



FRIDURIT[®] LABORATORY SINKS

Sinks and cup sinks made of Technical Ceramics

Technical description

www.kyocera-solutions.de

TABLE OF CONTENTS

INTRODUCTION	05
FRIDURIT LABORATORY SINKS – FOR MOUNTING IN BENCHTOPS	08
Sinks	08
Cup sinks – oval	09
Cup sinks – round	10
Underfixed sinks without overflow	11
Underfixed sinks with overflow	12
Underfixed double sinks with overflow	12
FRIDURIT LABORATORY SINKS – FREE-STANDING VERSIONS	14
Sinks without overflow	14
Sinks without overflow	15
Double sinks with overflow	16
Wall-mounted sinks with overflow	17
ACCESSORIES	18
QUALITY GUIDELINES AND CLEANING	19
MOUNTING INSTRUCTIONS	20
Built-in versions	22
Free-standing versions	23



INTRODUCTION LABORATORY SINKS

As a designer, laboratory builder, wholesaler for sanitary products or as a user in a laboratory environment you would like to learn more about laboratory sinks. This technical description provides you with comprehensive information on FRIDURIT laboratory sinks made of Technical Ceramics (chemical-technical stoneware). Should you have any questions left unanswered by this description we will be pleased to provide information and support.

Details of our products are based on the results of extensive development and the associated test findings in-house and at accredited testing laboratories. Many years of experience in the most varied fields of application provide an additional guarantee for the durability of FRIDURIT laboratory sinks made of Technical Ceramics. The user, however, remains responsible for verifying our information and recommendations on the basis of his individual requirements and, if necessary, for confirming suitability of the product for his application by means of independent tests.

Our technical specifications are based on DIN 12915. The statutory warranty provisions apply. We also refer to our General Terms and Conditions of Supply and Payment.

We reserve the right to make technical changes.

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FRIDURIT[®] LABORATORY SINKS

PERFECTION WITH FRIDURIT

FRIDURIT sinks made of Technical Ceramics have been used for many years in a wide variety of laboratory applications. FRIDURIT Technical Ceramics is a superior-quality siliceous material produced using natural raw materials such as clay, kaolin and feldspar in a special kilning process at temperatures exceeding 1200 °C.

Choose between free-standing versions or sinks and cup sinks integrated in a benchtop. Our experience in the manufacture of ceramic laboratory benchtops and sinks provides a permanent guarantee for the highest standards of quality.



FRIDURIT wall-mounted sinks with integrated backsplash



FRIDURIT sinks for installation in laboratory benchtops



FRIDURIT cup sinks for installation in laboratory benchtops

FRIDURIT[®]

TECHNICAL CERAMICS

Thanks to its pore-free surface FRIDURIT Technical Ceramics offers a unique combination of chemical, temperature, scratch and abrasion resistance. With this material profile a perfect working environment can be created and permanently maintained. Even after years of intensive use FRIDURIT laboratory sinks look just like new.

Technical Ceramics – natural material of a very special kind:

► easy to clean

FRIDURIT laboratory sinks made of Technical Ceramics pose no problems in terms of cleaning. Whether soiled by dyes, varnishes, dirt or grease - they can all be removed without trace. Thanks to their extreme hardness and abrasion resistance our Technical Ceramics products remain totally unaffected, even after undergoing repeated cleaning with aggressive cleaning agents and tools.

► resistant to chemicals

FRIDURIT Technical Ceramics products are fully resistant to solvents and chemicals commonly used in the laboratory, e.g. aqua regia, hydrochloric acid, sulphuric acid, nitric acid and sodium hydroxide, even when used at high concentrations and temperatures and with a long reaction time.

► microbiologically pure

FRIDURIT laboratory sinks can be decontaminated and disinfected. Their permanently sealed surfaces preclude breeding grounds for viruses, bacteria or germs.

► scratch-proof

FRIDURIT laboratory sinks always look just like new. Their exceptional scratch resistance prevents any sign of wear.

► heat resistant

FRIDURIT Technical Ceramics is resistant to heat from open flames and hot objects up to temperatures of 500 degrees Celsius. It is non-flammable and completely fire-proof.

