

Sterilization Containers



marSafe®
the alternative Solution



Contents

marSafe® Sterilization Container System

	Technology	5
	Materials	6-7
	Operation and handling	8-9
	Identification and logistics	10-11
	Economy	12-13
	Mesh tray System	14-15
1/2	Sterilization container size 1/2	
	Mesh trays and trays size 1/2	16-17
3/4	Sterilization container size 3/4	
	Mesh trays and trays size 3/4	18-19
DIN	1/1 Sterilization container size 1/1	
	Mesh trays and trays size DIN and 1/1	20-21
	Accessories for marSafe® containers	22-23
	Accessories for mesh trays	24-25
	Accessories for cleaning, transport, storage and disposal	26-27
	Container dimension sheets	28-30
	Mesh tray configurations	31
	Mesh tray dimension sheets	32-33



marSafe® Sterilization Container Systems

The alternative Solution

For over three decades the KLS Martin Group has repeatedly set standards in the field of sterile supplies for clinics and hospitals. Our packaging systems always aim to maximize patient safety and optimize daily procedures in the CSSD. That is how we became one of the world's leading manufacturers of sterilization container systems.

Numerous customers have confidence in our quality and experience and this is precisely why they prefer sterilization container systems from KLS Martin.

Requirements of the Standards

Our marSafe® containers meet the requirements of national and international standards for packaging systems:

- ISO 11607 Part 1 and Part 2
- EN 868 Part 8
- DIN 58953 Part 9
- CE marking in compliance with MDD 93/42 EEC
- Approved for steam sterilization in compliance with EN 285 and validated in compliance with ISO 17665 Part 1, as well as gravity sterilization

Materials

selected according to the Benefits
of their Characteristics



Aluminum Alloy with special Coating

The container bottom is made of a top-quality aluminum alloy with an anodized finish. The special CompoundPolid coating makes the container bottom even more resistant to chemical attack and normal wear.

The exceptionally low weight of the aluminum makes every container a genuine lightweight. Physical properties such as high heat storage capacity and thermal conductivity ensure optimal drying.

Smooth Surface

There are no protruding screws or rivets on the inside wall. The optimized microstructure of the surface has excellent tribological properties.

Perforated Bottom

The container bottoms in the marSafe® series are also available in perforated design. Consequently, the system is also suitable for gravity sterilization.



100% Reliability

The new lock mechanism is on the container bottom and not on the lid. No mechanical wear and no interfering parts during storage or machine reprocessing of the lid. It ensures an absolutely tangible, reliable connection between the lid and the container bottom. The two items become a dependable unit.

Operation and Handling

Reliable and time-saving

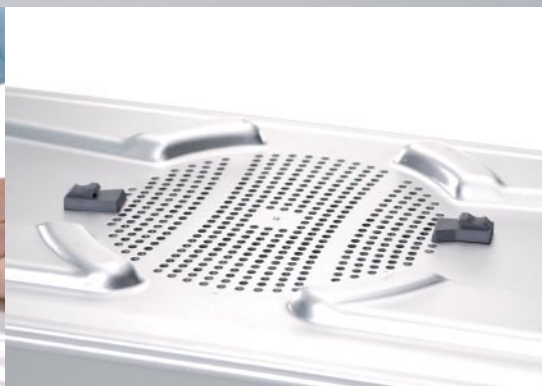


Anodized Aluminum Lid

The lid is made of anodized aluminum. This facilitates the drying of sterilized items. Soft edges and transitions on the interior and exterior simplify cleaning and disinfection. No matter whether reprocessing is performed manually or in a machine, the marSafe® system is ideal for both methods.

Attached Silicone Gasket

When selecting a gasket we opted for clinically suitable silicone material. With a new innovative bonding process it was possible to attach the gasket without the need for any ridges or separators. The gasket is therefore accessible at all times and is quick to visually inspect and clean in daily routine processes.



Space-saving permanent Companion

The innovative lid cover concept is optionally available for all container types. It protects the sterile barrier against direct interference and thus prevents the contents from being rendered non-sterile by external influences.

