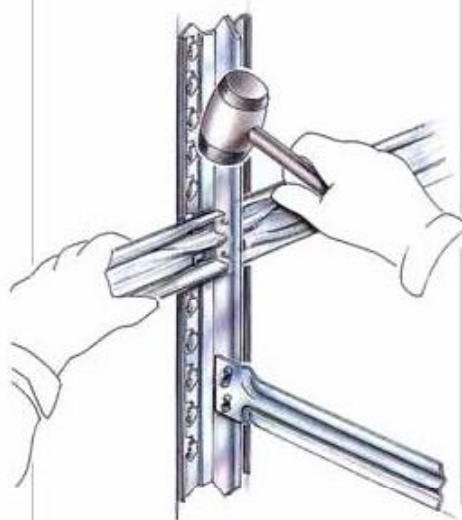
Ref. 3

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,

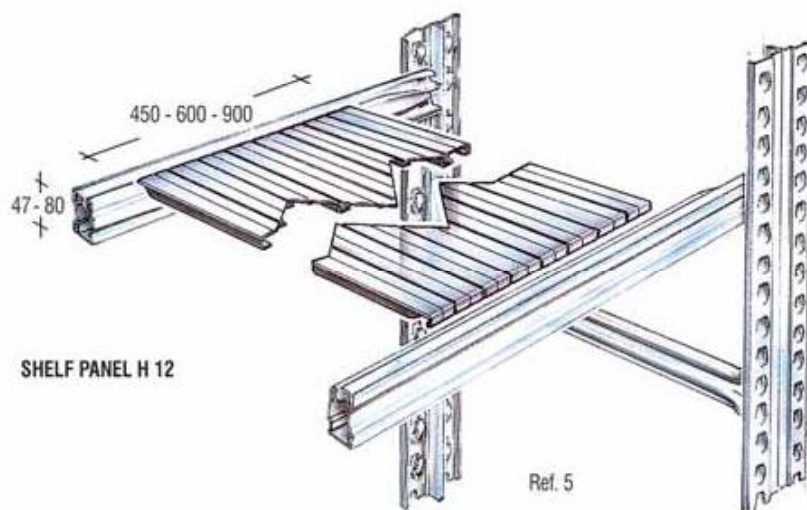


with a plastic-faced hammer to avoid damage to the beam (Ref. 3). The beams, once assembled, should be secured with the respective beam locking pins (see page 21, Ref. 22).



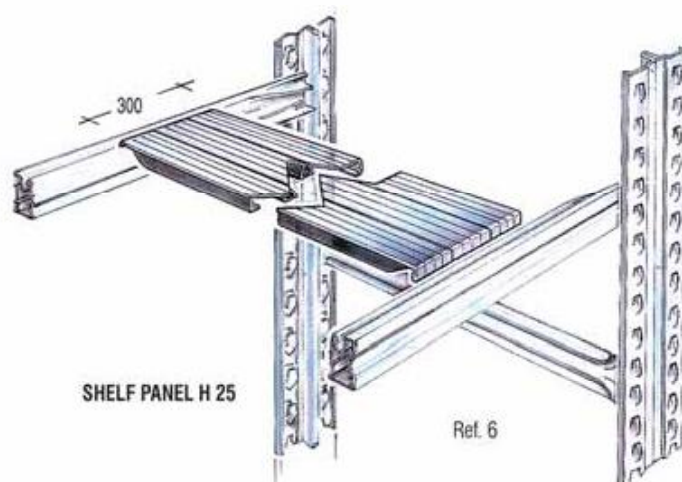
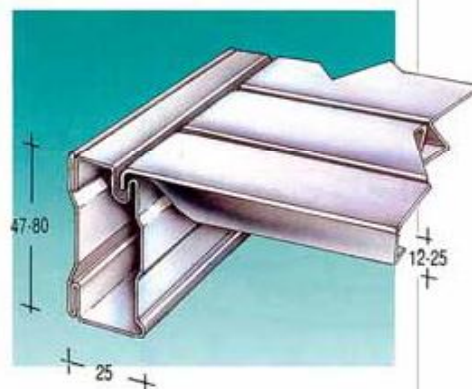
For the storage of tyres or round materials which are placed directly onto the beams, plastic strips are available to avoid damage to the products stored; these strips are fitted into the recess of the beams (see page 21, Ref. 21).





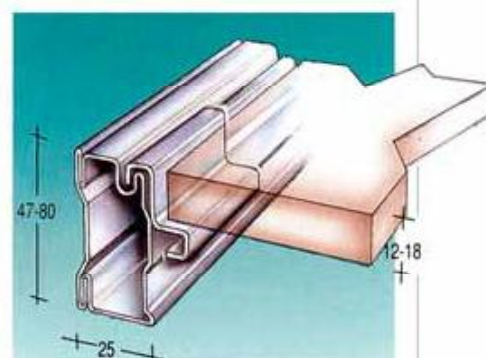
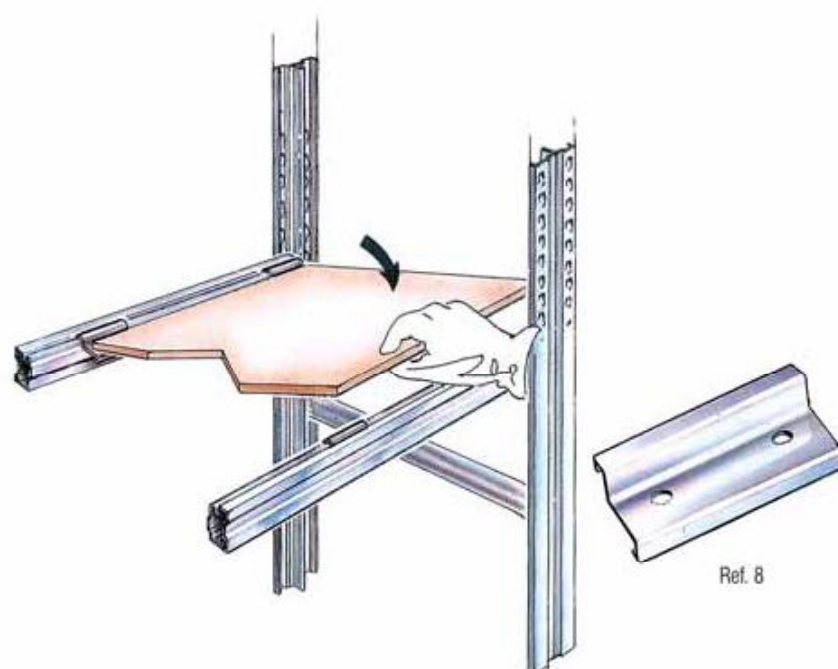
Shelves

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).

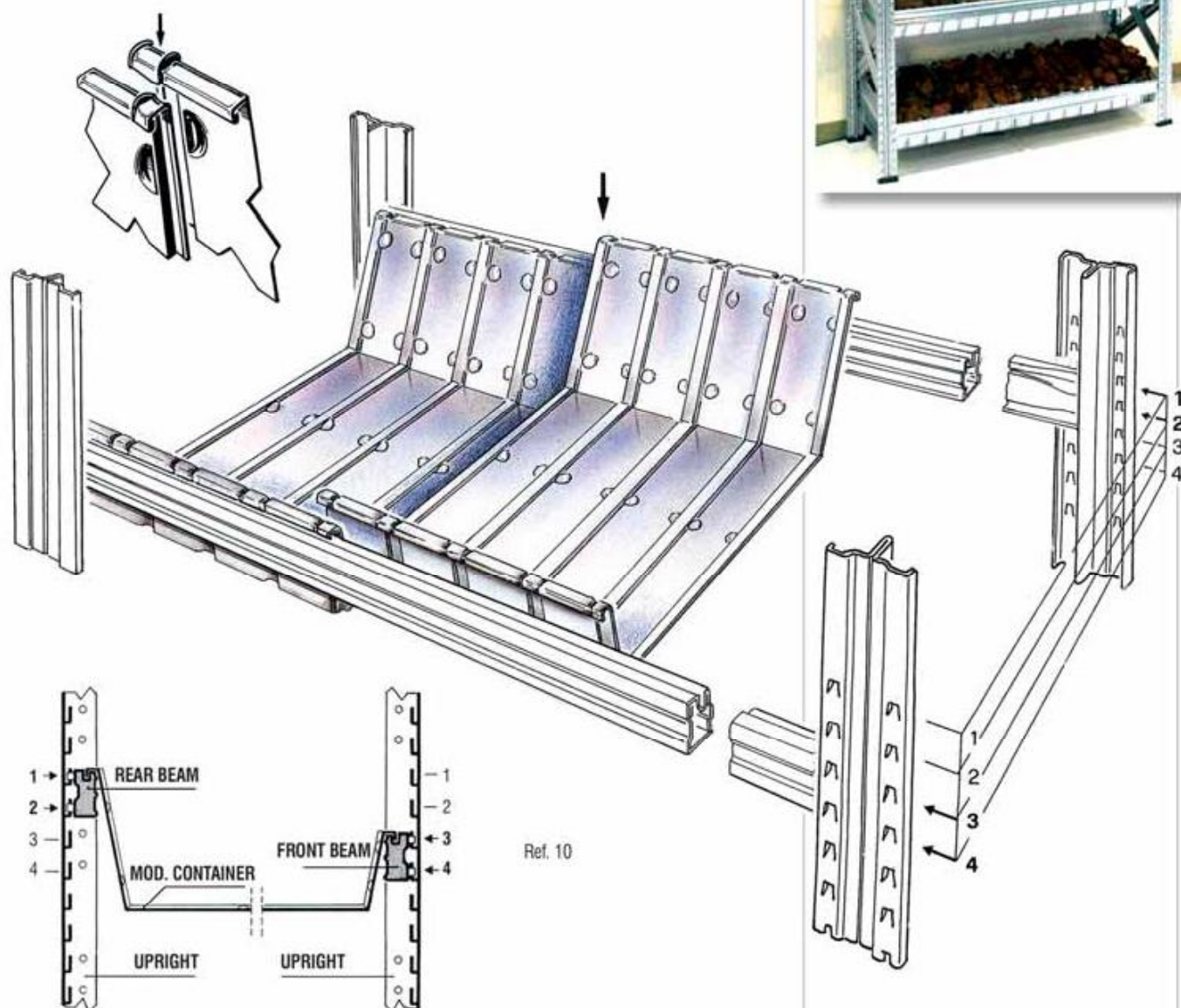
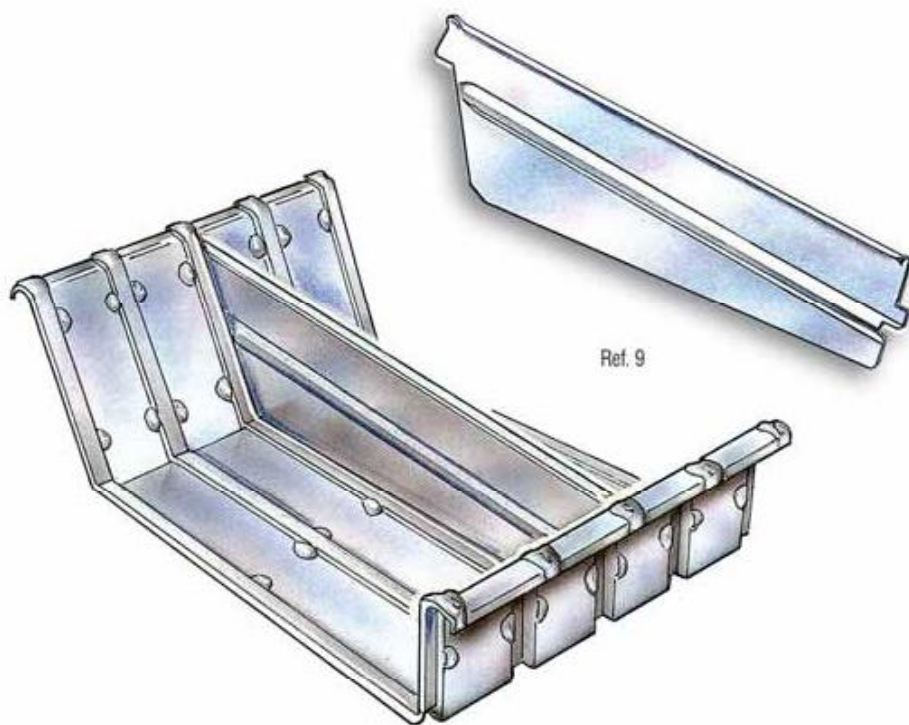


Chipboard shelves

Chipboard shelves of thickness 12 or 18 mm can be fitted using the clips shown at left (Ref. 8).



Modular containers



Insert the containers from left to right, and join them together by overlapping the beginning of the following container onto the end of the preceding one, pressing them into the recess of the beams.

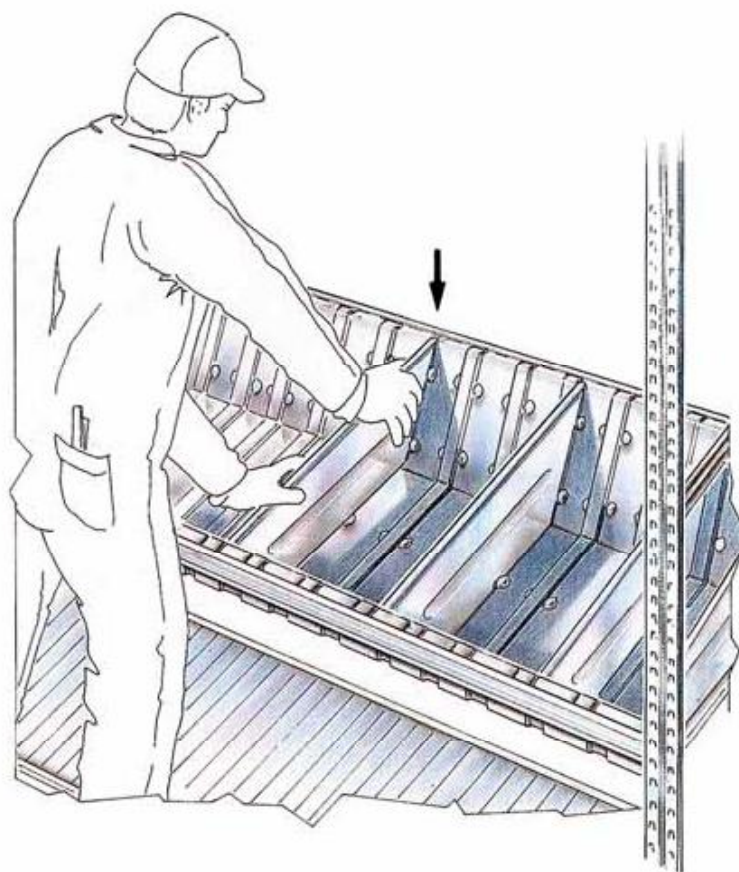
To assemble the containers correctly, the rear beam should be fitted two pitches higher than the front one (Ref. 10).

Fit the dividers into the special slotted seats, pushing down to locate (Ref. 9).

When exceeding the depth of 800 mm, it is advisable to use back-to-back bays, to increase stability.



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

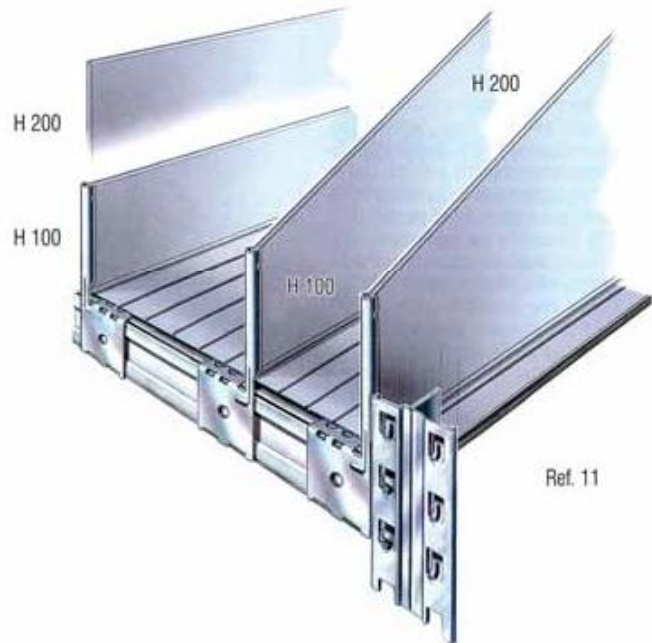


DIVIDERS

A large range of dividers is available.

