

wesemann[®]
INTERNATIONAL

Laboratory Furniture



System DELTA 30



Our philosophy

The laboratory is a workplace with many different requirements. Hardly any two are the same. What is required of laboratory furniture is different for each work area. That is why a range of laboratory furniture needs to fulfill the demands of the operator.

This involves taking ergonomics, workflow, design, durability and room geometry into account.

The DELTA 30 furniture system comprises a very narrow modular structure of standard elements that may be combined in almost all design variants. This structure allows very individual requirements to be met using the standard system. The various service supply systems and different cupboard designs can easily be combined with the extensive range of fume cupboards. The service supply in the systems and the ventilation of the fume cupboards are assembled ready to operate and come with all the necessary operating permits and safety certificates. A qualified team is available to help you plan your individual laboratory layout.

ZERTIFIKAT



For the standard
SCC - Contractors/Producing enterprises**
in conformity with the "Technical Specification Certificate" (TSC) version 2007

in accordance with the TSC procedure, it is hereby certified that

Wesemann GmbH & Co. KG
- Laborinrichtungen -
Max-Planck-Straße 15 - 21
28857 Sylke
Deutschland

certification

Projektierung und Montage von Laborinrichtungen

Technical Register No. 07 00 00000
Certificate No. 001 000

Issue date 01/07/10
Expiry date 01/07/13

TUV SUD
at the TSC (TSC) office

Issue date 01/07/10

This certificate was issued in accordance with the TSC (TSC) audit and certificate procedure and is subject to regular surveillance visits.

TUV SUD (TSC) office: Legenbrunnstraße 21 47877 Krefeld 0201 201-20100



TUV NORD

CERTIFICATE



for the standard
SCC - Contractors/producing enterprises**
in conformity with the "Technical Specification Certificate" (TSC) version 2007

in accordance with the TSC procedure, it is hereby certified that

Wesemann GmbH & Co. KG
- Laborinrichtungen -
Max-Planck-Straße 15 - 21
28857 Sylke
Germany

certification management based on the audit procedure conducted by the following office

Engineering and installation of laboratory furniture

Technical Register No. 07 00 00000
Certificate No. 001 000

Issue date 01/07/10
Expiry date 01/07/13

TUV SUD
at the TSC (TSC) office

Issue date 01/07/10

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TUV SUD (TSC) office: Legenbrunnstraße 21 47877 Krefeld 0201 201-20100



TUV NORD

ZERTIFIKAT



for the Management System according to
DIN EN ISO 9001 | 2000

in accordance with the requirements of the standard according to
the TSC (TSC) audit procedure

Wesemann GmbH & Co. KG
Max-Planck-Straße 15 - 21
28857 Sylke
Deutschland

certification

**Entwicklung, Vertrieb, Projektierung, Herstellung und Montage von
Laborinrichtungen**

Technical Register No. 07 00 00000
Certificate No. 001 000

Issue date 01/07/10
Expiry date 01/07/13

TUV NORD
at the TSC (TSC) office

Issue date 01/07/10

This certificate was issued in accordance with the TSC (TSC) audit and certificate procedure and is subject to regular surveillance visits.

TUV NORD (TSC) office: Legenbrunnstraße 21 47877 Krefeld 0201 201-20100



CERTIFICATE



Management system according to
DIN EN ISO 9001 | 2000

in accordance with the requirements of the standard according to
the TSC (TSC) audit procedure

Wesemann GmbH & Co. KG
Max-Planck-Straße 15 - 21
28857 Sylke
Germany

certification management based on the audit procedure conducted by the following office

**Design, sales, project management, manufacture and installation
of laboratory furniture (including fume hoods)**

Technical Register No. 07 00 00000
Certificate No. 001 000

Issue date 01/07/10
Expiry date 01/07/13

TUV NORD
at the TSC (TSC) office

Issue date 01/07/10

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TUV NORD (TSC) office: Legenbrunnstraße 21 47877 Krefeld 0201 201-20100



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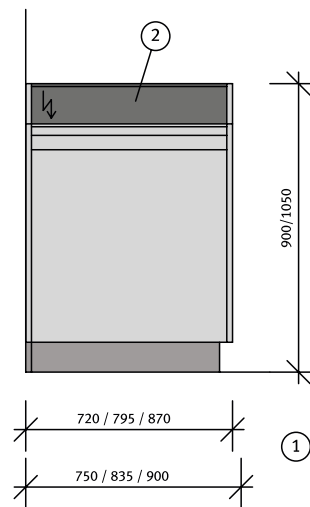
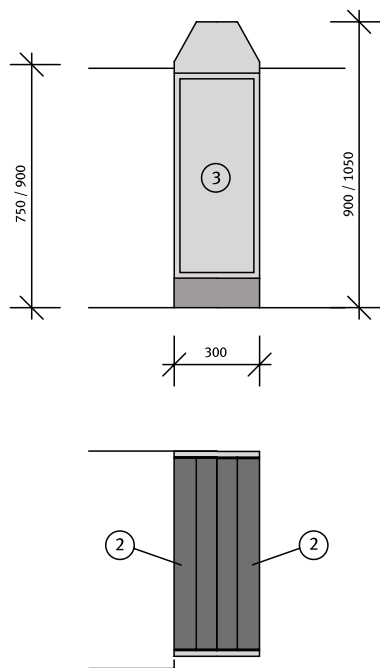
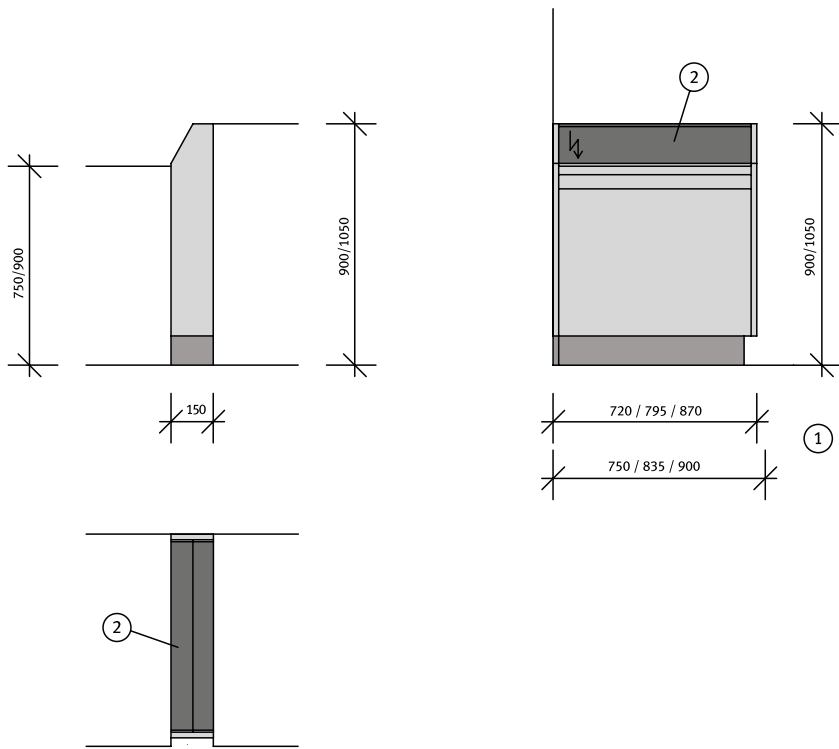


Service systems





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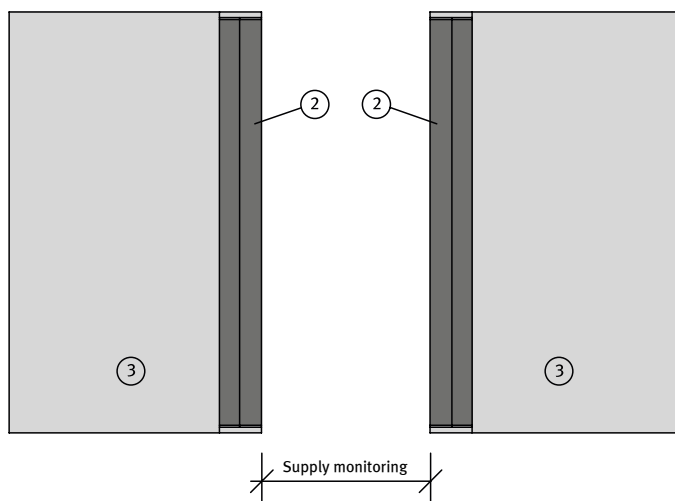
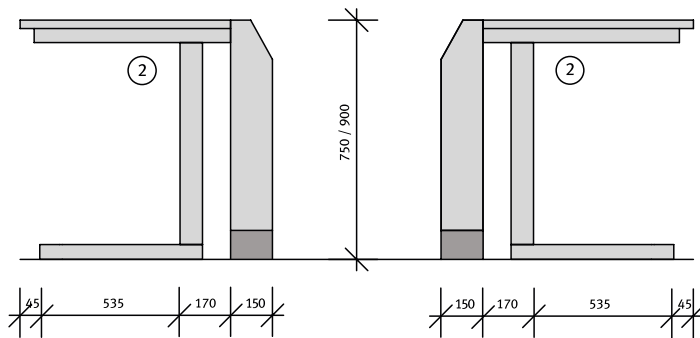
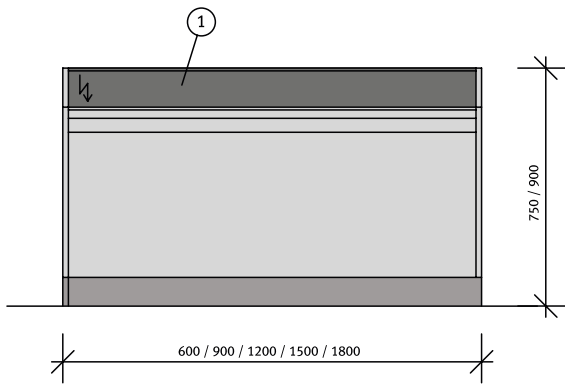


- ① = Container depth 720 mm for table depth 750 mm
 Container depth 795 mm for table depth 835 mm
 Container depth 870 mm for table depth 900 mm
- ② = System channel for electrical service outlets
- ③ = Twin container with resting place for PC



Container

- Central service supply
- System channel can be upgraded to multi-chamber channel
- Assembly at the side of the table means lower table depth
- Link module from standing to sitting work level
- Stand-alone module allows flexible use of space
- No structures that interfere with the supply of appliances
- Structural function in fixing worktops
- Central container has space for PC etc.
- Function grooves for extensive range of add-on options
- Ideal to connect one or two workplaces to the side of a double workbench

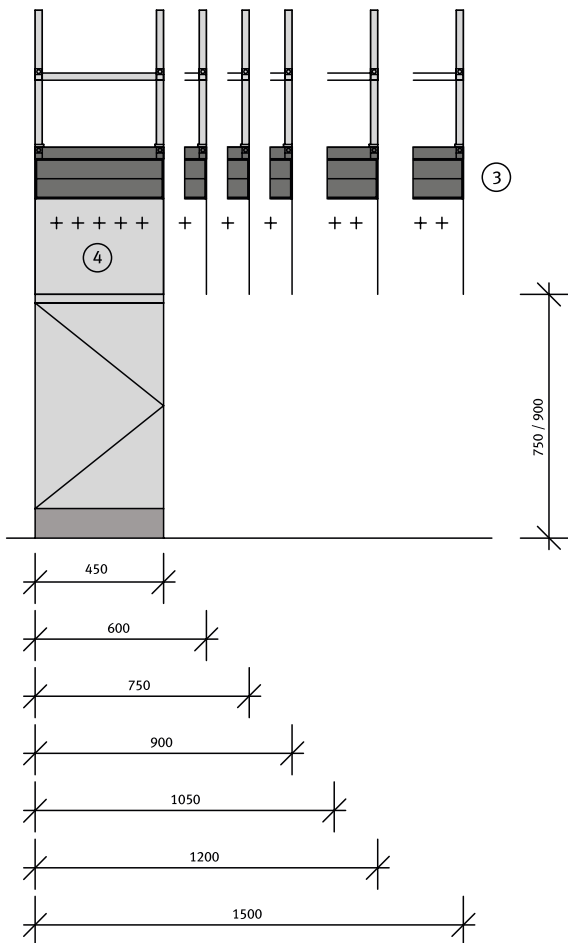
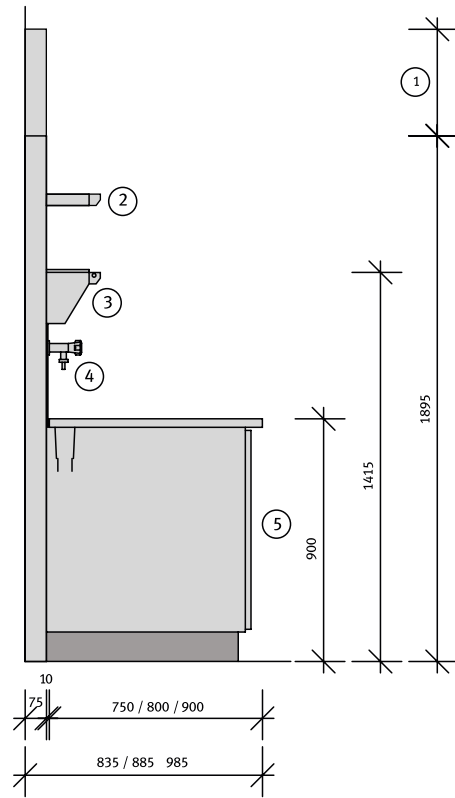
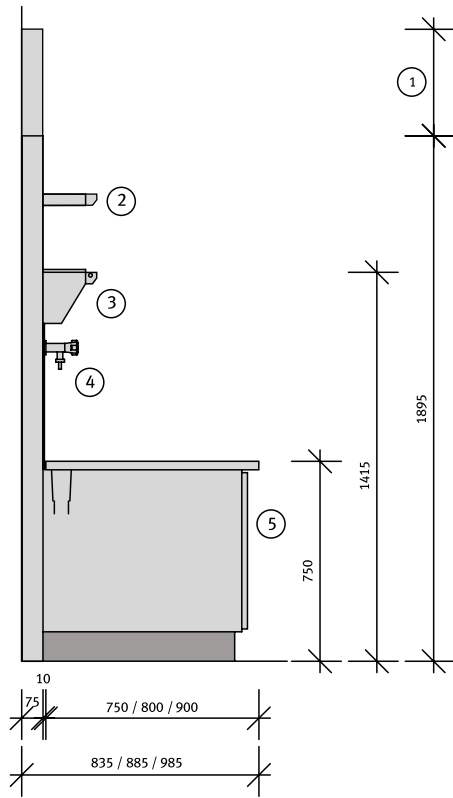


- ① = System channel for electric and pure gas supply
- ② = Combination possible with all series and types
- ③ = Combination possible with all types of work tops



Container: special application

- Central service supply
- System channel can be upgraded to multi-chamber channel
- Media supply flush with work surface at the back of the table
- No structures that interfere with the supply of appliances
- Function grooves for extensive range of add-on options
- Service corridor for the supply of appliances
(e.g. gas chromatographs) if arranged appropriately

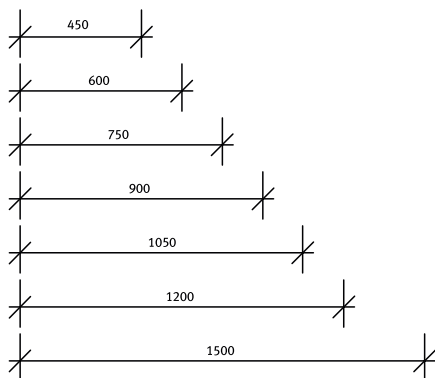
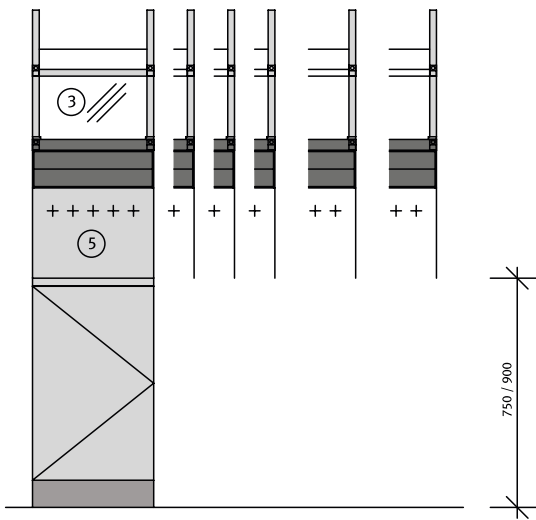
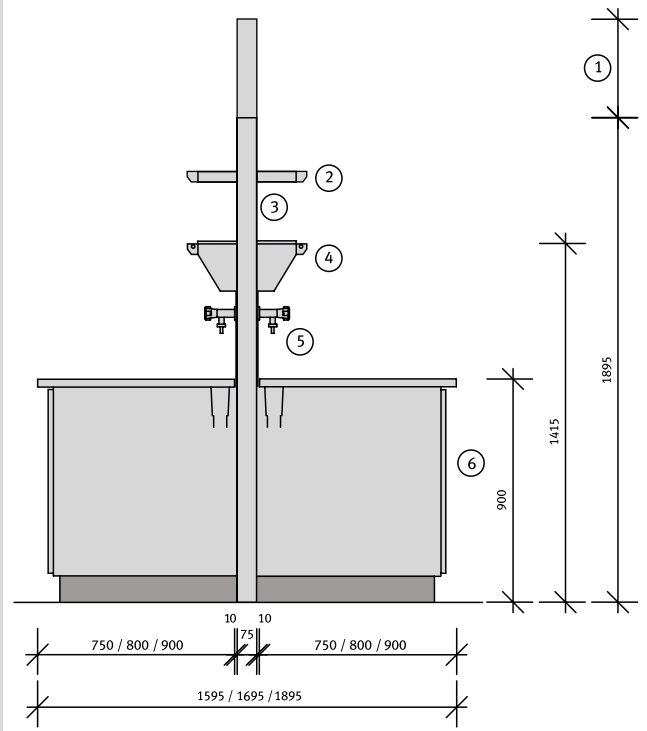
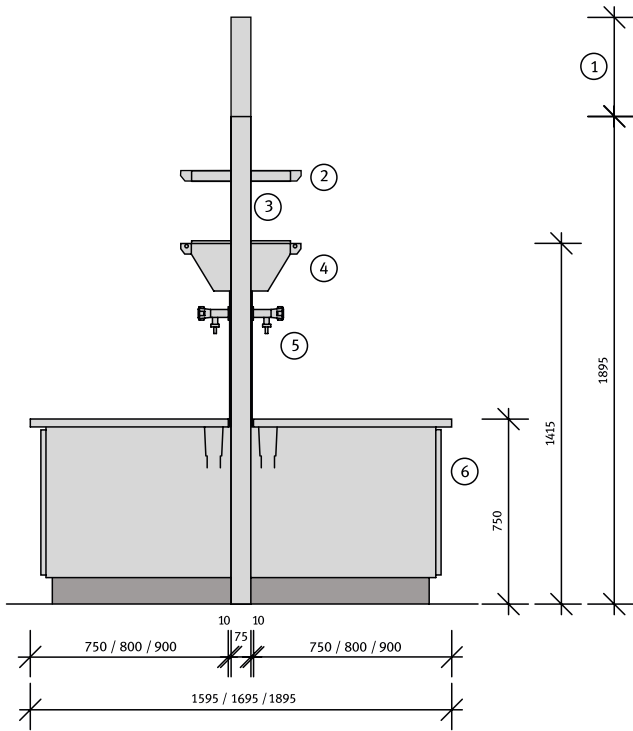