The protective cover can remain on the container permanently even during sterilization. However, if logistical requirements make removal necessary, it can be stored in an extremely space-saving manner.

It is the only protective system of its kind in the world to allow unlimited flexibility.

Easy to attach!

The protective cover is attached to the lid using two sliders made of high-performance plastic. It is therefore quick to remove and attach.

Identification and Logistics The Choice is yours!



Colored Fronts or the KLS Martin Principle

Flexible color coding on the front of the container makes it quick and easy to assign by color. What's more, we explicitly refrain from using colored anodized aluminum because the colors can turn pale after a while.

By applying the “slide'n go” principle the colored panel can be changed easily. As a result, changes in your logistical assignments are no problem.

Coding Labels

Even the attaching of coding labels is practical because the quick-change function is of slide-in design. Coding labels can be printed with text, a barcode, or a data matrix so the contents and destination of the container are evident.





Laser Marking

Our marSafe® series can naturally be provided with a long-life laser marking that shows you the article number of the container as a whole. Reorders are therefore no problem.

By means of the laser-marked, enciphered production code we can reconstruct at any time the date on which your container was manufactured. It is a major advantage when it comes to traceability.

Stackability

marSafe® sterilization containers can be stacked in a standard-compliant manner – even in combination with containers from the MicroStop® series. This enables safe, space-saving storage.



Proven Principles and new Approaches



Wide range of commonly used tamper evident locks

Paper Filter

In our marSafe® container series we rely on proven features. The sterile barrier consists of a paper filter with a filter holder. The paper filters are only suitable for single use so they ensure maximum safety.

The filters are attached to the lid with a filter holder, quickly clicking into place. A perimeter gasket ensures that the container is absolutely leakproof and that the filter remains firmly in place.

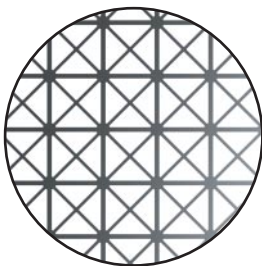
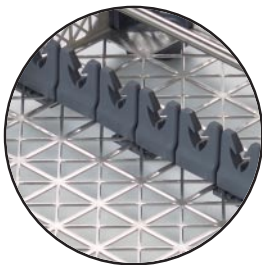


Two Methods – one Solution

When it comes to providing the container with a tamper evident lock as well we opt for familiar procedures. The marSafe® series requires a manual tamper evident lock. However, here too we have applied modern approaches. To avoid you having to unnecessarily change your consumables supplier we offer the world's first 2-lock principle.

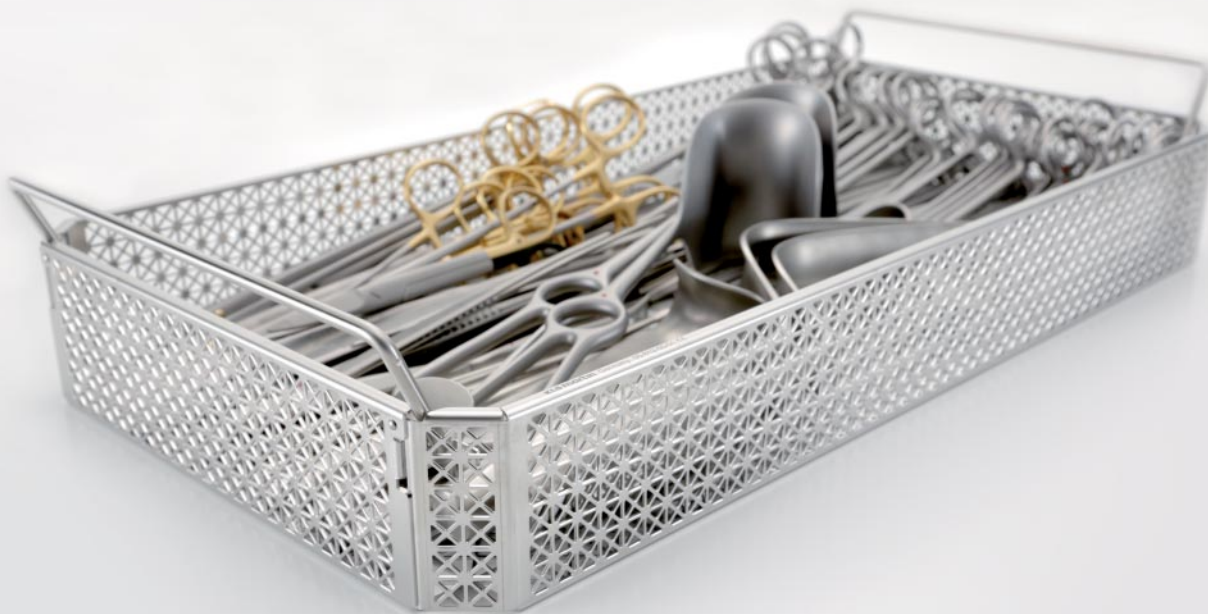
We make it possible to attach either standard-type tamper evident locks for sliding in from the side, or the dedicated KLS Martin Group tamper evident lock that is inserted from above and thus provides a more secure fit.

