

A photograph of a modern laboratory interior. The room features long white laboratory benches with integrated sinks and white faucets. A black safety railing runs along the back of the benches. In the background, there is a glass door with a black frame and a sign that reads 'F45'. To the left of the door is a large whiteboard. The wall behind the benches is covered in a large, vibrant green mural depicting a dense forest or garden scene. The image is partially obscured by white diagonal lines that create a geometric, abstract effect.

**LABORATORY  
FURNITURE  
MANUFACTURERS  
AND CONTRACTORS**

**LABFURN**  
MANUFACTURING (PTY) LTD  
ESTABLISHED 1987

# MORE THAN 38 YEARS OF LABORATORY FURNITURE MANUFACTURE

Located near Johannesburg in Gauteng, South Africa, Labfurn has been a trusted name in laboratory furniture since 1987. Now, 38 years later, we are proud to be the leading supplier across Southern Africa.

From initial design and planning to manufacturing and installation, our skilled team ensures that every project meets the highest standards of quality.

Over the years, we've established strong partnerships with some of the world's top manufacturers of components in the laboratory furniture industry, including:





**Labor Security System (Italy):** Specializing in chemical and flammable storage units. EN 150 9001 Approved



**Carlos Arboles SA (Spain):** Specializing in laboratory water and gas taps, emergency showers, and eyewashes.



**Trespa International (Netherlands):** Known for their Trespa panels, ideal for laboratory worktops



**Simmons Moulding UK:** Experts in epoxy resin sinks and worktops for laboratories.



**Aliaxis:** Providers of the Vulcathene chemical-resistant drainage systems.



With the backing of these industry leaders, Labfurn remains at the forefront of accessing the latest innovations in laboratory furniture and equipment.



## MANUFACTURE

When manufacturing Labfurn's wide range of laboratory furniture, we prioritize adherence to the highest standards, conforming to both SABS 0157 and European norms.

Our most popular systems are the ALPHA, GAMMA and BETA Systems, though we can also create fully customized solutions to meet specific requirements.



## LABFURN - COMPLETE LABORATORY SOLUTIONS

LabFurn offers a comprehensive solution for all your laboratory furnishing needs, ensuring functionality, efficiency, and precision in every project.

### DESIGN & CONSULTATION

Our experienced team provides expert design consultations tailored to your specific requirements. Using AutoCAD, we help you plan and optimize your lab space for maximum efficiency.

### PROJECT MANAGEMENT

From concept to completion, we handle every aspect of your project, ensuring a seamless and hassle-free experience.





# MODULAR SYSTEMS

## ALPHA SYSTEM

System Alpha has been widely adopted in laboratories across Southern Africa, featuring a tubular framework that supports worktops and surfaces while allowing easy access for plumbing, gas, electrical, and other service connections. To prevent corrosion, all mild steel components undergo degreasing and phosphating processes before receiving an epoxy powder coating, ensuring a durable and lab-ready final product.

The cupboards are independently hung onto the support framework after all services are installed and can be easily moved in and out as needed, providing complete flexibility to the system. This design offers several key advantages, including:

### CLEANLINESS

All cupboards are installed off the floor, which facilitates easy cleaning.

### DESIGN FLEXIBILITY

Units can be easily added or removed to accommodate changing needs, all without modifying the main framework. The design also ensures convenient access for plumbing, gas, electrical, drainage, and other services.

### MAINTENANCE

Maintenance work is made simple, as units can be easily removed without disturbing the main framework.