- ① = Option: variable energy cell extension
- ② = Option: 2. reagent shelf, infinitely adjustable in height
- ③ = System channel for electrical service outlets
- ④ = Service panel with fittings arrangement at a distance of 75 mm
- ⑤ = Combination with all series and types of underbench arrangements is possible



Stand unit: wall bench

- Workplace in accordance with DIN EN 13150
- Well suited for wet workplaces
- Splash protection to the wall
- Aluminium system stand
- High installation density possible
- Function grooves for extensive range of add-on options
- Integration of the first storage level into the system channel
- Second and further reagent shelves are infinitely adjustable in height
- Few joints
- Three-dimensional scaffold points
- Can be extended by plug-in sections
- Extensive add-on options available for significantly higher utility value
- Integration of sinks possible

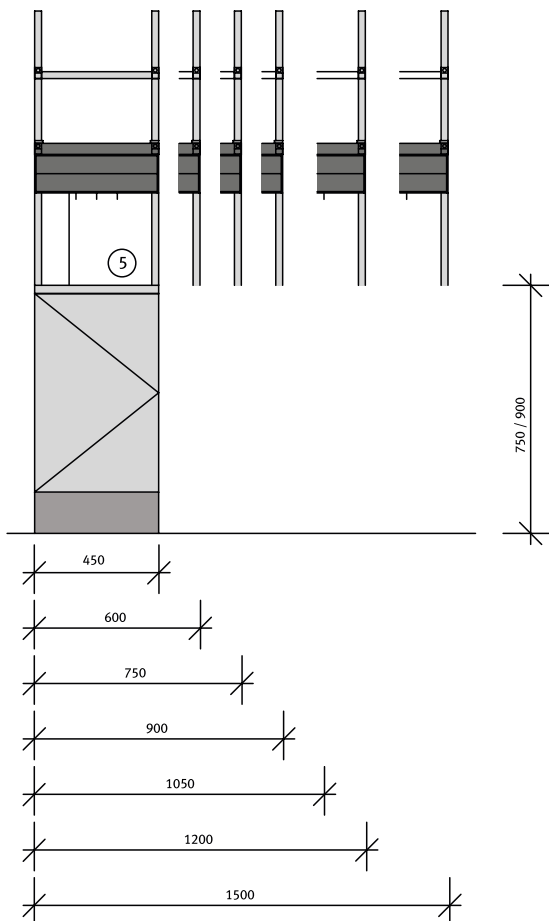
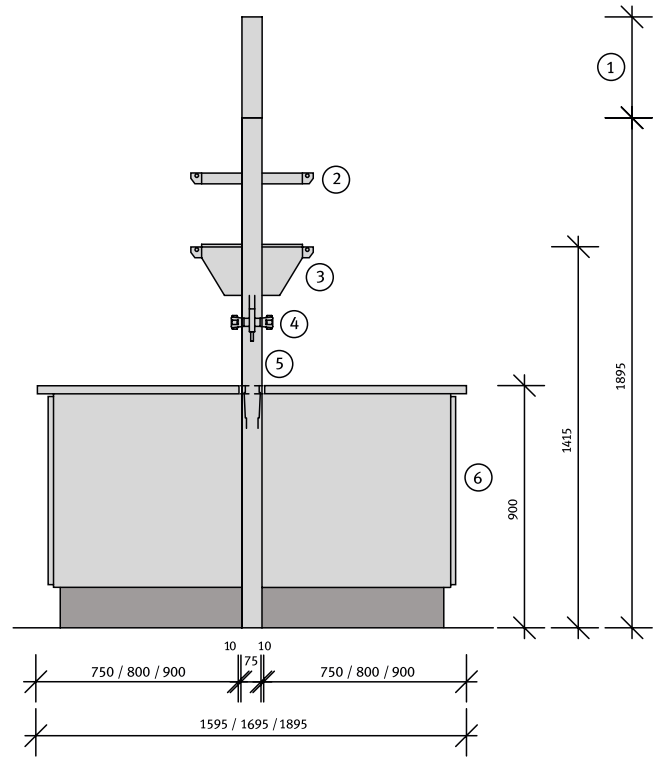
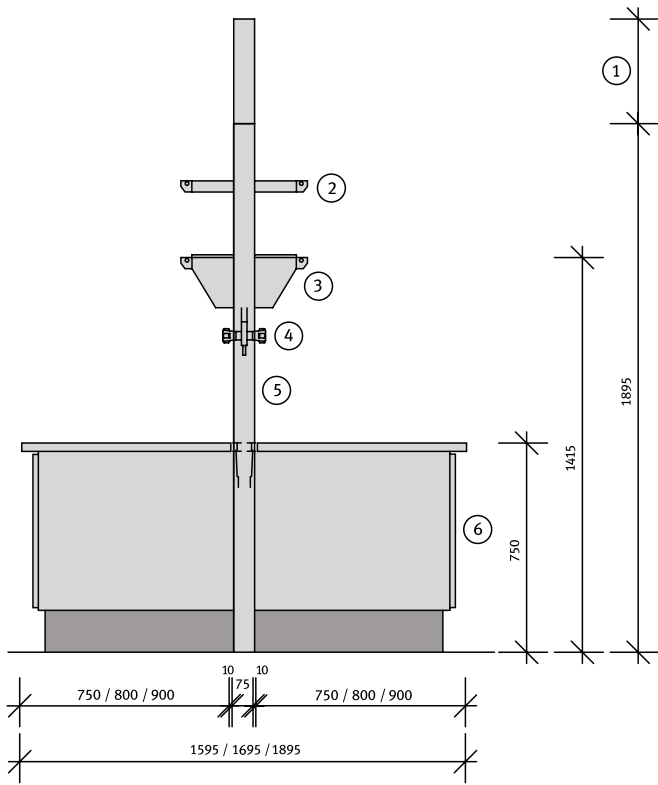


- ① = Option: variable energy cell extension
- ② = Option: 2. reagent shelf, infinitely adjustable in height
- ③ = Splash protection made from tempered glass
- ④ = System channel for electrical service outlets
- ⑤ = Service panel with fittings arrangement at a distance of 75 mm
- ⑥ = Combination with all series and types of underbench arrangements is possible



Stand unit: double work bench

- Workplace in accordance with DIN EN 13150
- Well suited for wet workplace
- Splash protection for workplace opposite
- Aluminium system stand
- High installation density possible
- Function grooves for extensive range of add-on options
- Integration of the first storage level into the system channel
- Second and further reagent shelves are infinitely adjustable in height
- Few joints
- Three-dimensional scaffold points
- Can be extended by plug-in sections
- Extensive add-on options available for significantly higher utility value
- Integration of sinks and central sinks is possible



- ① = Option: variable energy cell extension
- ② = Option: 2. reagent shelf, infinitely adjustable in height
- ③ = System channel for electrical service outlets
- ④ = Supply rail with fittings arrangement at a distance of 75 mm
- ⑤ = Unobstructed access
- ⑥ = Combination with all series and types of underbench arrangements is possible



Stand bridge

- Workplace following DIN EN 13150
- Wide space for works with lab equipment
- Aluminium system stand
- Laboratory service fittings can be used from both sides
- Function grooves for extensive range of add-on options
- Integration of the first storage level into the system channel
- Second and further reagent shelves infinitely adjustable in height
- Three-dimensional scaffold points
- Can be extended by plug-in section
- Extensive add-on options available for significantly higher utility value
- Integration of central sink is possible



Service Wing

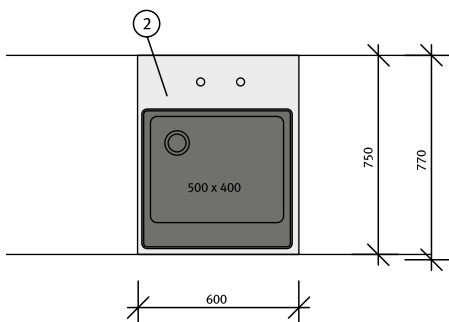
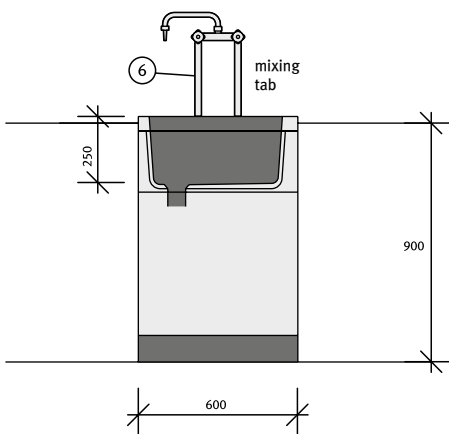
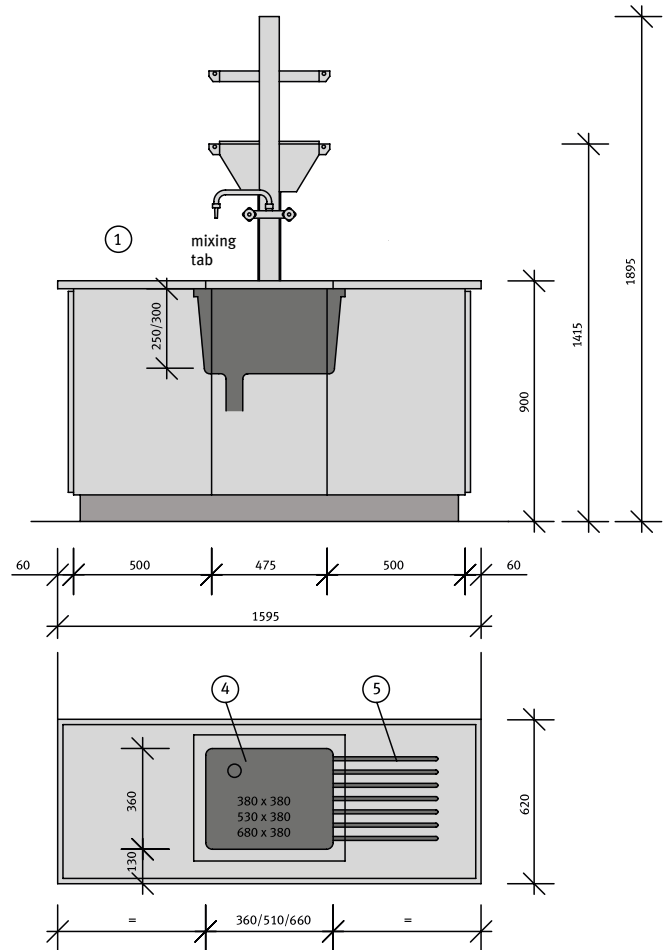
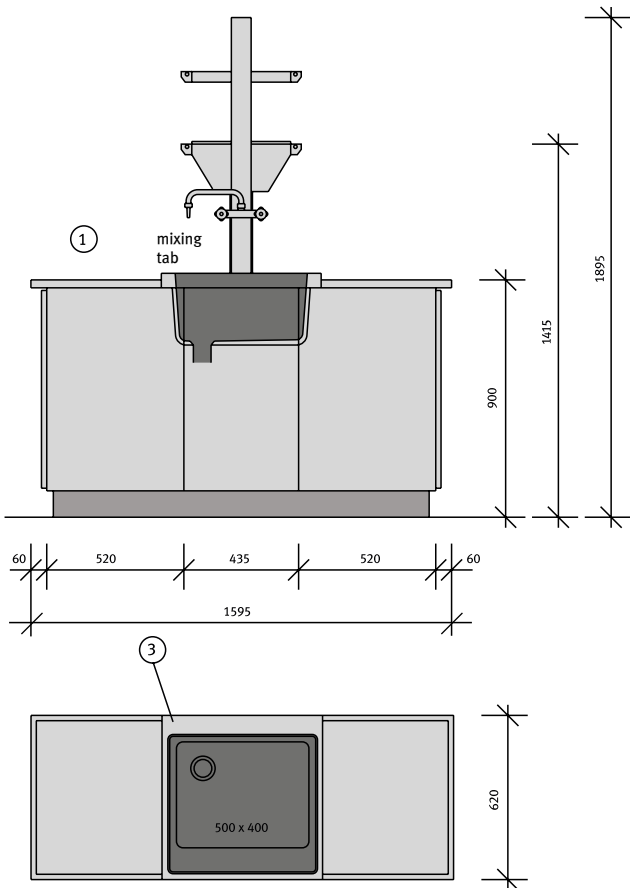
The advantages are obvious:

- The low-maintenance service board proves its worth with regard to longevity and very low follow-up costs.
- It is particularly suitable for refurbishment projects and should be primarily used wherever existing rooms are subjected to a new utilisation.
- The service wing offers integration options for all sanitary, electric and data network technology links as well as for exhaust air junctions to be connected to either a mobile or locally installed demonstration fume cupboard or a room ventilation system.



Suspension bridge

- Workplace following DIN EN 13150
- Space underneath the system can be used
- Usable as single or room supply system
- Wide space for works with lab equipment
- Aluminium system stand
- Laboratory service fittings can be used from both sides
- Function grooves for extensive range of add-on options
- Integration of a storage level in the system channel
- Further reagent shelves available as optional extras
- Three-dimensional scaffold points
- Extensive add-on options available for significantly higher utility value



- ① = Central sink with stand unit or stand bridge
- ② = System sink with integrated drainage grooves
- ③ = Space for optional eye wash
- ④ = Stoneware underbench sink
- ⑤ = Option: run-off grooves on one or both sides
- ⑥ = System sink with deck mounted, panel mounted or wall mounted service fittings as required



Washing-up center

- Dished work surface with inset sink
- Basin module sink with waste water protection
- Optional run-off grooves or run-off groove module
- All sink designs either as front or wall sink
- Integration into the wall or double work bench
- Various materials and dimensions
- Deck mounted or panel mounted service fittings as required



Service systems: Special applications





Service systems: Local supply

- Ideal for services such as vacuum, compressed air, clean gas, clean and pure water
- Integration of the aggregates underneath the surface of the table in customized substructures to facilitate maintenance and service supply
- Separate integration of operational devices, indicators and control units above the worktops to maximize handling capacity and use of the working space
- Short supply lines to point-of-use provide highest process quality

①

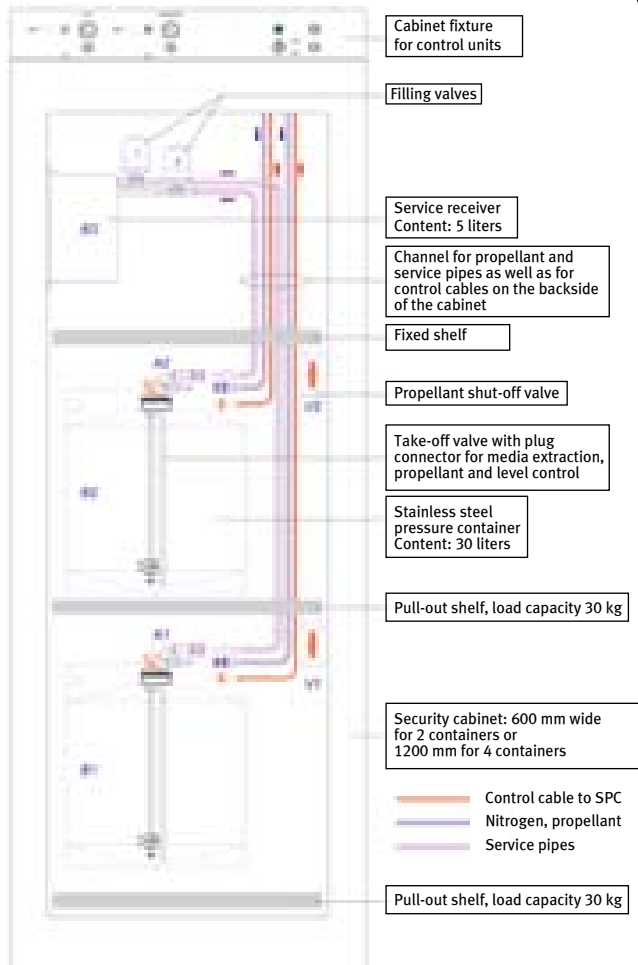
Runback distributor from the HPLC

Runback distributor from the HPLC

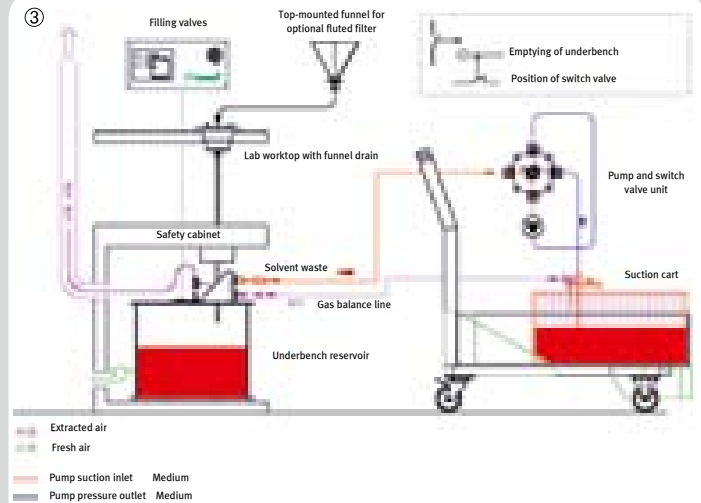
- Open drawer(s) completely and position the connections
- Remove closure(s) of empty container(s)
- Screw in intake fittings
- Place prepared container(s) into the drawer(s)
- Connect service pipes
- Connect control cable
- Close drawer(s)
- Acknowledge receipt of empty container(s) on control panel

— Control cable to SPC
 — Service pipes
 — Sequence of operation

②



③

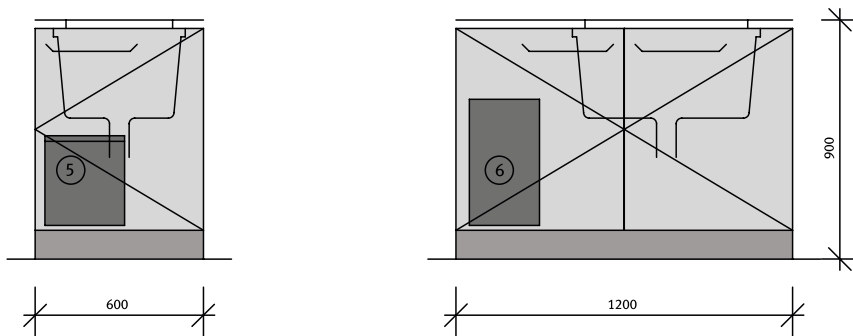
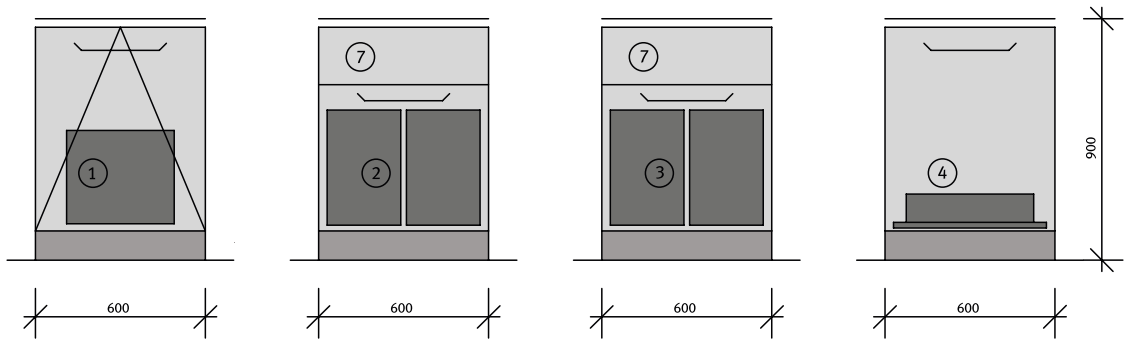
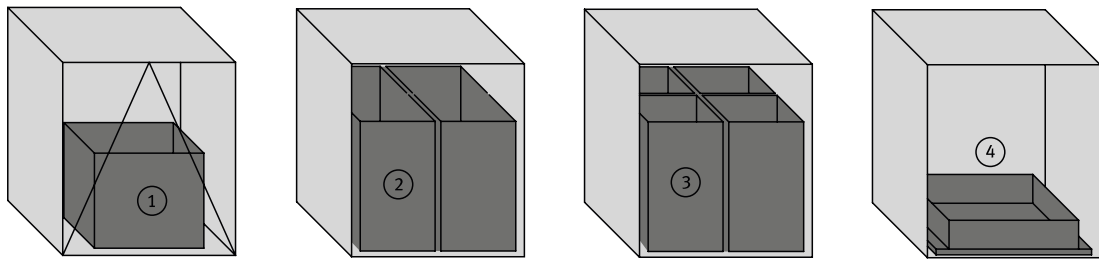