For Storage and Transport of sterile Supplies
The new Mesh Tray System



Benefits of the Mesh Tray System at a Glance:

- Perfect protection of your instruments due to optional holders and separators made of silicone.
- Thanks to the wide-mesh pattern you can achieve optimal cleaning results.
- Fenestrated corners mean the end of rinsing shadows.
- Wide handles facilitate transport of the mesh tray and allow perfect aseptic removal.
- Optionally available feet optimize stacking in the container.



Mesh Tray Overview





















The new mesh tray system is available in four different sizes and four different heights.

For each mesh tray size we offer an optional lid that can be very easily locked onto the mesh tray by folding down the handles.

Due to perfect stackability with the optional feet you can use multiple mesh trays in one sterilization container.

You will find all the possible stacking configurations for marSafe® containers toward the end of the brochure.



		Height	Mesh tray	
1		25 mm	1/2	
			3/4	
			DIN	
			1/1	
2		44 mm	1/2	
			3/4	
			DIN	
			1/1	
3		64 mm	1/2	
			3/4	
			DIN	
			1/1	
4		94 mm	1/2	
			3/4	
			DIN	
			1/1	

Sterilization Containers Half-Size (1/2)



marSafe® Containers, Size 1/2

Colored panel: dark gray	Height	closed	perforated
	110 mm	55-230-10-04	55-231-10-04
	140 mm	55-230-13-04	55-231-13-04
	160 mm	55-230-15-04	55-231-15-04
	210 mm	55-230-20-04	55-231-20-04
	270 mm	55-230-30-04	55-231-30-04

Colored panel: red	Height	closed	perforated
	110 mm	55-240-10-04	55-241-10-04
	140 mm	55-240-13-04	55-241-13-04
	160 mm	55-240-15-04	55-241-15-04
	210 mm	55-240-20-04	55-241-20-04
	270 mm	55-240-30-04	55-241-30-04

Colored panel: blue	Height	closed	perforated
	110 mm	55-250-10-04	55-251-10-04
	140 mm	55-250-13-04	55-251-13-04
	160 mm	55-250-15-04	55-251-15-04
	210 mm	55-250-20-04	55-251-20-04
	270 mm	55-250-30-04	55-251-30-04

marSafe® Containers, Size 1/2

Colored panel: orange	Height	closed	perforated
	110 mm	55-260-10-04	55-261-10-04
	140 mm	55-260-13-04	55-261-13-04
	160 mm	55-260-15-04	55-261-15-04
	210 mm	55-260-20-04	55-261-20-04
	270 mm	55-260-30-04	55-261-30-04

Colored panel: green	Height	closed	perforated
	110 mm	55-270-10-04	55-271-10-04
	140 mm	55-270-13-04	55-271-13-04
	160 mm	55-270-15-04	55-271-15-04
	210 mm	55-270-20-04	55-271-20-04
	270 mm	55-270-30-04	55-271-30-04