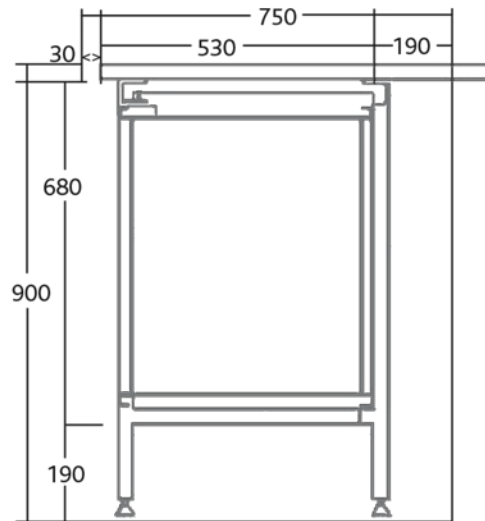
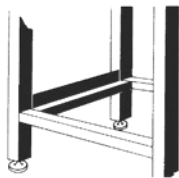
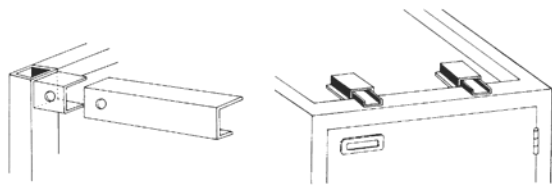
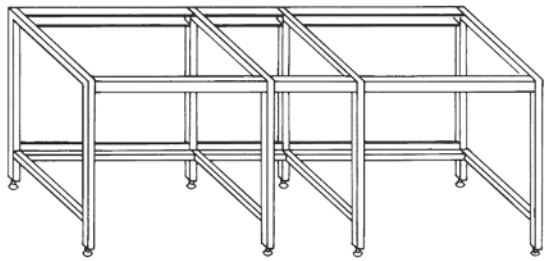
### COLOUR

The steel framework and melamine cupboards can be manufactured in any designer color as specified by the client or architect.

All cupboard doors and door fronts come with matching 3mm high-impact edging for added durability.







**Alpha frame support system and framing detail**



## SYSTEM GAMMA

Based on the latest European designs and customized for Stellenbosch University's new Biological Research Centre and Roche's upgraded laboratories, the 'GAMMA' system features a robust cantilever 'C' frame construction. With options for mobile or independently mounted cupboards, it offers the flexibility of the 'ALPHA' system but with increased under-worktop space due to the larger steel section used in its construction. This makes 'GAMMA' a more premium choice, while still offering a range of cupboards similar to our other two systems.













# FIXED SYSTEM

## BETA SYSTEM

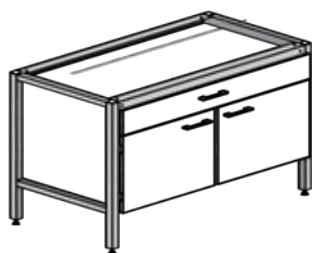
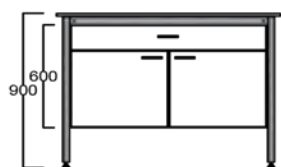
The BETA design is a cost-effective system where all cupboards are mounted on individual plinths or a steel leg framework, serving as the support structure for the worktop and services. While it doesn't offer the same flexibility or ease of maintenance as the ALPHA system, it provides significant savings in mild steel framework. The range of cupboards available is the same as in the ALPHA system.