- ① = Waste system for solvent residues from the HPLC analysis
- ② = Uninterrupted supply of solvent
- ③ = Functioning of suction cart



Supply and disposal of chemicals

- Professional systems for every field of application to facilitate and support work while optimizing safety in the lab
- Pressurized solvent supply systems to integrate in fume cupboards
- Uninterrupted supply of solvent integrated in the safety cabinet to supply the HPLC systems
- Waste systems for solvent residues from the HPLC analysis integrated in the safety cabinet
- Underbench collecting systems for solvent waste with interchangeable reservoir system (with manual coupling device or particularly easy to use automatic connecting system)
- Underbench collecting system for solvent waste with fixed reservoir and fast connecting system for use with a suction or transport trolley
- Container systems for central collection of solvent waste
- Exchangeable reservoir systems for the disposal of acids and bases

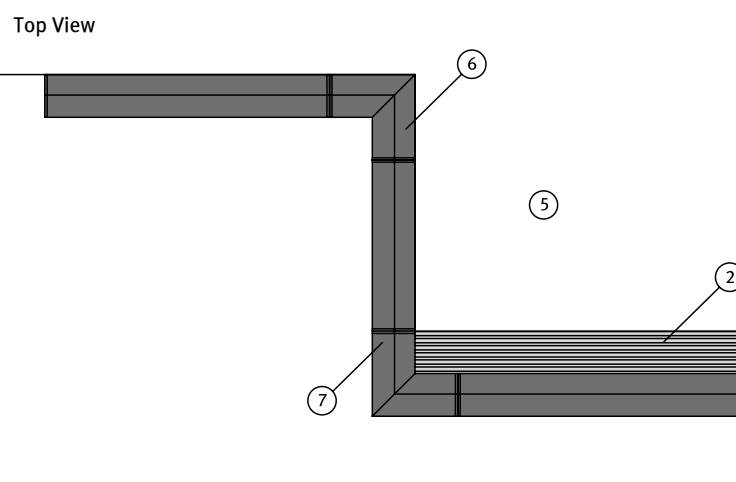
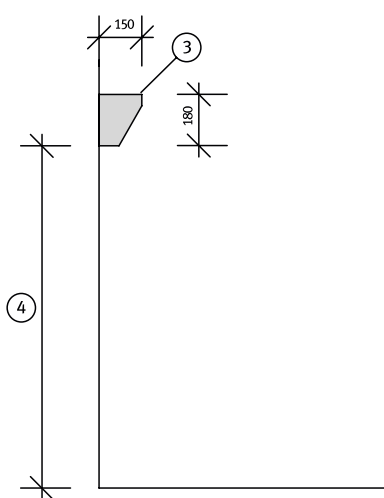
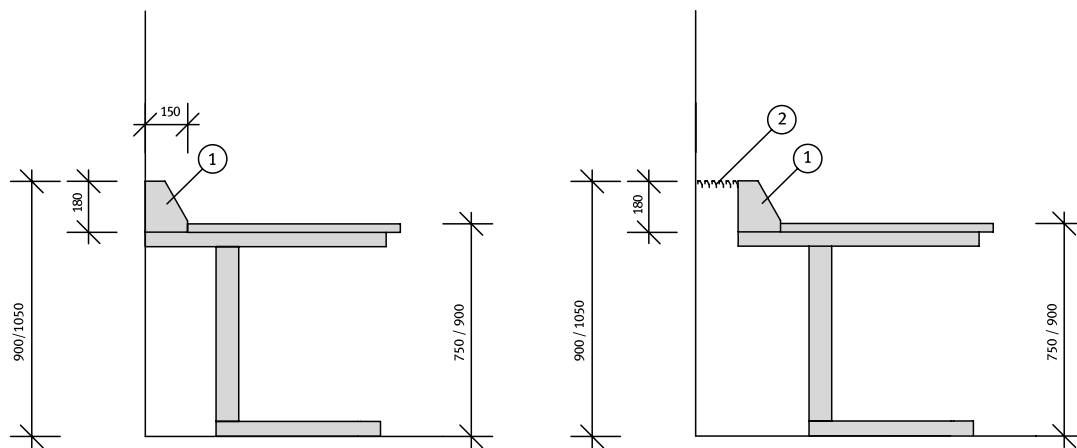


- ① = Tilting waste collector with PE box 30l
- ② = Drawer with twin waste bin 2 X 20 l
- ③ = Drawer with quadruple waste bin 4 X 15 l
- ④ = Drawer with collecting basin
- ⑤ = Waste collector 15 litres with lid lift system behind hinged doors
- ⑥ = Waste collector 2 X 15 litres tandem behind hinged doors
- ⑦ = Panel, option: drawer



Waste collection and disposal systems

- Waste bins made of various materials with appropriate resistance against attack
- Underbench cabinets with exhaust duct, if required
- Collecting basin as a safety element
- Drawer-opening pedal in option

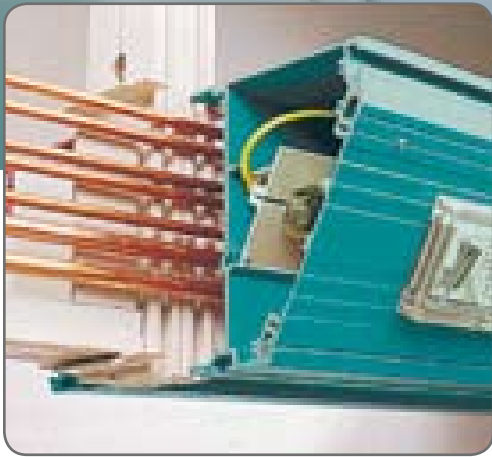


- ① = System channel as table channel (system groove at top) Combination with all series is possible
- ② = Heating convection grid made from aluminium sections with 25 mm ribs, depth according to requirements
- ③ = System channel as wall channel (system groove at front and bottom)
- ④ = Fitting height as requested
- ⑤ = Example view from top system channel arrangement
- ⑥ = System channel interior corner (300 x 300 mm)
- ⑦ = System channel exterior corner (300 x 300 mm)



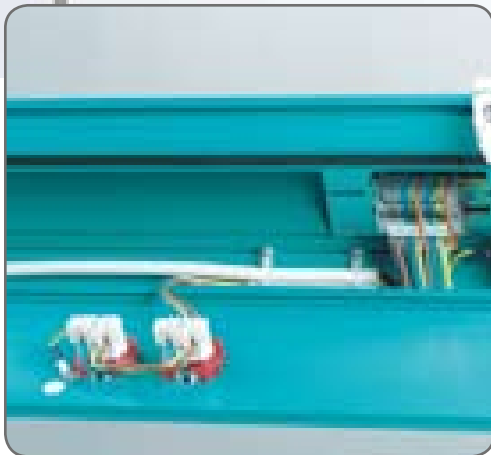
System channel

- DELTA 30 system channel made from aluminium
- Channel system as grid elements, with corner fittings or by the meter
- Channel system with function grooves for an extensive range of add-on options
- Can be used as table, wall and element channel
- Can be extended, e.g. convection grids or storage consoles



Service supply: plumbing

- Variable arrangement of laboratory service fittings along the entire system length
- Clean gas installations in accordance with requirements
- Service fittings including add-ons such as pressure reducers can be supplied in various assemblies depending on the system
- Supply pipework / pipe lines from ceiling or floor
- Pre-installations with all safety and pressure tests
- Covered pipe lines



Service supply: electric

- Variable assembled with built-in equipment from the standard range and special components
- Flexible channel division into up to 4 chambers
- Labyrinth seal for splash protection IP54
- Installation of data networks
- Optional: miniature circuit breakers, residual current operated circuit breakers
- Front guidance groove with safety device against dropping out when channel is open



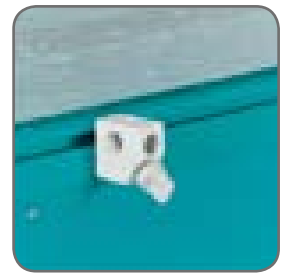
Small parts tray



Cable clamp



Cable tidy



Scaffold rod holder



Pipette holder



Paper roll holder



Box holder



Flat screen adapter

Accessories



Storage tray



Swivel organizer



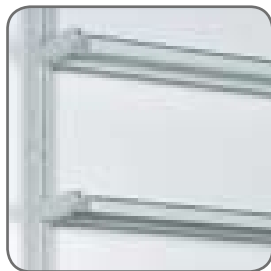
Workplace lamp



Groove section



Flat monitor swivel arm



Stand extension



Telephone swivel arm



Reagent shelf
• Shelf glass
• Shelf solid core
• Shelf melamine with/
without exposed edges



Reagent shelf deep
• Shelf glass
• Shelf solid core
• Shelf melamine with/
without exposed edges















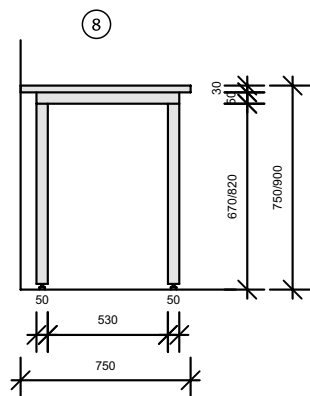
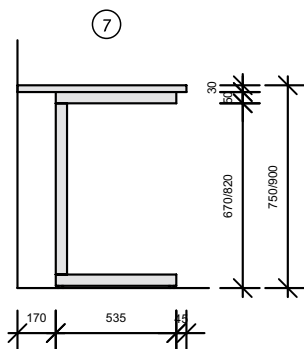
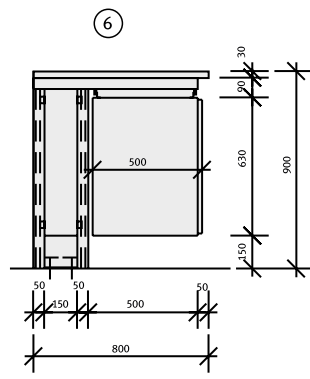
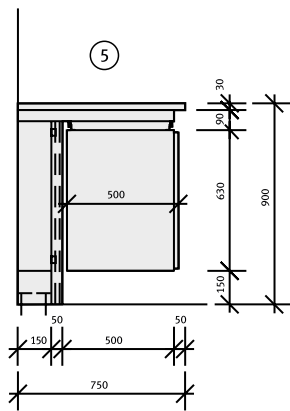
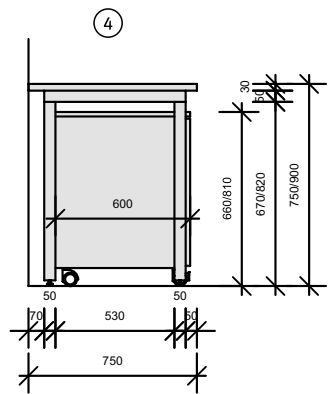
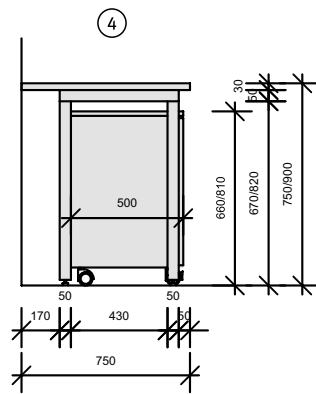
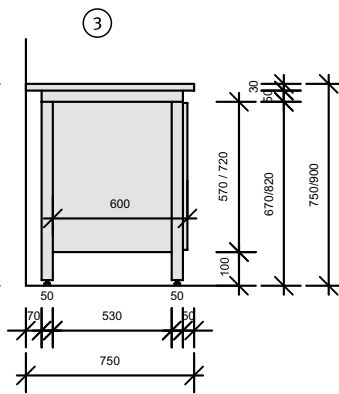
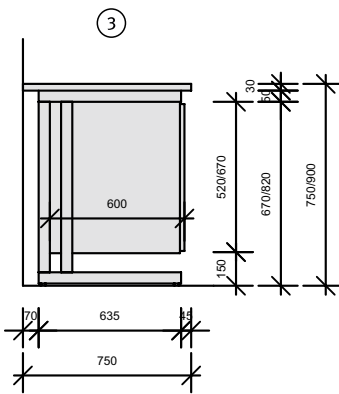
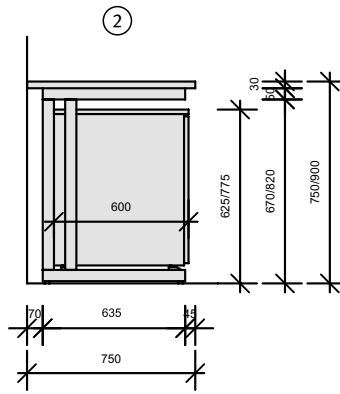
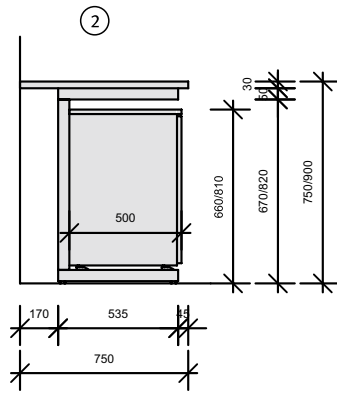
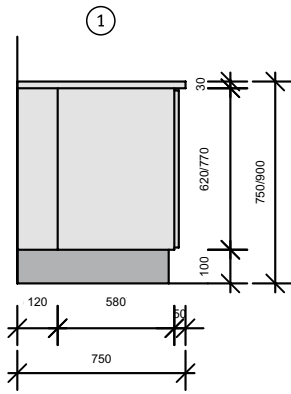
		Container	Backside container	Table channel	Suspension bridge	Stand bridge	Stand unit (Wall bench)	Stand unit (Center bench)	System stand
Small parts tray					●	●	●	●	
Cable clamp		●	●	●	●	●	●	●	●
Cable tidy		●	●	●	●	●	●	●	●
Scaffold rod holder		●	●	●	●	●	●	●	●
Pipette holder					●	●	●	●	
Paper roll holder					●	●	●	●	
Box holder					●	●	●	●	
Flat screen adapter					●	●	●	●	
Storage tray		●	●	●					
Swivel organizer		●	●	●					
Workplace lamp		●	●	●					
Telephone swivel arm		●	●	●					
Flat monitor swivel arm		●	●	●					
Groove section		●	●	●	●	●	●	●	●



Table systems



Series	36
Worktops	37
Underbench cabinets	38/39
Desk workplaces	40/41
Individual tables	42/43
Microbiology / cleanroom areas:	
System solutions	44/45



Series

- ① = Series E (economy – on plinths)
- ② = Series CF (C-frame – mobile underbench units)
- ③ = Series H (suspended underbench units)
- ④ = Series 4-leg frame (mobile underbench units)
- ⑤ = Series CL (Cantilever – wall mounted)
- ⑥ = Series CL (Cantilever – free-standing)
- ⑦ = C-section frame
- ⑧ = 4-leg frame



Melamine top, PP ridge



Stainless steel top



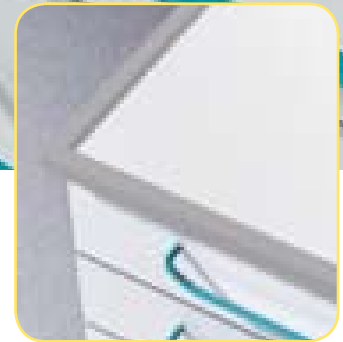
Phenolic resin



Polypropylene top



Stoneware top



Composite stoneware top

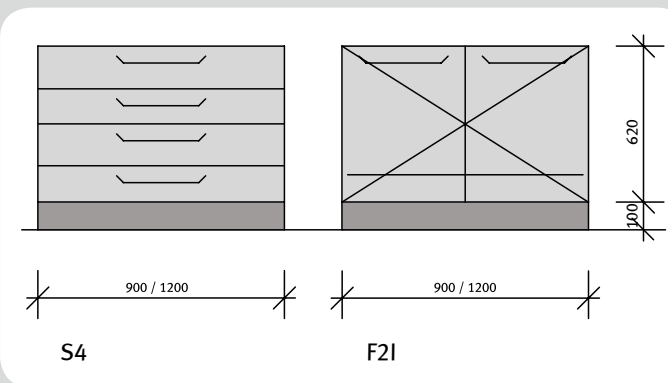
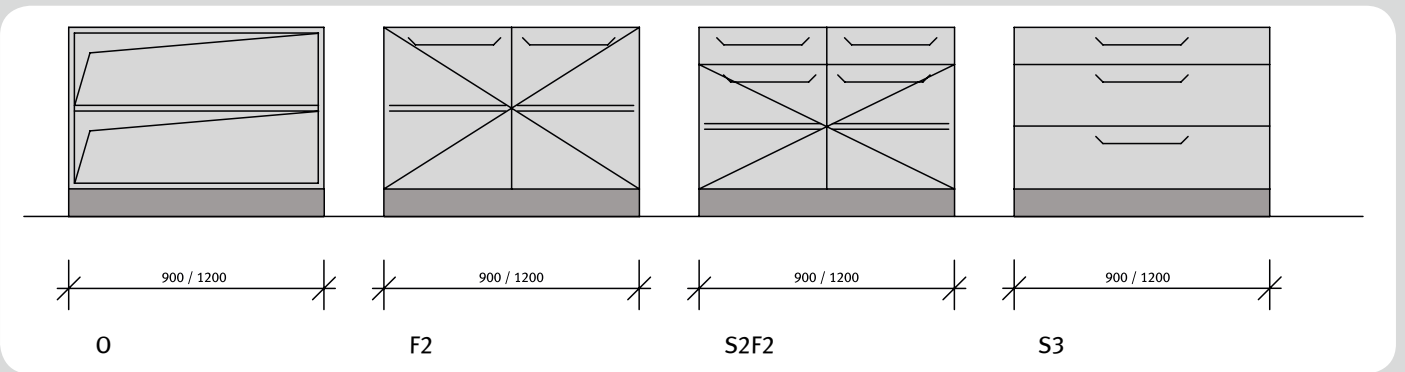
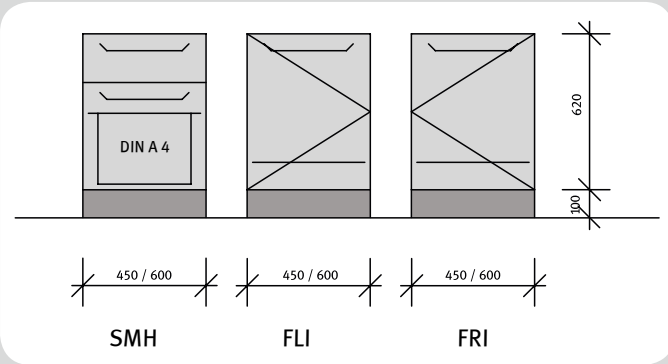
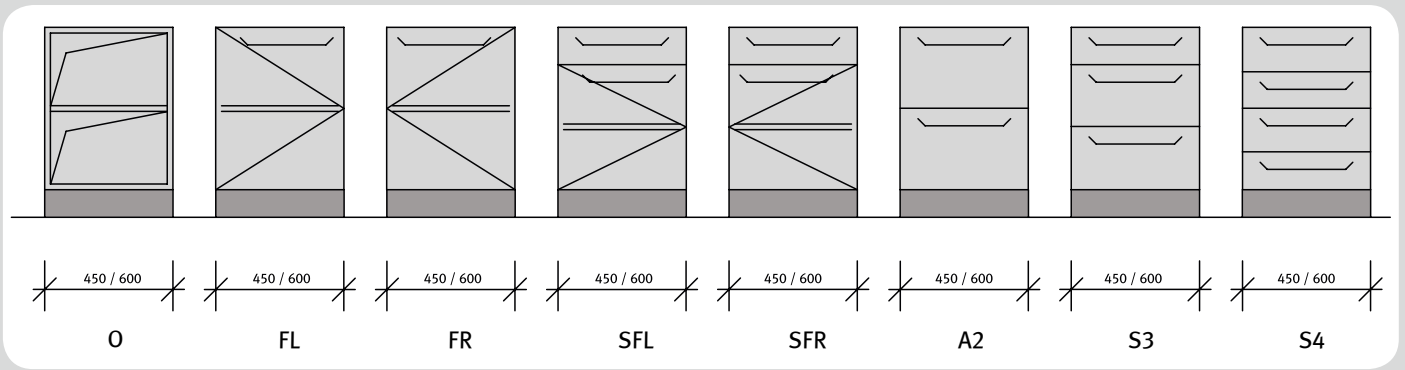