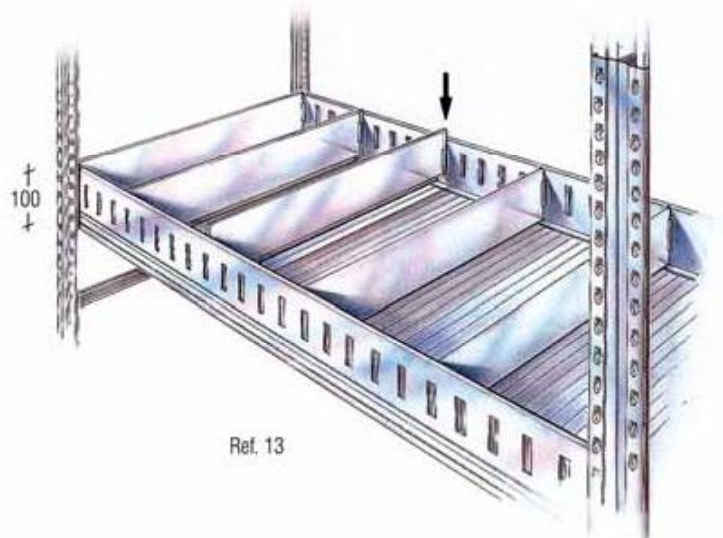
Vertical sliding dividers

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 (H200/100 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).

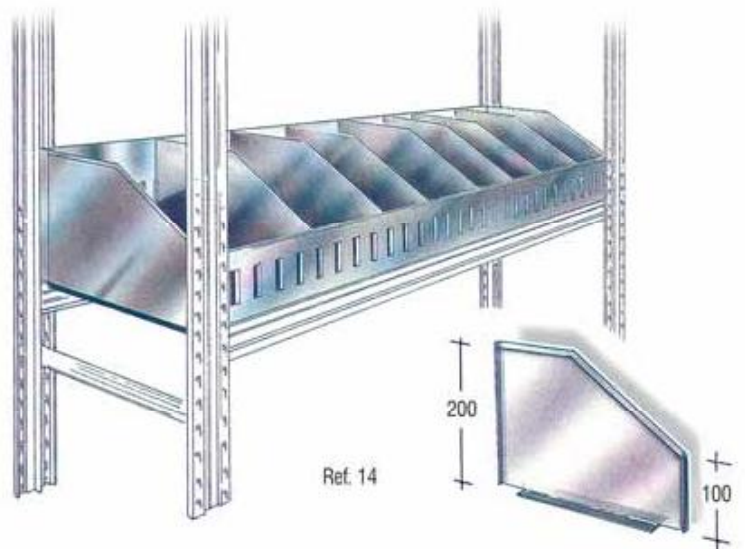
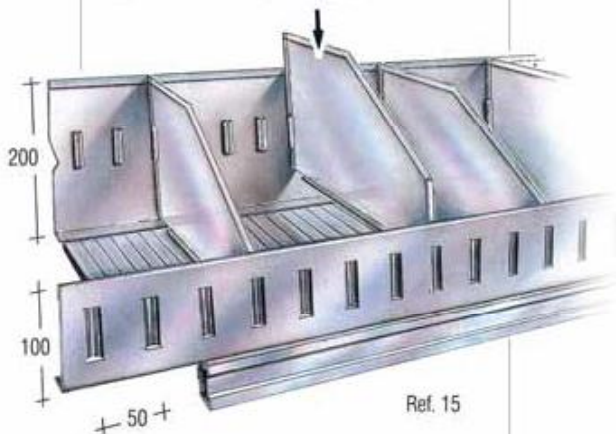


Chest of drawers

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).





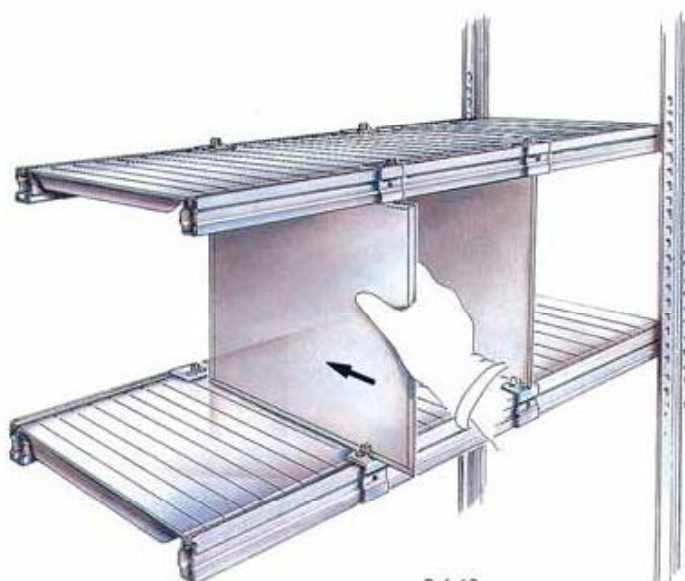
Plastic Bins "Bull Series"

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).



Ref. 16



Ref. 17

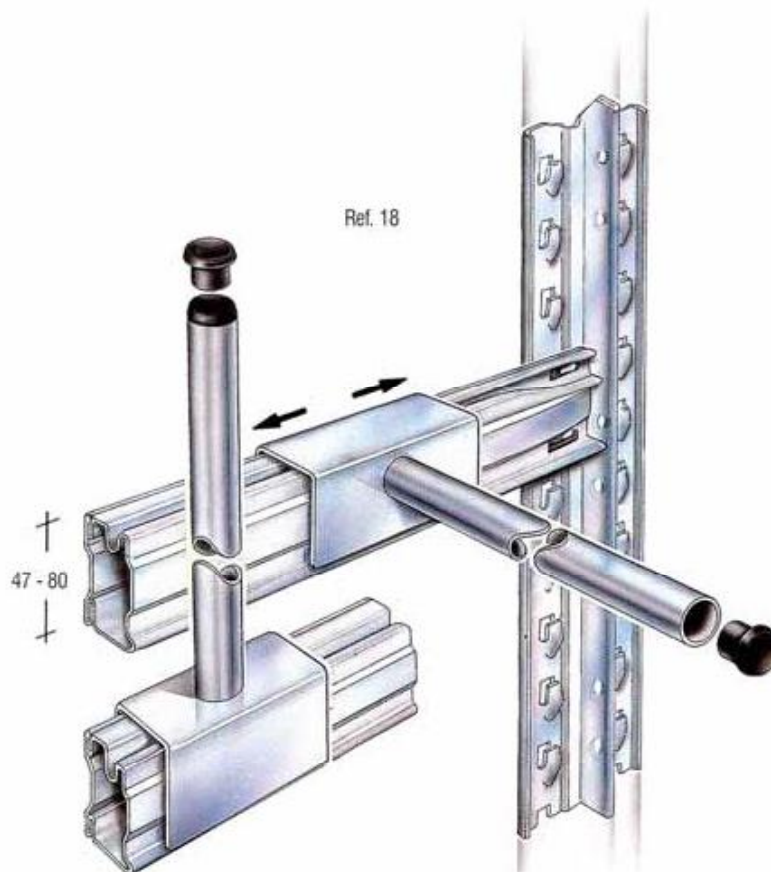
Telescopic Tube Dividers

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 (8MA). A minimum of two tubes should 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).



Ref. 18



ACCESSORIES

P.V.C. 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 identify correct use and appropriate load capacities.

In the case that the tyres will be stored on H-47-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.

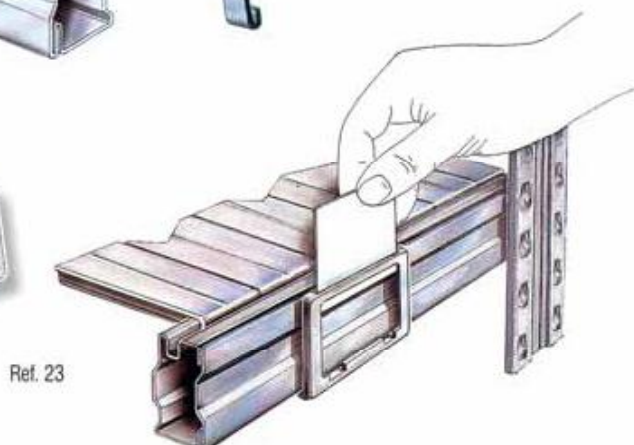
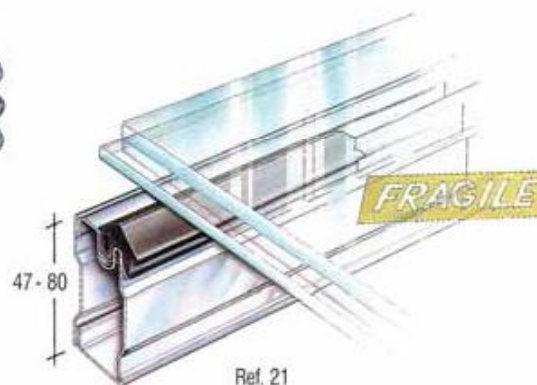
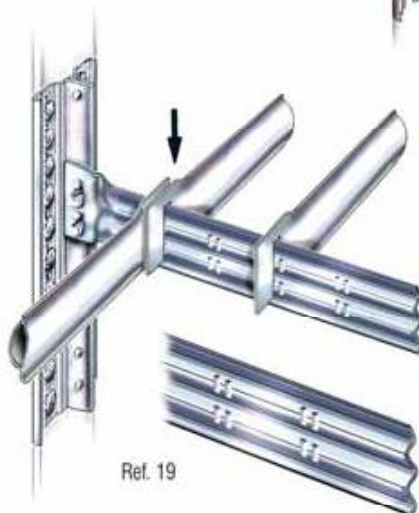
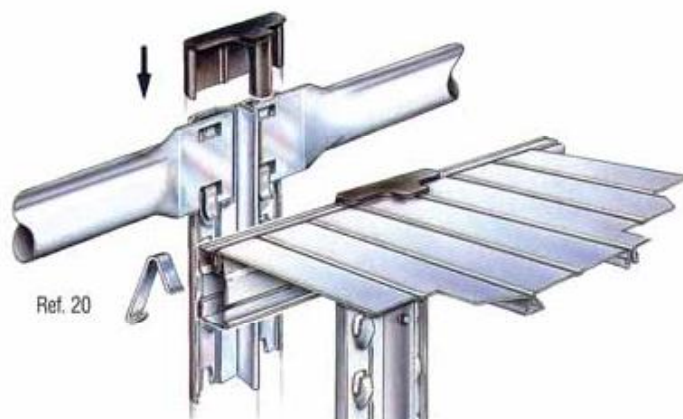
It can be fitted on the beams in order to protect glass shelves or delicate materials (Ref.21).

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.

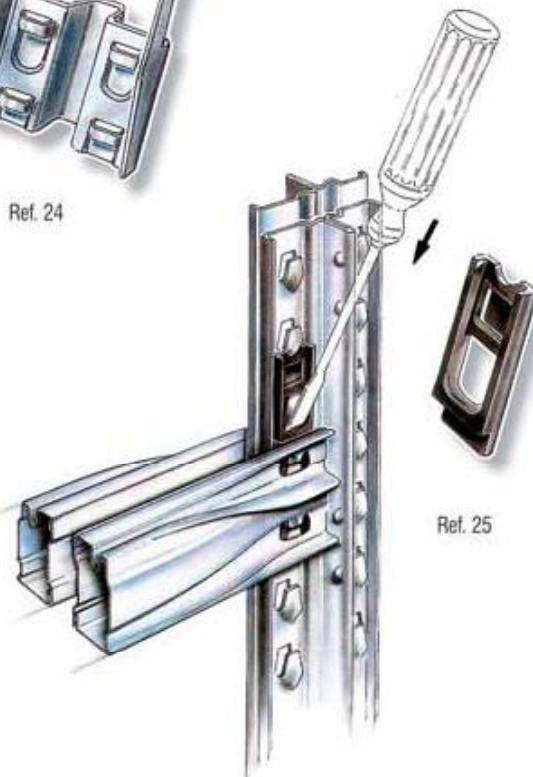
Label Holder

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





Ref. 24



Ref. 25

Frame back-to-back clips

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).



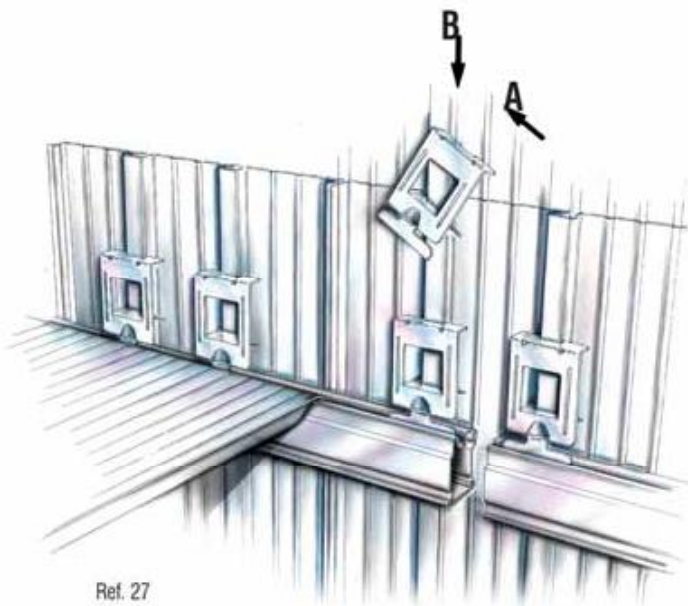
Ref. 26

CLADDING BACK AND END PANELS H25

Back and end panels are produced in two standard sizes (200 wide x 25 mm profile and 300 wide x 25 mm) and in varying heights of 1485-1940-2480 mm. Back and end claddings in any dimension can be built up in a modular form, using channel profiles "U" and "H" as end and middle joints (Ref. 26).



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

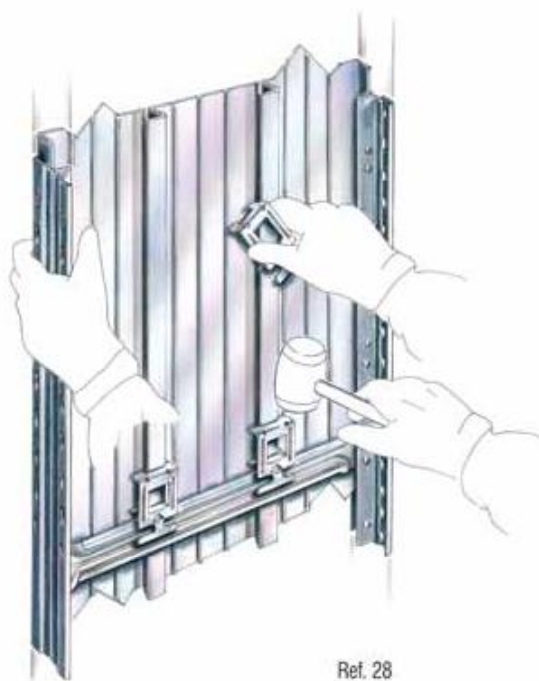


Ref. 27

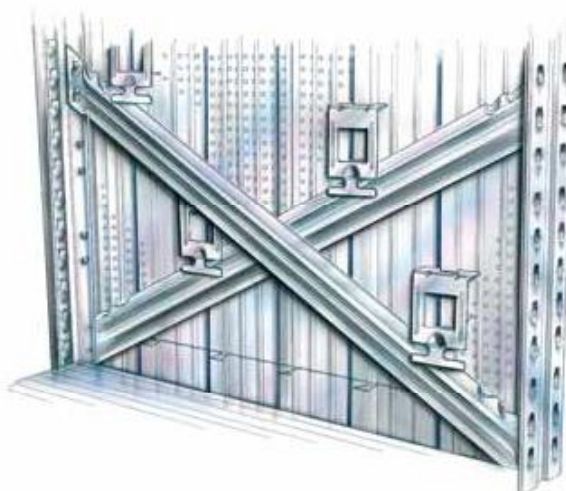


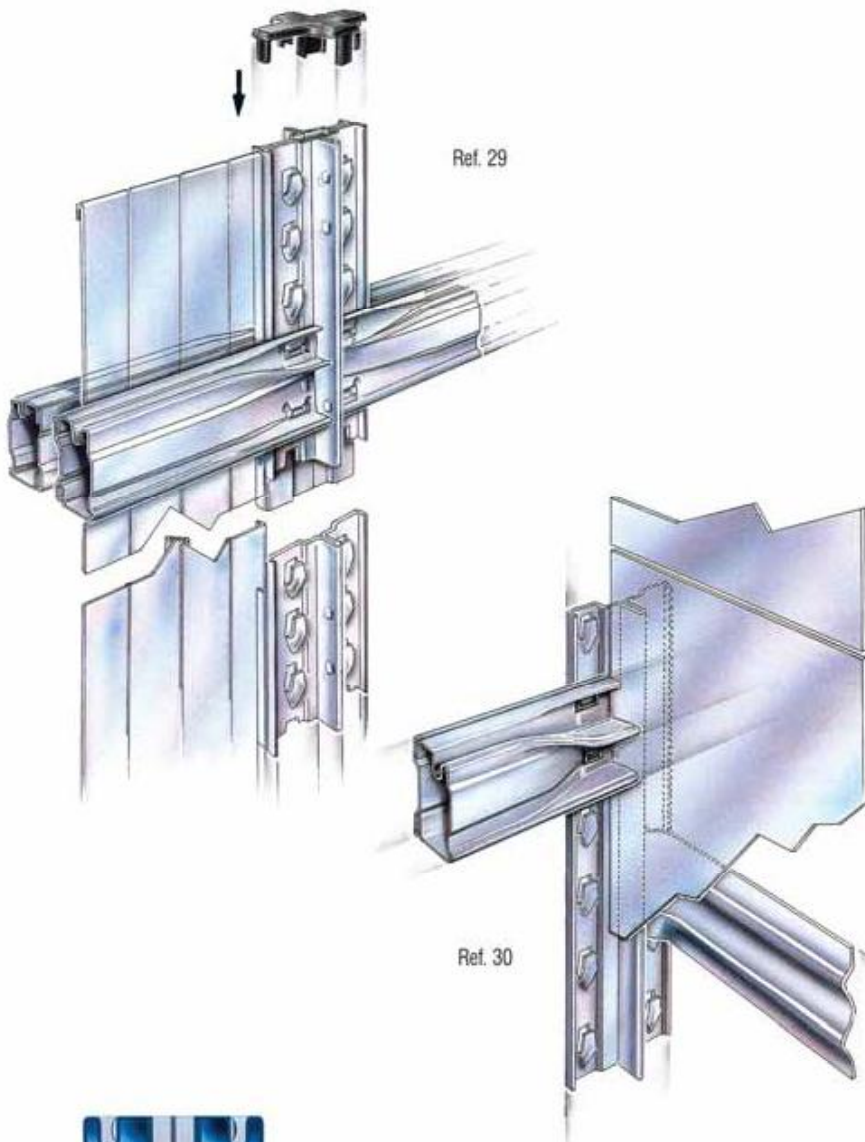
Punched hole back and end panels H25 (according to European Standard) are also available, similar to those described before, with 5 mm holes at 25 mm centres.