► environmentally compatible

FRIDURIT Technical Ceramics is manufactured purely and simply from natural earth resources, such as clay, kaolin and feldspar. Such material, which contains no chemical substances, poses no problems in terms of recycling. FRIDURIT Technical Ceramics is thus a classic example of “green” building materials, which represent an important element in implementing “Green Building” concepts. These concepts (e.g. LEED, BREEAM) increase resource efficiency in buildings while at the same time reducing damaging effects on both health and the

environment. Laboratory staff are thus active in a working environment that is free of emissions and thoroughly safe. FRIDURIT Technical Ceramics is nonflammable (Euroclass A1) and does not increase the fire load of buildings.

The FRIDURIT Technical Ceramics manufacturing process takes place in accordance with ISO standards for general process management (ISO 9001:2008), for adherence to environmental aspects (ISO 14001:2004) and for implementing an energy management system (ISO 50001:2011). Sustained development and viability is the maxim for using FRIDURIT Laboratory Technology. This is why we are also a member of EGNATON – The European Association for Sustainable Laboratory Technologies.

GLAZE COLOURS

A wide range of glaze colours as well as the option of selecting special colours make FRIDURIT laboratory sinks made of Technical Ceramics products that satisfy the very highest aesthetically demands. The figure on the right shows a selection of glaze colours available. Laboratory sinks are available in plain colour glaze.

We will be pleased to send you ceramic colour samples upon request.

(Colours may vary from those illustrated.)



FRIDURIT® LABORATORY SINKS FOR MOUNTING IN BENCHTOPS

SINKS

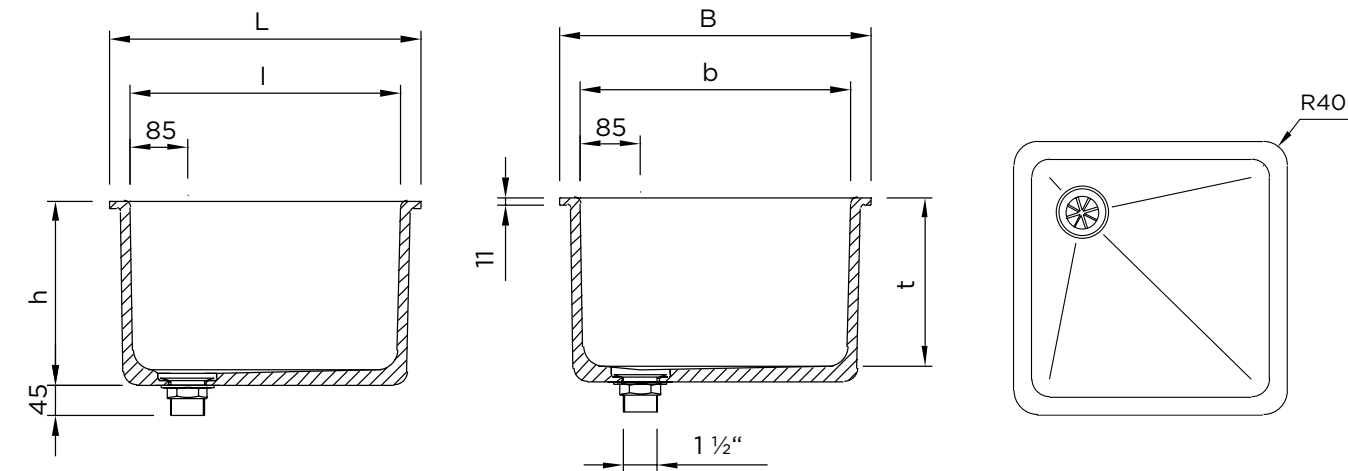
FRIDURIT sinks made of Technical Ceramics (chemical-technical stoneware) are the ideal match for FRIDURIT laboratory benchtops. They are glazed on the inside and around the edges and are supplied with a 1½" male screw PP outlet with integrated soil trap and a standpipe.