Glass top,
epoxy resin marine edge

Worktops

Other worktops

- Epoxy resin top
- Tiled top
- Phenolic resin top with formed epoxy resin marine edge
- Solid wood top (beech)
- Multiplex top
- Melamine resin postformed top



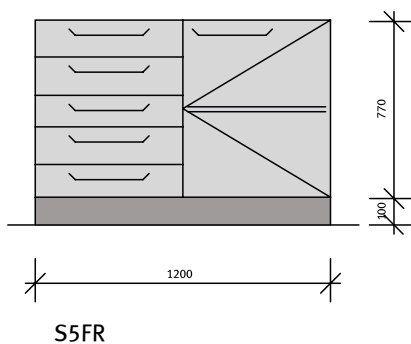
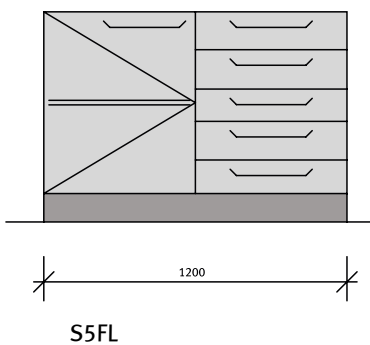
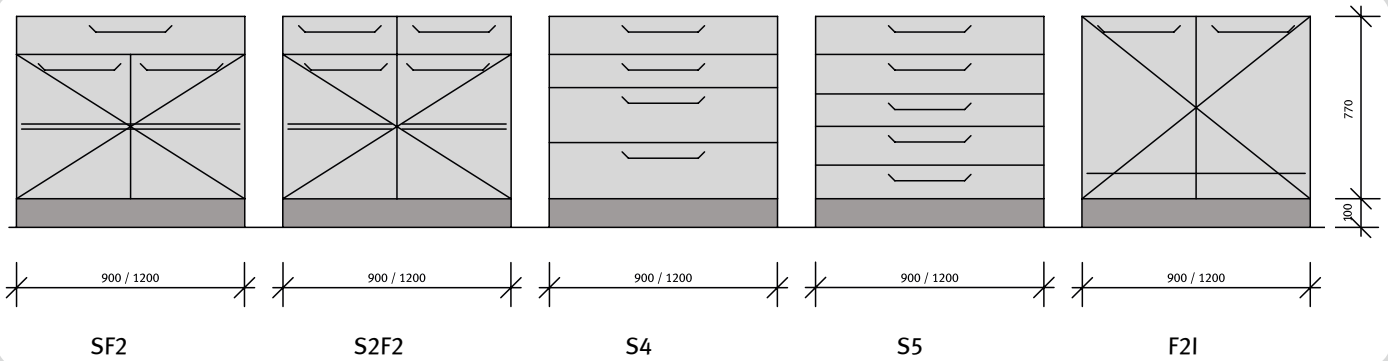
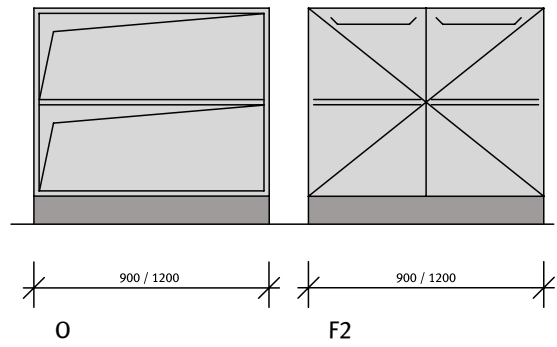
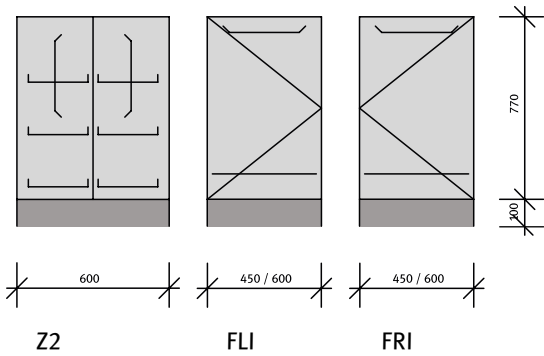
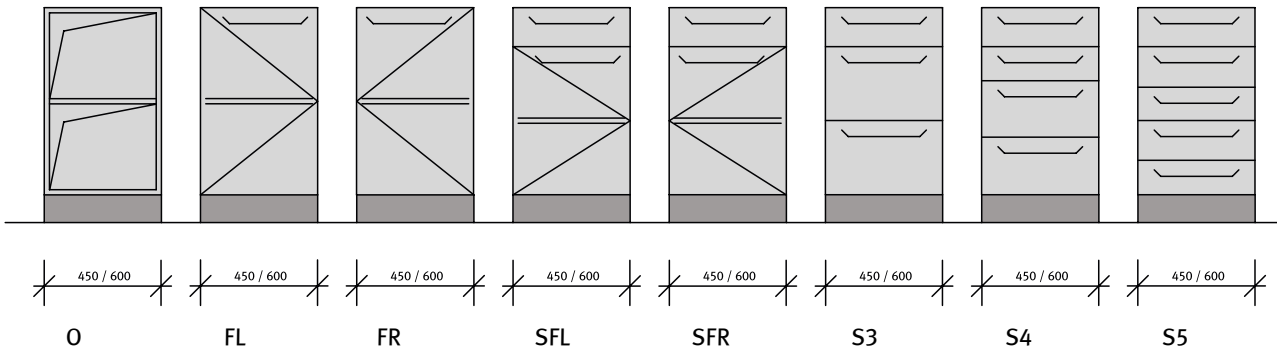
Underbench cabinets

Seated working height 750 mm
 Depth of underbench units 500 / 600 mm
 Height of plinths 100 mm

- O = Open
- FL = Door left
- FR = Door right
- SFL = Drawer, door left
- SFR = Drawer, door right
- A2 = 2 telescopic drawers
- S3 = 3 drawers
- S4 = 4 drawers
- SMH = Drawer, material drawer, file drawer with hangers
- FLI = Sink cabinet, door left
- FRI = Sink cabinet, door right
- F2 = 2 doors
- S2F2 = 2 drawers, 2 doors
- F2I = Sink cabinet, 2 doors

• Option: label holder for loop handle system

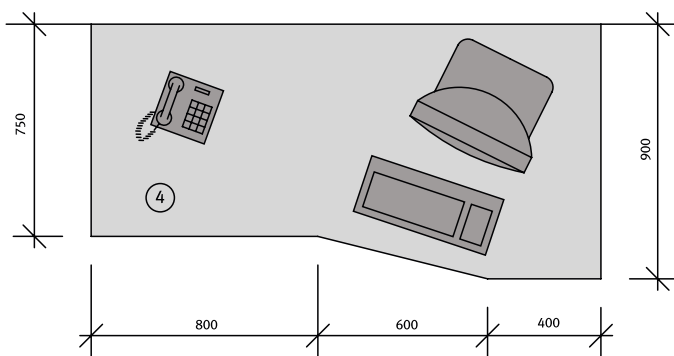
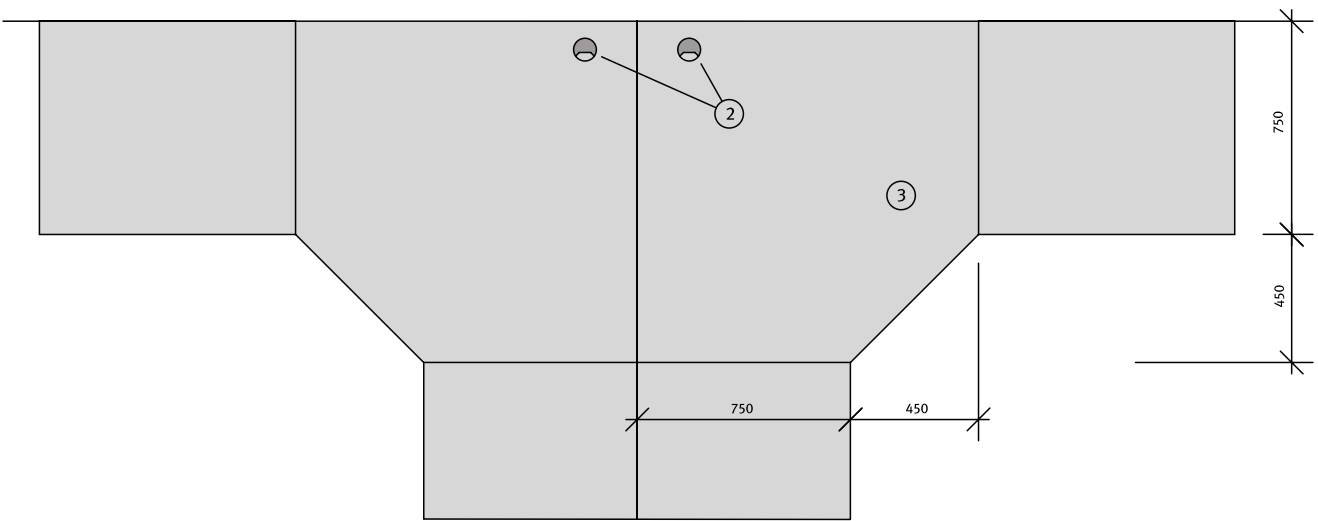
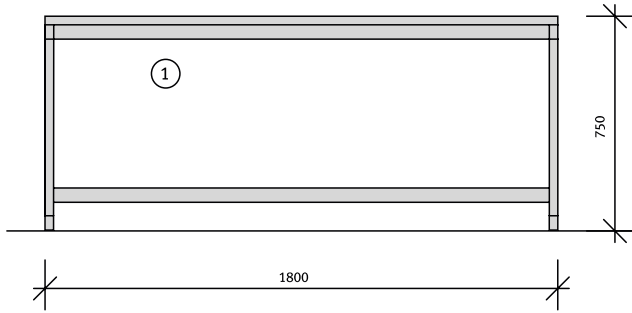
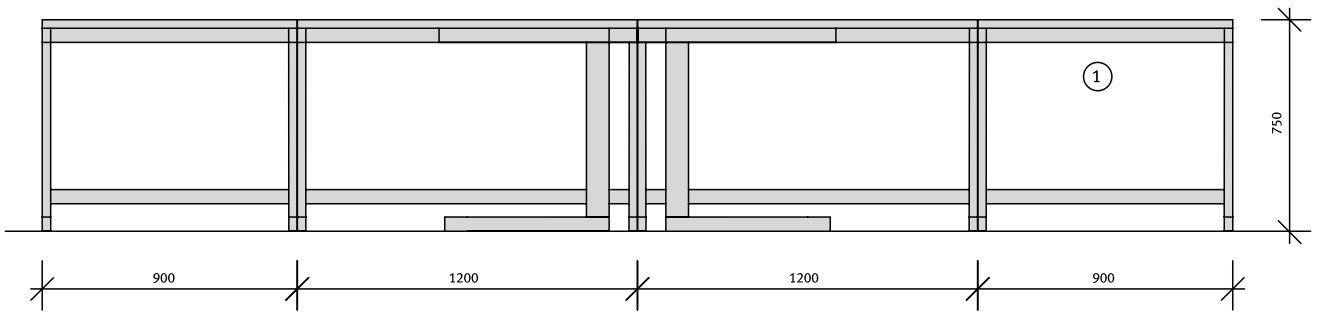




Underbench cabinets

Standing working height 900 mm
 Depth of underbench 500 / 600 mm
 Height of plinths 100 mm

- O = Open
 - FL = Door left
 - FR = Door right
 - SFL = Drawer, door left
 - SFR = Drawer, door right
 - S3 = 3 drawers
 - S4 = 4 drawers
 - S5 = 5 drawers
 - Z2 = 2 cabinet drawers
 - FLI = Sink cabinet, door left
 - FRI = Sink cabinet, door right
 - F2 = 2 doors
 - SF2 = drawer, 2 doors
 - S2F2 = 2 drawers, 2 doors
 - F2I = Sink cabinet, 2 doors
 - S5FL = 5 drawers, door left
 - S5FR = 5 drawers, door right
- Option: label holder for loop handle system

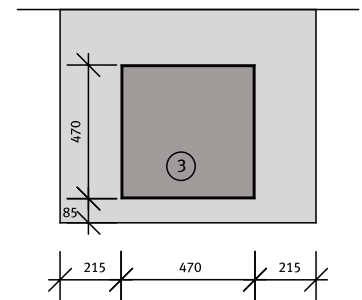
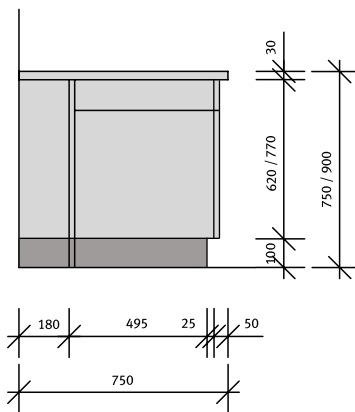
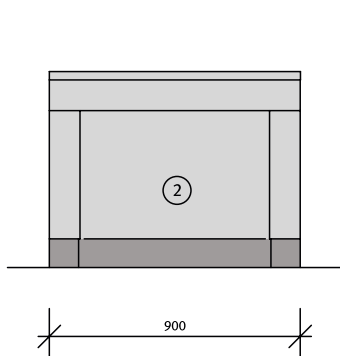
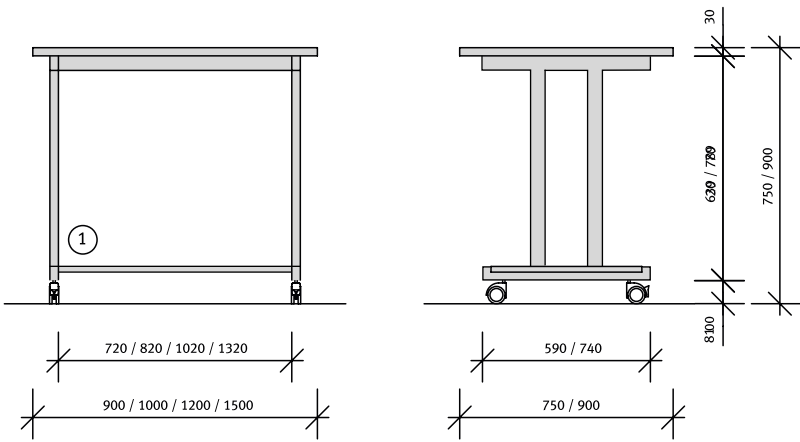


- ① = C-section frame and/or C-section frame height adjustable
- ② = Option: cable port \varnothing 80 mm
- ③ = Corner tops in various dimensions for desk workplace
- ④ = Ergo workplace



Desk workplaces

- Work tables for sitting, optionally with height adjustable table base
- Electric terminals, telephone sockets and data links inside the system channel to the side or back of the table
- System channel as an option with integrated convection grid
- Table corner solution with VDU workplace
- Underbench framework as fixed or flexible solution with mobile elements
- Various table depths available
- Because of the function grooves in the system channel an extensive range of accessories for organizing the worktops is available



- ① = Mobile table including storage shelf
- ② = Balance table with integral kneehole
- ③ = Marble top 460 x 460 mm





Individual tables

- Evaluation and add-on tables in various dimensions
- Mobile table (trolley) in different sizes
- Choice of work top materials
- Balance tables can be combined with additional underbench cabinet variations
- Rack with several levels (incl. drawer racks) for receiving equipment (900 x 1200 x 750 x 1800 mm), incl. mobile
- Table accessories such as CPU holder for tower PCs, etc.
- Chairs and stools in various different designs and for special applications

Quality standards of our cleanroom furniture

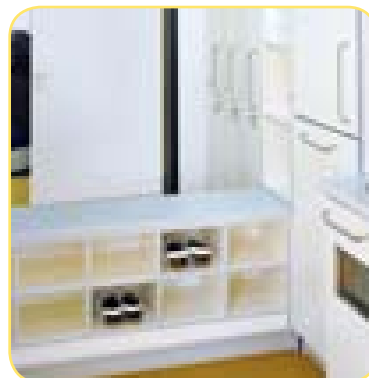
- Scratch-resistant, glossy and matt surfaces: either particle board with fine chip finishing coat according to EN 312 (all horizontal surfaces - wear resistant - with HPL coating) or high pressure laminate (HPL)
- all visible and non-visible worktop edges are protected by edge bandings

Cleanroom and growing area equipment

- Sitover benches with or without shoe compartments (one or both sides)
- Shoe racks
- Lab coat/overall racks
- Landry cabinets
- Supply cabinets (with dispenser for small articles/tilt boxes)
- Various cabinet systems for safety compartments, cleaning agents, dirty landry bins



Microbiology and cleanroom areas: System solutions



CERTIFICATE

It is hereby confirmed that the

**Bench type fume cupboard
1200 EAS**

of the manufacturer

**Wesemann GmbH & Co KG
Max-Planck-Str. 15 - 21
28857 Syke
Germany**

was tested according to

EN 14175 part 3

at the total volume flow rate of **400 m³/h**,

The details and data of the complete test procedure
are content of the type test report