Special fixing clips are used to fasten the back cladding (Art. 68108 - Ref. 27) and frame end panels (Art. 68107 - Ref. 28).



Ref. 28





Back panels H 12 for back-to-back bays

These panels are produced in 600 and 900 mm wide modules and respective compensation panels and in varying heights of 1485-1940-2480 mm (Ref. 29). Any combination in height in the case of back-to-back bays can be made by locating a couple of SUPER 1 beams at junction points, as shown in the sketch at the bottom at left (Ref. 31).

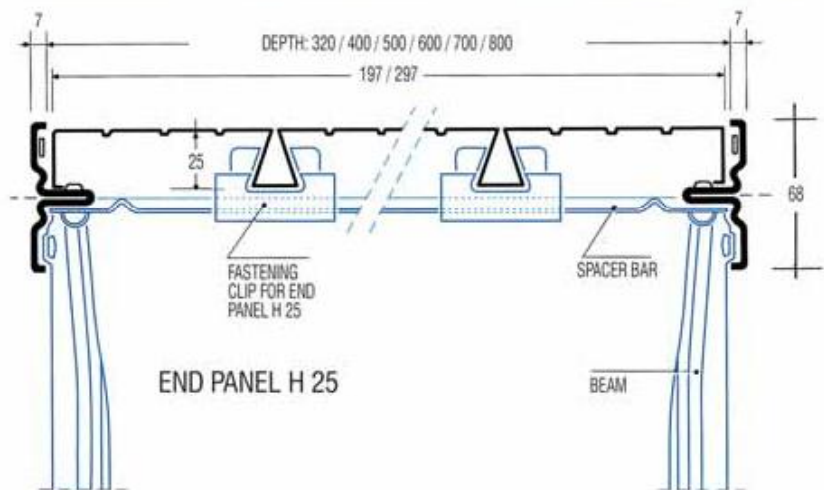


Side cladding

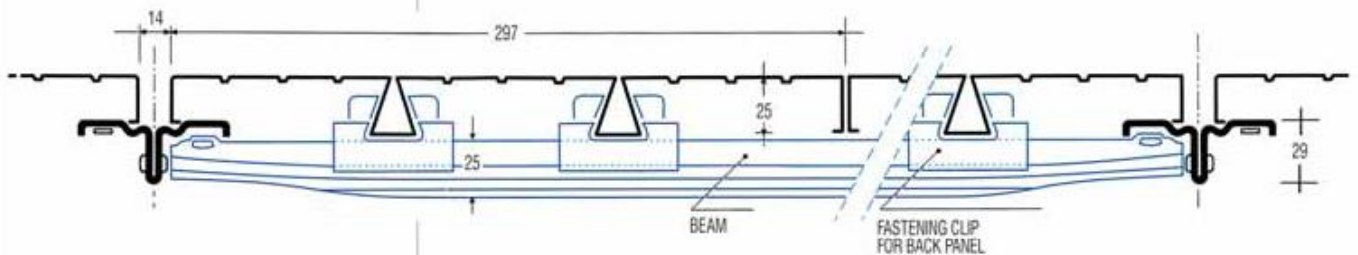
This type of cladding can be used to enclose individual bays within shelving runs and is available for all frame depths. Side cladding panels are fitted between the diagonal spacer bars of the frames. Side frame claddings of any height can be provided combining modular standard cladding panels locating "H" section middle joints (Ref. 30).

When ordering side frame claddings, the respective frames should be built with diagonal spacer bars only; i.e. the horizontal spacer bars have to be replaced with diagonals.

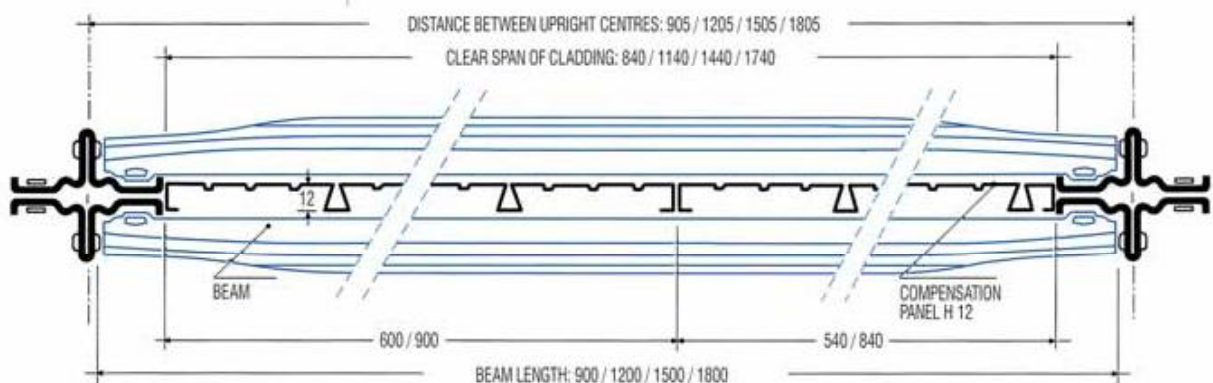
The sketches shown below and beside explain the design and assembly of the various cladding components.



BACK PANEL H 25



BACK PANEL H 12 FOR BACK-TO-BACK BAYS

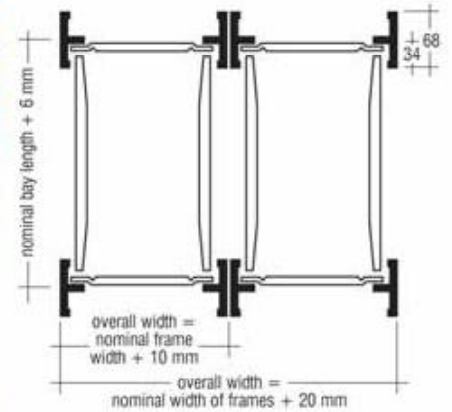


SUPER 3

Two-tier-structures with suspended walkways

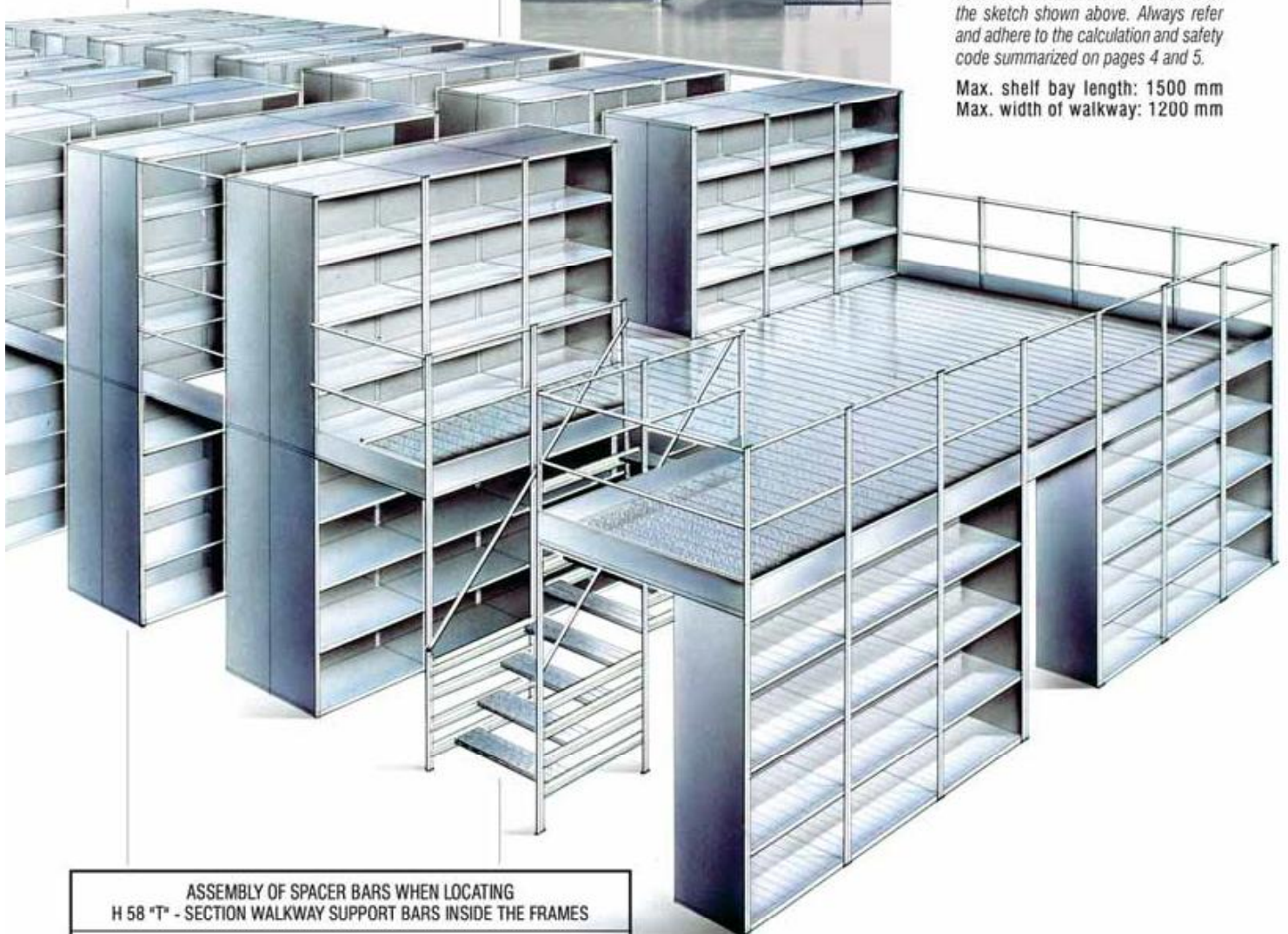
(max. load bearing capacity = 300 daN/m²)

Two tier structures, even varied and complex have been designed by METAL-SISTEM combining light weight with high strength in the METALSISTEM tradition, avoiding any type of bolting or welding.



When designing two tier structures, consider the dimensions and details of the sketch shown above. Always refer and adhere to the calculation and safety code summarized on pages 4 and 5.

Max. shelf bay length: 1500 mm
Max. width of walkway: 1200 mm



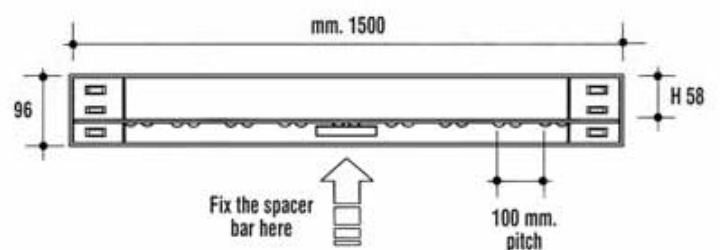
ASSEMBLY OF SPACER BARS WHEN LOCATING H 58 "T" - SECTION WALKWAY SUPPORT BARS INSIDE THE FRAMES

L 900 : NO SPACER BAR

L 1200 : ONE SPACER BAR AT THE CENTRE

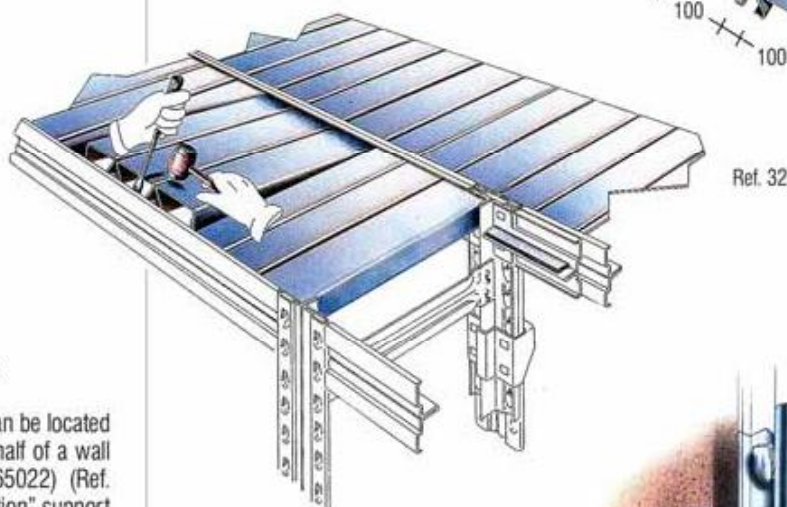
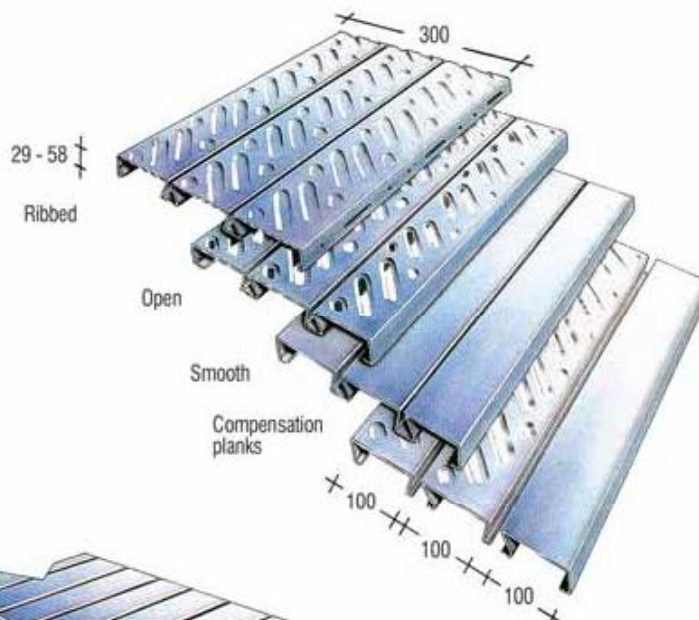
L 1500 : ONE SPACER BAR AT THE CENTRE

- NOTE:**
- The spacer bars connecting the "T"-walkway support bars must be ordered in a special length (10 mm narrower than those used to assemble the standard frame).
 - When building staircases, customers should fit one spacer bar under each stair tread.
 - The load bearing capacity of the H58-T-section walkway support bars are stated on page 50.