- ▶ Affordable
- ▶ Prevents dirt accumulation

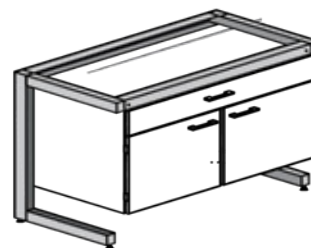


# CUPBOARD TYPES

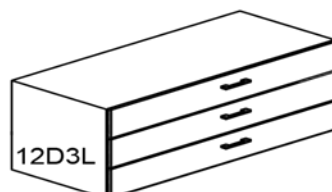
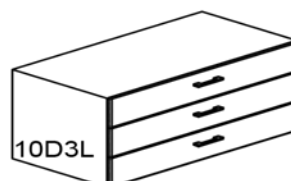
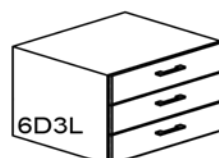
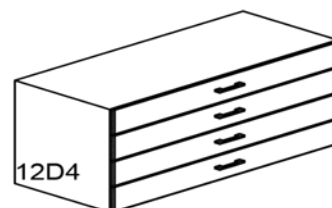
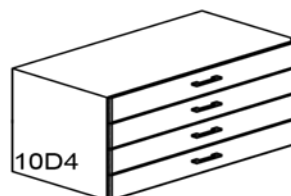
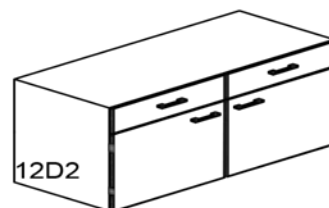
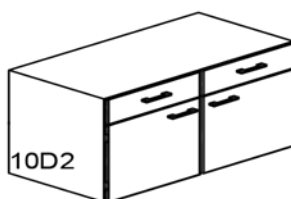
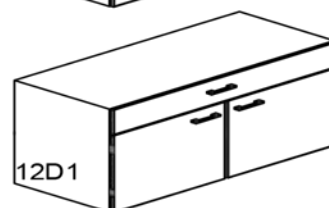
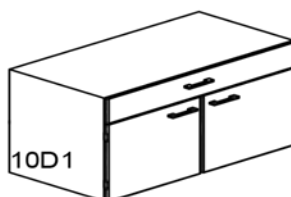
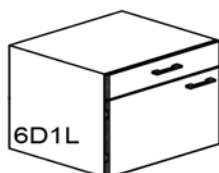
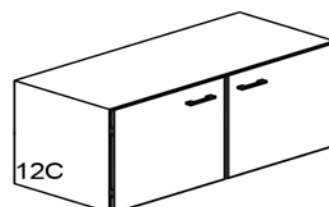
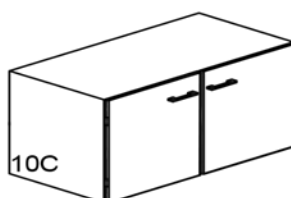
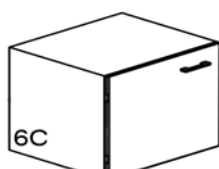
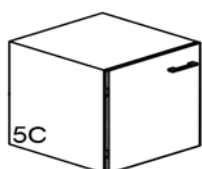
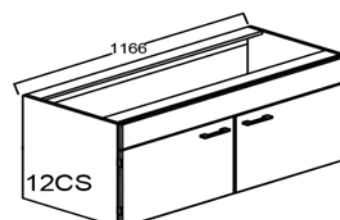
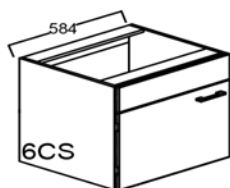
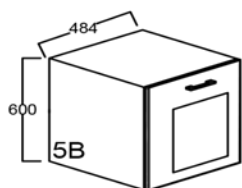
## ALPHA SYSTEM



Compatible with system Alpha

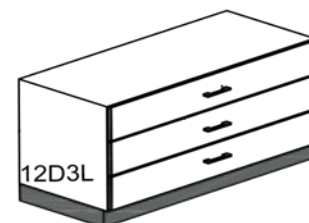
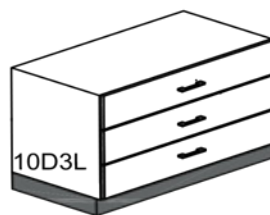
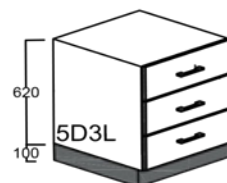
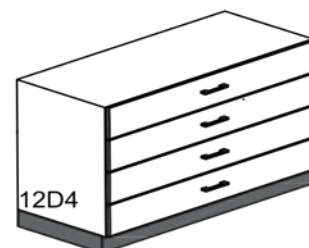
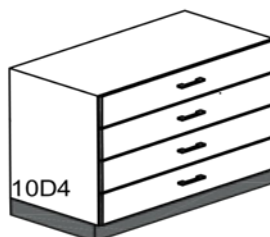
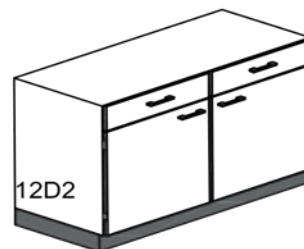
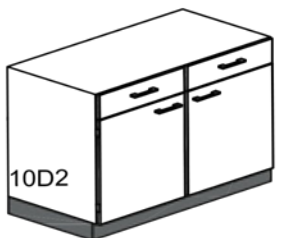
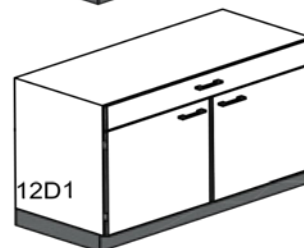
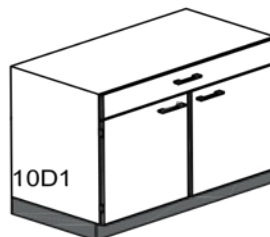
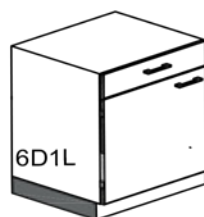
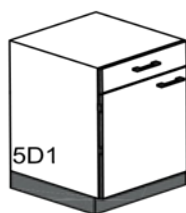
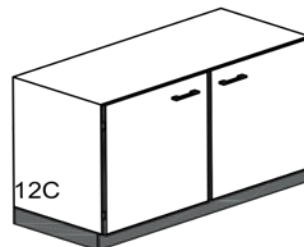
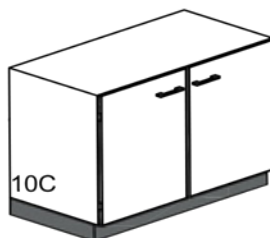
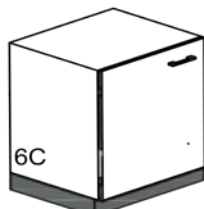
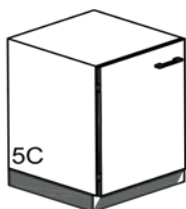
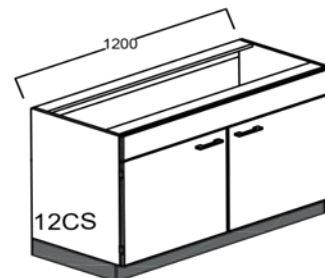
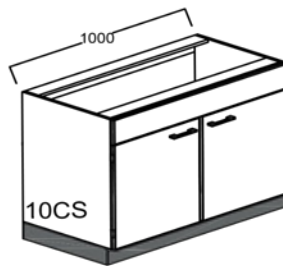
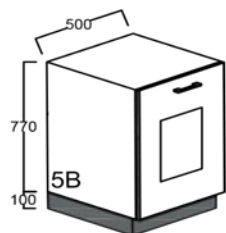
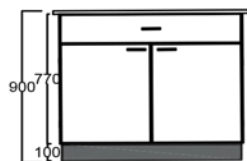