FCS/EN/03/2003

which is given to the manufacturer in

06. March 2003

Tested by:
Tintschl Engineering AG
Department FCS
Goedelstr. 21
91058 Erlangen
Germany

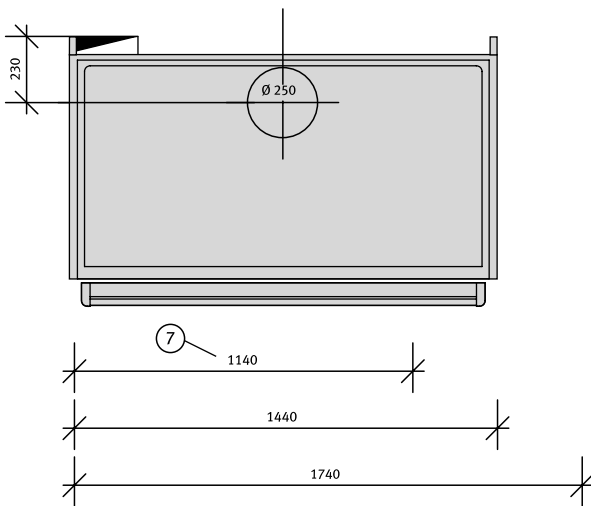
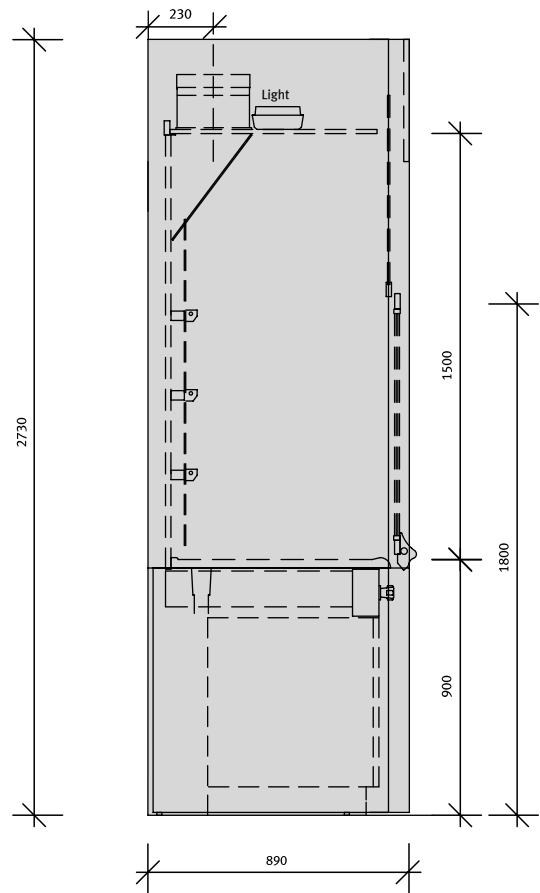
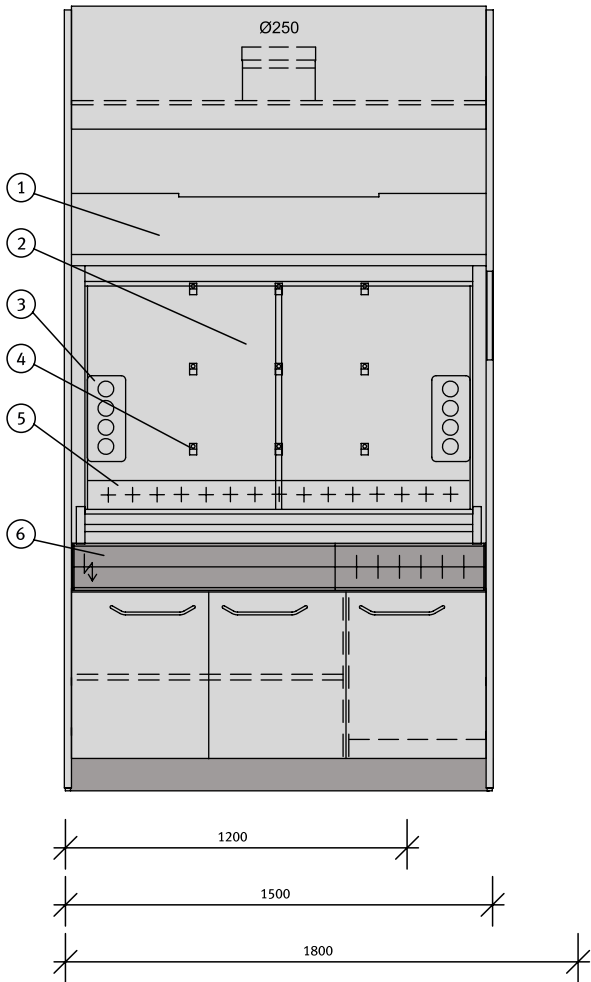


Dipl.-Ing. Bernd Schubert
Erlangen, 31. / 03 / 2003



Fume cupboard systems

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- ① = Option: Transparent front top panel with 2 cross slides
- ② = Option: front sash with 3 cross slides
- ③ = Option: sockets on the inside, operated from outside
- ④ = 3 rows of scaffold points
- ⑤ = Service fitting points
- ⑥ = Aluminium channel with electrical service outlets and remote control fittings
- ⑦ = Clear opening front width of fume cupboard

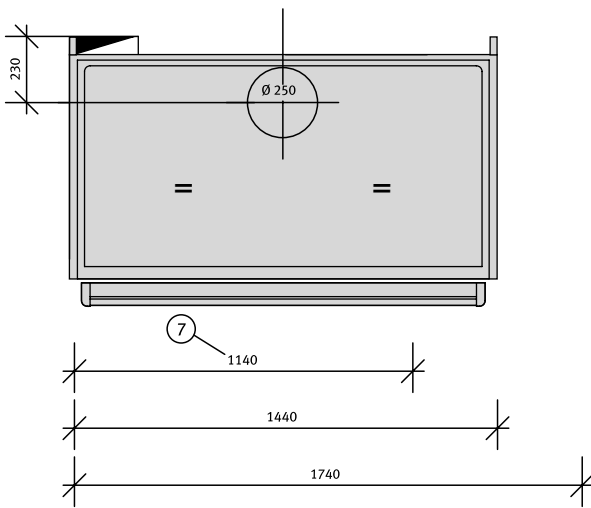
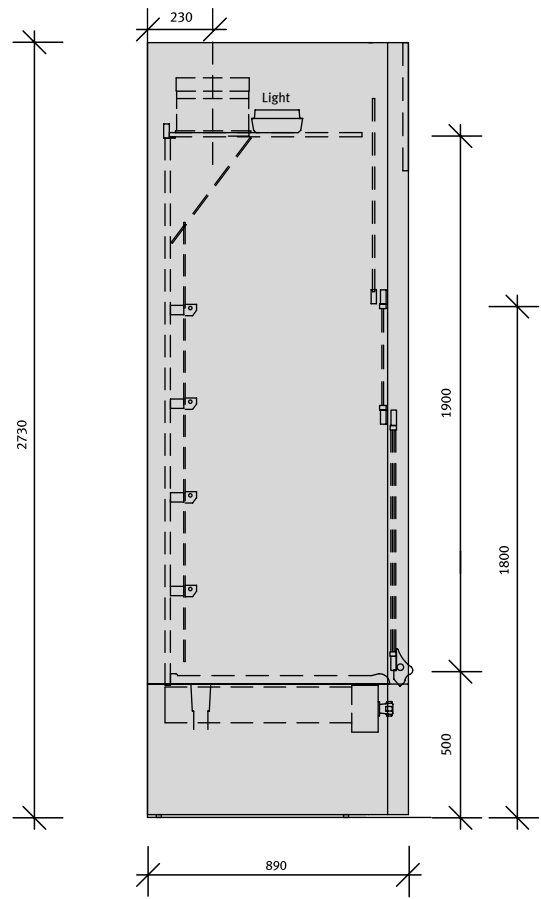
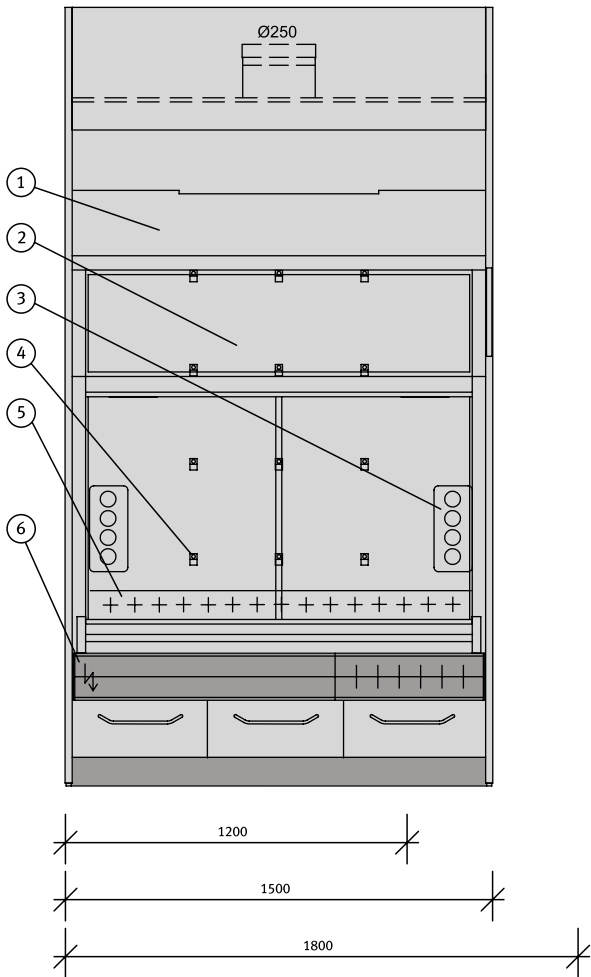
Also available as protect-type
with active supportive
flow technology



DELTAguard

Bench mounted fume cupboard

- Euro generation of fume cupboard tested and certified according to DIN EN 14175
- Optimised containment retaining capability while reducing extract airflow rates
- Worktops and interior lining as required
- Maximum use of interior due to more narrow sides of fume cupboard
- Synchronously running telescopic sash window for ease of operation
- Worktop with fixed, flow-optimised front ridge
- Exhaust air system for an all-over extraction above the workspace
- Ergonomically designed sash handle for an easy operation with twist release mechanism
- Large maintenance panels and easy to replace equipment
- Operational controls ideally and clearly arranged
- Panels for electric equipment on both sides of the interior
- High service placement possible – no interference of service and scaffold levels
- Standard battery backup for extract monitoring unit
- Function display integrated in the side wing
- Service fittings and electrical service outlets can be selected as required
- Scaffold points on the back panel
- Solvent storage or acid storage under fume cupboard units as an option
- Extensive range of accessories and options, e.g. automatic electric sash closure



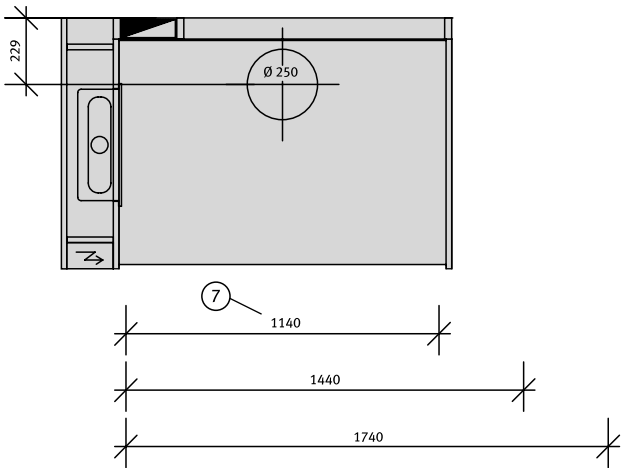
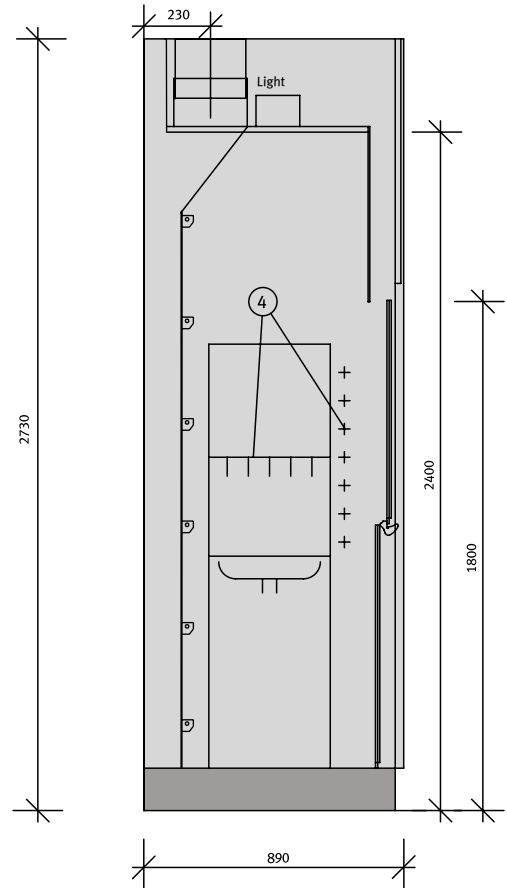
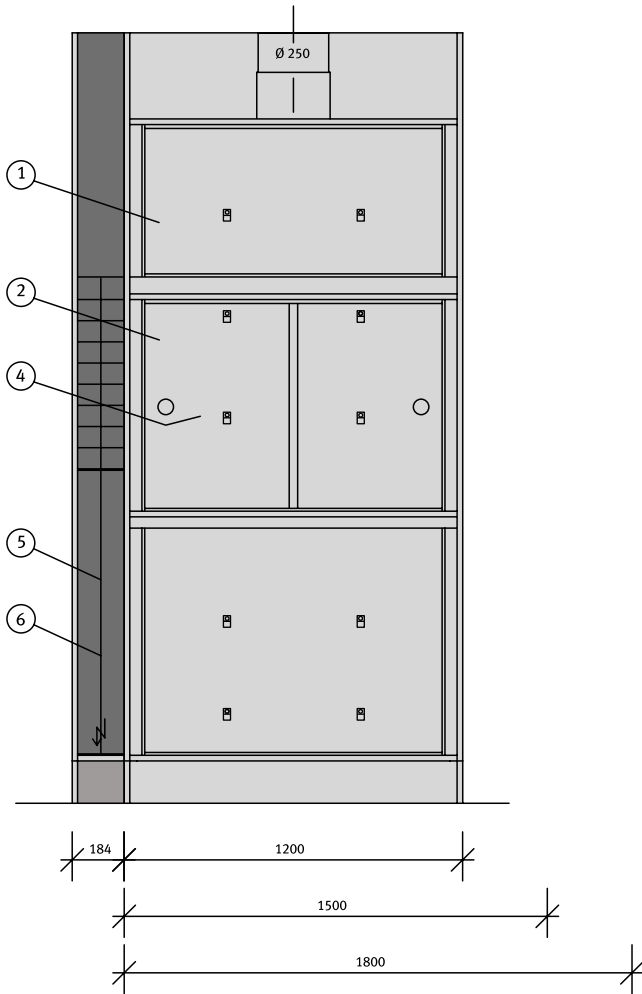
- ① = Option: Transparent front top panel with 2 cross slides
- ② = Option: front sash with 3 cross slides
- ③ = Option: sockets on the inside, operated from outside
- ④ = 4 rows of scaffold points
- ⑤ = Service fitting points
- ⑥ = Aluminium channel with electrical service outlets and remote control fittings
- ⑦ = Clear opening front width of fume cupboard



DELTAguard

Low level fume cupboard

- Euro generation of fume cupboard tested and certified according to DIN EN 14175
- Optimised containment retaining capability while reducing extract airflow rates
- Worktops and interior lining to suit users requirements
- Maximum use of interior space due to more narrow sides of fume cupboard
- Synchronously running telescopic sash window for ease of operation
- Worktop with fixed, flow-optimised front ridge
- Exhaust air system for an all-over extraction above the workspace
- Ergonomically designed sash handle for an easy operation
- Large maintenance panels and easy to replace equipment
- Operational controls ideally and clearly arranged
- Panels for electric equipment on both sides of the interior
- High service placement possible – no interference of service and scaffold levels
- Standard battery backup for extract monitoring unit
- Function display integrated in the side wing
- Service fittings and electrical service outlets can be selected as required
- Scaffold points on the back panel
- Extensive range of accessories and options, e.g. automatic electric sash closure



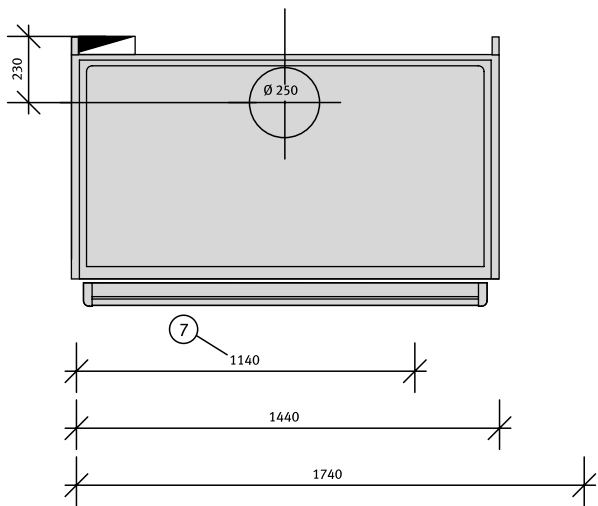
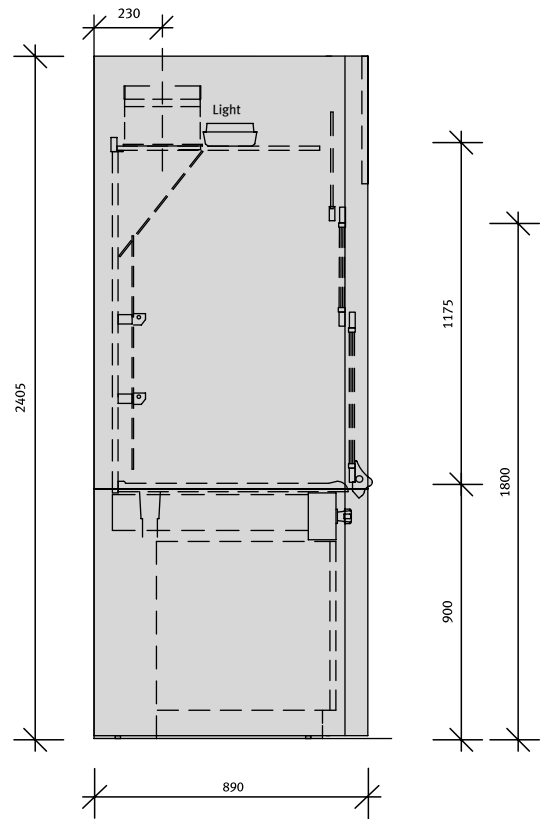
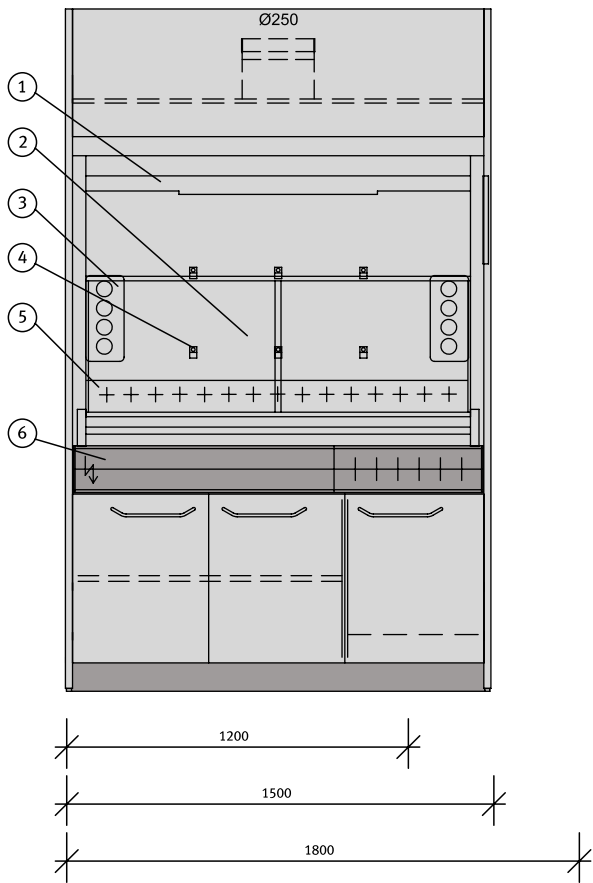
- ① = Option: Transparent front top panel with 2 cross slides
- ② = Option: front sash with 3 horizontal glass panels
- ③ = Option: sockets on the inside, operated from outside
- ④ = 6 rows of scaffold points
- ⑤ = Service fitting points
- ⑥ = Aluminium channel with electrical service outlets and remote control fittings
- ⑦ = Clear opening front width of fume cupboard