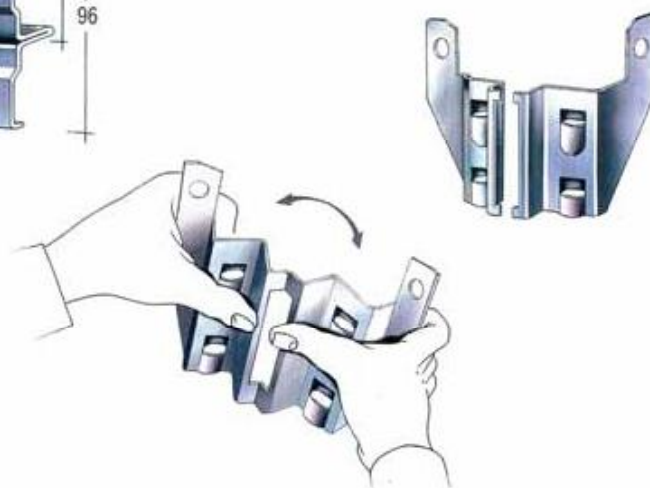
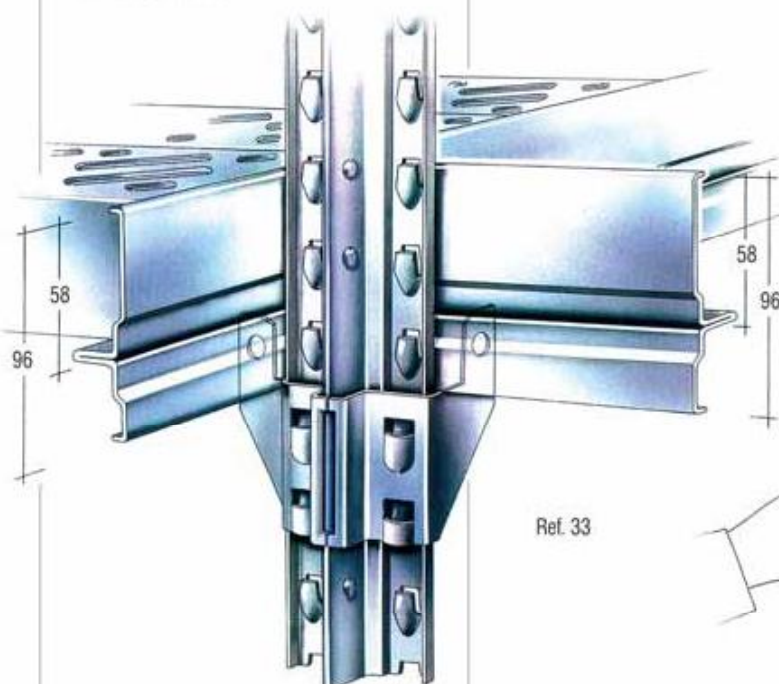
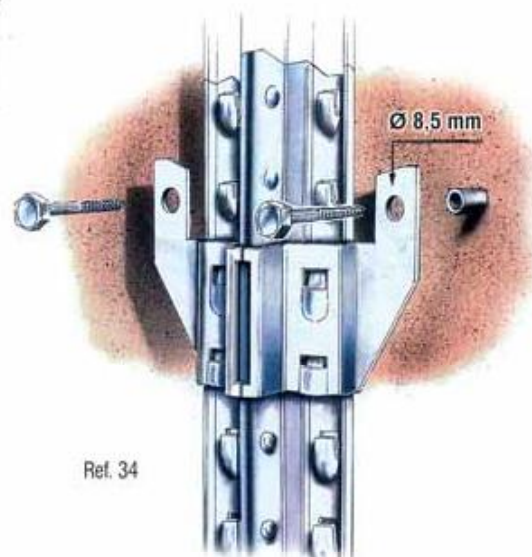
Steel planks

These can be supplied with three different surfaces: ribbed, open and smooth, together with compensation panels and fastening components. The steel planks are inserted into the "T" section supports by levering between the panel and the support (Ref.32). There are two types of steel planks: one for walk-through bays and one for walkways. When ordering, always refer to the length of the respective spacer bar used for building the walkway or the frames (see page 48).

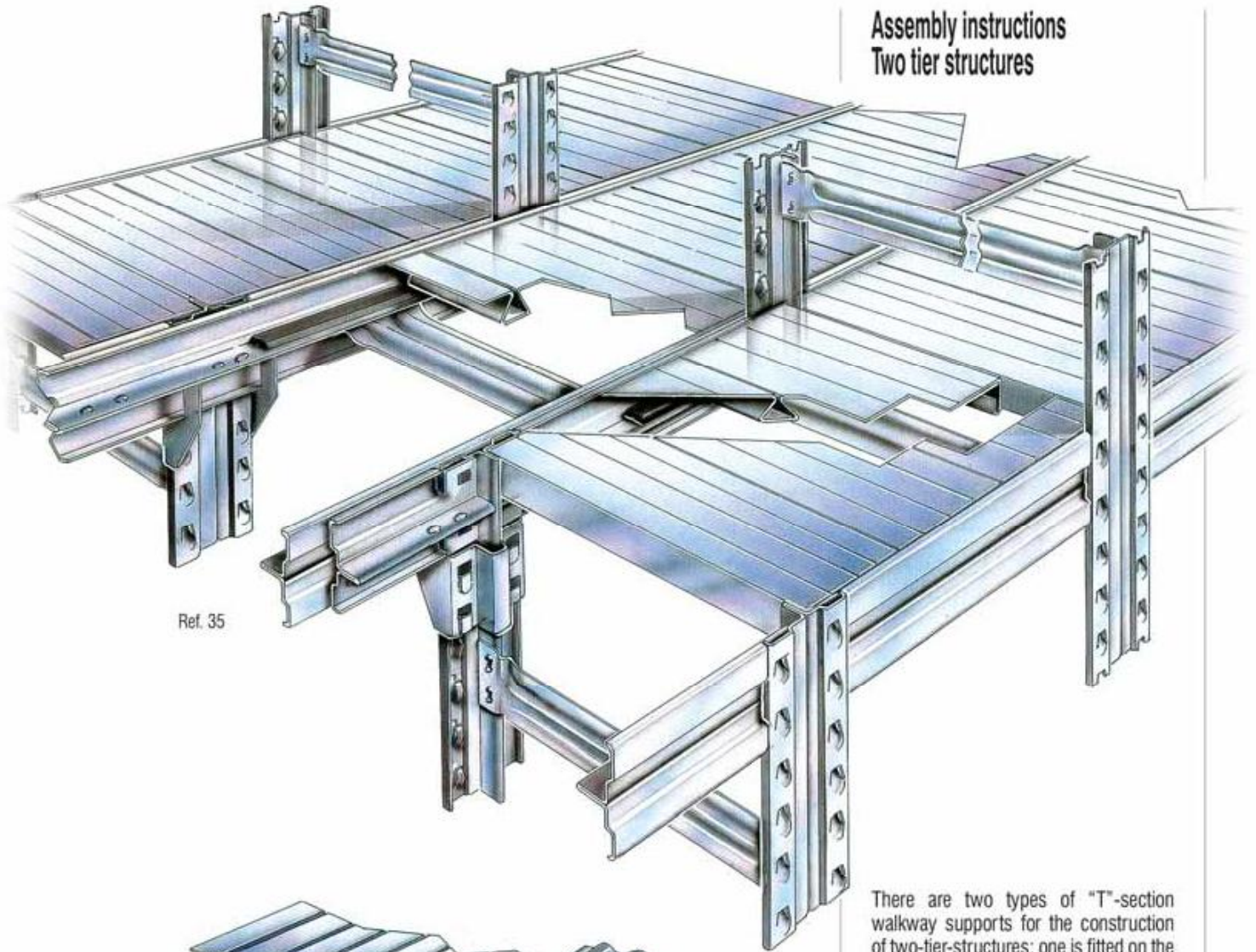


"T-Section" Support Bracket - at 90°

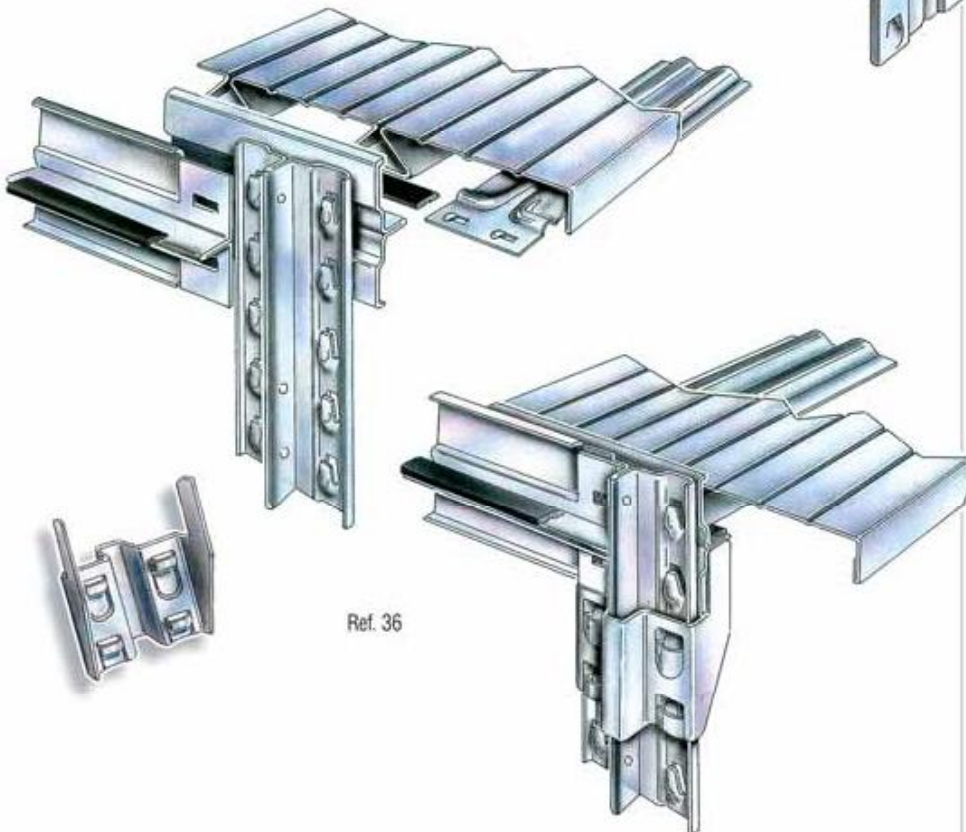
"T-Section" support bars can be located at 90° by assembling one half of a wall fastening bracket (art.nr. 65022) (Ref. 34) and one half of a "T-section" support bracket (art.nr. 67022) (Ref. 33). Wall fastening brackets are also available, similar to the above, providing a method to fix the frames to a wall for stability (Ref. 34).



Assembly instructions Two tier structures



Ref. 35



Ref. 36

There are two types of "T"-section walkway supports for the construction of two-tier-structures: one is fitted on the outside of the upright by means of support brackets to support walkways between shelf runs, and the other is fitted inside and onto the upright to support walk-through bays, providing continuity of the steel walkway decking (Ref. 38).

The ribs on the "T"-section walkway support beams H58 allow these beams to be connected between them by means of spacer bars being 10 mm narrower than those used to assemble the respective frame (Ref. 35). To reduce noise, a PVC strip is fitted between the steel planks and the "T"-section support bars (Ref. 37). To achieve a correct assembly of the "T"-section support beams within walkways (Art. 67015) these spacer bars must be located under the walkway support beams, at centre distances of 800 mm approximately (Ref. 35/36).

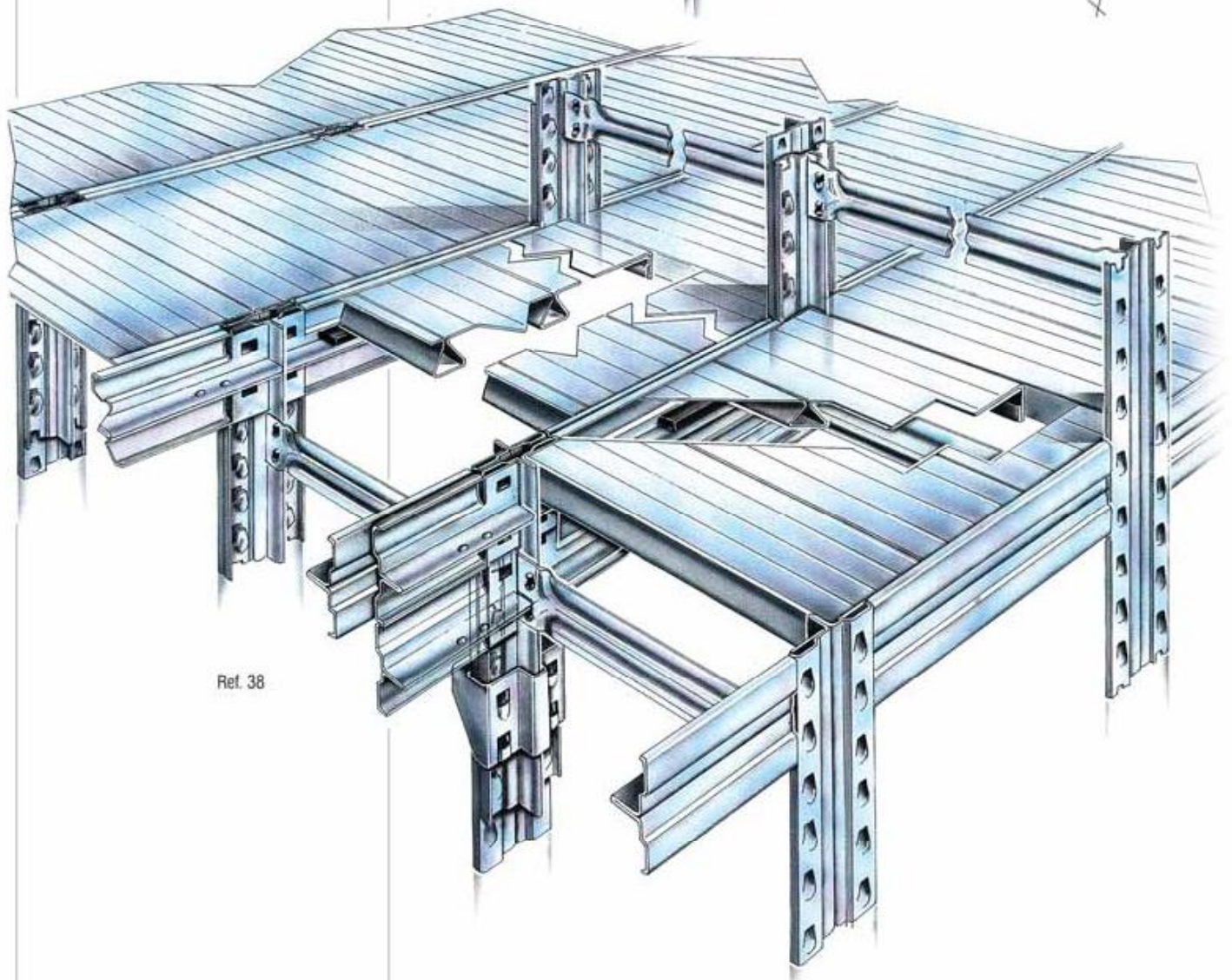
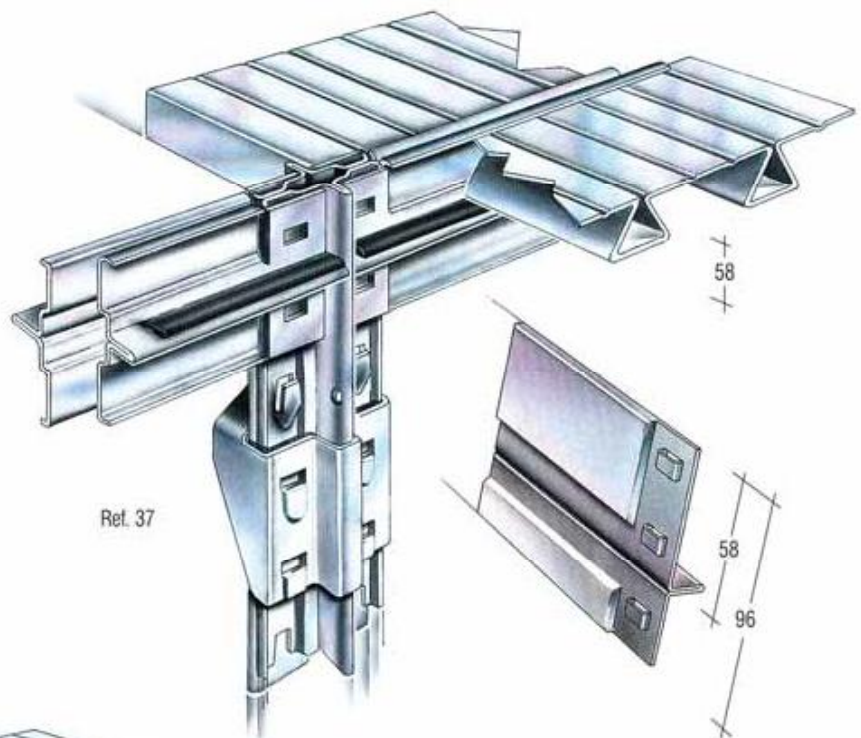
In order to avoid sharp edges, the "T"-section supports should be assembled with an overhang of about 2 cm and finished off with plastic top caps (Ref. 42).