Colored panel: light gray	Height	closed	perforated
	110 mm	55-280-10-04	55-281-10-04
	140 mm	55-280-13-04	55-281-13-04
	160 mm	55-280-15-04	55-281-15-04
	210 mm	55-280-20-04	55-281-20-04
	270 mm	55-280-30-04	55-281-30-04

Mesh Trays and perforated Metal/Wire-Mesh Trays
Half-Size (1/2)



Mesh Trays



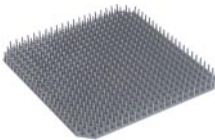
Perforated Metal/Wire-Mesh Trays



Wire-Mesh Trays

Height	Item no.	Dimensions (mm)	Item no.	Dimensions (mm)	Item no.	Dimensions (mm)
①	55-804-24-01	240 x 251 x 25	–		–	
②	55-804-25-01	240 x 251 x 44	55-811-24-01	240 x 250 x 60	55-808-24-01	240 x 240 x 50
③	55-804-26-01	240 x 251 x 64	55-811-25-01	240 x 250 x 75	–	
④	55-804-27-01	240 x 251 x 94	55-811-26-01	240 x 250 x 100	–	
Lid	55-805-28-01	243 x 255	–		–	

Silicone mat



55-807-24-04
234 x 244 mm

Silicone net



55-807-25-04
230 x 250 mm

Feet for mesh trays



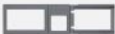
55-804-00-04


For mesh tray configurations
see page 31.


Sterilization Containers
Three-Quarter-Size
(3/4)




marSafe® Containers, Size 3/4


<div>Colored panel: dark gray</div> 	Height	closed	perforated
	110 mm	55-232-10-04	55-233-10-04
	140 mm	55-232-13-04	55-233-13-04
	160 mm	55-232-15-04	55-233-15-04
	–	–	–


<div>Colored panel: red</div> 	Height	closed	perforated
	110 mm	55-242-10-04	55-243-10-04
	140 mm	55-242-13-04	55-243-13-04
	160 mm	55-242-15-04	55-243-15-04
	–	–	–

<div>Colored panel: blue</div> 	Height	closed	perforated
	110 mm	55-252-10-04	55-253-10-04
	140 mm	55-252-13-04	55-253-13-04
	160 mm	55-252-15-04	55-253-15-04
	–	–	–

marSafe® Containers, Size 3/4

<div>Colored panel: orange</div> 	Height	closed	perforated
	110 mm	55-262-10-04	55-263-10-04
	140 mm	55-262-13-04	55-263-13-04
	160 mm	55-262-15-04	55-263-15-04
	–	–	–

<div>Colored panel: green</div> 	Height	closed	perforated
	110 mm	55-272-10-04	55-273-10-04
	140 mm	55-272-13-04	55-273-13-04
	160 mm	55-272-15-04	55-273-15-04
	–	–	–

<div>Colored panel: light gray</div> 	Height	closed	perforated
	110 mm	55-282-10-04	55-283-10-04
	140 mm	55-282-13-04	55-283-13-04
	160 mm	55-282-15-04	55-283-15-04
	–	–	–

Mesh Trays and perforated Metal/Wire-Mesh Trays
Three-Quarter-Size (3/4)



Mesh Trays



Perforated Metal/Wire-Mesh Trays



Wire-Mesh trays

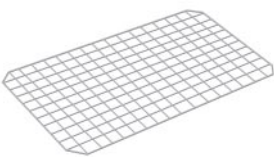
Height	Item no.	Dimensions (mm)	Item no.	Dimensions (mm)	Item no.	Dimensions (mm)
①	55-804-41-01	410 x 251 x 25	–		–	
②	55-804-42-01	410 x 251 x 44	55-811-41-01	410 x 250 x 60	55-808-50-01	410 x 240 x 50
③	55-804-43-01	410 x 251 x 64	55-811-42-01	410 x 250 x 75	55-808-70-01	410 x 240 x 70
④	55-804-44-01	410 x 251 x 94	55-811-43-01	410 x 250 x 100	–	
Lid	55-805-45-01	410 x 255	–		–	

Silicone mat



55-807-41-04
394 x 244 mm

Silicone net



55-807-42-04
400 x 250 mm

Feet for mesh trays



55-804-00-04

For mesh tray configurations
see page 31.