DELTAguard

Walk-in fume cupboard

- Euro generation of fume cupboard tested and certified according to DIN EN 14175
- Optimised containment retaining capability while reducing extract airflow rates
- Interior lining as required
- Maximum use of interior space due to more narrow sides of fume cupboard
- Synchronously running telescopic sash window for ease of operation
- Ergonomically designed sash handle for an easy operation
- Large maintenance panels and easy to replace equipment
- Operational controls ideally and clearly arranged
- High position of service outlets possible
- Standard battery backup for extract monitoring unit
- Function display integrated in the side wing
- Optionally available with lateral energy supply
- Service fittings and electrical service outlets can be selected as required
- Extensive range of accessories and options, e.g. automatic electric sash closure



- ① = Option: Transparent front top panel with 2 cross slides
- ② = Option: front sash with 3 cross slides
- ③ = Option: sockets on the inside, operated from outside
- ④ = 2 rows of scaffold points
- ⑤ = Service fitting points
- ⑥ = Aluminium channel with electrical service outlets and remote control fittings
- ⑦ = Clear opening front width of fume cupboard

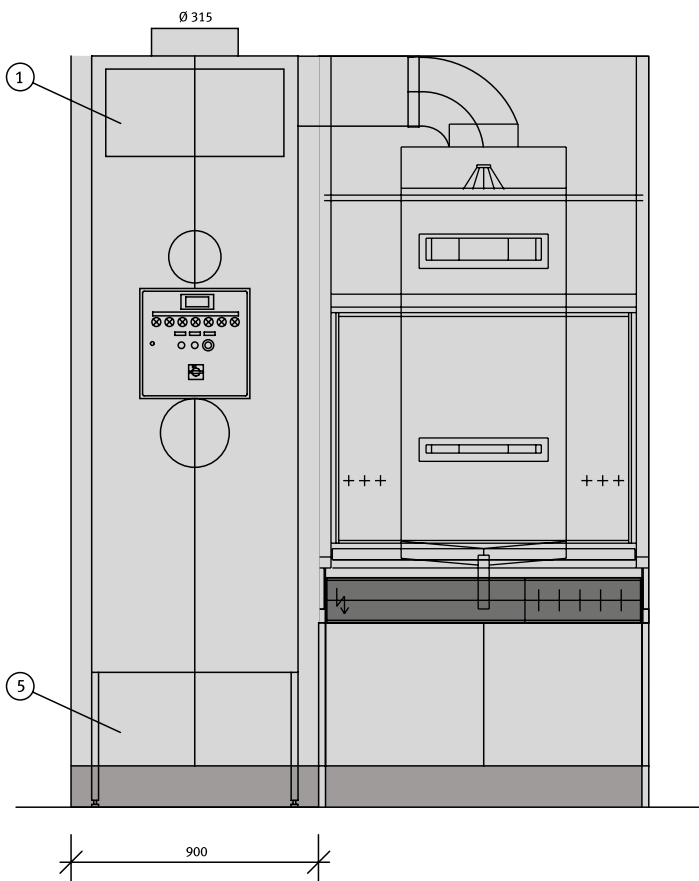
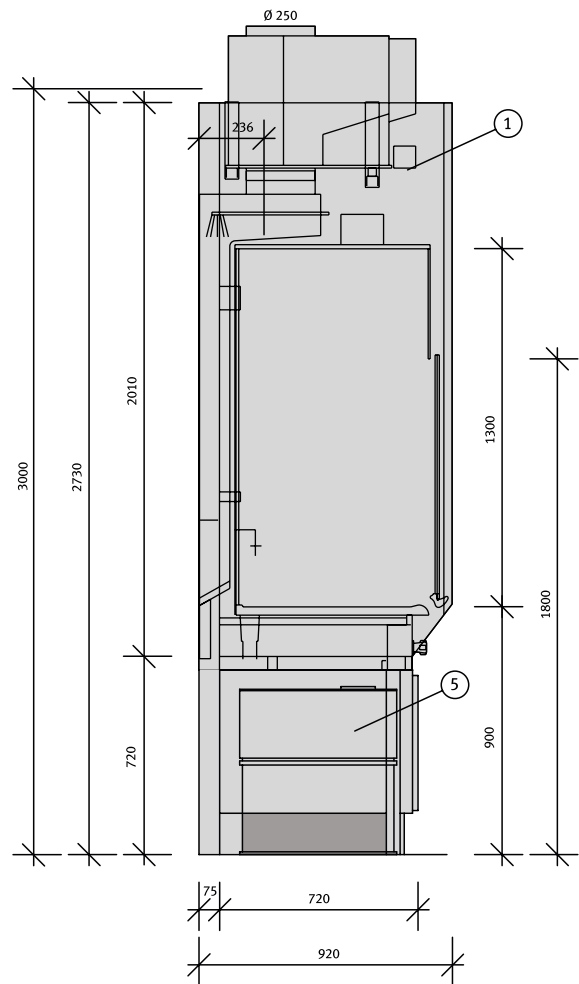
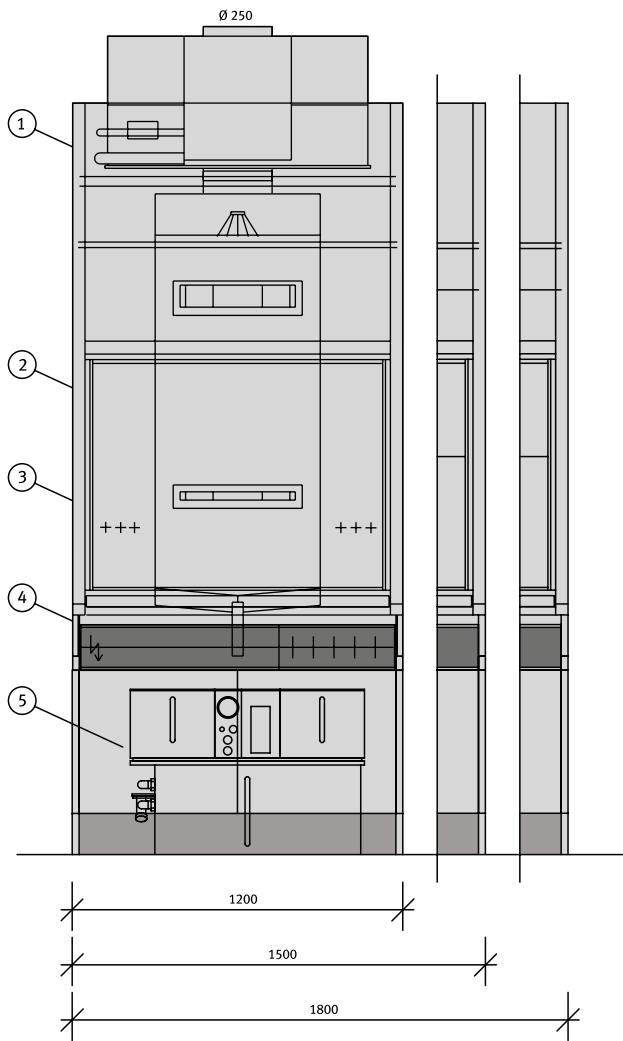
Also available as protect-type
with active supportive
flow technology



DELTAguard

Low ceiling bench mounted fume cupboard

- Euro generation of fume cupboard tested and certified according to DIN EN 14175
- Optimised containment retaining capability while reducing extract airflow rates
- Worktops and interior lining to suit users requirements
- Maximum use of interior space due to more narrow sides of fume cupboard
- Optimised use of space due to an overall height of only 2405 mm
- Synchronously running telescopic sash window for ease of operation
- Worktop with fixed, flow-optimised front ridge
- Exhaust air system for an all-over extraction above the workspace
- Ergonomically designed sash handle for an easy operation with twist release mechanism
- Large maintenance panels and easy to replace equipment
- Operational controls ideally and clearly arranged
- Panels for electric equipment on both sides of the interior
- High service placement possible – no interference of service and scaffold levels
- Standard battery backed extract monitoring unit
- Function display integrated in the side wing
- Service fittings and electrical service outlets can be selected as required
- Scaffold points on the back panel
- Solvent storage or acid storage under fume cupboard unit as an option
- Extensive range of accessories and options, e.g. automatic electric sash closure

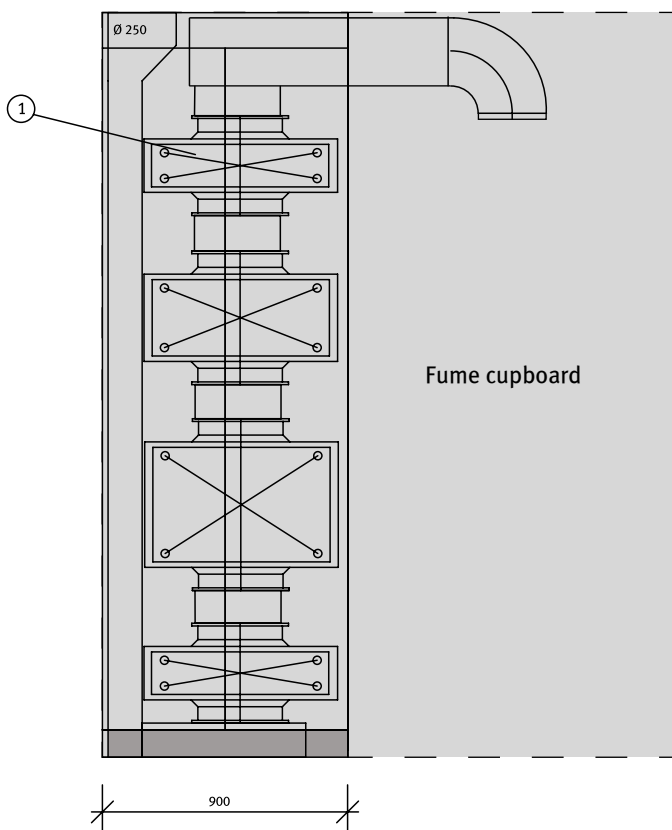
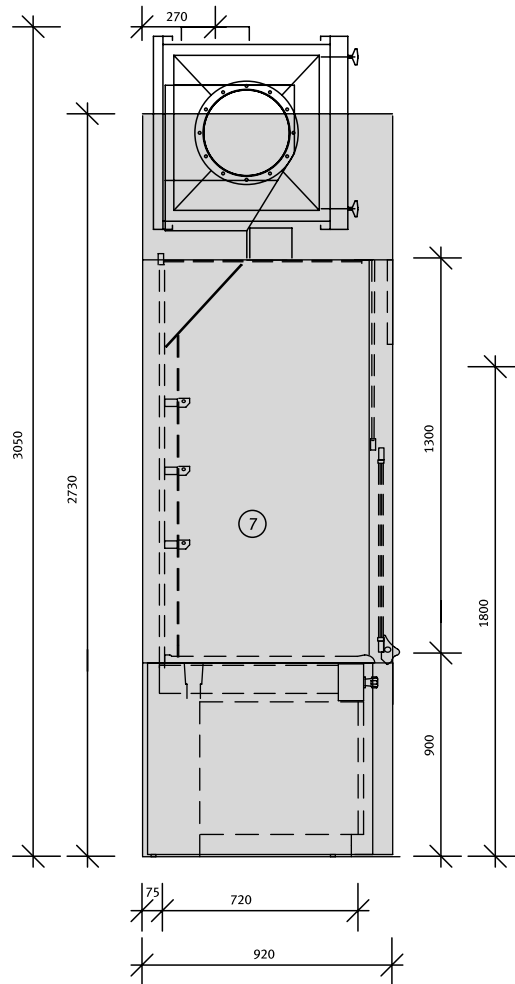
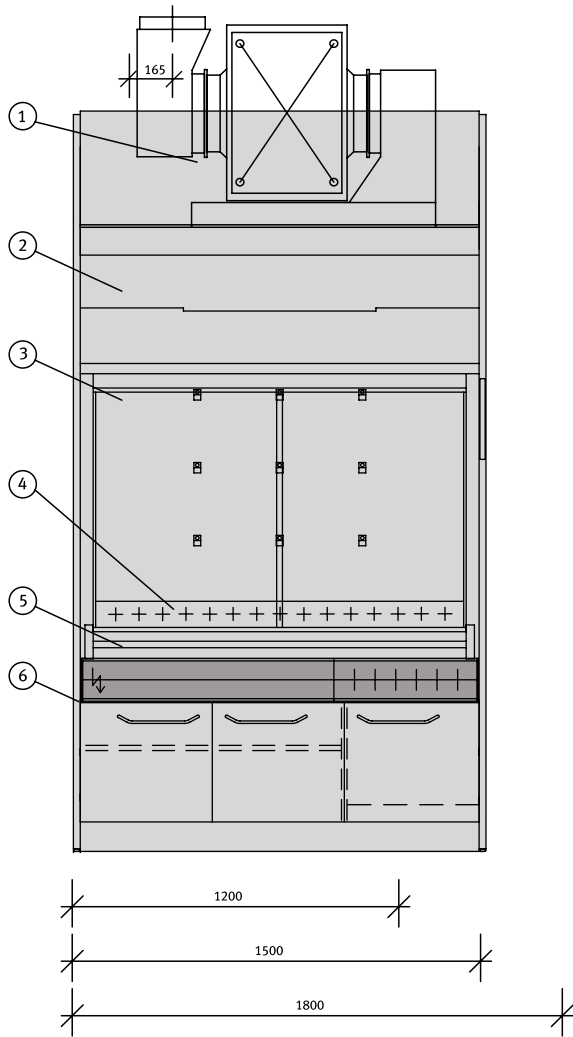


- ① = Option: waste air scrubber on the top of the fume cupboard or next to it in a separate cabinet
- ② = Option: interior lining in stoneware or polypropylene
- ③ = Service fitting points
- ④ = Aluminium channel with electrical service outlets and remote control fittings
- ⑤ = Option: neutralisation plant in connection with scouring apparatus for harmful gases



Special application (acid) fume cupboard

- Tested and certified according to DIN 12924 part 2, issue 2007-04 for thermal loads
- Worktops and acid-proof interior lining with few joints as required
- Large opening through narrow guide sections (side wing)
- Function display integrated in the side wing
- Special air baffle for rapid discharge of thermal loads
- Optional back wall channel with direct extraction and sprinkling for work with extreme acid loads
- Designed for the use of waste air scrubbers of harmful gases directly above the fume cupboard
- DIN 12924 part 2 recommends fitting an waste air scrubber
- Modular design with self-supporting back wall cell, high stability even when installed as stand-alone
- Flow section attached to the worktop without joints
- Solvent storage or acid storage under fume cupboard unit as an option
- Service fittings and electrical service outlets can be selected as required
- Extensive range of accessories and options, e.g. automatic electrical sash closure

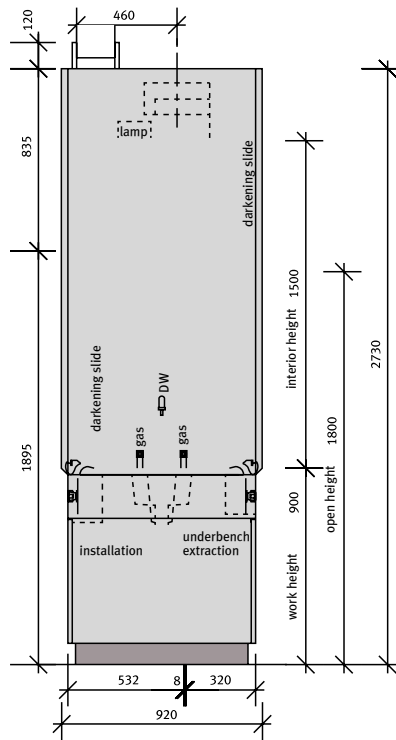
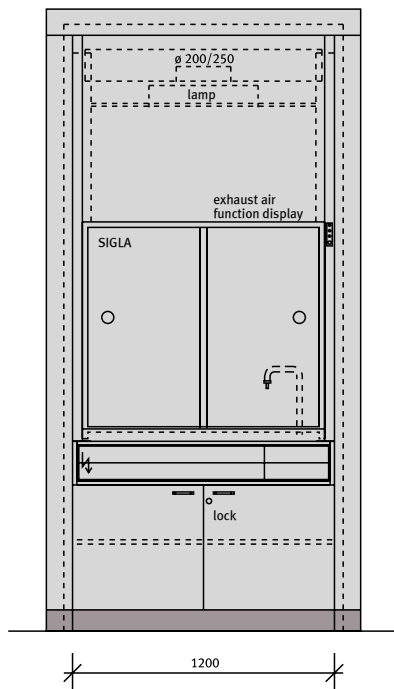
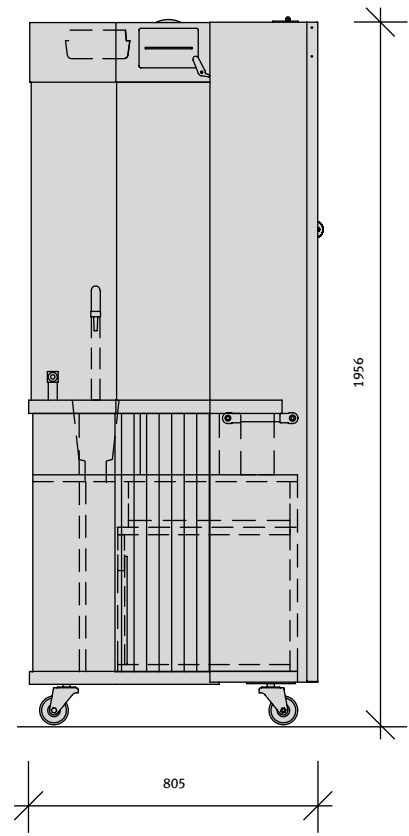
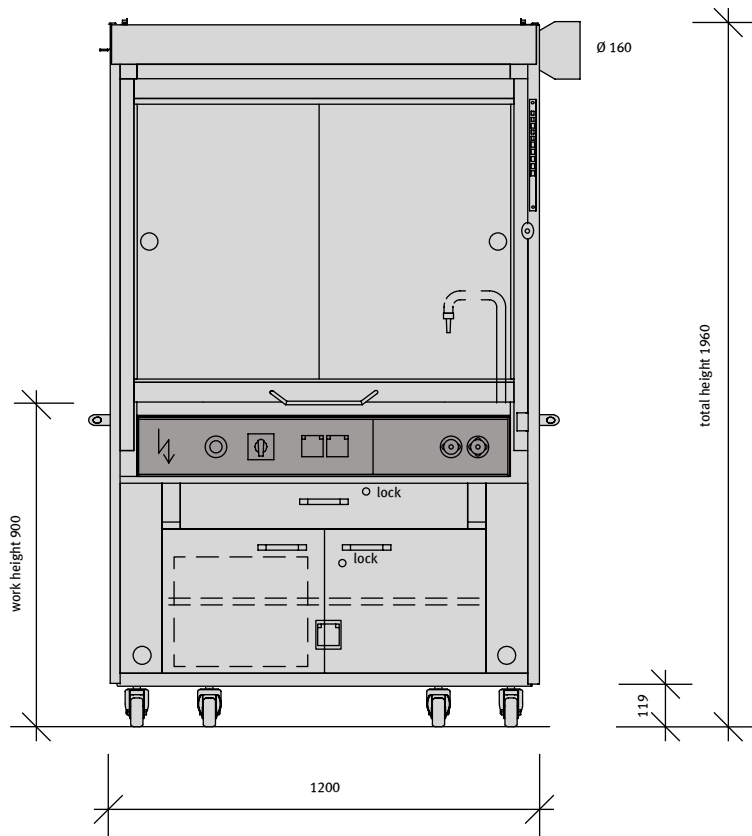