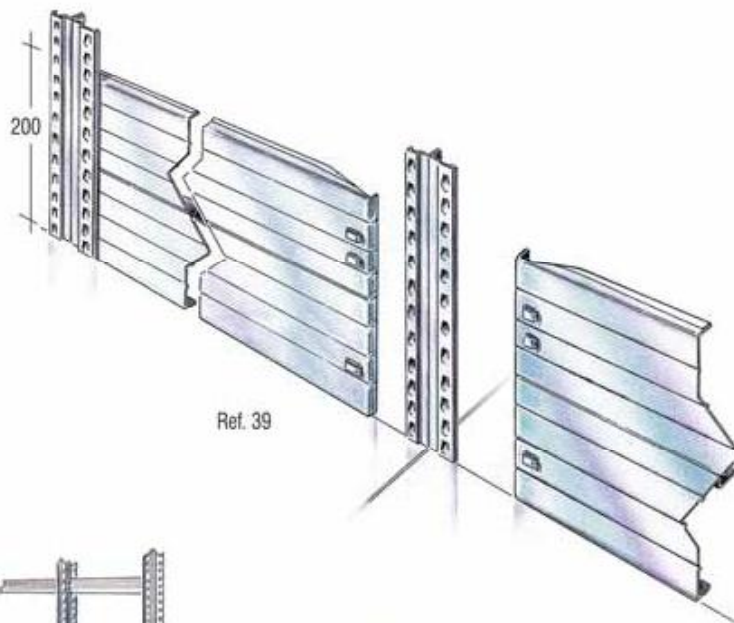
For fixing back-to-back frames together, use the two-tier support bracket, bending the tongues behind the second upright, as shown on Ref. 37.

When designing two-tier structures, remember that the overall width of every frame and every walkway will be about 10 mm more than the length of the spacer bar used. Also, when calculating the total length of runs, allow for approximately 6 mm of "creep" per bay (see page 26).

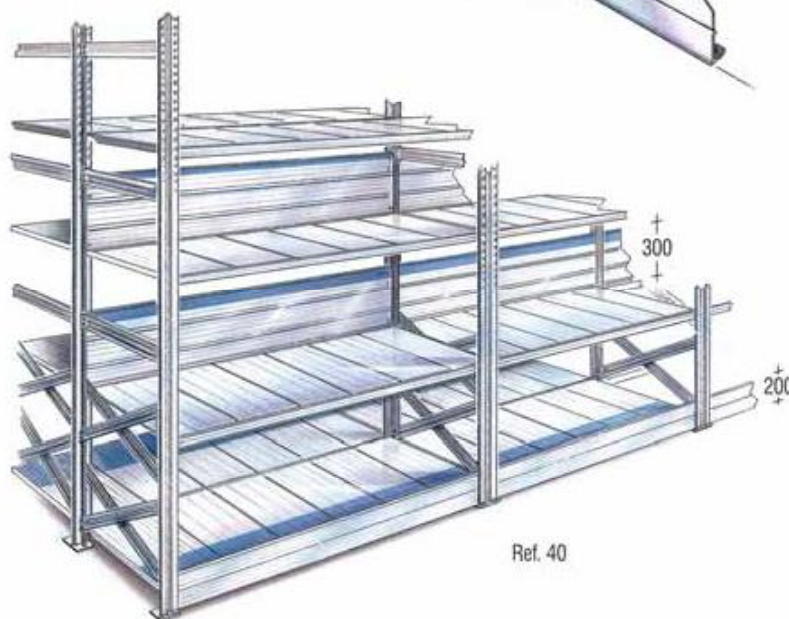
When using any other type of flooring, it is important to note that the floor panel itself will be 4 mm narrower than the spacer bars used to assemble the walkways and respectively 12 mm narrower than the spacer bars used to assemble walk-through-bays.

In all cases, only SUPER 3 components should be used when designing two-tier-structures.

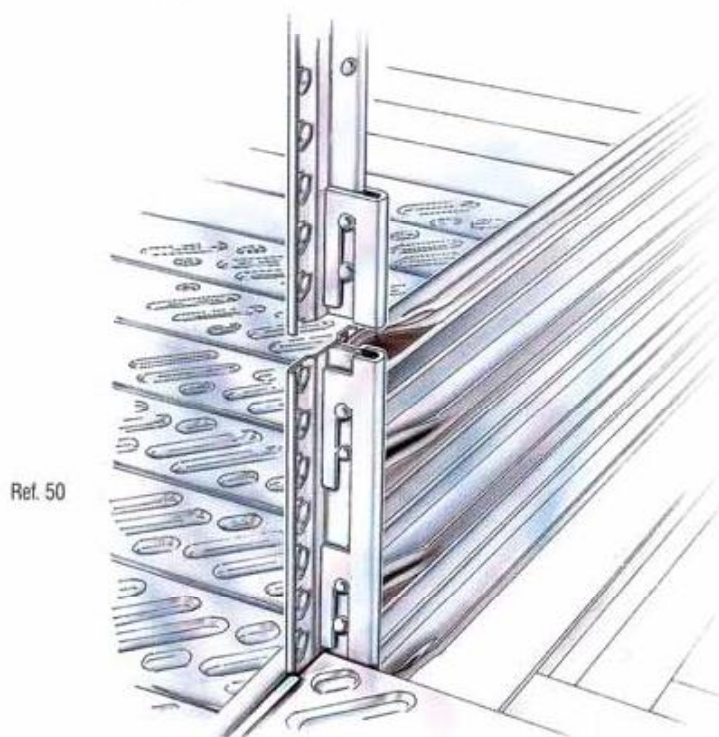




Ref. 39



Ref. 40



Ref. 50

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 off 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 (article n° 64016-64040).

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).



Hand rails

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

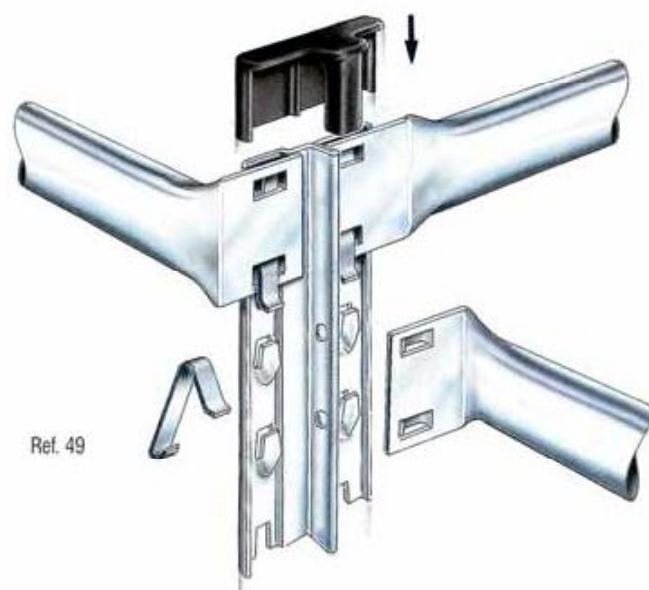
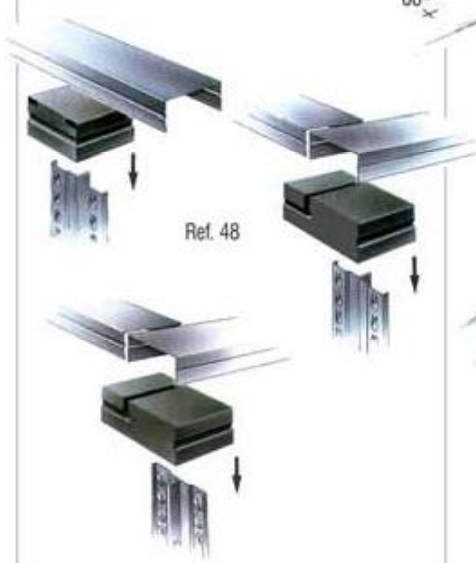
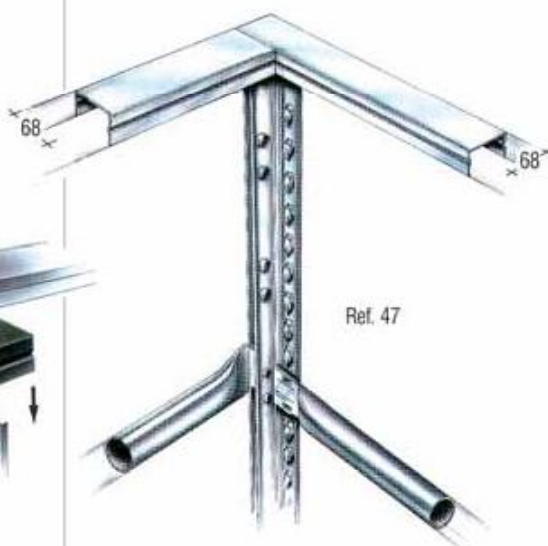
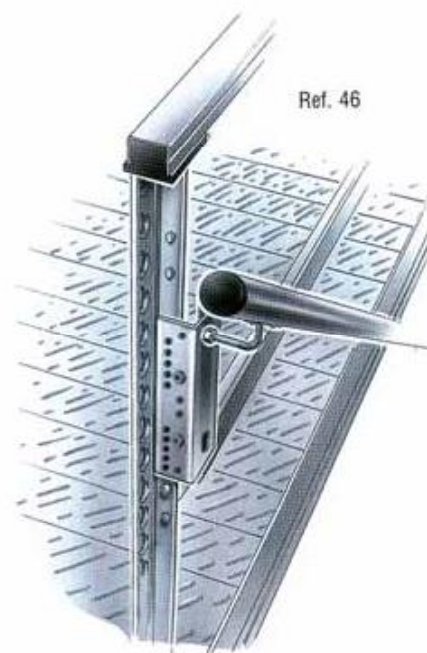
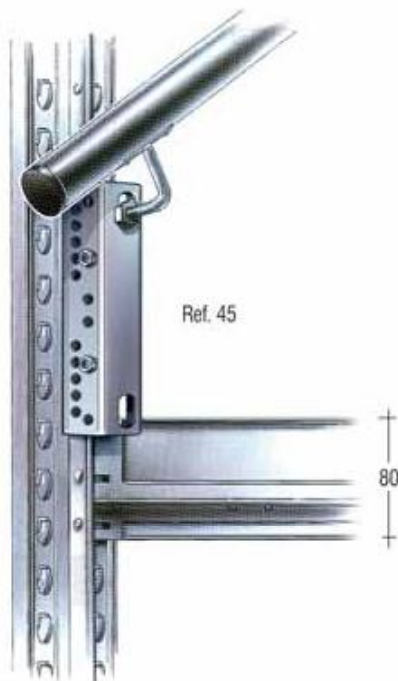
The use of beam retaining clips and upright tops caps is mandatory.

Handrails on two-tier structures can also be built with "U"-section profiles assembled in conjunction with special P.V.C. supports.

These supports can also be used to finish off the handrails at their ends (Ref. 47-48).

Staircase handrails

Thanks to the handrail support bracket (Ref. 45), the staircase handrail can be easily located on the uprights, without any need to drill holes.

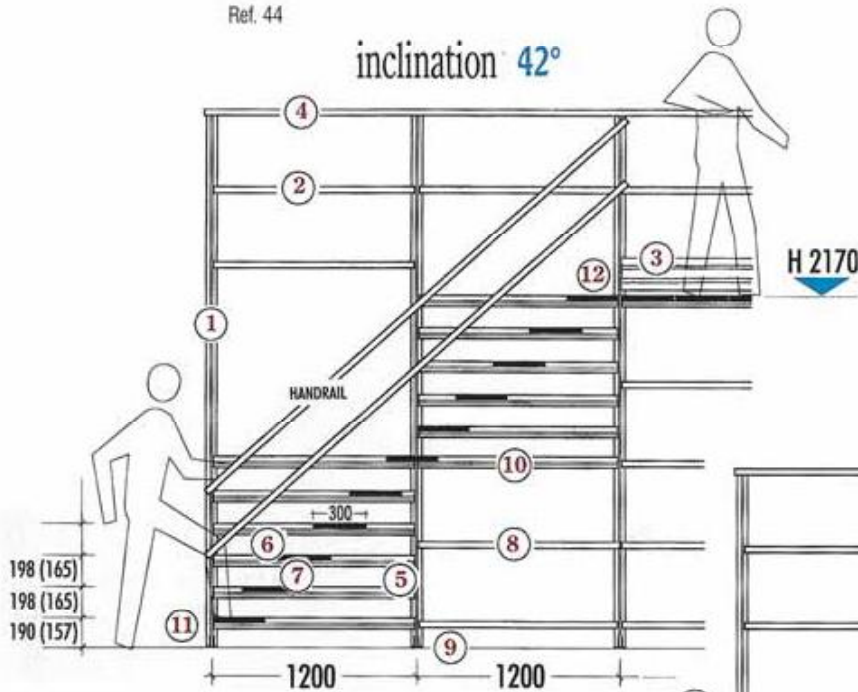


STAIRCASES

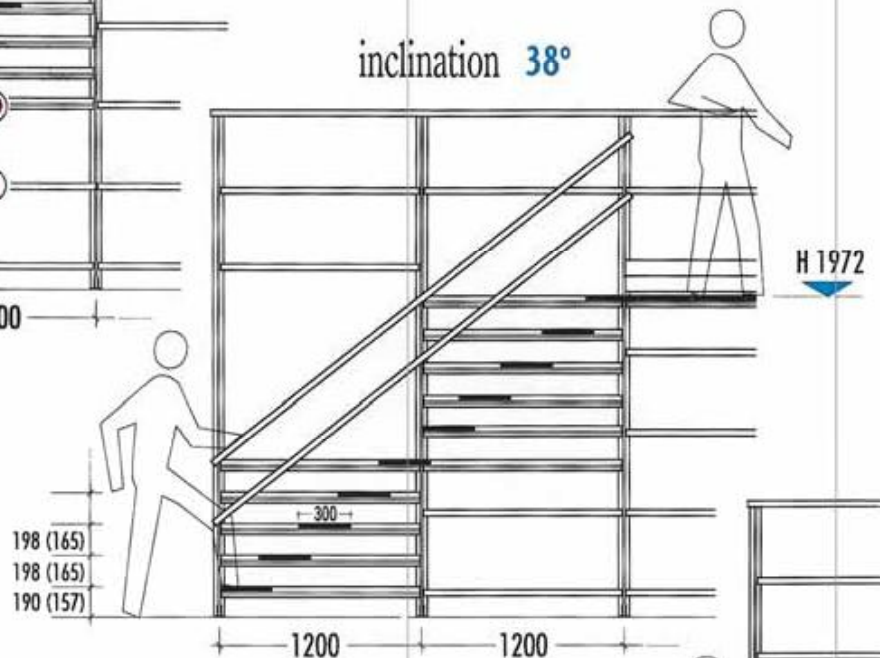
These can be built using standard components. The length of the stair treads is specified as a steel plank with a dimension between uprights. The stair treads will be fixed with two special clips (Art. n° 69829). To improve the stability and load bearing capacity of the staircase, the "T" section beams H58 should be assembled by fitting one spacer bar under each stair tread. These spacer bars will be 10 mm narrower than those used to assemble normal standard frames.


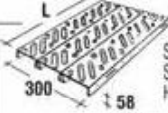










Ref. 44

inclination 42°

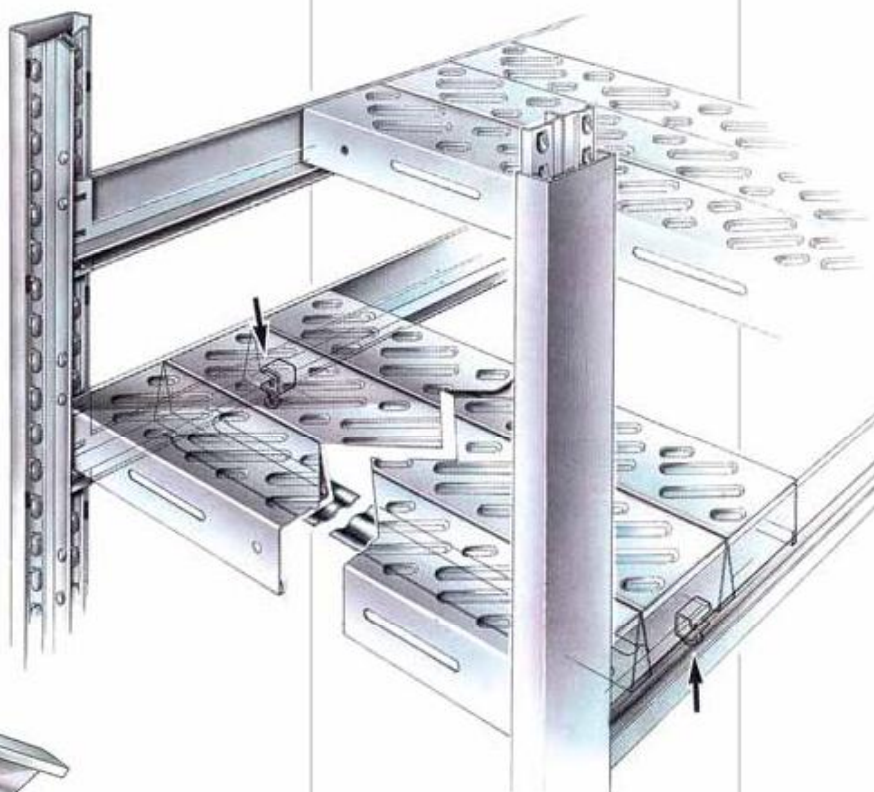
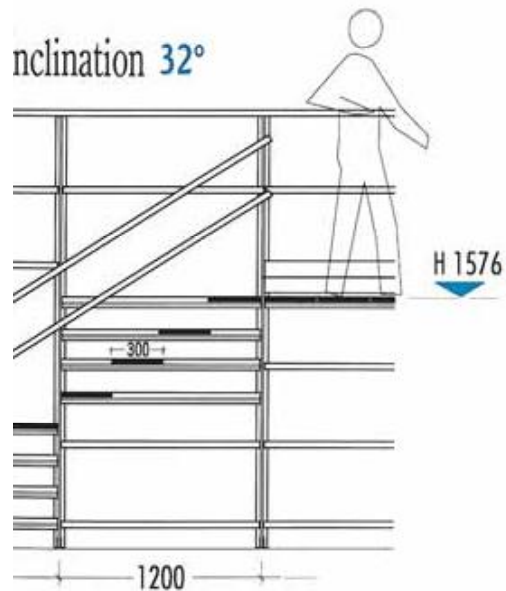


inclination 38°



1		REINFORCED UPRIGHT	7		STAIR TREAD / STEEL PLANK H58 - 15/10
2		TUBULAR BEAM	8		BEAM H 47
3		SHELF BOARD	9		HEAVY DUTY METAL BASE PLATE
4		"U" SECTION HANDRAIL	10		T-SECTION-WALKWAY SUPPORT BAR
5		BRACKET/CLIP	11		LOCKING FRAME SPACER BAR
6		SPACER BAR TO BE LOCATED UNDER EACH STAIR TREAD	12		REINFORCING BRACKET FOR UPRIGHTS

The reinforced upright version (Art.nr. 99230 = SUPER-3 upright, welded with a "U"-profile on its front face) must be used either side of the staircase, i.e. for uprights that are not supported by frame bracing.



