



RATIO SHELVING

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Ratio shelving system with Cocoon seating

RATIO SHELVING

You will find exceptional versatility with this functional and flexible shelving system.

This shelving system encapsulates the true meaning of flexibility. Its modular construction provides the highest degree of functionality and versatility and its style; and quality makes it suitable for both contemporary and classic library environments.

The Ratio shelving system offers two different visual and functional options: Ratio-B is without top shelf and the bottom shelf is placed 230 mm (9") above the floor, creating an open, airy feel. The Ratio-S model is with top shelf, bottom shelf as well as a kickplate, the bottom shelf being placed only 100 mm (3.9") from the floor, taking full advantage of the height of the shelving system and is ideal for large volumes often used in scientific libraries. The article number for the bay is the same, the model depends on where you place the shelves on the actual bay.

The design of the shelving system, with 32 (1.25") mm increments, allows for easy assembly and adjustment without the use of specific tools.

The Ratio Shelving System is available as single- or double-sided and can be fitted with steel or wooden shelves, as well as a wide variety of other functional components. The result – a customizable shelving systems that fits the requirements of your specific library.



TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

DIMENSIONS

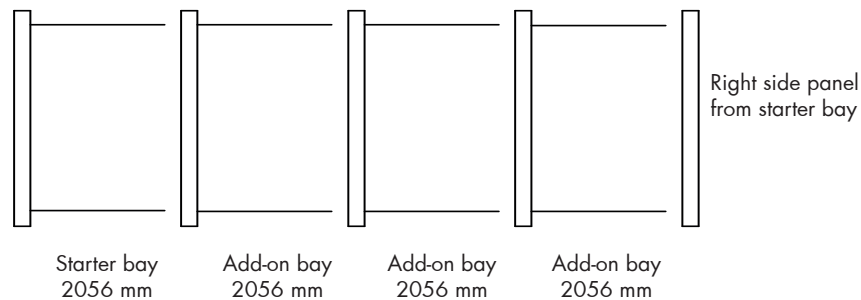
Dimensions of each component can be found under the individual products. All cited measurements are nominal sizes. The actual size of a module measuring 1000 mm is 995 mm etc.

MAXIMUM LOAD

Wooden and steel shelves are to be loaded with a maximum of 60 kg (132.3 lbs).

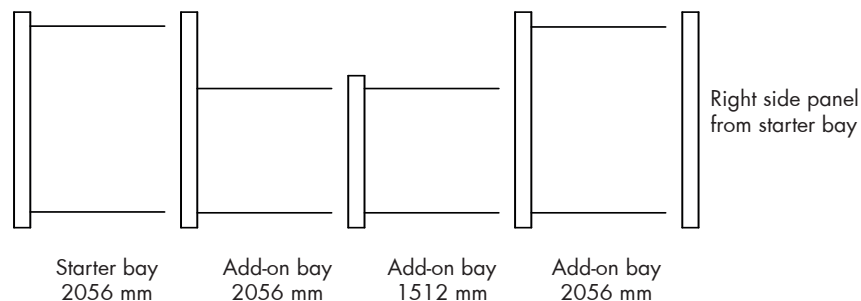
BAY CONSTRUCTION - STARTER AND ADD-ON BAY - SAME HEIGHT

A starter bay includes one right and one left end panel with holes on the inside of the panel. To add another bay, you must take off the right end panel, insert the add-on bay (with one intermediate panel with holes on both sides) and fix the right end panel to the add-on bay. See example below.



BAY CONSTRUCTION - STARTER AND ADD-ON BAY - VARIOUS HEIGHTS

When constructing a shelving system with various heights, you must take care when ordering starter and add-on bays. See example below.



BAYS WITH CASTORS

Castors are available as soft/hard and with/without brakes. Max. load of 90 kg (198 lbs) per castor.

Only double-sided shelving with frame support with a max. height of 1768 mm (69.6") can be mounted on casters, and only double-sided shelving with traverse/back panel with a max. height of 2056 mm (81") can be mounted on casters. Casters are only to be mounted on a max. of 2 adjoining bays.

SHELVES WITH SCREWS AND PINS

Wooden and steel shelves are delivered with either screws (for fixation) or pins (for insertion). Each bay must have at least 2 shelves (4 shelves for double-sided bays) - top and bottom - screwed into the panels for stability. The remaining shelves can be inserted via pins. See overview below for amount of shelves necessary for each bay height

H1096 mm (43.15") - 2 shelves - top and bottom

H1512 mm (59.53") and higher - 3 shelves - top, intermediate and bottom

ASSEMBLY

All wooden shelving units come knocked-down. No special fittings or tools are needed.