Sterilization Containers
Full-Size (1/1)



marSafe® Containers, Size 1/1

<div>Colored panel: dark gray</div> <div></div>	Height	closed	perforated
	110 mm	55-234-10-04	55-235-10-04
	140 mm	55-234-13-04	55-235-13-04
	160 mm	55-234-15-04	55-235-15-04
	210 mm	55-234-20-04	55-235-20-04
	270 mm	55-234-30-04	55-235-30-04

<div>Colored panel: red</div> <div></div>	Height	closed	perforated
	110 mm	55-244-10-04	55-245-10-04
	140 mm	55-244-13-04	55-245-13-04
	160 mm	55-244-15-04	55-245-15-04
	210 mm	55-244-20-04	55-245-20-04
	270 mm	55-244-30-04	55-245-30-04

<div>Colored panel: blue</div> <div></div>	Height	closed	perforated
	110 mm	55-254-10-04	55-255-10-04
	140 mm	55-254-13-04	55-255-13-04
	160 mm	55-254-15-04	55-255-15-04
	210 mm	55-254-20-04	55-255-20-04
	270 mm	55-254-30-04	55-255-30-04

marSafe® Containers, Size 1/1

<div>Colored panel: orange</div> <div></div>	Height	closed	perforated
	110 mm	55-264-10-04	55-265-10-04
	140 mm	55-264-13-04	55-265-13-04
	160 mm	55-264-15-04	55-265-15-04
	210 mm	55-264-20-04	55-265-20-04
	270 mm	55-264-30-04	55-265-30-04

<div>Colored panel: green</div> <div></div>	Height	closed	perforated
	110 mm	55-274-10-04	55-275-10-04
	140 mm	55-274-13-04	55-275-13-04
	160 mm	55-274-15-04	55-275-15-04
	210 mm	55-274-20-04	55-275-20-04
	270 mm	55-274-30-04	55-275-30-04

<div>Colored panel: light gray</div> <div></div>	Height	closed	perforated
	110 mm	55-284-10-04	55-285-10-04
	140 mm	55-284-13-04	55-285-13-04
	160 mm	55-284-15-04	55-285-15-04
	210 mm	55-284-20-04	55-285-20-04
	270 mm	55-284-30-04	55-285-30-04

Mesh Trays and perforated Metal/Wire-Mesh Trays DIN-Size and Full-Size (1/1)

1/1

DIN



DIN



Mesh Trays

Height	Item no.	Dimensions (mm)
①	55-804-48-01	477 x 251 x 25
②	55-804-49-01	477 x 251 x 44
③	55-804-50-01	477 x 251 x 64
④	55-804-51-01	477 x 251 x 94
Lid	55-805-52-01	480 x 255



Perforated Metal/Wire-Mesh Trays

Item no.	Dimensions (mm)
–	
55-811-48-01	480 x 250 x 60
55-811-49-01	480 x 250 x 75
55-811-50-01	480 x 250 x 100
–	



Wire-Mesh trays

Item no.	Dimensions (mm)
–	
55-808-48-01	480 x 240 x 50
–	
–	
–	

Silicone mat



55-807-48-04
464 x 244 mm

Silicone net



55-807-49-04
480 x 250 mm

Feet for mesh trays



55-804-00-04

For mesh tray configurations
see page 31.