It is recommended to continue with the regular frame bracing pattern within these frames, as soon as possible.



Mobile Shelving

Thanks to its attractive high-tech design, SUPER 1-2-3 is also a highly suitable and cost effective mobile shelving solution, that can be applied to all environments.



Mobile Ladders

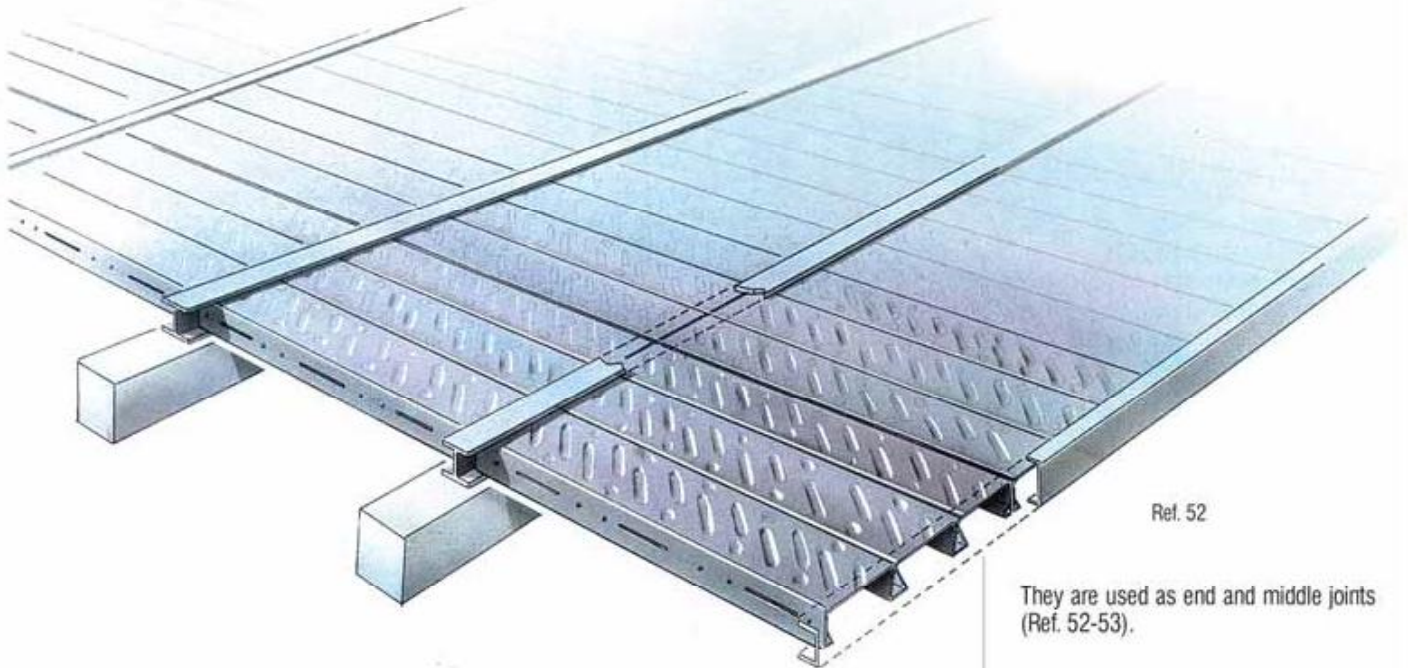
Mobile Ladders are available in 2.5 and 3 meter height and can be supplied with guide rails and curves to adapt them to any environment (Ref. 56).



Ref. 56

Steel planking

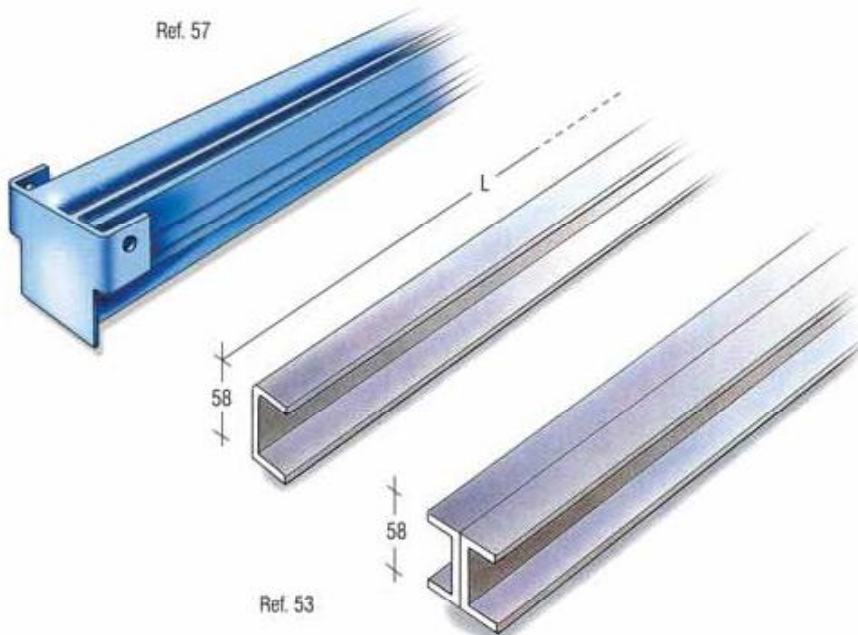
"T"-sections can be used as support beams for the steel planking (Ref.55). Floors of any dimension can be built in conjunction with "H" joints and "U" section channels.



Ref. 52

They are used as end and middle joints (Ref. 52-53).

The 70-mm-section walkway beam (art. 99253B) 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).



Ref. 57

58

Ref. 53

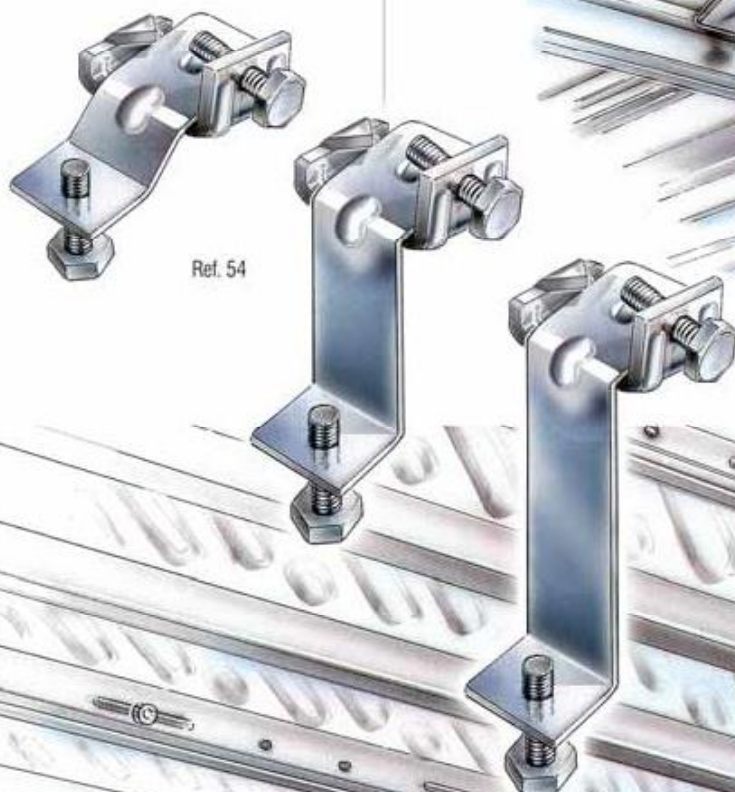
58



The "T"-section supports are fitted back-to-back. One is fitted on the outside of the upright by means of support brackets, and the other is fitted inside and onto the upright.

The steel planks are laid over the top and are fixed down by means of the special clamp (Ref.54).

When joining the planks in a transverse direction the 6x20 mm bolt should be used in the appropriate holes.

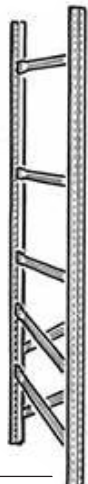


SUPER 1

PATENTED BOLTFREE SHELVING SYSTEM

FRAMES COMPLETE WITH UPRIGHTS, HORIZONTAL AND DIAGONAL BRACING LOAD BEARING CAPACITY Kg. 1500 EACH

Regarding technical data, standard specifications and assembly diagram, please refer to pages 4/5 of the SUPER brochure.



Ref. 2

component	height mm	depth mm	horizontal and diagonal spacer bars
70001	1972	320	5
70004	2500	320	6
70007	3028	320	8
70010	1972	400	5
70013	2500	400	6
70016	3028	400	8
70019	1972	500	5
70022	2500	500	6
70025	3028	500	8
70028	1972	600	5
70031	2500	600	6
70034	3028	600	8
70037	1972	700	5
70040	2500	700	6
70043	3028	700	8
70046	1972	800	5
70049	2500	800	6
70052	3028	800	8

UPRIGHT S1



Ref. 2

component	height mm
10001	1972
10004	2500
10007	3028

BEAM S-0



Ref. 3

component	length mm	Load <daN> per pair uniformly distrib.load
30001L	900	200
30003L	1050	170
30004L	1200	150

The load bearing capacity of the beams is to be understood as referring to uniformly distributed loads, per pair of beams. The load bearing indication is valid and applicable for a use of the beams with modular shelves and/or modular containers only.

BEAM S1



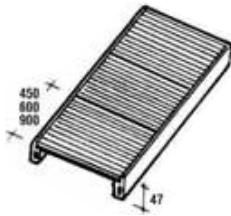
Ref. 3

component	length mm	Load <daN> per pair uniformly distrib.load
30001	900	280
30003	1050	235
30004	1200	205
30005	1350	180
30007	1500	145
30008	1650	120

The load bearing capacity of the beams is to be understood as referring to uniformly distributed loads, per pair of beams. The load bearing indication is valid and applicable for a use of the beams with modular shelves and/or modular containers only.

**COMPLETE SHELVES
WITH BEAMS S-O
AND PANELS H 12 mm**

Regarding technical data
and standard specifications,
please refer to pages 4/5.

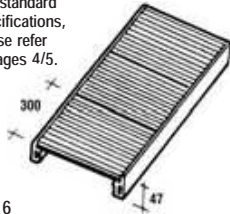


Ref. 5

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load	
80001	900	320	200	
80004	900	400	200	
80007	900	500	185	
80010	900	600	150	
80013	900	700	130	
80014	1050	320	170	
80015	1050	400	170	
80016	1050	500	170	
80017	1050	600	170	
80018	1050	700	155	
80019	1200	320	150	
80022	1200	400	150	
80025	1200	500	150	
80028	1200	600	150	
80031	1200	700	150	

**COMPLETE SHELVES
WITH BEAMS S-O
AND PANELS H 25/A**

Regarding technical data
and standard
specifications,
please refer
to pages 4/5.

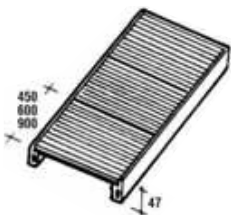


Ref. 6

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load	
80004A	900	400	200	
80007A	900	500	200	
80010A	900	600	200	
80013A	900	700	200	
80022A	1200	400	150	
80025A	1200	500	150	
80028A	1200	600	150	
80031A	1200	700	150	

**COMPLETE SHELVES
WITH BEAMS S1
AND PANELS H 12 MM**

Regarding technical data
and standard specifications,
please refer to pages 4/5 .

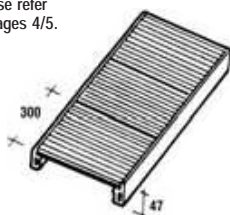


Ref. 5

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load	
80501	900	320	280	
80504	900	400	235	
80507	900	500	185	
80510	900	600	150	
80513	900	700	130	
80519	1200	320	205	
80522	1200	400	205	
80525	1200	500	205	
80528	1200	600	205	
80531	1200	700	180	
80537	1500	320	145	
80540	1500	400	145	
80543	1500	500	145	
80546	1500	600	145	
80549	1500	700	145	

**COMPLETE SHELVES
WITH BEAMS S1
AND PANELS H 25/A**

Regarding technical data
and standard
specifications,
please refer
to pages 4/5.

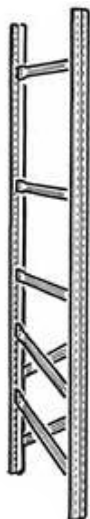


Ref. 6

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load	component	length mm	depth mm	Load capacity <daN> uniformly distrib.load
80504A	900	400	280	80540A	1500	400	145
80507A	900	500	280	80543A	1500	500	145
80510A	900	600	280	80546A	1500	600	145
80513A	900	700	280	80549A	1500	700	145
80516A	900	800	230	80552A	1500	800	130
80522A	1200	400	205				
80525A	1200	500	205				
80528A	1200	600	205				
80531A	1200	700	205				
80534A	1200	800	180				

**FRAMES COMPLETE
WITH UPRIGHTS,
HORIZONTAL AND DIAGONAL
BRACING
LOAD BEARING CAPACITY
Kg. 2000 EACH**

Regarding technical data, standard specifications and assembly diagram, please refer to pages 4/5 of the SUPER brochure.



Ref. 2

component	height mm	depth mm	horizontal and diagonal spacer bars
71001	1972	320	5
71004	2500	320	6
71007	3028	320	8
71010	3424	320	10
71016	1972	400	5
71019	2500	400	6
71022	3028	400	8
71025	3424	400	10
71031	1972	500	5
71034	2500	500	6
71037	3028	500	8
71040	3424	500	10
71046	1972	600	5
71049	2500	600	6
71052	3028	600	8
71055	3424	600	10
71061	1972	700	5
71064	2500	700	6
71067	3028	700	8
71070	3424	700	10
71076	1972	800	5
71079	2500	800	6
71082	3028	800	8
71085	3424	800	10

**UPRIGHT
S2**



Ref. 2

component	height mm
11001	1972
11004	2500
11007	3028
11010	3424

BEAM S2



Ref. 3

component	length mm	Load <daN> per pair uniformly distrib. load
31501	900	390
31503	1050	335
31504	1200	275
31505	1350	220
31507	1500	175
31508	1650	145

The load bearing capacity of the beams is to be understood as referring to uniformly distributed loads, per pair of beams. The load bearing indication is valid and applicable for a use of the beams with modular shelves and/or modular containers only.

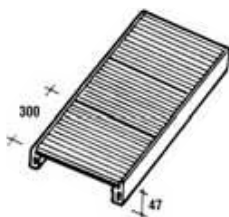
Regarding technical data and standard specifications, please refer to pages 4/5 of the SUPER brochure.



Ref. 5

[illegible]

Regarding technical data
and standard specifications,
please refer to pages 4/5.



Ref. 6

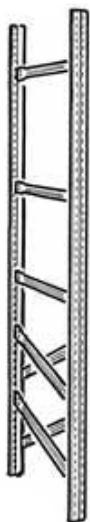
[illegible]

SUPER 3

PATENTED BOLTFREE SHELVING SYSTEM

FRAMES COMPLETE WITH UPRIGHTS, HORIZONTAL AND DIAGONAL BRACING LOAD BEARING CAPACITY Kg. 3600 EACH

Regarding technical data, standard specifications and assembly diagram, please refer to pages 4/5 of the SUPER brochure.