TECHNICAL SPECIFICATIONS

STEEL COMPONENTS

are powder coated mainly with thermo hardened polyester powder. The thickness of the coating is thicker than 60 μ m (except micro-perforated plate). Gloss level, unless otherwise required is 65%. The powder coating according to DIN 4102 has fire protection class B1.

The powder used includes:

- no azo dyes that can release a leaving carcinogenic amine component
- no triglycidylisocyanurate (TGIC)
- no heavy steel-containing pigments such as lead and cadmium
- no volatiles

Steel components are lacquered with a particularly resistant environmental friendly powder coating.

TRAVERSES

are made of galvanized steel $\varnothing 4$ (5/32") mm. When installed the traverse has a total height of 1340 mm (52.75"), the diagonal traverse can therefore not be used for bays H1096 mm (43.15").

BACK FRAMES

are made of 30 x 15 x 2 mm (1.18" x .59" x .08") rectangular steel tubes.

SHELVES

are made of 1 mm (19 gauge) lacquered steel.

WOODEN COMPONENTS

The surface of the wooden components either have a transparent lacquered veneer finish or a high pressure decorative laminate coating.

VENEERED AND PLASTIC COATED END PANELS

are made of 25 mm (1") E1 quality particle board. End panels are also available in 26 mm glued solid beech or oak upon request.

VENEERED AND PLASTIC COATED FUNCTIONAL END PANELS

are made of 25 mm (1") E1 quality particle board.

VENEERED AND PLASTIC COATED INTERMEDIATE PANELS

are made of 25 mm (1") E1 quality particle board.

VENEERED AND PLASTIC COATED BACK PANELS

are made of 16 mm (5/8") E1 quality particle board.

VENEERED AND PLASTIC COATED SHELVES

500, 750 and 900 mm shelves are made of 25 mm (1") E1 quality particle board. 1000 mm shelves are made of 25 mm (1") blockboard (to prevent shelf from sagging).

VENEERED AND PLASTIC COATED DOORS

are made of 19 mm (3/4") E1 quality particle board.

OTHER COMPONENTS

GLASS DOORS

are made of 6 mm (1/4") safety glass (ESG).

GLASS DOORS WITH FRAME

are made of 19 mm (3/4") E1 quality particle board and 4 mm glass.

RATIO SHELVING

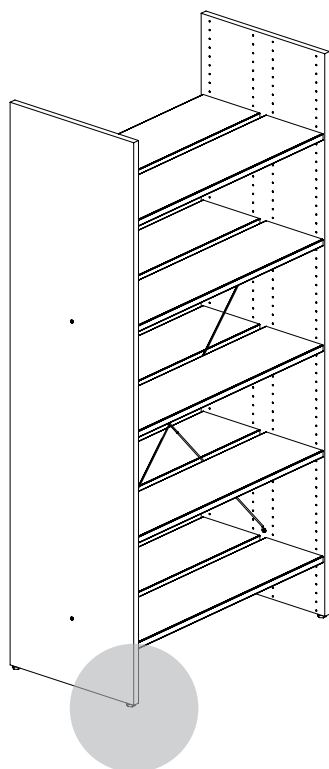
The following pages will show basic configurations of the Ratio shelving system. The article numbers are made according to the following system:

Pos. 1	Pos. 2-3	Pos. 4	Pos. 5-6	Pos. 7	Pos. 8	Pos. 9	Pos.10	Pos.11
Company name	Shelving type	Business number	Bay type	Panel type	Connection element	Height mm	Module mm	Depth mm
S	RT	B	11	1	1	G	W	M
Schulz	Ratio	B	11: SS starter 12: SS add-on 13: DS starter 14: DS add-on 16: DS starter with castors 17: DS add-on with castors	1: Veneer/ plastic coated	1: Traverse 2: Back panel 3: Frame	G: 1096 C: 1512 A: 1768 D: 2056 E: 2248	R: 500 S: 750 U: 900 W: 1000	M: 250 N: 300

The Ratio shelving system offers two different visual and functional options:

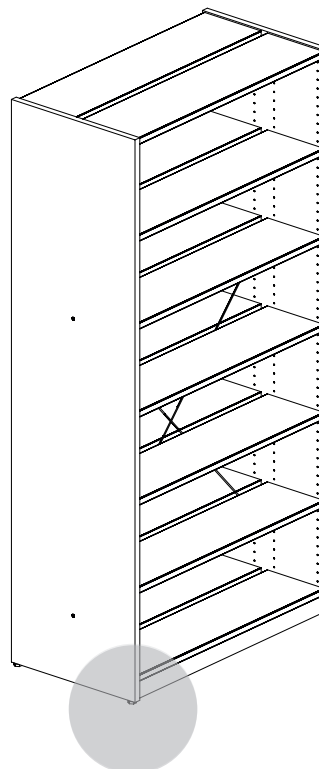
RATIO-B

This system offers the open floor space often required for open-shelf libraries, as the bottom shelf is placed 230 mm (9") above the floor and is without kickplate. You still have the option adding a top shelf.

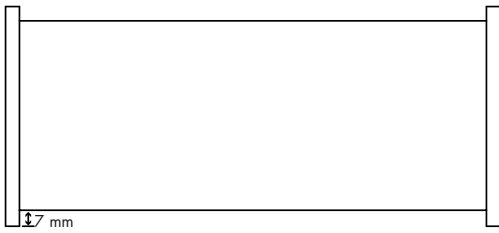


RATIO-S

This system offers the option of adding both top and bottom shelf, as well as a kick plate, making a fully enclosed wooden shelving system. The bottom shelf is placed 100 mm (4") above the floor.



RATIO SHELVING



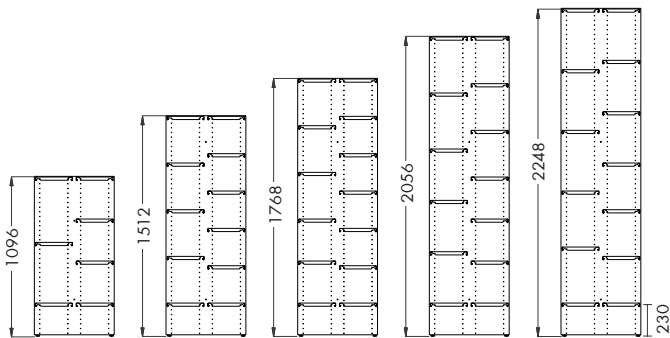
The Ratio panel comes with a flat front end. The shelves are almost flush with the panels, the distance between the front edge of the panel and the front edge of the shelf is 7 mm (1/4"). The holes are placed 37 mm (1 1/2") from the edge of the panel.

Ratio panels are delivered as standard with 25 (1") mm E-1 quality particle board with veneer/plastic coated finish, but can also be delivered in solid 26 mm beech or oak upon request.

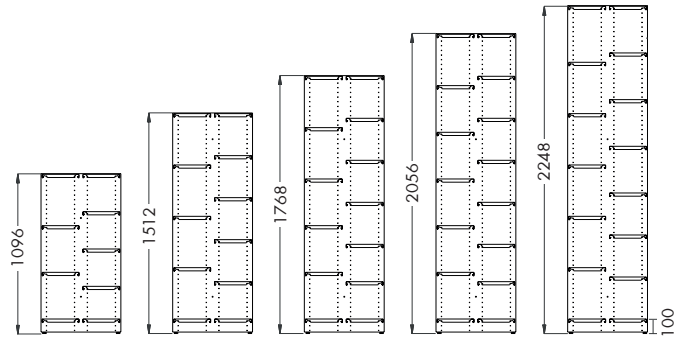
HEIGHTS

Ratio shelving system is available in 5 heights; 1096 (43.14"), 1512 (59.53"), 1768 (69.6"), 2056 (81"), and 2248 (88.5")mm. Heights include adjustable feet (max. 15 mm) with leveling screws in steel threads. The shelves are adjustable in 32 mm increments. Depending on where the shelves are inserted, the following variations are possible:

RATIO-B

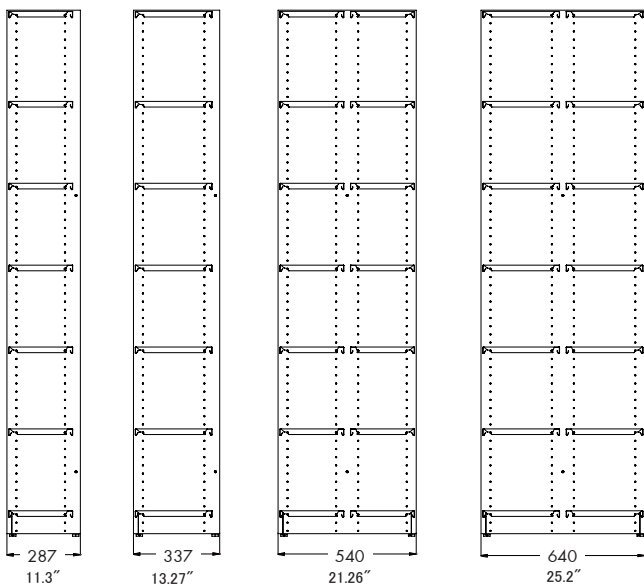


RATIO-S



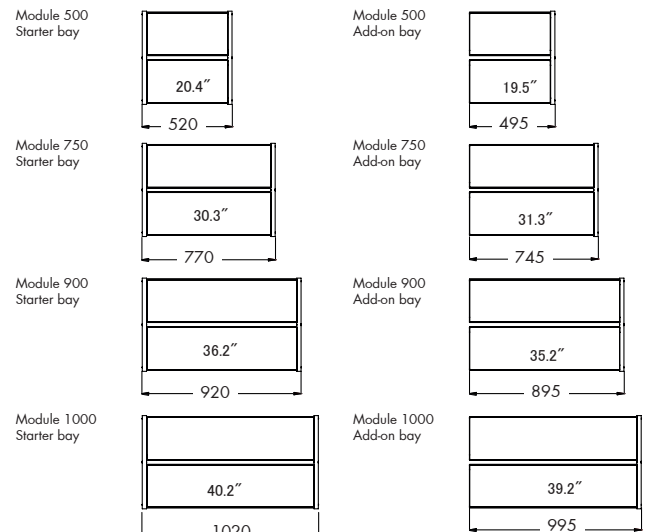
DEPTHS

The panels are available in 2 depths:
 250 mm (9.84") and 300 mm (11.81").
 Actual width of single-sided 250 mm panel is 287 mm (11.3")
 Actual width of single-sided 300 mm panel is 337 mm (13.3")
 Actual width of double-sided 250 mm panel is 540 mm (21.26")
 Actual width of double-sided 300 mm panel is 640 mm (25.2")



WIDTHS

The bays are available in 4 widths and as starter and add-on bays. A starter bay has two side panels and an add-on bay has one side panel.



DESIGN OPTIONS

You have several design options with the Ratio shelving. The following will give you an overview of our standardized options as to steel and plastic colours and wooden finishes.

STANDARD STEEL COLOURS (see overview page 8)

The coloration of the steel parts is made by a highly abrasion-proof and environmental-friendly baking powder-coating. Color deviations compared to original RAL register may occur. Antibacterial equipping of surfaces upon request.

The steel parts can be produced in the standard steel colors. Powder coating in other RAL colors is available at an additional cost.

- You will find the grey circle next to all products that are available in our standard steel colours. Other colours are available upon request.

STANDARD COLORS AND FINISHES FOR VENEER AND PLASTIC SURFACES (see overview page 9) The wooden surfaces either have a transparent lacquered veneer finish or a high pressure decorative laminate coating. Differences in color underline the characteristics of veneer and cannot be avoided. We use environmental-friendly lacquers for our solid wood surfaces.

- You will find the grey square next to all products that are available in our standard veneer and decorative laminate coated surfaces. HPL (High Pressure Laminate), special decors and other surfaces are available upon request. The letter indicates which colors and finishes are available according to overview on page 9.