OPTIONS FOR INSTALLATION:

- ▶ Top-mounted
- ▶ flush-mounted
- ▶ under-fixed



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
400	400	250	460 ^{±3}	460 ^{±3}	273	20	VBES442
500	400	250	560 ^{±3}	460 ^{±3}	273	25	VBES542
600	400	250	660 ^{±3}	460 ^{±3}	273	27	VBES642



CUP SINKS – OVAL

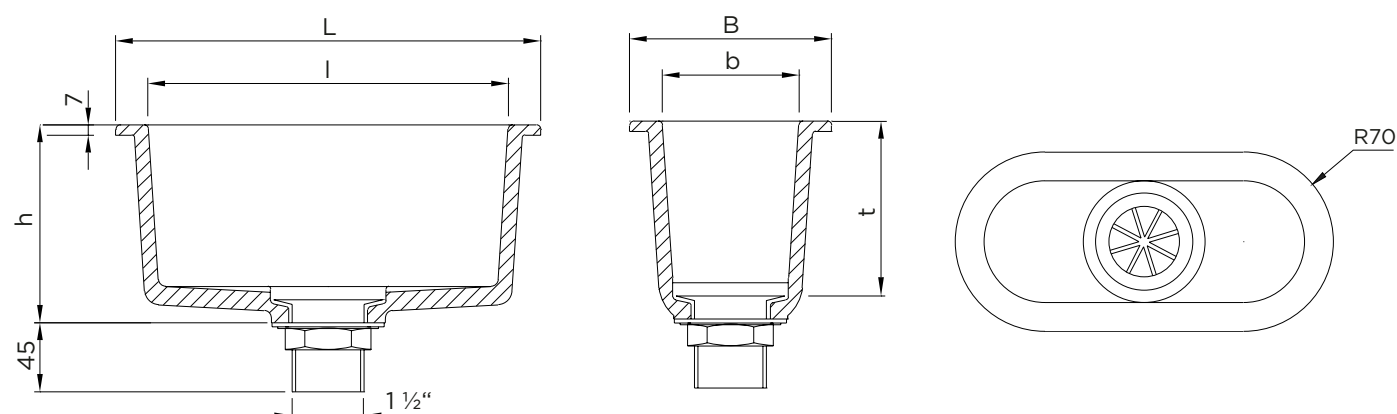
FRIDURIT cup sinks made of Technical Ceramics (chemical-technical stoneware) are the ideal match for FRIDURIT laboratory benchtops. They are glazed on the inside and around the edges and are supplied with a 1½" male screw PP outlet with integrated soil trap.

OPTIONS FOR INSTALLATION:

- ▶ top-mounted
- ▶ flush-mounted
- ▶ under-fixed



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
250	95	112	294 ^{±3}	140 ^{±3}	133	2.4	VBPE291



CUP SINKS – ROUND

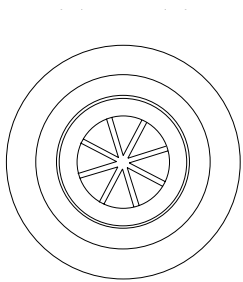
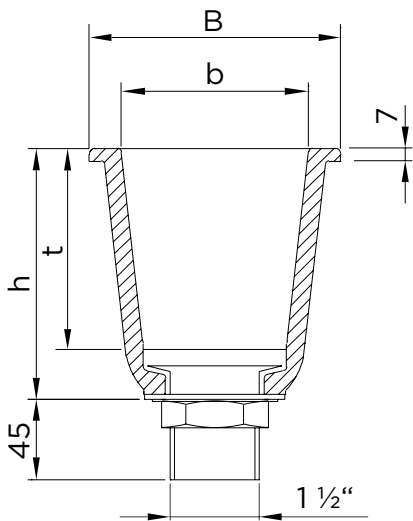
FRIDURIT cup sinks made of Technical Ceramics (chemical-technical stoneware) are the ideal match for FRIDURIT laboratory benchtops. They are glazed on the inside and around the edges and are supplied with a 1½" male screw PP outlet with integrated soil trap.