- ① = Option: filtering system (exception: above the fume cupboard), ideally a separate filter cabinet containing 3 to 4 filtering stages is placed next to the fume cupboard
- ② = Option: interior lining in stainless steel or polypropylene
- ③ = Front sash made from Macrolon / acrylic glass in one part, Option: openings for reaching inside
- ④ = Service fitting points
- ⑤ = Aluminium channel with electrical service outlets and remote control fittings
- ⑥ = Option: heavy-load support frame
- ⑦ = Option: screen against gamma and beta rays



Radio-isotope fume cupboard

- In accordance with DIN 25466 and DIN EN 14175
- Worktops and smooth interior lining that can be decontaminated easily depending on requirements
- Optional screening of interior and worktop for any application
- Large opening through narrow guide sections (side wing)
- Function display integrated in the side wing
- Interior with top and bottom extraction
- Multi-stage filtering system above the fume cupboard or inside a separate filter cabinet
- Modular design with self-supporting back wall cell, high stability even when installed as stand-alone
- Joint-less flow section attached to the worktop
- Various disposal concepts can be integrated into the underbench cabinet
- Service fittings and electrical service outlets can be selected as required
- Extensive range of accessories and options, e.g. automatic, electrical sash closure
- Liquid waste collection system to specific requirements, e.g. PE or CNS container





Fume cupboards: Special applications

- Mobile fume cupboard (with excellent visibility)
- Pass-through fume cupboard
- Fume cupboard with integral sink
- Fume cupboard with fittings on side walls (double skin – one or both sides)
- Fume cupboard with fittings on sidewings (one or both sides)
- Fume cupboard with integrated asset protecting extinguishing system (night mode)

DELTAcontrol: the convenient fume cupboard management for laboratories and complete buildings



1. Reliable: the air-volume monitoring system

This is how DELTAcontrol regulates the air exchange rate in the fume cupboard: a differential pressure sensor controls the exhaust air rate, balances the different duct pressure ratios and provides a steady signal to control the air supply

in the room. This ensures a perfect adjustment of the volume flow rate even when horizontal sliding sash of the fume cupboard is open.



2. Highly sensitive: the air intake sensor

A highly sensitive air intake sensor controls the face velocity and detects all changes at the fume cupboard's horizontal and vertical openings. Even thermal air flows inside the fume cupboard are safely discharged by automatically increasing the air exchange rate.



3. Quick reacting: the motorised damper

All components of the motorised damper are made from plastic to provide maximum resistance against aggressive exhaust air. A drive system specially conceived for this task ensures that the sensors' signals are quickly

and precisely executed. The control parameters provide a stable regulation without overshooting.



4. Safe: the automatic windows

Fume cupboard windows open easily by the push of a button. A motion detector automatically closes the windows of fume cupboards not in use to ensure the planned energy savings.



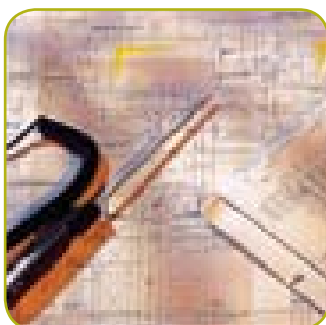
5. Always in reach: the emergency stop switch

The fume cupboard is equipped with an emergency stop switch which immediately increases the exhaust air flow rate to remove all harmful substances from the fume cupboard regardless the window aperture.



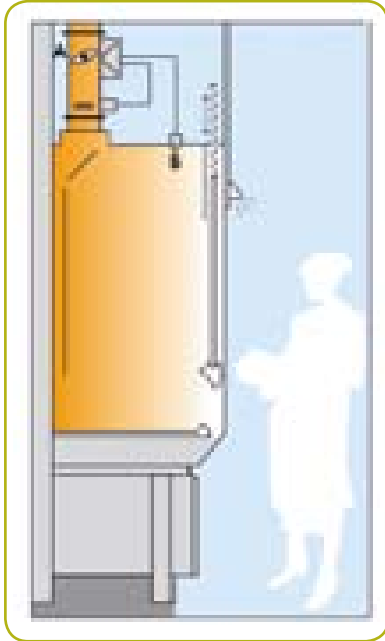
6. Powerful: the adding unit controller

For lab configurations of more than 4 fume cupboards in one room. The adding unit controller coordinates the performance of all cupboards with exact control signals in order to balance the room's supply air. This ensures constant barometric pressure within even complex laboratory configurations.



7. Compatible: the fume cupboard management for laboratory rooms

As a network based control system, DELTAcontrol can coordinate all air management modules like fume cupboards and evacuation systems of one or several laboratories reliably and safely. DELTAcontrol can be easily integrated in existing air conditioning and air management systems and comes with all system-dependent parameters preset to ensure a quick and simple start of operation.



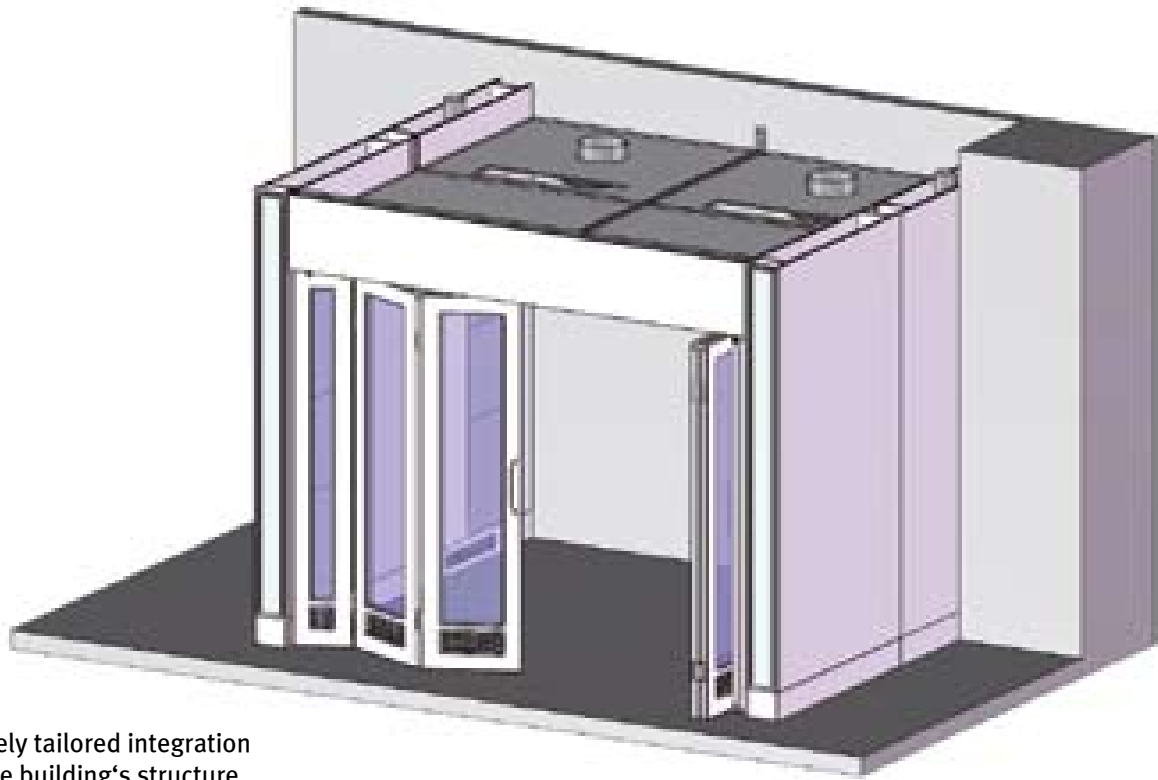
A: Air exchange rate control with differential pressure manometer
B: Flow sensor



DELTAcontrol

For all **DELTA** type fume cupboards

- Exhaust air volume is controlled according to the free inflow area, both with vertical, horizontal or combined front sash opening as well as side sash opening
- Energy savings and increased safety at work without compromising easy of use
- System solutions for achieving optimal room air balance
- Controlled electrically or pneumatically
- Fast electronic control with full integration into building process control technique, via LON bus technology or conventionally via analogue signals
- Direction sensitive inflow sensor ensure constant laminar flow conditions and automatic discharge of thermal loads in the interior of the fume cupboard
- Vmax switch for increasing exhaust air volume in the event of an emergency, particularly with the front sash closed
- Real system solution, in which all exhaust air, inlet air, drive and control components are matched to each other
- Automatically closing front sash for increased protection and safe realisation of the planned room air balance, with movement detector and options such as foot-operated switch available as optional extra



Precisely tailored integration
into the building's structure





DELTA bigbox

- System solution for equipment with medium emissions
- Thanks to the modular design dimensions adapt perfectly to the equipment, which makes the system very economic
- Access via horizontal sash, hinged, folding or sliding doors, closed or with glazing
- Exhaust performance and air distribution according to process requirements
- Variable service and energy supply
- Installations as required by the user, e.g. scaffoldings or alarm systems





Engineered Enclosures

Customisable enclosures with flexible, modular design for:

- Apparatus/appliances (shatter protection/splash protection)
- Automated robotics workplaces/processes
- Pipetting/liquid handling workstations
- High throughput screening
- HPLC appliances
- Handling and decanting hazardous substances (solvents)
- Weighing
- Working with dust and powders
- Other laboratory automation processes
- Measurement workplace (Faraday cage)
- Pass-through



Storage cabinet systems



Full height storage cabinets

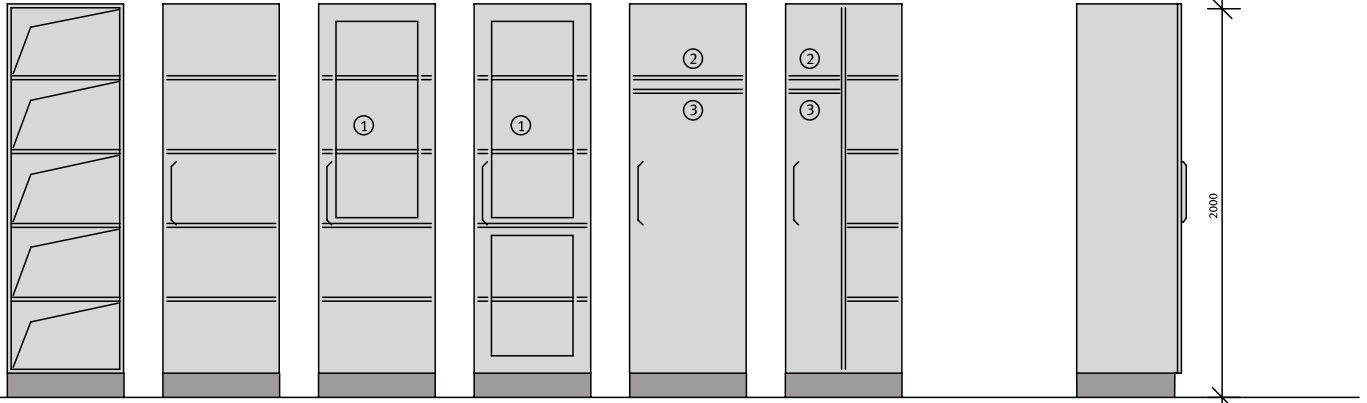
70/71

Exhaust storage cabinets

72/73

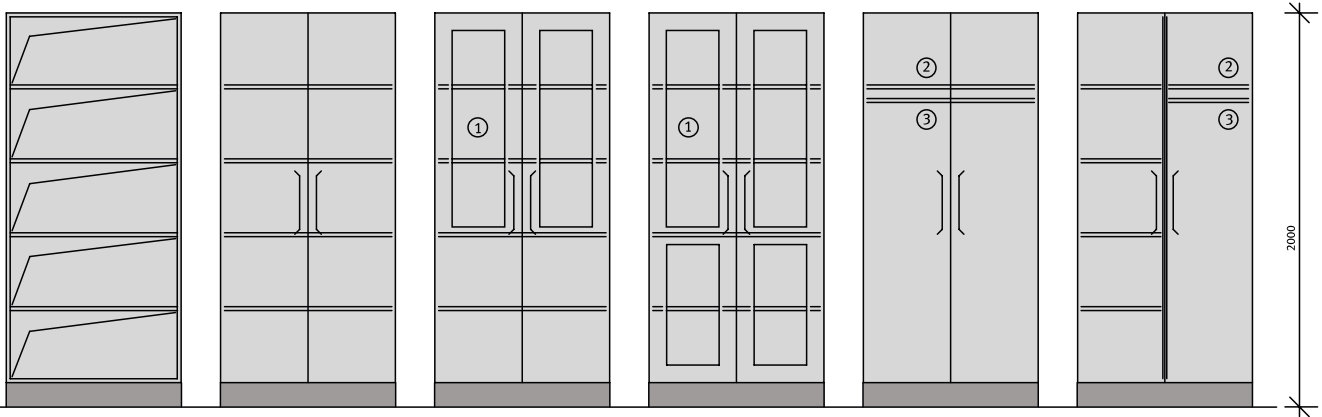
Wall mounted storage cabinets

74/75



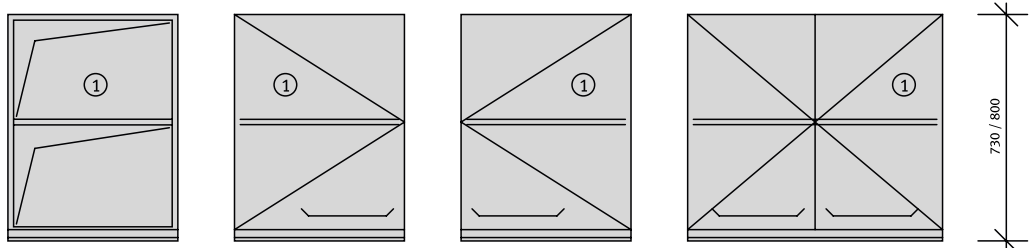
450 / 600 450 / 600 450 / 600 450 / 600 450 / 600 450 / 600 380/500/600

SO SFR SFL SFTR SFTL SFVR SFVL SGR SGL SGGR SGGL



900 / 1200 900 / 1200 900 / 1200 900 / 1200 900 / 1200 900 / 1200

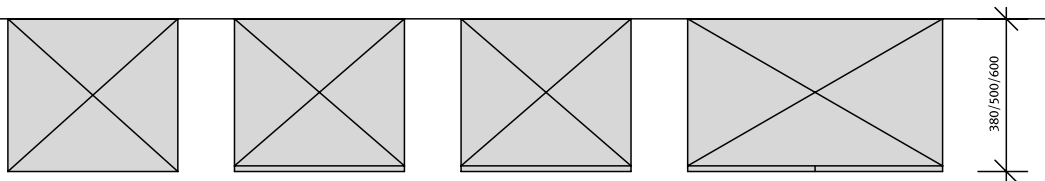
SO SF2 SFT2 SFV2 SG2 SGG2



450 / 600 450 / 600 450 / 600 900 / 1200

900 / 1200

AO AFL AFR AF2



① = Option: without ladder section

- AO = top mounted cabinet, open
- AFL = top mounted cabinet, hinged door, left
- AFR = top mounted cabinet, hinged door, right
- AF2 = top mounted cabinet, 2 hinged doors

SO = Storage cabinet, open
 SFR = Storage cabinet, hinged door, right
 SFL = Storage cabinet, hinged door, left
 SFTR = Storage cabinet, hinged part glazed door, right
 SFTL = Storage cabinet, hinged part glazed door, left
 SFVR = Storage cabinet, hinged fully glazed door, right
 SFVL = Storage cabinet, hinged fully glazed door, left
 SGGR = Tall storage cabinet, divided, right
 SGGL = Tall storage cabinet, divided, left
 SGR = Tall storage cabinet, right
 SGL = Tall storage cabinet, left
 SF2 = Storage cabinet, 2 hinged doors
 SFT2 = Storage cabinet, 2 hinged part glazed doors
 SFV2 = Storage cabinet, 2 hinged fully glazed doors
 SG2 = Tall storage cabinet, 2 hinged doors
 SGG2 = Tall storage cabinet, divided, 2 hinged doors

