



## ANTARES ST30 SHELVING SYSTEM for double-tier installations



### ST30 FRAME

It consists of two ANTARES ST30 uprights with supporting footplates and a number of cross-braces varying according to the upright height. Standard heights are 2000, 2250, 2500, 2750 and at every 500mm from 3000 to 5500mm, while standard depths are 300, 400, 500, 600mm. Shelves 350mm deep are also available on large number demand.

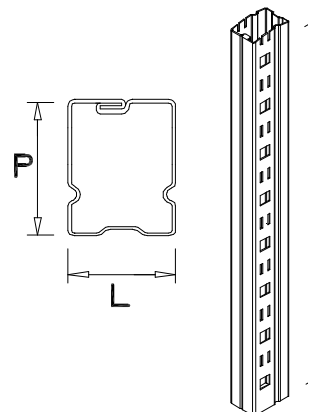
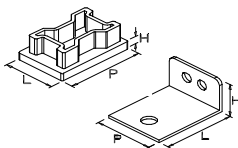
Here are some details of the main parts:

**UPRIGHT:** it is made by a 30x45mm rectangular-shaped section, closed by a seamed and stiffened edge in order to get a very remarkable resistance to torsion and compression load. Its profile is made with a specific semi-automatic production line by cold-rolled forming a steel strip whose thickness varies according to the use:

up to 2500mm in height = 0.8mm thick first quality DC steel.

over 2500mm in height = 1.0mm thick S235JR structural steel.

At every 25mm of the upright side there are the shaped punches and the 11x11mm square holes, which allow easy insertion of hooks for placing shelves and connections by means of bolts (only for special accessories, when necessary). Front holes allow the use of many accessories.





## ANTARES SHELF

It is made with specific, completely automatic line.

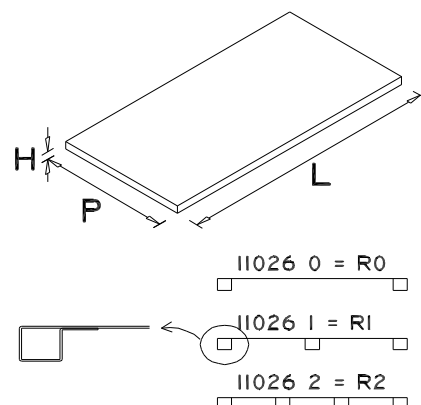
The shape of the section is obtained by cold roll-forming a 0.7mm thick steel strip for shelves 300 and 400mm deep, or 0.8mm thick steel strip for shelves 500 and 600mm deep. With this roll-forming it is possible to obtain two lengthwise boxed and automatically spot-welded edges. The short sides of the shelf are obtained by right-angling, their corner being spot-welded to the lengthwise edges. One or two omega-shaped 0.7mm thick steel reinforcements can be spot-welded to the bottom side of the shelf to increase its load capacity.

Standard widths are 800, 1000 and 1200mm; lengthwise edges are 30mm in height to allow space for the self-adhesive bar-code holders.

The shelves load capacity is declared on ST30 Catalogue.

Such load capacity has been tested in our firm several times during the years, in order to keep our quality under control.

Loading tests have been performed by 10 kg sacks, distributed on the shelf surface, while the shelf has been fitted in a standard bay with two frames as in the daily use.



At the declared loading weight –as in our ST30 Catalogue- maximal mid-span deflection of the shelf is not exceeding 1/200 of the width. After removing loads, no permanent distortions are on the shelf. The declared load capacity has been accepted only if the collapse of the shelf occurs under the double of the previous weight.

Pre-loading the shelf by 4x10kg bags and making the "zero-point" on instruments...	...loading the shelf up to the service load (in this case 17x10 kg bags) Mid span deflection is < 1/200	...the shelf loaded by the double of the service-loads (collapse loads) In this case 34x10kg bags. Even after local plastic deformations, shelf is still supporting such loads...

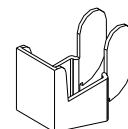
Punched shelves are also available on demand.

They are identified by a different code-number and present a double row of punches to accommodate specific dividers, with spacing every 60mm. Steel thicknesses and standard dimensions are the same as above.

## ANTARES ST30 HOOK

It is made with automatic equipment by pressing a S235JR steel strip.

Its shape allows easy accommodation of shelves on the frames, ensuring the shelf load capacity and increasing the unit stability. Moreover, it stays in position even when shelves are removed.



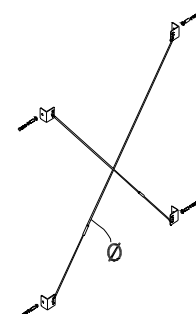
## SPINE BRACING

It is made of a hot-formed Ø4.5 mm steel bar, bent and punched with two brackets at the ends. It is provided to increase the stability of the shelving system.

The same item can be used for every width of shelves, thanks to the special bracket which has three different positions for shelves 1000 or 800-1200mm wide.

The full set of components of the spine bracing is packed in a plastic bag with instruction leaflet inside.

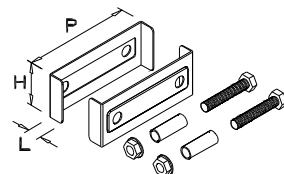
The use of x-braces is strongly recommended in all the applications of free standing shelving units or moveable units.





## BACK-TO-BACK SHELL

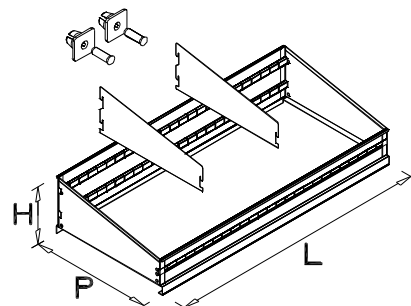
It consists of two C-shaped brackets made of a 1.5mm thick steel sheet, apt to hold two uprights. It is mounted with two M8x45 galvanized bolts and serves as a steady connection of two frames in a double-row shelving unit. There can never be less than two back-to-back shells for each couple of frames and their number changes according to the upright height. It is always recommended in double-row shelving units, whether static or moveable.