1/1



Mesh Trays

Height	Item no.	Dimensions (mm)
①	55-804-54-01	532 x 251 x 25
②	55-804-55-01	532 x 251 x 44
③	55-804-56-01	532 x 251 x 64
④	55-804-57-01	532 x 251 x 94
Lid	55-805-58-01	535 x 255



Perforated Metal/Wire-Mesh Trays

Item no.	Dimensions (mm)
–	
55-811-51-01	510 x 250 x 60
55-811-52-01	510 x 250 x 75
55-811-53-01	510 x 250 x 100
–	



Wire-Mesh trays

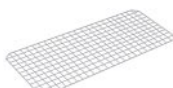
Item no.	Dimensions (mm)
–	
–	
55-808-75-01	500 x 240 x 75
55-808-99-01	500 x 240 x 100
–	

Silicone mat



55-807-54-04
524 x 244 mm

Silicone net



55-807-55-04
520 x 250 mm

Feet for mesh trays



55-804-00-04

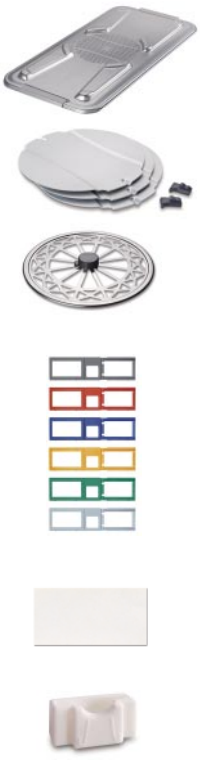
Accessories
for marSafe® Containers



The Choice is yours





No matter whether you require text, a barcode, or a data matrix – we'll print coding tags to your specific requirements, comprised of 4 lines with 16 characters each.

Accessories for marSafe® Containers

	Item no.	Lid
	55-290-30-04	for container 30 x 30 cm
	55-290-47-04	for container 47 x 30 cm
	55-290-60-04	for container 60 x 30 cm
	Protective cover	
	55-290-99-04	for marSafe® containers
	Filter holder	
	04-250-00-04	for marSafe® containers
	Colored panels	
	55-230-00-04	dark gray
	55-240-00-04	red
	55-250-00-04	blue
	55-260-00-04	orange
	55-270-00-04	green
	55-280-00-04	light gray
	Coding labels	
	55-291-20-04	no print
	55-291-21-04	with print
	Insertion aid	
	55-290-00-04	Insertion aid for changing the colored panels




Consumables for marSafe® Containers



   	Item no.	Paper filters
	55-291-01-04	Ø 190/6 mm (500 per pack)
	Item no.	Tamper evident lock
	55-996-84-04	for marSafe®, without indicator (1,000 per pack)
	55-996-85-04	for marSafe®, with indicator (1,000 per pack)
	55-996-81-04	for marSafe®, inserted from above, with indicator (1,000 per pack)
	Labels	
	55-291-11-04	without indicator, single, self-adhesive, 35 x 75 mm, roll of 2,000 pcs.
	55-291-12-04	without indicator, double, self-adhesive, 35 x 75 mm, roll of 2,000 pcs.
	55-291-13-04	with indicator, double, self-adhesive, 35 x 70 mm, roll of 2,000 pcs.


Mesh Trays and Wire Mesh Trays Accessories


Providing your mesh trays and trays with identification is easy. Labels can be printed with text, a barcode, or a data matrix. On 4 lines of 16 characters each we'll laser print your specific identification.