Compatible with system Gamme

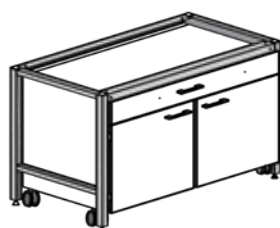
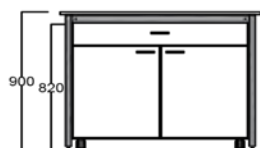




# BETA SYSTEM



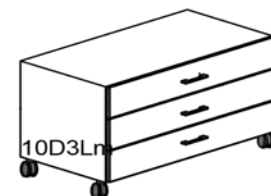
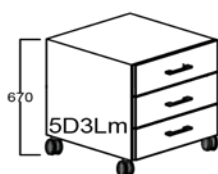
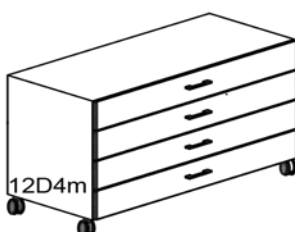
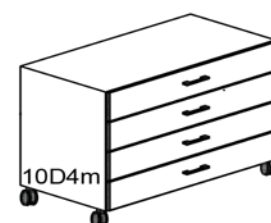
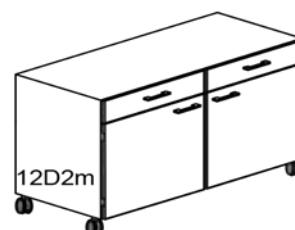
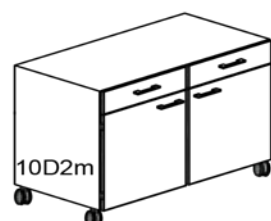
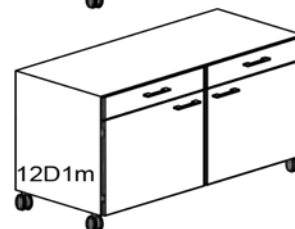
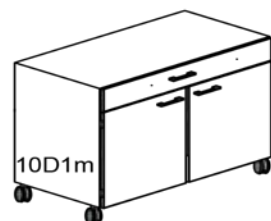
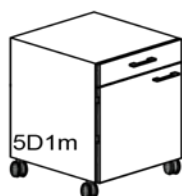
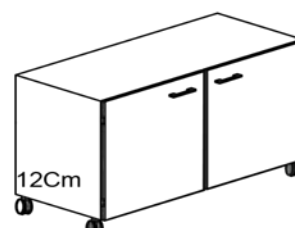
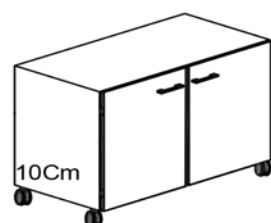
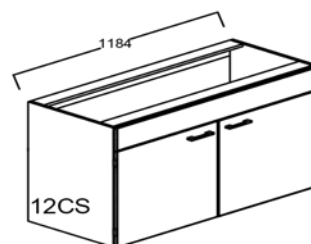
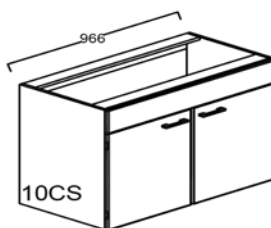
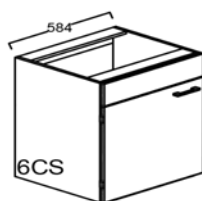
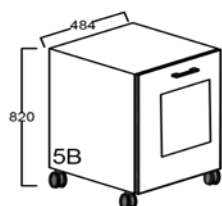
# MOBILE SYSTEM