① = Option: glazing with laminated safety glass
 ② = Shelf
 ③ = Clothes rail

Accessories



Ladder rail



Parking rail



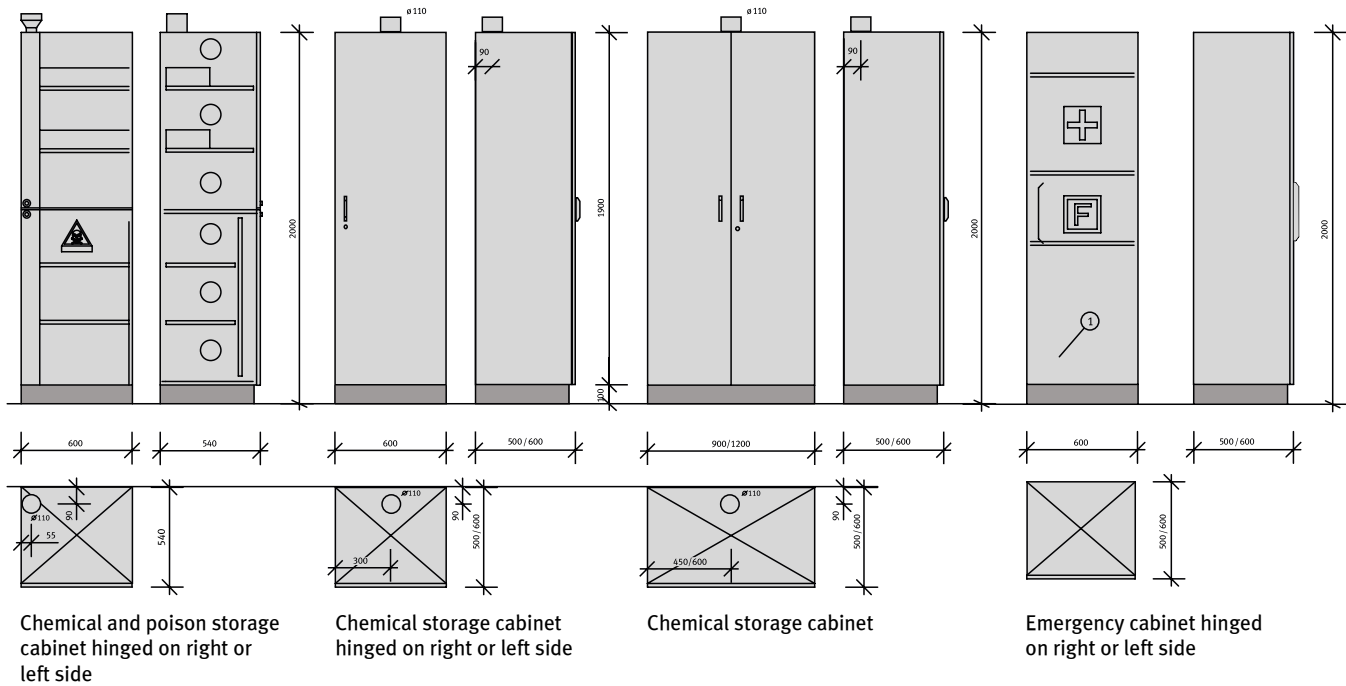
Partition wall system



Lean-to ladder

Full height storage cabinets

- Can be used as single cupboard, wall cupboards, cupboard unit or room divider
- Full hinged or sliding doors, part glazed or fully glazed
- Top cabinets always come with integrated aluminium ladder rail in a space-saving design
- Optional ladder with parking rail
- Extensive range of extras, design versions and options such as additional shelves, pull-out shelves, interior drawers, suspended filing compartment are available
- Can be extended by partition wall system



Chemical and poison storage cabinet hinged on right or left side

Chemical storage cabinet hinged on right or left side

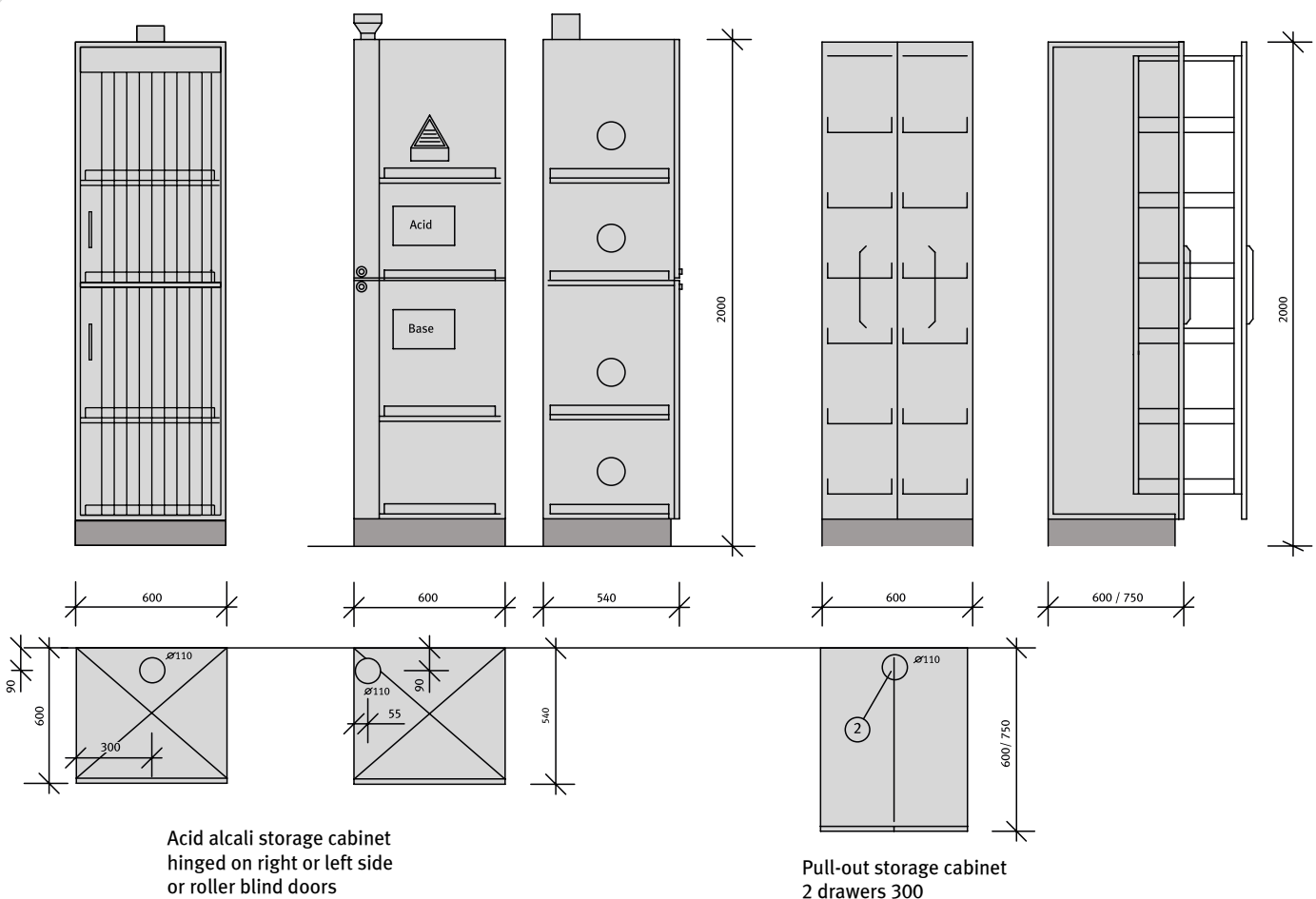
Chemical storage cabinet

Emergency cabinet hinged on right or left side

① = Option: safety equipment

- 1 first aid box 400 X 350 X 110
- 1 fire extinguisher 12 kg
- 2 fire blankets
- 2 Grit bucket
- 1 Grit shovel
- 1 First aid instructions

② = Option: outlet spigot Ø 110 mm



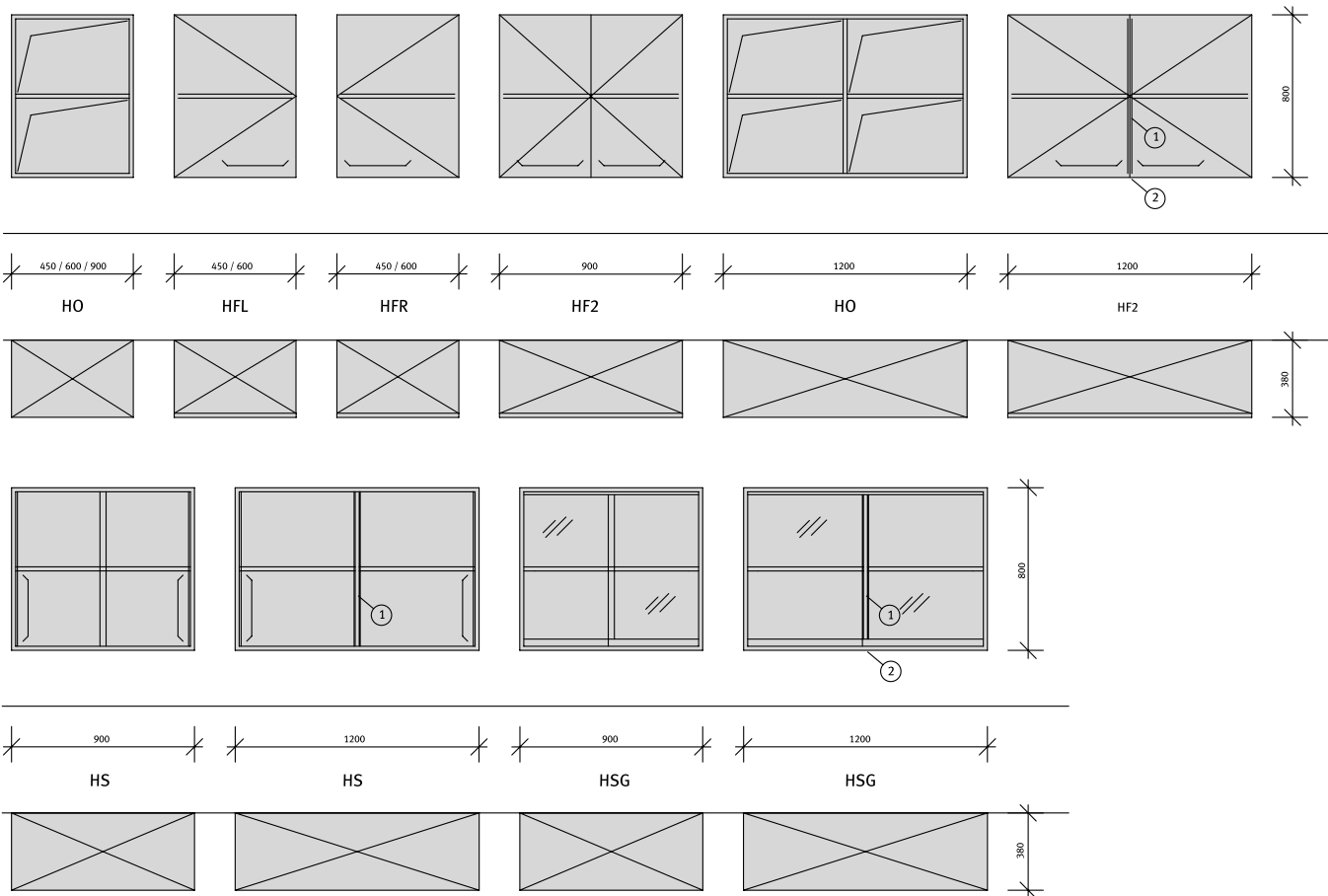
Acid alkali storage cabinet hinged on right or left side or roller blind doors

Pull-out storage cabinet 2 drawers 300



Exhaust storage cabinets

- Pull-out storage cabinets in two different depths
- Hazardous materials storage cabinets, can be integrated into wall cabinets
- Complete range of type 90 safety cabinets in different sizes for storage of hazardous materials according to DIN EN 14470-1 (type 90) and TRGF 20 (appendix L)
- Alkaline and acid storage cabinets with individual compartment extraction
- Fire-resistant gas cylinder carriage in different sizes, with or without piping (type 90)
- Extensive range of optional extras, design variants and options available



HO = Wall mounted shelf, open

HFL = Wall mounted storage cabinet, hinged door, left

HFR = Wall mounted storage cabinet, hinged door, right

HF2 = Wall mounted storage cabinet, 2 hinged doors

HSG = Wall mounted storage cabinet, sliding door, glass

HS = Wall mounted storage cabinet, sliding doors

HFG = Wall mounted storage cabinet, hinged door, glass (not shown)

① = Wall mounted storage cabinet , grid 1200 generally with centre wall

② = Option: integrated ladder rail for wall mounted storage cabinets (bottom edge higher than 2000 mm above floor)

③ = Option: special heights available



Wall mounted storage cabinets

- Can be installed as single storage cabinet or storage cabinet system
- Suitable for fitting of the service system and to the wall
- Available with and without ladder rail
- With hinged doors, sliding doors, glass hinged doors or glass sliding doors
- Installation by a rail system with adjustment
- Integrated workplace lighting available as an option



Examples of combinations







Examples of combinations





System channels, table ducts, system loop handles and handle strip optionally in

light grey	(RAL 7035)	
achat grey	(NCS S 6000-N)	similar RAL 7005
malachite green	(NCS 2060-B50G)	similar RAL 6033
mountain blue	(NCS S 2565-R80B)	similar RAL 5017
pyrite yellow	(NCS S 0060-Y)	similar RAL 1018
malvite red	(NCS S 2070-R)	similar RAL 3027
peridot green	(RAL 1007060)	

Colour design

System channels, table ducts, system loop handles and handle strip optionally in

light grey (RAL 7035)

Furniture elements

off-white (U 035) similar RAL 9002

Rounded PP safety rims of furniture front panels and of melamine worktops

lava grey (NCS S 4000-N) similar RAL 7004

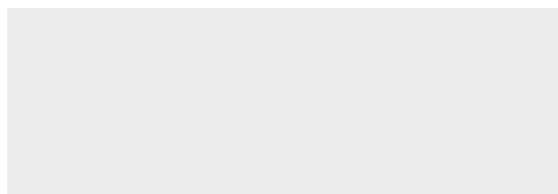
Furniture plinth

lava grey (NCS S 4000-N) similar RAL 7004

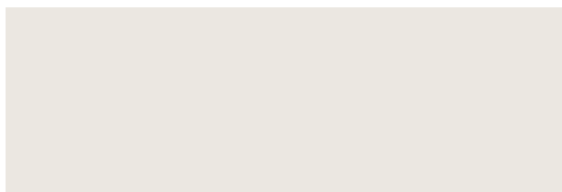
lava grey



light grey



off-white



achat grey



malachite green



pyrite yellow



mountain blue



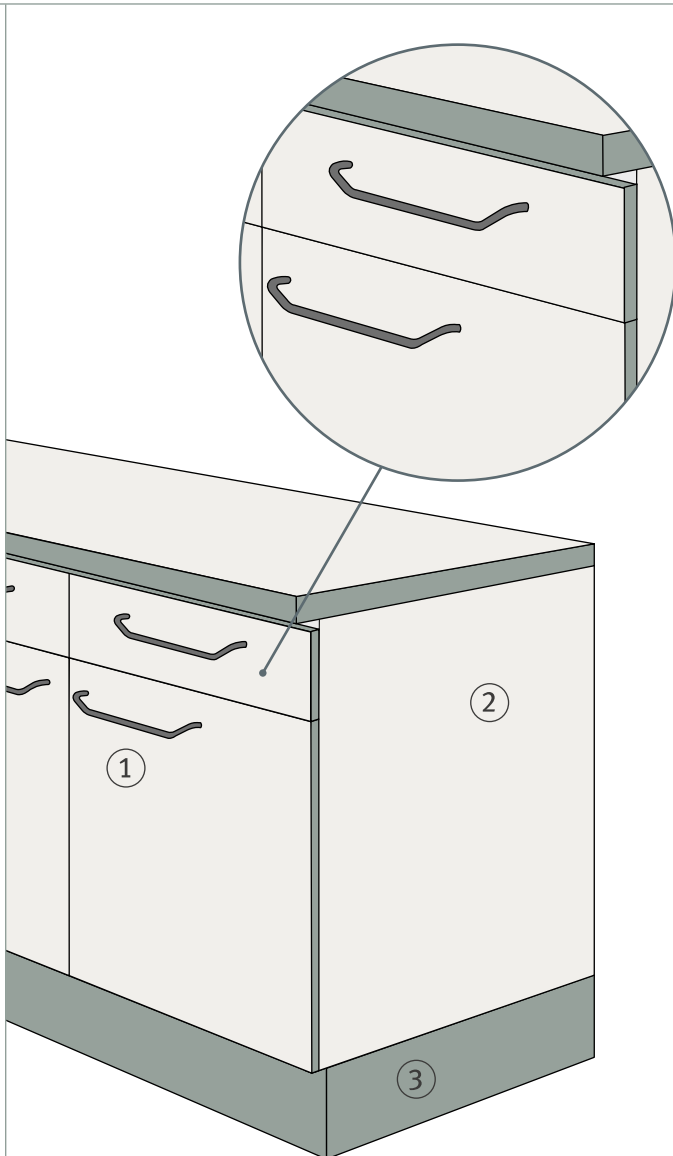
malvite red



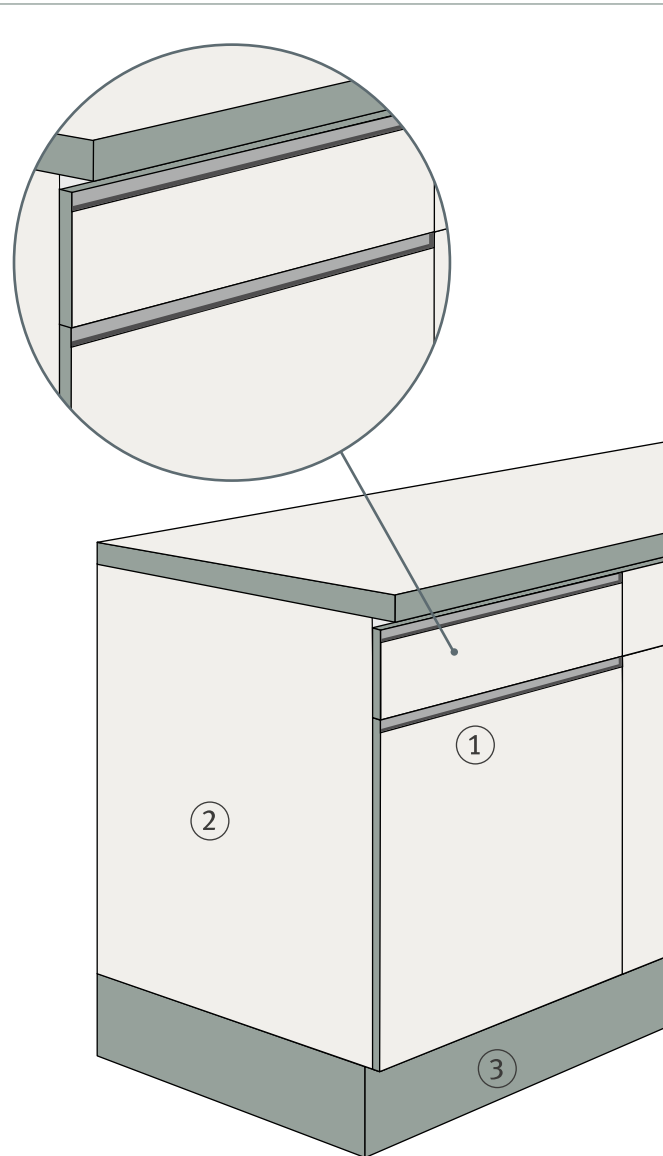
peridot green



Loop handle



Handle strip



- ① **System loop handles and handle strip optionally in**
achat grey (NCS S 6000-N), light grey (RAL 7035), malachite green (NCS 2060-B50G), pyrite yellow (NCS S 0060-Y), mountain blue (NCS S 2565-R80B), malvite red (NCS S 2070-R), peridot green (RAL 1007060)
- ② **Furniture elements**
Colour: off-white (U 035)
- ③ **Rounded PP safety rims of furniture front panels and of melamine worktops**
Colour: lava grey (NCS S 4000-N)



Proven safety down to the smallest detail

The Wesemann DELTA 30 laboratory furnishing system is largely pre-assembled at the factory and is then installed quickly on site by a trained installation team. Connection to the internal supply network can be made if required. Should your requirements in the laboratory change at a later stage, changes of or additions to the furniture are made easy by the modular design of the DELTA 30 system. This catalogue contains all the important basic information on the DELTA 30 system. For further technical details, installation data and other details, please refer to our planning CD.

Please ask us – our expert team will be pleased to help you.



**Simply
the best**

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