DESIGN OPTIONS

STANDARD STEEL COLOURS

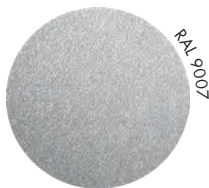
GROUP A



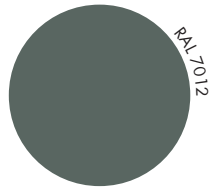
● **Traffic white**
916



● **Oyster white**
113



● **Grey aluminium**
907

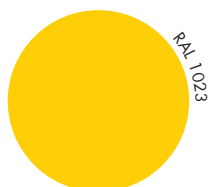


● **Basalt grey**
712

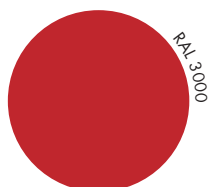


● **Light grey**
735

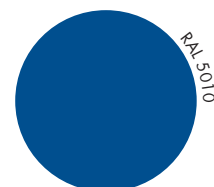
GROUP B



● **Traffic yellow**
123



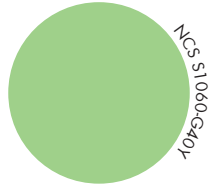
● **Flame red**
300



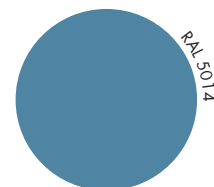
● **Gentian blue**
510



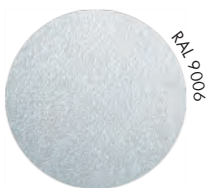
● **Orange**
203



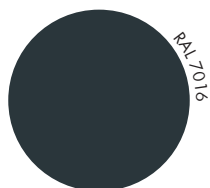
● **Green**
N01



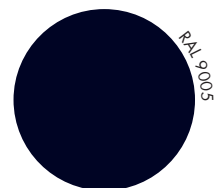
● **Pigeon blue**
514



● **White aluminium**
906



● **Anthracite grey**
716

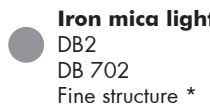


● **Jet black**
905

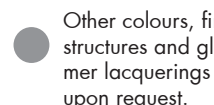
GROUP C



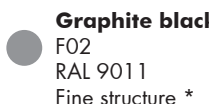
● **Sapphire blue**
F01
RAL 5003
Fine structure *



● **Iron mica light**
DB2
DB 702
Fine structure *



● Other colours, fine structures and glimmer lacquerings upon request.



● **Graphite black**
F02
RAL 9011
Fine structure *



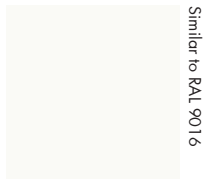
● **Iron mica dark**
DB3
DB703
Fine structure *

* We do not recommend fine-structured surfaces for shelves as the books will easily slip!

DESIGN OPTIONS

STANDARD COLOURS AND FINISHES FOR VENEER AND PLASTIC SURFACES

GROUP A



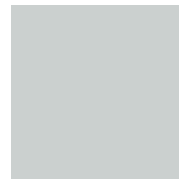
Similar to RAL 9016

A Traffic white
Coated D01
HPL S01



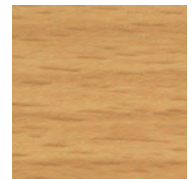
Similar to RAL 1013

A Oyster white
Coated D02
HPL S02



Similar to RAL 7035

A Light grey
Coated D03
HPL S03



A Beech decor
Coated D04
HPL S04



A Maple decor
Coated D05
HPL S05



A Cherry decor
Coated D06
HPL S06



A Oak decor
Coated D07
HPL S07



A Olive decor
Coated D08
HPL S08

GROUP B*



B Sunflower
Coated D09
HPL S09



Similar to RAL 3000

B Flame red
Coated D10
HPL S10



Similar to RAL 5010

B Gentian blue
Coated D11
HPL S11



Similar to RAL 2003

B Orange
Coated D12
HPL S12



Similar to NCS S1060-6

B Green
Coated D13
HPL S13

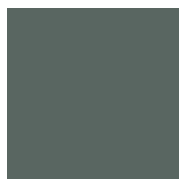


B Crystal blue
Coated D14
HPL S14



Similar to RAL 9007

B Grey-metallic
Coated D15
HPL S15



Similar to RAL 7012

B Basalt grey
Coated D16
HPL S16

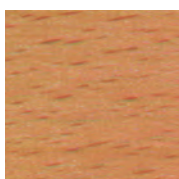


Similar to RAL 9005

B Night black
Coated D17
HPL S17

*If you wish to order shelf length of W1000 mm in group B, please contact Sales, as prices vary depending on quantity ordered.

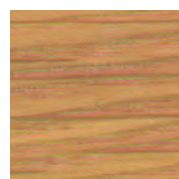
GROUP C



C Beech veneer*
Coated F01



C Maple veneer*
Coated F02



C Oak veneer*
Coated F03



Houthalen Public Library, Belgium
Ratio shelving with functional end panels



Functional End Panels and High Intermediate Panel



Veneer and steel make for a rich combination.

The number of finishes, materials, and accessories will challenge your imagination.



COLORFUL
VERSATILE
FUN