Compatible with system Alpha



Compatible with system Gamma



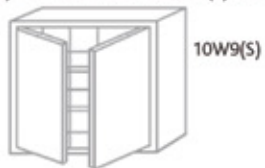


# WALL UNITS

CODES: (G) = GLASS SLIDING DOORS (S) = HINGED SOLID DOORS (0) = NO DOORS



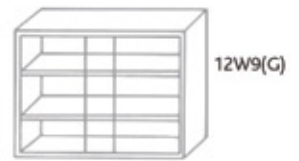
10W6(G)



10W9(S)



12W6(0)



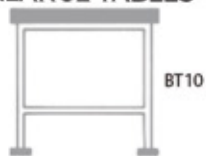
12W9(G)

## ISLAND BENCH SINK UNIT



15SB

## BALANCE TABLES



BT10



BT12

## FLOOR STANDING STORAGE UNITS



20F(G)



20F(S)



# WORKTOPS

There are numerous working surface options, each with unique qualities to consider, including aesthetics, cost, durability, and resistance to stains, heat, and scratches. The Most commonly used materials:

## TRESPA® TOPLAB® PRODUCT LINES

### TRESPA® TOPLAB® PLUS

#### HIGHLY CHEMICAL RESISTANT

TopLab® PLUS offers an ideal surface for high-quality worktops, designed to prevent bacterial growth and withstand a broad range of harsh chemicals.

- ▶ Crafted using Trespa's proprietary EBC technology.
- ▶ Perfect for chemical, physical, and analytical laboratory environments.
- ▶ Easy to clean with exceptional resistance to aggressive chemicals and cleaning agents.
- ▶ Inhibits bacterial growth.

### TRESPA® TOPLAB® PLUS ALIGN

TopLab® PLUS ALIGN is an innovative worktop material that embodies Trespa's global commitment to sustainability. It offers the trusted performance and durability of TopLab® PLUS ALIGN while incorporating a higher proportion of renewable resources. Featuring a groundbreaking core with up to 85% bio-based carbon content, TopLab® PLUS ALIGN stores more carbon than is emitted during its production. This pioneering design sets a new benchmark for sustainable architectural surfaces without compromising on quality or functionality.



16 CHEMICAL  
RESISTANCE



DOES NOT  
SUPPORT  
BACTERIAL  
GROWTH



SCRATCH  
& WEAR  
RESISTANCE



IMPACT  
RESISTANCE





## TRESPA® TOPLAB® VERTICAL

PERFECT FOR FUME HOODS AND  
LABORATORY VERTICAL CONSTRUCTED  
COMPONENTS

TopLab®VERTICAL comprises chemically resistant and antibacterial surfaces for applications in healthcare, cosmetics, food, pharmaceutical and laboratory environments, such as cabinetry, peg boards, splash backs and cladding in fume hoods.



## TRESPA® TOPLAB® BASE

HEAVY DUTY SURFACE

TopLab®BASE is the robust and lasting panel for worktops and cabinetry applications where scratch and wear resistance are of great importance whereas the chemical resistance of the surface is not critical.

## OTHER WORKTOPS AVAILABLE

Other materials are available including PVC, polypropylene, Granite, Laminated Saligna, Solid Surface & Stainless Steel.