OPTIONS FOR INSTALLATION:

- ▶ top-mounted
- ▶ flush-mounted
- ▶ under-fixed



Internal dimensions (in mm)		External dimensions (in mm)		Weight (in kg)	Order code
Øb	t	B	h		
105	112	145±3	137	1,5	VBPE111

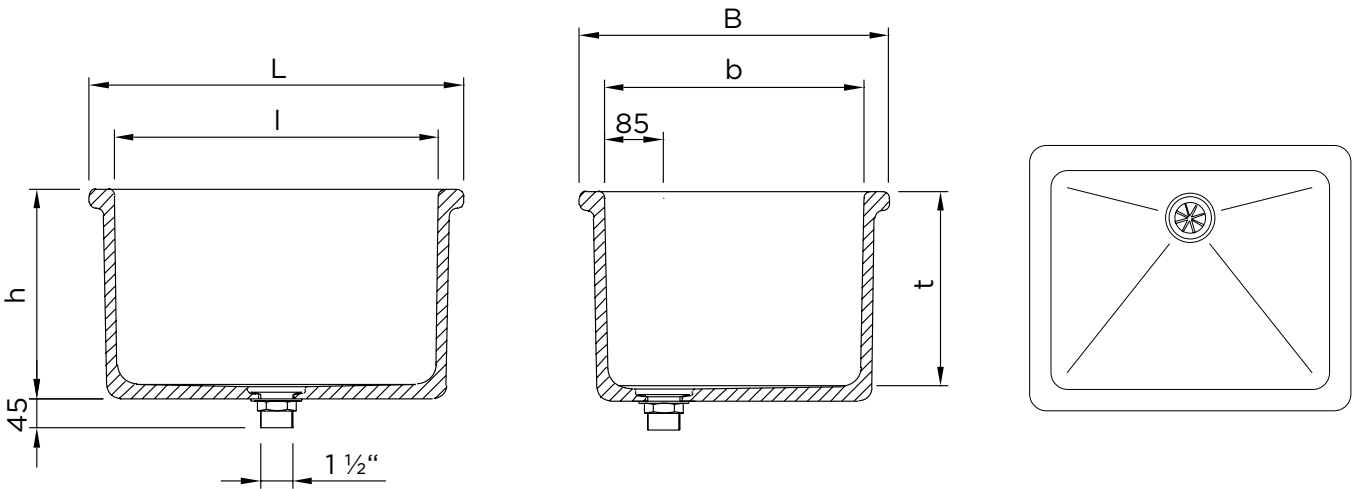


UNDER-FIXED SINKS WITHOUT OVERFLOW

FRIDURIT under-fixed sinks without overflow are made of Technical Ceramics (chemical-technical stoneware). They are glazed on the inside and are supplied with a 1½" male screw PP outlet with integrated soil trap and a standpipe.



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
350	350	300	420	420	322	26	VBPS333-OUE
400	400	250	476	476	272	26	VBPS442-OUE
500	400	300	576	476	322	35	VBPS543-OUE
600	400	300	676	476	322	38	VBPS643-OUE
800	400	300	876	476	322	63	VBPS843-OUE