Ref. 2

component	height mm	depth mm	horizontal and diagonal spacer bars	component	height mm	depth mm	horizontal and diagonal spacer bars
72001	1972	320	5	72085	1972	700	5
72004	2500	320	6	72088	2500	700	6
72007	3028	320	8	72091	3028	700	8
72010	3424	320	10	72094	3424	700	10
72013	3952	320	11	72097	3952	700	11
72016	4480	320	13	72100	4480	700	13
72019	5008	320	15	72103	5008	700	15
72022	1972	400	5	72106	1972	800	5
72025	2500	400	6	72109	2500	800	6
72028	3028	400	8	72112	3028	800	8
72031	3424	400	10	72115	3424	800	10
72034	3952	400	11	72118	3952	800	11
72037	4480	400	13	72121	4480	800	13
72040	5008	400	15	72124	5008	800	15
72043	1972	500	5				
72046	2500	500	6				
72049	3028	500	8				
72052	3424	500	10				
72055	3952	500	11				
72058	4480	500	13				
72061	5008	500	15				
72064	1972	600	5				
72067	2500	600	6				
72070	3028	600	8				
72073	3424	600	10				
72076	3952	600	11				
72079	4480	600	13				
72082	5008	600	15				

UPRIGHT S3



Ref. 2

component	height mm	
12001	1972	
12004	2500	
12007	3028	
12010	3424	
12013	3952	
12016	4480	
12019	5008	

BEAM S3



Ref. 3

component	length mm	load capacity kg per pair, u.d.l.
32501	900	450
32503	1050	385
32504	1200	320
32505	1350	255
32507	1500	205
32508	1650	170
32510	1800	140

The load bearing capacity of the beams is to be understood as referring to uniformly distributed loads, per pair of beams. The load bearing indication is valid and applicable for a use of the beams with modular shelves and/or modular containers only.

**COMPLETE SHELVES
WITH BEAMS S3
AND PANELS H 12**

Regarding technical data
and standard specifications,
please refer to pages 4/5.

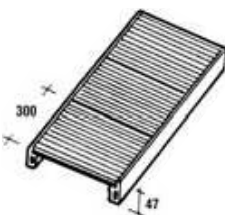


Ref. 5

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load
82001	900	320	305
82004	900	400	235
82007	900	500	185
82010	900	600	150
82013	900	700	130
82019	1200	320	320
82022	1200	400	320
82025	1200	500	260
82028	1200	600	210
82031	1200	700	180
82037	1500	320	205
82040	1500	400	205
82043	1500	500	205
82046	1500	600	205
82049	1500	700	205
82055	1800	320	140
82058	1800	400	140
82061	1800	500	140
82064	1800	600	140
82067	1800	700	140

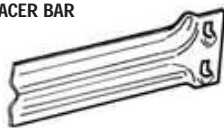
**COMPLETE SHELVES
WITH BEAMS S3
AND PANELS H 25/A**

Regarding technical data
and standard specifications,
please refer to pages 4/5.



Ref. 6

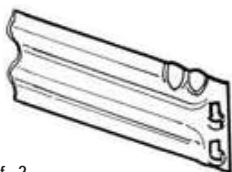
component	length mm	depth mm	Load capacity <daN> uniformly distrib.load
82504A	900	400	450
82507A	900	500	420
82510A	900	600	345
82513A	900	700	285
82516A	900	800	230
82522A	1200	400	320
82525A	1200	500	320
82528A	1200	600	320
82531A	1200	700	320
82534A	1200	800	290
82540A	1500	400	205
82543A	1500	500	205
82546A	1500	600	205
82549A	1500	700	205
82552A	1500	800	180
82564A	1800	400	140
82567A	1800	500	140
82570A	1800	600	140
82573A	1800	700	140

HORIZONTAL
SPACER BAR

Ref. 2

component	depth mm
41001	320
41004	400
41007	500
41010	600
41013	700
41016	800

DIAGONAL SPACER BAR



Ref. 2

component	depth mm
43001	320
43004	400
43007	500
43010	600
43013	700
43016	800

LOCKING FRAME
SPACER BAR

Ref. 1B

component	depth mm
67031	320
67032	400
67033	500
67034	600
67035	700
67036	800

BEAM S1G

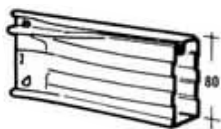


Ref. 6 bis

component	length mm	Load <daN> per pair uniformly distrib.load
32604	1500	350
32607	1800	310

The load bearing capacity of the beams is to be understood as referring to uniformly distributed loads, per pair of beams. The load bearing indication is valid and applicable for a use of the beams with modular shelves and/or modular containers only.

BEAM S2G

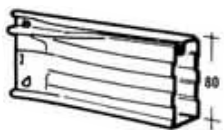


Ref. 6 bis

component	length mm	Load <daN> per pair uniformly distrib.load
34004	1500	520
34007	1800	430

The load bearing capacity of the beams is to be understood as referring to uniformly distributed loads, per pair of beams. The load bearing indication is valid and applicable for a use of the beams with modular shelves and/or modular containers only.

BEAM S3 G



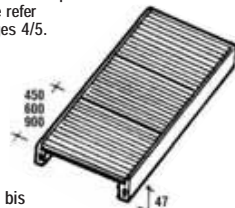
Ref. 6 bis

component	length mm	Load <daN> per pair uniformly distrib.load
35004	1500	640
35007	1800	530

The load bearing capacity of the beams is to be understood as referring to uniformly distributed loads, per pair of beams. The load bearing indication is valid and applicable for a use of the beams with modular shelves and/or modular containers only.

**COMPLETE SHELVES
WITH BEAMS S1G
AND PANELS H 12 mm**

Regarding technical data
and standard specifications,
please refer
to pages 4/5.

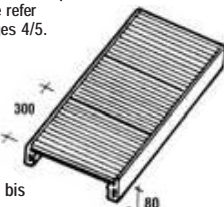


Ref. 6 bis

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load	
83116	1500	320	350	
83119	1500	400	350	
83122	1500	500	315	
83125	1500	600	260	
83128	1500	700	220	
83131	1800	320	310	
83134	1800	400	310	
83137	1800	500	310	
83140	1800	600	305	
83143	1800	700	260	

**COMPLETE SHELVES
WITH BEAMS S1G
AND PANELS H 25/A**

Regarding technical data
and standard specifications,
please refer
to pages 4/5.

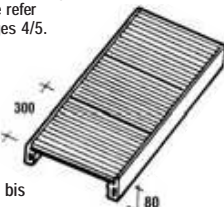


Ref. 6 bis

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load	
83340A	1500	400	350	
83343A	1500	500	350	
83346A	1500	600	350	
83349A	1500	700	350	
83352A	1500	800	350	
83364A	1800	400	310	
83367A	1800	500	310	
83370A	1800	600	310	
83373A	1800	700	310	

**COMPLETE SHELVES
WITH BEAMS S2G
AND PANELS H 25/A**

Regarding technical data
and standard specifications,
please refer
to pages 4/5.



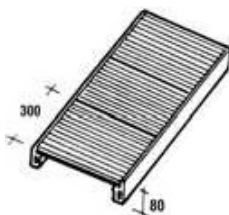
Ref. 6 bis

component	length mm	depth mm	Load capacity <daN> uniformly distrib.load	
83540A	1500	400	520	
83543A	1500	500	520	
83546A	1500	600	520	
83549A	1500	700	520	
83552A	1500	800	425	
83564A	1800	400	430	
83567A	1800	500	430	
83570A	1800	600	430	
83573A	1800	700	430	

**COMPLETE SHELVES
WITH BEAMS S3G
AND PANELS H 25/A**

Regarding technical data and standard
specifications,
please refer to pages 4/5.

Ref. 6 bis



component	length mm	depth mm	Load capacity <daN> uniformly distrib.load
84540A	1500	400	640
84543A	1500	500	640
84546A	1500	600	640
84549A	1500	700	475
84552A	1500	800	425
84564A	1800	400	530
84567A	1800	500	530
84570A	1800	600	530
84573A	1800	700	530

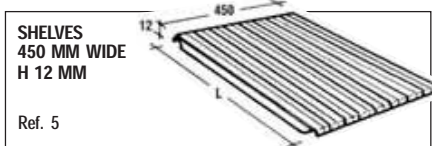
**COMPLETE SHELVES
WITH BEAMS S3G
AND PANELS H 25/B**

Regarding technical data and
standard specifications,
please refer to pages 4/5.

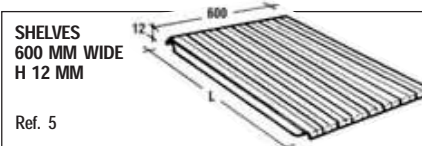
Ref. 6 bis



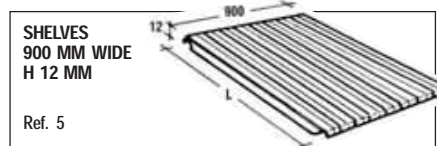
component	length mm	depth mm	Load capacity <daN> uniformly distrib.load
84540B	1500	400	640
84543B	1500	500	640
84546B	1500	600	640
84549B	1500	700	550
84552B	1500	800	475
84564B	1800	400	530
84567B	1800	500	530
84570B	1800	600	530
84573B	1800	700	530



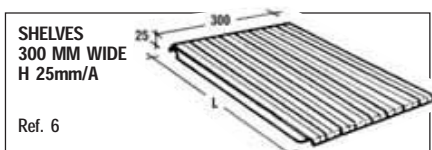
component	depth mm
51701	320
51704	400
51707	500
51710	600
51713	700



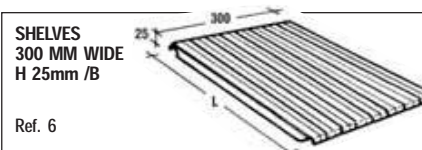
component	depth mm
51101	320
51104	400
51107	500
51110	600
51113	700



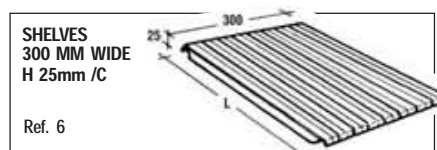
component	depth mm
51601	320
51604	400
51607	500
51610	600
51613	700



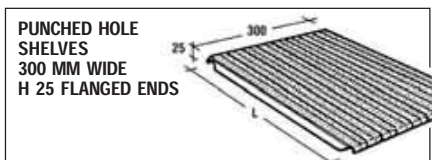
component	depth mm
52301	400
52304	500
52307	600
52310	700
52313	800



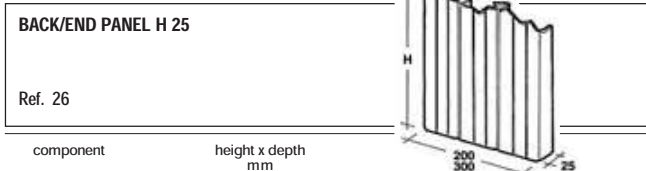
component	depth mm
52401	400
52404	500
52407	600
52410	700
52413	800



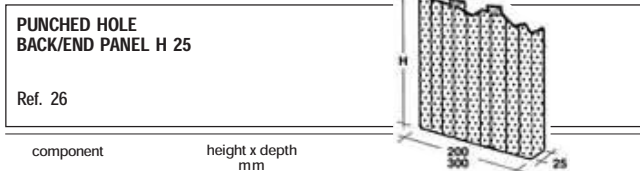
component	depth mm
52501	400
52504	500
52507	600
52510	700
52513	800



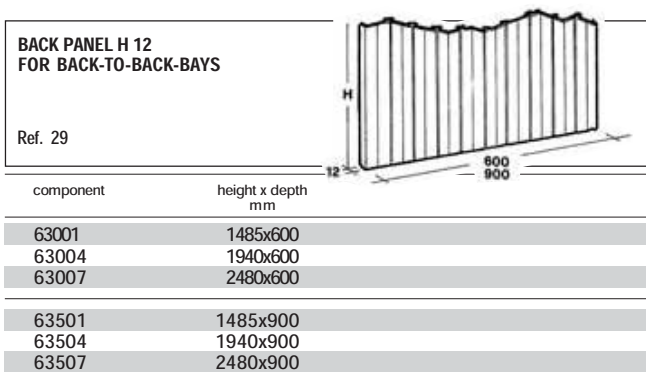
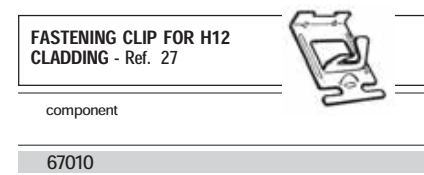
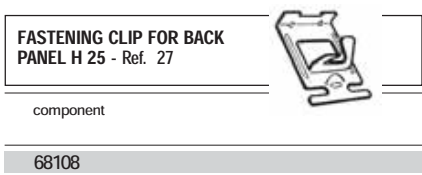
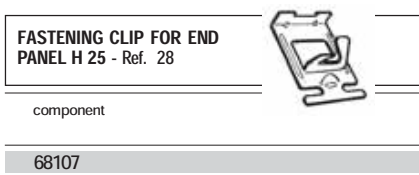
component	depth mm	thickness
69220	300	6/10



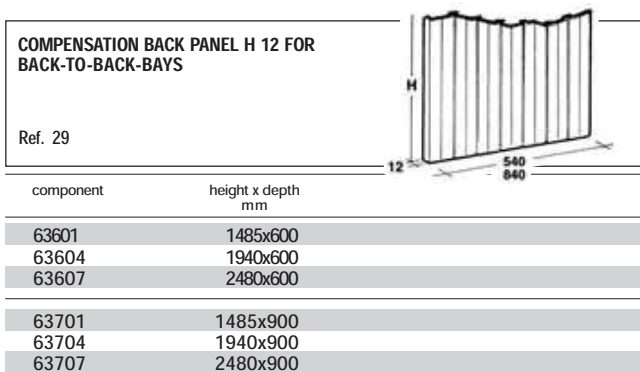
component	height x depth mm
62001	1485x200
62004	1940x200
62007	2480x200
62501	1485x300
62504	1940x300
62507	2480x300



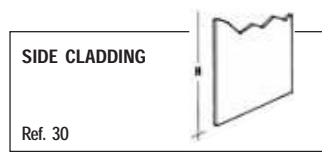
component	height x depth mm
62701	1485x200
62704	1940x200
62707	2480x200
62901	1485x300
62904	1940x300
62907	2480x300



component	height x depth mm
63001	1485x600
63004	1940x600
63007	2480x600
63501	1485x900
63504	1940x900
63507	2480x900



component	height x depth mm
63601	1485x600
63604	1940x600
63607	2480x600
63701	1485x900
63704	1940x900
63707	2480x900



Ref. 30

component	height x depth mm
67501	1485 x 320
67504	1940 x 320
67507	2480 x 320
67510	1485 x 400
67513	1940 x 400
67516	2480 x 400
67519	1485 x 500
67522	1940 x 500
67525	2480 x 500
67528	1485 x 600
67531	1940 x 600
67534	2480 x 600
67537	1485 x 700
67540	1940 x 700
67543	2480 x 700
67546	1485 x 800
67549	1940 x 800
67552	2480 x 800

NUT AND BOLT



component	length
69825	6 x 20

SELFDRILLING
SCREW



component
69834

FLOOR FIXING
DOWEL



component	length
08005	8 x 50

LOCKABLE DOOR,
GREY



component	length x height mm
68201	900x2000H
68204	1200x2000H
68207	1500x2000H

68210	900x2500H
68213	1200x2500H
68216	1500x2500H

MOBILE LADDER
& GUIDE RAIL

Ref. 56 Page 35

component	height mm
2500H	
3000H	
Guide rail	
L = 4000	
CURVE	

U-SHAPE PROFILE



Ref. 31

component	length mm
for H25	69800
for H29	69801
for H58	69807
for H68	69808

H-SHAPE PROFILE

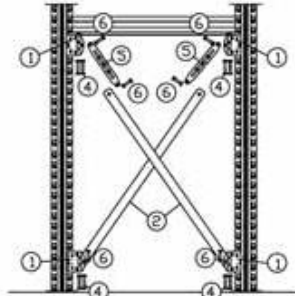
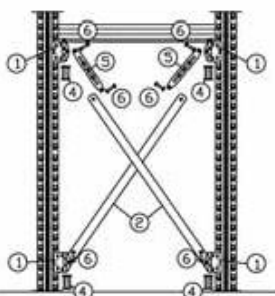
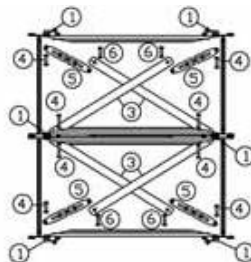
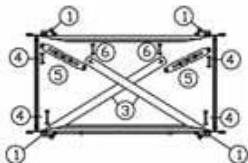


Ref. 31

component	length mm
for H25	69803
for H29	69804
for H58	69810

CROSS BRACING SUPER 1/2/3 SHELVING

Regarding design, calculation, assembly instructions and ordering, please refer to the technical manual "ISQ03_04/C-012 - CROSS BRACINGS FOR LIGHT DUTY SHELVING"



CROSS BRACING SUPER 1/2/3 SERIES

Cross bracings (horizontal and vertical ones) have to be used in SUPER 1/2/3 shelving structures with frame heights exceeding 3000 mm. The sketches shown above explain the make up and assembly of the cross bracing concept referring to a 3000 mm high frame within a single and double sided shelving row.