EASY  
TO CLEAN



COLOUR  
STABILITY



SMOOTH  
MACHINABILITY



QUICK  
INSTALLATION



## ENERGY CORES REAGENT SHELVES

These units are an essential component of the Labfurn system. Available in single or double tiers, they are constructed using the same modular design as the cupboards and framework. The Energy Cores are delivered in components and can be easily installed once the framework and countertops are in place. They come in two standard sizes:

- (a) 150mm single-sided, ideal for worktops adjacent to side walls.
- (b) 300mm double-sided, suitable for island or peninsular benches.







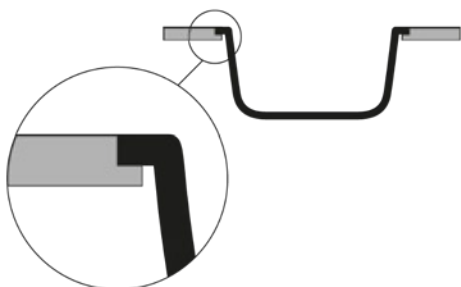


## SINKS

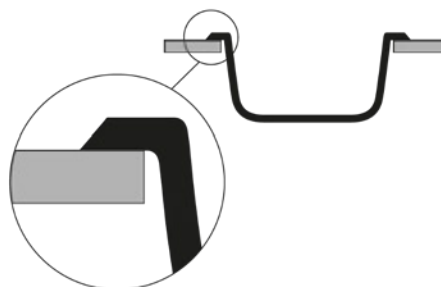
Epoxy resin is a cutting-edge material for laboratory sinks, offering an exceptional blend of features and benefits:

- ▶ Durable
- ▶ Chemical Resistant
- ▶ Mechanically Strong
- ▶ Easily Cleaned
- ▶ Decontaminated

**Drop-In Sink Fitment** they are designed to fit flush into a rebated cut out in a worktop.



**Drop-On Sink Fitment** sinks are designed to be easily fitted to any type of worktop material. They have self-rimming flanges which will conceal the core layer of a laminated worktop.



**SINGLE BOWL SINGLE DRAINER SINKTOPS** feature a worktop, sink and drainer which is moulded in one section and as such is totally seamless. Sinktops incorporate a ribbed drainer area which slopes to an integrally moulded sink bowl.

### OPTIONAL SINKS

- ▶ Ceramic
- ▶ Vulcathene
- ▶ Stainless Steel







## TAPS

### TAPS AND ASSOCIATED FITTINGS

As the exclusive agents for Arboles UK Ltd laboratory fittings in Southern Africa, we provide a comprehensive selection designed to meet the diverse requirements of modern laboratories. Our extensive range includes:









































- ▶ water fittings
- ▶ fine-control ceramic headworks for dry services
- ▶ gas cocks
- ▶ remote control fittings
- ▶ vacuum pumps
- ▶ eyewash stations
- ▶ metering valves
- ▶ emergency showers, and more.

Comprehensive catalogues are available upon request.