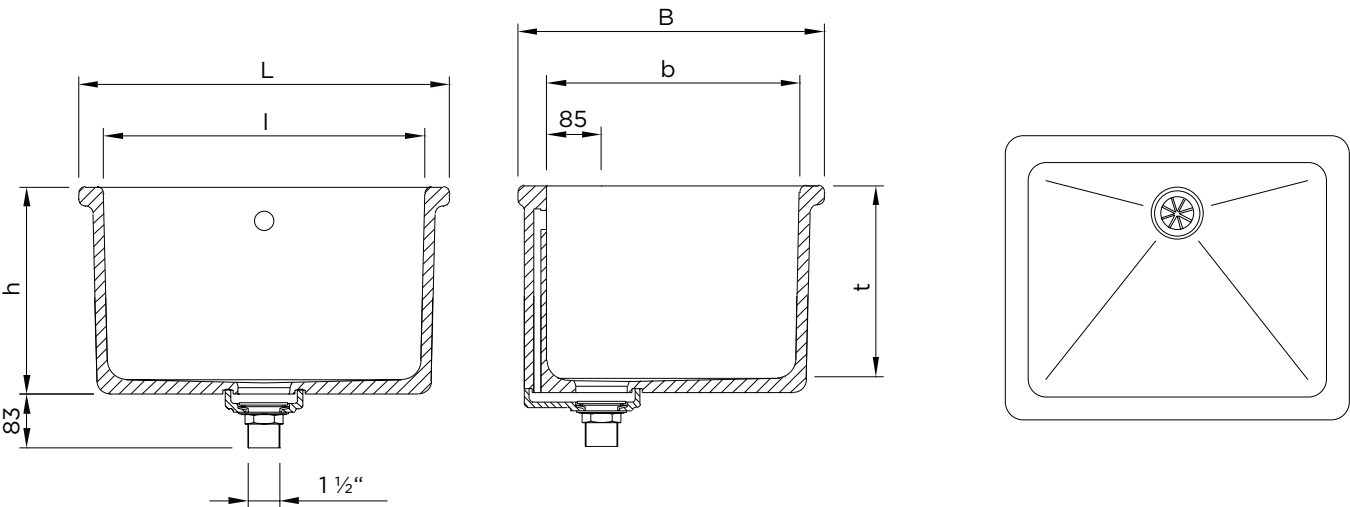


UNDER-FIXED SINKS WITH OVERFLOW

FRIDURIT under-fixed sinks with overflow are made of Technical Ceramics (chemical-technical stoneware). They are glazed on the inside and are supplied with a 1½" male screw PP outlet with integrated soil trap and a plug.



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
350	350	300	420	420	322	28	VBPS333
400	400	250	476	476	272	28	VBPS442
500	400	300	576	476	322	37	VBPS543
600	400	300	676	476	322	40	VBPS643
800	400	300	876	476	322	59	VBPS843

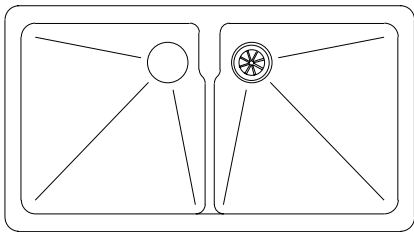
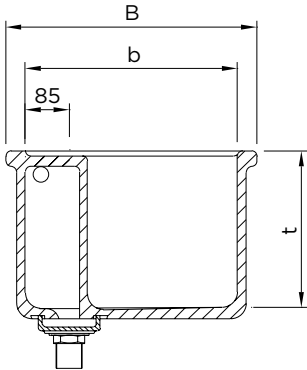
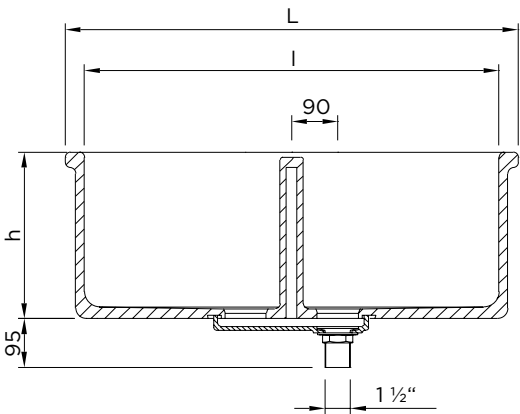


UNDER-FIXED DOUBLE SINKS WITH OVERFLOW

FRIDURIT under-fixed double sinks with overflow are made of Technical Ceramics (chemical-technical stoneware). They are glazed on the inside and are supplied with a 1 ½" male screw PP outlet with integrated soil trap and 2 plugs.



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
810	410	300	885	485	322	65	VBPD843



FRIDURIT® LABORATORY SINKS

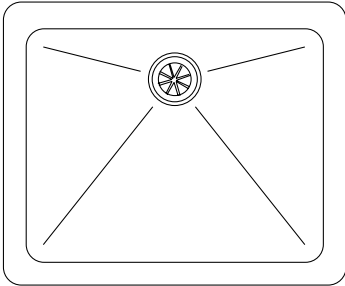
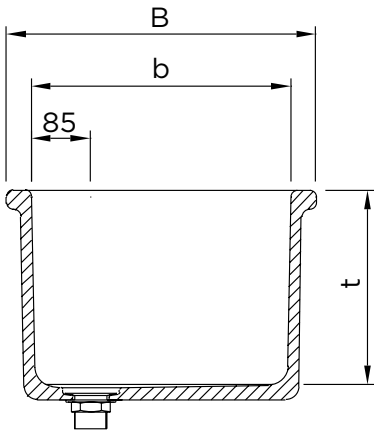
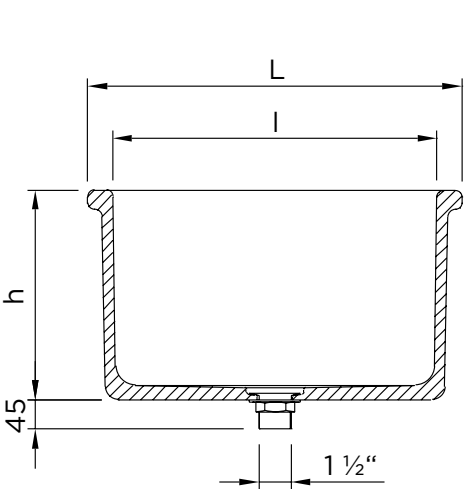
FREE-STANDING VERSIONS