MACROCODE 67023 for single sided shelving.

The macrocode 67023 comprises all components shown in the sketch, except items 2-3

item	Macrocode 67023 q.ty
68051	6
68053	8
00020	28
00027	16
00035	8
00036	4

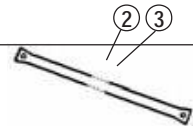
MACROCODE 67024 for double sided shelving.

The macrocode 67024 comprises all components shown in the sketch, except items 2-3

item	Macrocode 67024 q.ty
68051	8
68053	12
00020	40
00027	24
00035	10
00036	6

CROSS BRACING SUPER
1/2/3 SERIES

DIAGONAL
SPACER BARS
FOR CROSS BRACING



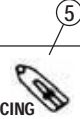
component
68049

CROSS BRACING
FASTENING
BRACKET



component
68051

TURNBUCKLE
(1/2 component)
FOR CROSS BRACING



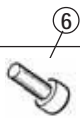
component
68053

SCREW
6x30 mm



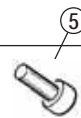
component
00027

SCREW
6x16 mm



component
00035

SCREW
6x70 mm



component
00036

NUT 6 mm



component
00020

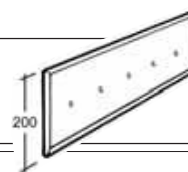
OVAL HANDRAIL TUBE



component

67401 for walkway end
67402 for inside end frame

KICK BOARD

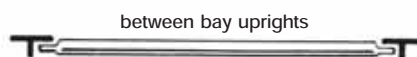
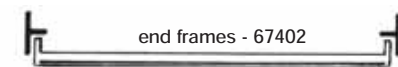
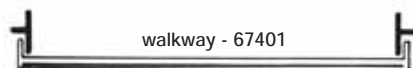


component

67405 for walkway end
67404 for inside end frame
67403 between bay uprights

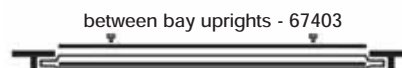
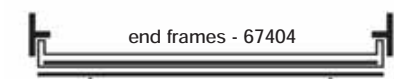
For walkway ends, order art. n° 67401, specifying the length of the spacer bars used to build the walkway.

In the case of end frames, order art. n° 67402, specifying the length of the spacer bar used to build the frame. For handrails between bay uprights order the oval tubular beam in material gauge 10/10 mm, article numbers 36501 - 36510 (see below).



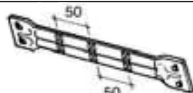
The kick boards are made from two oval tubular beams (the same used to create the handrails) fixed to the uprights and a sheet metal element fastened to the oval tubular beams with self tapping screws (art. n° VITAUFOR).

For walkway ends, order art. n° 67405, specifying the length of the spacer bars used to build the walkway. For end frames, order art. n° 67404, specifying the length of the spacer bars used to build the frames. As for longitudinal kick boards, order art. n° 67403, specifying the length of the oval tubular beam.



SPACER BAR FOR INSERT TUBES

Ref. 19



component	depth mm	Q.ty of notches to locate oval insert tubes
67821	320	3
67822	400	5
67823	500	7
67824	600	9
67825	700	11
67826	800	13

OVAL INSERT TUBES FOR SPACER BARS

Ref. 19

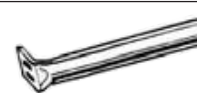


component	length mm
67421	900
67424	1200
67427	1500
67430	1800

Att.: regarding design and load bearing capacity please refer to "METALSISTEM INFORMA" n° 296.

ROW SPACER TIE BAR (clear span)

Ref. 49



component	depth mm
67400	clear span

OVAL SHAPED BEAMS

Ref. 20



component	Mat. Gauge mm	Load Cap. (kg) u.d.l. per beam	Length mm	component	Mat. Gauge mm	Load Cap. (kg) u.d.l. per beam
36501	10/10	175	900	36801	18/10	295
36504	10/10	120	1200	36804	18/10	200
36507	10/10	75	1500	36807	18/10	130
36510	10/10	52	1800	36810	18/10	90

Regarding design and load bearing capacity please refer to "METALSISTEM INFORMA" n° 292.

In the case that the oval shaped beams are used for tyre storage, please refer to "METALSISTEM INFORMA" n° 353 regarding correct design, application and load bearing capacities.

PLASTIC BASE PLATE

Ref. 1



component

67004

PLASTIC BASE PLATE / TOP CAP FOR DOUBLE UPRIGHTS

Ref. 1



component

67005

METAL BASE PLATE

Ref. 1

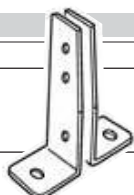


component

67001

SPECIAL METAL BASE PLATE

Ref. 1



component

67006

BEAM RETAINING CLIP

Ref. 22



component

67016

METAL BASE PLATE SHIMS

Ref. 1



component

67000

BEAM RETAINING CLIP FOR BACK-TO-BACK BAYS

Ref. 25



component

67017

PVC TOP CAP FOR SINGLE UPRIGHTS

Ref. 20



component

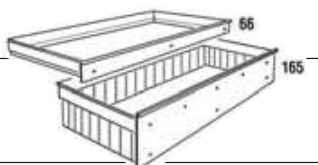
68055

SUPER 1-2-3

Accessories for series SUPER 1-2-3

DRAWER

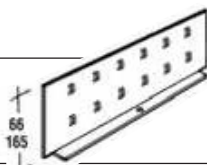
Page 11/19



component	length mm	height mm	depth mm
67830	900	66	400
67831	900	66	500
67832	900	66	600
67833	1200	66	400
67834	1200	66	500
67835	1200	66	600
67836	900	165	400
67837	900	165	500
67838	900	165	600
67839	1200	165	400
67840	1200	165	500
67841	1200	165	600

PERFORATED DRAWER WALL

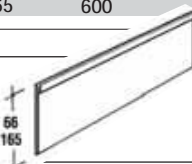
Page 18



component	height mm	depth mm
67842B	66	400
67843B	66	500
67844B	66	600
67842A	165	400
67843A	165	500
67844A	165	600

DIVIDER FOR DRAWER

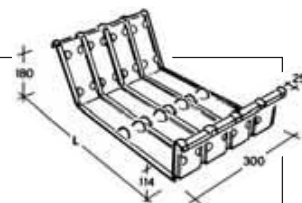
Page 18



component	height mm	length mm
67845B	66	50
67846B	66	100
67847B	66	150
67848B	66	200
67849B	66	300
67850B	66	400
67845A	165	50
67846A	165	100
67847A	165	150
67848A	165	200
67849A	165	300
67850A	165	400

MODULAR CONTAINERS

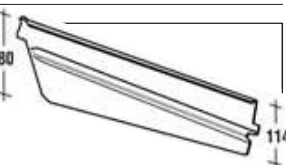
Ref. 9-10



component	depth mm	load capacity kg
61017	320	90
61018	400	90
61019	500	70
61020	600	65
61021	700	60
61022	800	60

DIVIDERS FOR MODULAR CONTAINERS

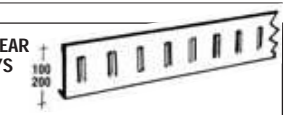
Ref. 9-10



component	depth mm
61517	320
61518	400
61519	500
61520	600
61521	700
61522	800

BIN FRONT OR REAR FOR SHELF TRAYS

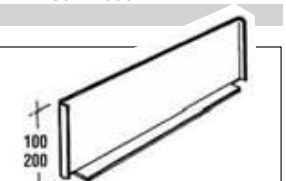
Ref. 13



component	height x length mm
64101	100 x 900
64104	100 x 1000
64107	100 x 1200
64110	100 x 1500
64113	200 x 900
64116	200 x 1000
64119	200 x 1200
64122	200 x 1500

DIVIDER H100/ H200 FOR SHELF TRAYS

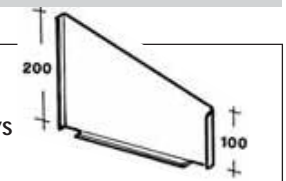
Ref. 13



component	depth mm	height mm	component	depth mm	height mm
67151	320	100	67152	320	200
67154	400	100	67153	400	200
67157	500	100	67155	500	200
67160	600	100	67156	600	200
67162	700	100	67158	700	200
67164	800	100	67159	800	200

PROFIED DIVIDERS H 200/100 FOR SHELF TRAYS

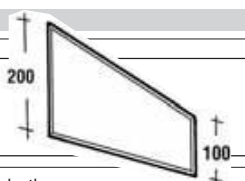
Ref. 14



component	depth mm	component	depth mm
67181	320	67190	600
67184	400	67192	700
67187	500	67194	800

TRAPEZ. SLIDING DIVIDER

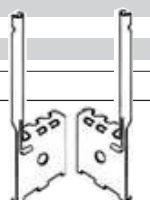
Ref.11



component	depth mm
67170	320
67172	400
67174	500
67176	600
67178	700
67180	800

CLIPS FOR SLIDING DIVIDERS

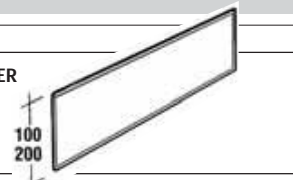
Ref.11



component
68112 at right
68113 at left

SLIDING DIVIDER H100/200 MM

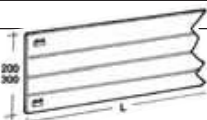
Ref.11



component	depth mm	height mm
67200	320	100
67204	400	100
67206	500	100
67208	600	100
67210	700	100
67212	800	100
67220	320	200
67222	400	200
67224	500	200
67226	600	200
67228	700	200
67230	800	200

SHELF BOARD

Ref. 40



component	height x length mm
64016	200 x 900
64019	200 x 1200
64022	200 x 1500
64025	200 x 1800
64031	300 x 900
64034	300 x 1200
64037	300 x 1500
64040	300 x 1800

DIVIDER FOR EXHAUST PIPES

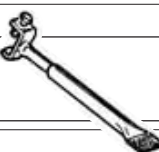
Ref. 18



component
67301 horizontal
67302 vertical

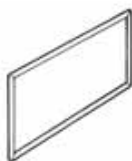
TELESCOPIC TUBE DIVIDERS inner and outer

Ref. 17



component	height mm
67290	280 inner
67293	280 outer
67296	560 inner
67299	560 outer

FIXED HEIGHT DIVIDERS



Ref. 16

component	depth mm	height mm
67720	320	244
67722	400	244
67724	500	244
67726	600	244
67728	700	244
67730	800	244

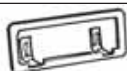
67740	320	344
67742	400	344
67744	500	344
67746	600	344
67748	700	344
67750	800	344

67760	320	444
67762	400	444
67764	500	444
67766	600	444
67768	700	444
67770	800	444

CLIPS FOR FIXED
HEIGHT DIVIDERS
Ref. 16

component

68110	double-sided
68111	single-sided

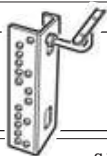
PLASTIC LABEL
HOLDER
Ref. 23

component

67008

HANDRAIL SUPPORT BRACKET
FOR STAIRCASES

Ref. 45-46



q.ty

macrocode	65000	1
composed of:		
handrail support	65002	1
runner support	65004	1
m 10 nut	00059	2
3,5x13mm self tapping screw	00017	2
M6x20 hex bolt 8,8 DIN933 Zp	00005	2
M6 nut DIN934 Zp	00020	2
handrail bracket angle	65003	2

PVC PLUG
FOR HANDRAIL
Ref. 45

component

65016

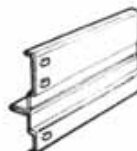
T-SECTION
SUPPORT BRACKET
Ref. 36FRAME BACK-TO-BACK
CLAMPS
Ref. 24

component

67022

WALKWAY SUPPORT
T-SECTION BEAM - H58
(inner frame)

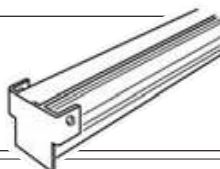
Ref. 36-37



component	length mm	load capacity kg - per pair unif. distr. load
67320	900	1000
67322	1200	750
67324	1500	600

WALKWAY BEAM

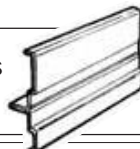
Ref. 57

component length
mm

99253B for correct use, assembly and load bearing capacity indication please refer to the document "ISTM-025"

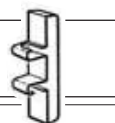
WALKWAY SUPPORT
T-SECTION H58 FOR WALKWAYS
LENGTH = 6200 MM

Ref. 35



component

67015

TOP CAP FOR T-SECTION
SUPPORT BAR H58
Ref. 38

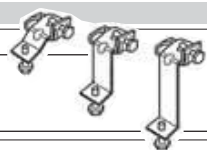
component

67026

HANDRAIL TUBE Ø 32 MM
LENGTH = 6000 MM
Ref. 45

component

65019

STEEL PLANK
FIXING BRACKET
Ref. 54 page 37

component

steel plank clamp	69829
m8x16 bolt	69824

bracket up to 20 mm +m8x20 bolt	69861
bracket up to 40 mm +m8x20 bolt	69862
bracket up to 60 mm +m8x20 bolt	69863

PLASTIC STRIP FOR TYRES
LENGTH = 3000 MM
Ref. 21

component

67020

NOISE DAMPENING ADHESIVE STRIP
LENGTH = 10 METERS
Ref. 35

component

67021

CHIPBOARD CLIP

Ref. 8



component

67025

REINFORCING UPRIGHT S3 FOR
STAIRCASES/TWO-TIER-STRUCTURES
Ref. 44

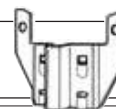
component

99230

REINFORCING BRACKET
FOR UPRIGHTS
Ref. 50

component

65023

WALL FASTENING
BRACKET
Ref. 34

component

65022

PVC HANDRAIL JOINT - 65 MM

Ref. 48



component

69840

PVC JOINT FOR HANDRAIL
INTERSECTION AT RIGHT

Ref. 48



component

69837

PVC JOINT FOR HANDRAIL
INTERSECTION AT LEFT

Ref. 48



component

69843

SIMPLY SUPER - DO-IT-YOURSELF - PATENTED BOLTLESS SHELVING KITS

"SIMPLY SUPER" are do-it-yourself shelving kits, conceived for easy use within the domestic environment.

SIMPLY SUPER is available in two different heights - 1840 and 1576 mm - with 5 or 4 shelf levels in height, respectively.

Starter bays can be easily integrated with add-on-bays. All of them in 900 mm width and 400 mm depth.

Shelves can be regulated in height at a 33 mm pitch.



SIMPLY SUPER is made from prime quality high tensile steel, certified according to EN 10204 3.1B.

BULL SERIES - PLASTIC BINS - Ref. page 19

COLOURS	BULL 1	BULL 2	BULL 3	BULL 4 BULL 4/D	BULL 5	BULL 6 BULL 6/D	BULL 7 BULL 7/D
green ●	●	●	●	●	●	●	●
blue ●	●	●	●	●	●		
red ●	●	●	●	●	●		
yellow ●	●	●	●	●	●		
grey ●	●	●	●	●	●		

Open fronted bins with very strong structure. Easily to be placed one upon another. Large front label holder. Made from high density polyethylene, for use in environments ranging from -40°C up to +80°C. Fracture and breakage proof. Resistant to acids, oils, solvents and detergents. Ergonomic line with comfortable handles for lifting. Base completely flat and anti-skid. Full length return to clip to louvred panels. Brilliant colours and agreeable design.

BULL 1



L. 105 x D. 88/70 x H. 54

Package of 100 pcs.

BULL 2



L. 105 x D. 167/140 x H. 82

Package of 48 pcs.

BULL 3



L. 144 x D. 237/190 x H. 123

Package of 38 pcs.

BULL 4



L. 205 x D. 345/270 x H. 164

Package of 24 pcs.

BULL 5



L. 298 x D. 485/400 x H. 189

Package of 12 pcs.

BULL 4/D



L. 406 x D. 345/270 x H. 164

can be equipped with 1, 2 or 3 mobile dividers
Package of 8 pcs.

BULL 6/D
BULL 6



L. 372 x D. 600/460 x H. 250

Package of 4 pcs.

BULL 7
BULL 7/D

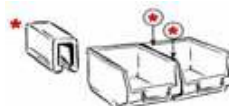


L. 442 x D. 700/540 x H. 300

Package of 4 pcs.

● = available without fixed divider

◆ = available with fixed divider



* = horizontal connection element (only for BULL 6 - 6/D and BULL 7 - 7/D)

METALISTEM



FEM section X



SUPER 1 / 2 / 3

MODULAR STEEL STORAGE SYSTEMS



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