# DIN EN 13792

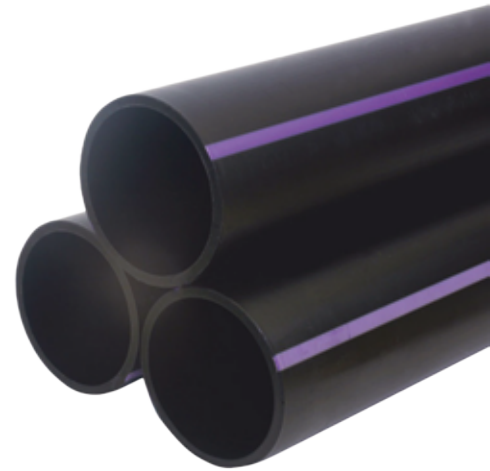
			
COLD DRINKING WATER	ETHYLENE $C_2H_4$	CARBON DIOXIDE $CO_2$	VACUUM UP 1 MBAR TO $10^{-3}$ MBAR
			
HOT DRINKING WATER	PROPENE $C_3H_6$	KRYPTON Kr	VACUUM UP $10^{-3}$ TO $10^{-7}$ MBAR
			
COLD INDUSTRIAL WATER	BUTENE $C_4H_8$	NEON Ne	FORMALDEHIDE $CH_2O$
			
STEAM	ACETYLENE $C_2H_2$	ARGON Ar	PROPANOL $C_3H_8O$
			
PURE COLD WATER	ARGON-METHANE Ar $CH_4$	HELIUM He	METHANOL $CH_4O$
			
DECALCIFIED COLD WATER	HYDROGEN $H_2$	AMMONIAC $NH_3$	ACETONE $C_3H_6O$
			
DISTILLED WATER	NITROGEN $N_2$	NITROGEN DIOXIDE $NO_2$	TRYCHLOROETHYLENE $C_2HCl_3$
			
METHANE $CH_4$	NITROGEN MONOXIDE $N_2O$	HYDROGEN SULFIDE $H_2S$	PERCHLORIC ACID $HClO_4$
			
PROPANE $C_3H_8$	COMPRESSED AIR	PHOSPHINE $PH_3$	NATURAL GAS
			
BUTANE $C_4H_{10}$	OXYGEN $O_2$	VACUUM UP 1000 TO 1 MBAR	PROPANE-BUTANE GAS



## DRAINAGE

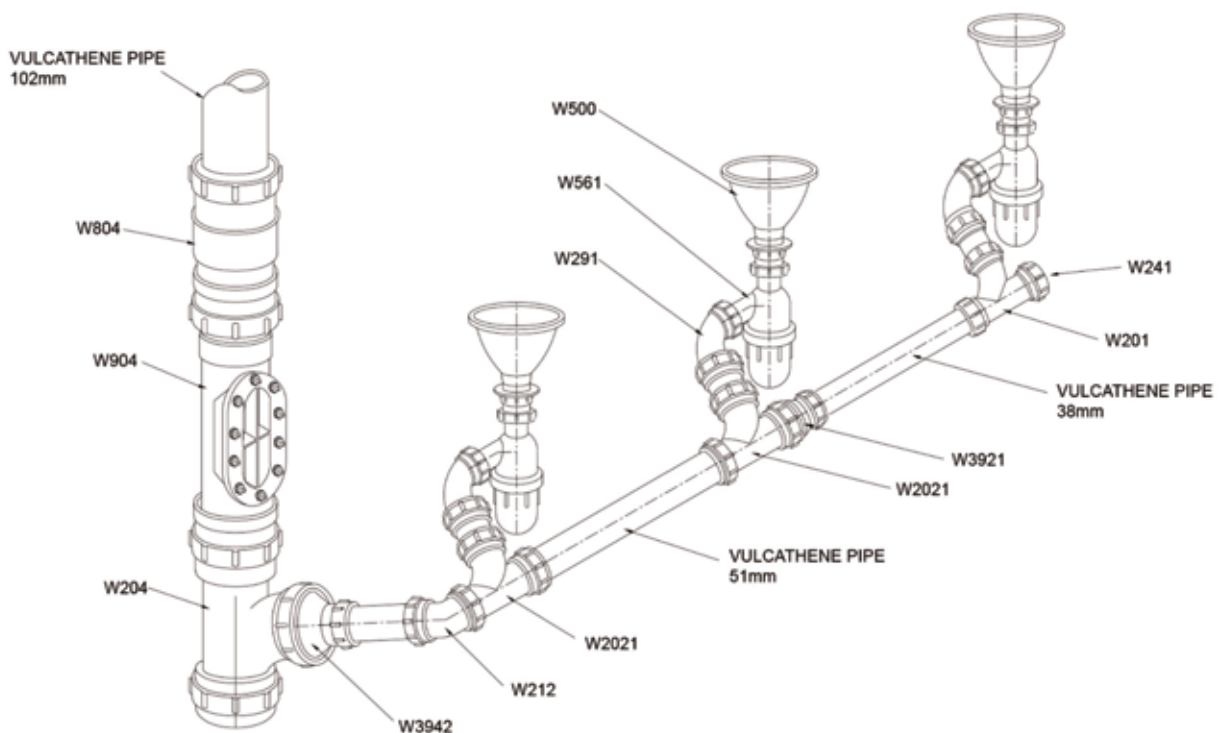
### VULCATHENE PURPOSE DESIGNED FOR SAFE CHEMICAL DRAINAGE

- ▶ Two easy jointing methods Mechanical or Enfusion.
- ▶ Injection moulded fittings for accuracy and reliability.
- ▶ Purpose designed for chemical drainage.
- ▶ BBA tested / approved for chemical drainage.
- ▶ Specified world wide for safe chemical drainage.