SINKS WITHOUT OVERFLOW

FRIDURIT free-standing sinks without overflow are made of Technical Ceramics (chemical-technical stoneware). They are glazed on the inside and outside and are supplied with a 1½" male screw PP outlet with integrated soil trap and a standpipe.



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
500	400	300	576	476	322	35	VBSS543-OUE
600	400	300	676	476	322	38	VBSS643-OUE
800	400	300	876	476	322	57	VBSS843-OUE
1000	400	300	1076	476	322	68	VBSS143-OUE

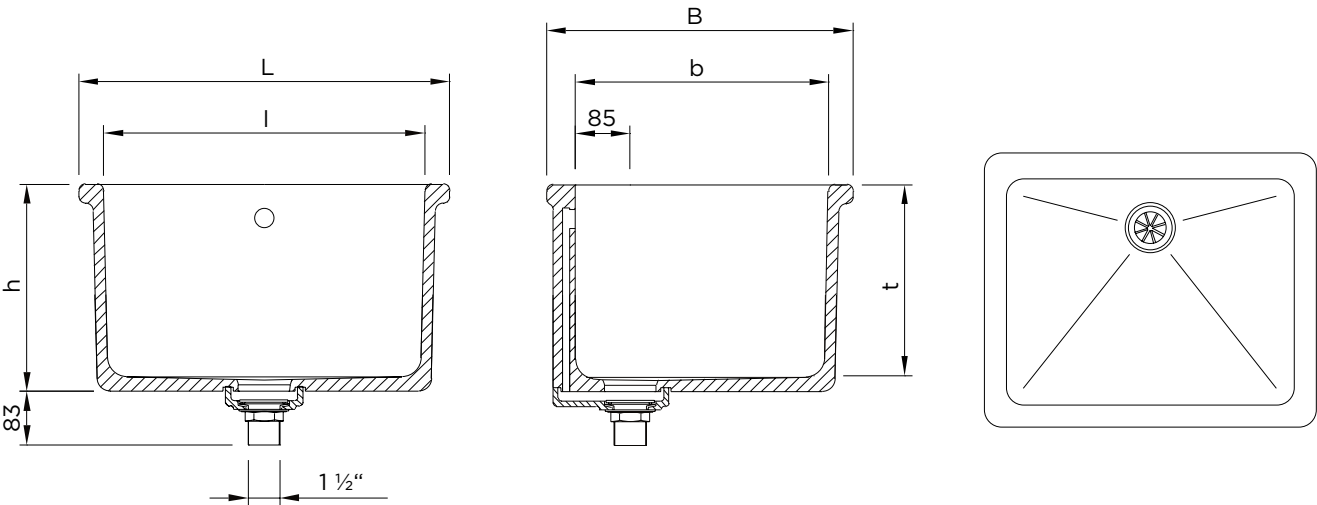


SINKS WITH OVERFLOW

FRIDURIT free-standing sinks with overflow are made of Technical Ceramics (chemical-technical stoneware). They are glazed on the inside and outside and are supplied with a 1½" male screw PP outlet with integrated soil trap and a plug.