## PRE-ENGINEERED PARTITIONS FOR BIN SHELVES

They are made by a front edge 100mm high, a back edge 190mm high, and a couple of side edges of different standard depths. Whenever it is necessary, these edges can be mounted on shelves previously placed, getting a bin shelf for the storage of medium size materials. Crosswise dividers can be inserted every 50mm.

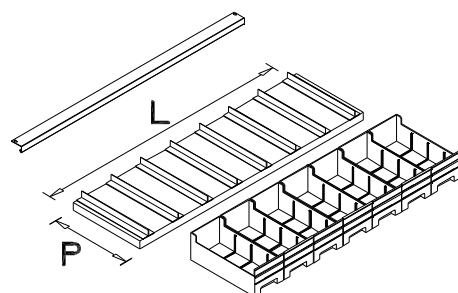
All the elements are completely made of 1.0mm thick steel sheets.



## DRAWERS & CONTAINERS

Various solutions are included in the range of accessories of ST30 line, in order to store little parts and optimise the available surfaces.

**CP containers on Antares shelf:** there are little plastic boxes with a special Antares shelf with welded edges: Plastic bins are available in one depth (300mm) but it is possible to have specialized shelves with 7 positions (L=1000mm) in depth 300 and 400mm. Each plastic bin is supplied with two dividers (three partitions) and one front-plate.



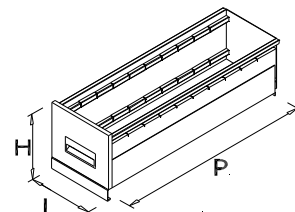
**Bin container type SG:** It is completely made of steel, with plastic handle, no ball bearing slides and drawer tray. Load capacity is 20 Kg. per unit. Usable internal height is about 100mm.

The inside of the bin container is slotted every 60mm for the positioning of galvanized steel sheet dividers.

Bin containers are 400mm deep.

Their front width allows three different compositions:

4 SG drawers /800mm shelf - 5 SG/1000 - 6 SG/1200mm



**Drawer type C3:** it is completely made of steel, with plastic handle, ball bearing slides and drawer tray. Load capacity is 20 Kg. per unit. Drawers can be pulled out 80% of their overall depth and also taken out of the shelving; usable internal height is about 100mm.

The inside of the drawer is slotted every 60mm for the positioning of galvanized steel sheet dividers.

Drawers are available in the following depths: 500, 600mm.

Compositions as above:

4 C3/800 - 5 C3/1000 - 6 C3/1200 shelf

**Drawer type L1000:** it is completely made of steel, with depthwise pre-slotted divisions every 17mm.

Ready to accept 2-3-4-5 or 6 compartments.

Usable dimensions of internal partitions are in the Catalogue ST30.

Sliding movement on ball bearing slides, with 50 kg of load capacity for each couple of slides; drawer's opening is 90% of full depth.

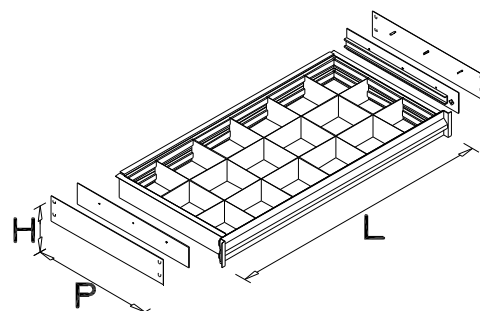
Available only 1000mm wide, 500mm (inside area 470x940mm) or 600mm (inside area 570x940) deep.

Three heights available:

L1000-H100mm/inside H70mm

L1000-H150mm/inside H120mm

L1000-H200mm/inside H170mm





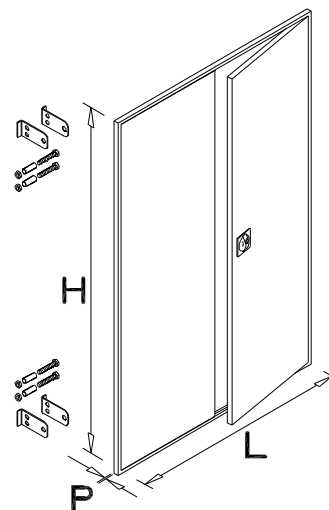
## T2A (SWINGING) DOORS

Antares shelving system has a series of modular swinging doors in its wide range of accessories.

These doors do not oblige to install shelves at the height of the chrome-plated handle. Partitioning of internal room is totally free.

This kind of door does not allow the installation of L1000 drawers, but new sliding containers will be ready soon.

If you need a closed shelving section, you can complete it by side and back panels and base strip, getting a metal cupboard -up to 600mm deep! - to be used in offices, libraries, or wherever a safe storage of valuables is necessary.









# # #

*All items described above -unless otherwise indicated- are protected against corrosion with a phospho-degreasing and epoxy-polyester coating process.*

*You will find further details in the section of the catalogue referring to the coating.*

Our standard colours are listed below:

Dark Grey (GS)		± RAL 7043	in stock
Light Grey (GC)		± RAL 7040	in stock
Gentian Blue		RAL 5010	available on demand
Green		RAL 6011	available on demand
Fire Red		RAL 3000	available on demand
Chrome Yellow		RAL 1007	available on demand

For any other colour, please refer to RAL Standard Catalogue.

*You will find further details in the dedicated section of these notes.*