### SPECIFIED WORLD WIDE FOR LABORATORY DRAINAGE FOR OVER 50 YEARS

With over 50 years of proven performance in laboratories across thousands of schools, universities, hospitals, and research facilities worldwide, Vulcathene stands as a highly reliable solution for safe chemical drainage.







## CHEMICAL STORAGE UNIT

**Labor Security System** specializes in designing and manufacturing **SAFETYBOX®** safety cabinets, specifically engineered for the safe storage of flammable, chemical, and gas products. They also produce **CARBOX®** activated charcoal filters.

As a **UNI EN ISO 9001** certified company, Labor Security System ensures that **SAFETYBOX®** products meet rigorous European standards, earning **TÜV SÜD** certification as a mark of exceptional quality.



# FUME CUPBOARDS

We provide a diverse selection of fume cupboards, each uniquely designed to fulfill specific user requirements. Our range includes:

- ▶ Constaflow
- ▶ Inductaflow
- ▶ Walk-In
- ▶ Distillation
- ▶ Perchloric Acid
- ▶ Radio Isotope

For professional guidance and comprehensive details on design features, sizes, airflow dynamics, and fume extraction systems, feel free to reach out to us for further assistance.





# CLIENT PROFILE

## UNIVERSITIES AND OTHER EDUCATIONAL INSTITUTIONS

American College  
Border Technikon  
British International College  
Crawford College  
Deutsche School Johannesburg  
Eduardo Mondlane Uni- Mozambique  
M. L. Sultan Technikon  
Pretoria University  
Redhill School  
Roedean School  
Sci- Bono  
St Benedicts School  
Stellenbosch University  
Sterkspruit College of Education  
St John's College  
St Stithians College  
Tshwane University  
University of Botswana  
University of Cape Town  
University of Fort Hare  
University of the Free State  
University of Limpopo  
University of Mpumalanga  
University of Namibia  
University of Natal  
University of Transkei  
University of the Western Cape  
University of the Witwatersrand  
University of Zimbabwe  
Vaal Triangle Technikon  
Vaal University of Technology  
Venda University  
Vista University  
Woodhill College

## MEDICAL AND RESEARCH FACILITIES

Axim Nuclear & Oncology  
B.A.R.C.  
Botswana Academic Hospital- Gaborone  
Bio Medical Research Institute at Tygerburg Hospital  
Charles Johnson Memorial Hospital  
Drs Mauff Zail Skudowitz & Partners  
Jeetoo Hospital - Mauritius  
Jubilee Hospital  
Mahalapye Hospital  
Malaria Research Institute at Jozini  
Manhica T.B. Research-Mozambique  
Mombasa Malarial Research-Kenya  
Mozambique Fisheries Research at Beira and Maputo  
National Health Institute at Lobatse and Francistown  
Nelson Mandela Academic Hospital at Umtata  
N.H.I. Serowe  
N.H.L.S. Baragwanath  
N.H.L.S. Bloemfontein  
N.H.L.S. Rustenburg

Ingrain  
Johnson & Johnson  
Lever Brothers  
M & L Lab Services  
National Bioproducts Institute  
Nestle  
Portfolio Pharmaceuticals  
Quest  
Revlon  
Roche Vitamins  
Swift Silliker

## MINING AND INDUSTRIAL CORPORATIONS

Aberdare Cables  
AE&CI  
Anchor Yeast  
Anglo American Corporation  
Anglo Vaal  
Assmang  
Bader  
Cerebos  
Cranbrook Flavours  
Crown Cork  
Daimler Benz  
Distell Engen  
Fuchs Lubricants  
Goldfields of S.A.  
Illovo Sugar  
Impala Plats  
Inspectorate  
Konkola North - Zambia  
Lanxess  
Mars  
Rand Refinery  
Rio Tinto - Madagascar  
S A Breweries  
SAMANCOR  
SAPPI  
Sasol Infrachem  
Sasol Technology  
S.G.S. Mining  
Siemens  
Simba

## GOVERNMENT INSTITUTIONS

Atomic Energy Board  
Botswana Bureau of Standards  
CSIR  
Escom  
Mintek  
National Department of Agriculture  
Potato Board  
Rand Water Board  
South African Institute of Medical Research  
S.A.N. Parks  
SA Police  
Umgeni Water Board  
Western Cape Forensic Pathology Laboratories

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