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
500	400	300	576	476	322	37	VBSS543
600	400	300	676	476	322	40	VBSS643
800	400	300	876	476	322	59	VBSS843
1000	400	300	1076	476	322	70	VBSS143

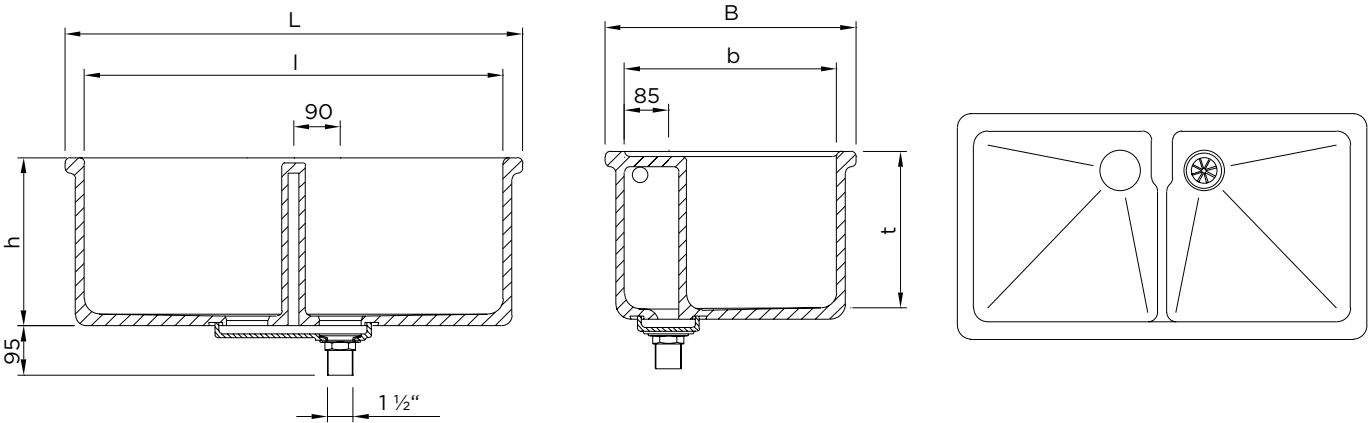


DOUBLE SINKS WITH OVERFLOW

FRIDURIT free-standing double sinks with overflow are made of Technical Ceramics (chemical-technical stoneware). They are glazed on the inside and outside and are supplied with a 1½" male screw PP outlet with integrated soil trap and 2 plugs.



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
810	410	300	885	485	322	65	VBSD843

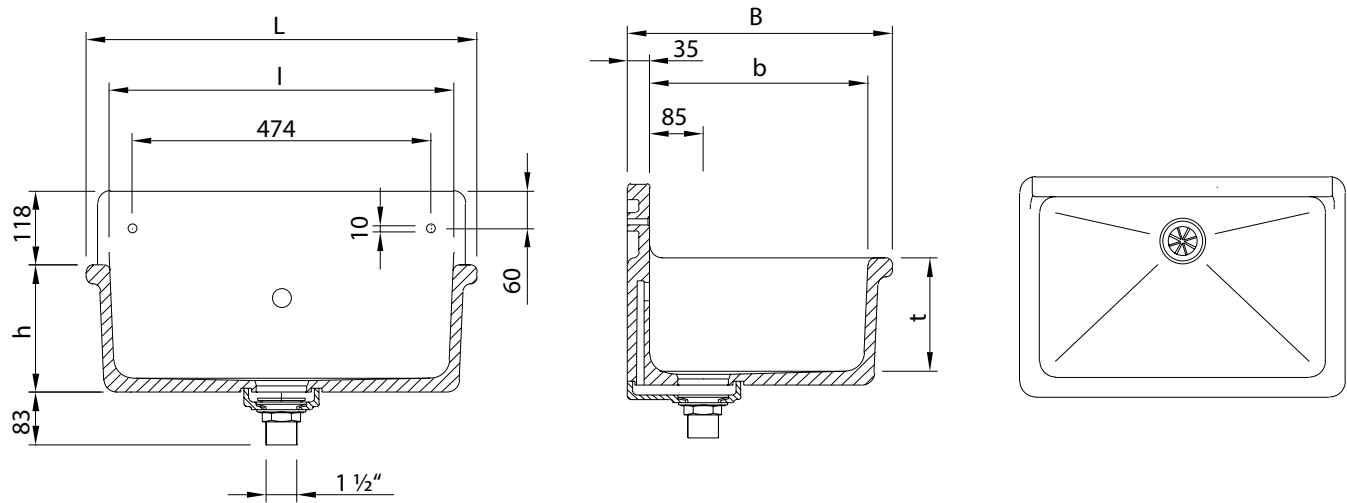


WALL-MOUNTED SINKS WITH OVERFLOW

FRIDURIT wall-mounted sinks with overflow are made of Technical Ceramics (chemical-technical stoneware). They are glazed on the inside and outside and are supplied with a 1½" male screw PP outlet with integrated soil trap and a plug as well as 2 fixing holes Ø approx. 10 mm (without fixing material).



Internal dimensions (in mm)			External dimensions (in mm)			Weight (in kg)	Order code
l	b	t	L	B	h		
550	350	180	630	430	202	35	VBSW531



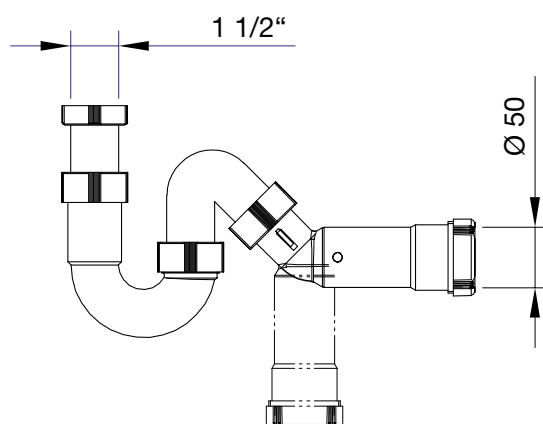
FRIDURIT[®] LABORATORY SINKS ACCESSORIES

P-TRAP

A polypropylene waste trap (stench trap) is available for connection to the waste-water pipe.



Description	Order code
Polypropylene waste trap, horizontal/vertical Outlet: compression fitting DN50 Connection: 1 1/2" female screw x 100	BZS001



QUALITY GUIDELINES

Before leaving our factory all our products are subjected to stringent controls in order to ensure the same high standards of quality. Just like wood or leather products, which are much appreciated for their individual grain and texture, FRIDURIT laboratory sinks made of Technical Ceramics may show optical irregularities. Natural variations in colour and appearance on the same product and between the various sinks are typical for the material and are unavoidable due to the complex manufacturing process. In addition, dimensional tolerances as a result of material properties may arise.

The features indicated do not affect quality and thus do not constitute any defects. Far more, they belong to the characteristic properties of the material.

CLEANING

The high density of the material results in easy-to-clean, permanently sealed surfaces.

We recommend cleaning the FRIDURIT sinks with a sponge or cloth using traditional cleaning agents such as those used in bathrooms. Stubborn dirt on FRIDURIT laboratory sinks can be removed using an abrasive sponge suitable for glass ceramics. This will not result in any surface scratching.

We will be pleased to answer any questions you may have.





MOUNTING INSTRUCTIONS

LABORATORY SINKS

FRIDURIT[®] LABORATORY SINKS MOUNTING INSTRUCTIONS



TOP-MOUNTED

Sinks are top-mounted in a cut aperture (unglazed) of the full-size FRIDURIT laboratory benchtop and then sealed with silicon. Uncontrolled leakage of liquid into the waste-water system can thus be prevented.

A top-mounted installation is only possible with the built-in versions, order code VBES or VBPE.



FLUSH-MOUNTED

Sinks are flush-mounted in the stepped aperture (unglazed) of the full-size FRIDURIT laboratory benchtop and sealed with permanently elastic silicone or by means of hardening.

A flush-mounted installation is only possible with the built-in versions, order code VBES or VBPE.



UNDER-FIXED

Sinks can be joined to the full-size FRIDURIT laboratory benchtops by means of hardening. No additional sink-support structures are in this case needed.

Alternatively, the sinks can also be sealed using permanently elastic silicone. In this case, a support structure must be provided by the customer. Permanently elastic sealing allows later dismantling of the sink.



FREE-STANDING VERSIONS

The sinks can be fastened, for example, on a wall bracket or pedestal provided by the customer.

Please always observe the material-related recommendations of the worktop manufacturer prior to fitting FRIDURIT top-mounted, flush-mounted and under-fixed sinks.



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