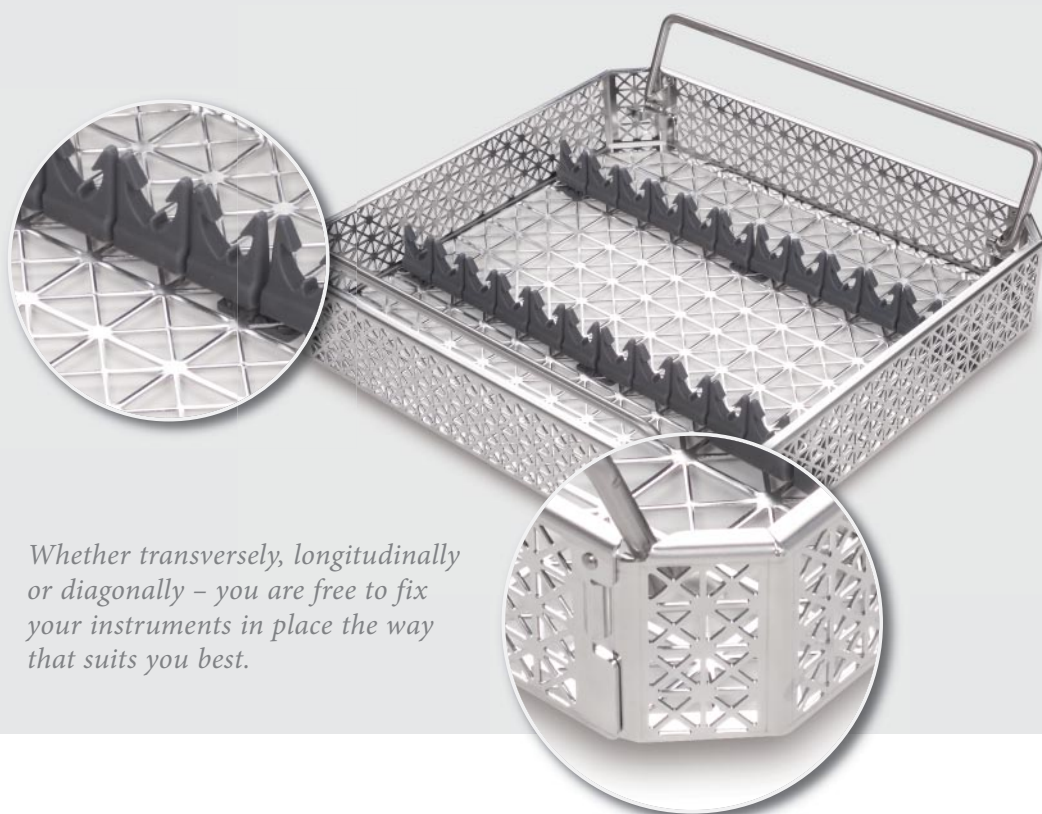
Identification Options for all Mesh Trays und Wire-Mesh Trays

	Item no.	Identification labels/stainless steel
	55-864-40-04	matt, with text
	55-864-41-04	matt, without text
	55-864-50-04	glossy, with text
	55-864-51-04	glossy, without text

 Beispielkonfiguration, bestehend aus 1x 55-864-30-04 1x 55-864-01-04 1x 55-864-16-04  Kennzeichnungsmöglichkeit Drahtsiebschale	Item no.	Description
	55-864-30-04	Holding clip
	55-864-01-04	Coding label with text, w/o hole
	55-864-02-04	Coding label w/o text, w/o hole
	Item no.	Logistics framelets
	55-864-10-04	black
	55-864-11-04	white
	55-864-12-04	red
	55-864-13-04	blue
	55-864-14-04	green
	55-864-15-04	yellow
	55-864-16-04	purple
	55-864-17-04	orange
	55-864-18-04	gray
	55-864-19-04	light-blue

	Item no.	Description
	55-996-10-04	Spring hook
	55-864-03-04	Coding label with text, with hole
	55-864-04-04	Coding label w/o text, with hole

	Item no.	Description
	55-804-00-04	Feet for basket



Whether transversely, longitudinally or diagonally – you are free to fix your instruments in place the way that suits you best.

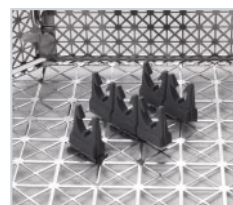
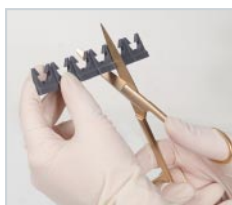


Accessories for Mesh Trays



Item no.	Description
55-806-02-04	Clip for fixing element (10/pack)
55-806-05-04	Fixing element 1, Ø 4-6 mm with clips
55-806-06-04	Fixing element 1, Ø 6-8 mm with clips
55-806-07-04	Fixing element 1, Ø 8-10 mm with clips
55-806-50-04	Separator, 123 x 9 x 22 mm with clips
55-806-51-04	Separator, 123 x 9 x 40 mm with clips

Fixing elements are available as 6-item (one-piece) units with three holding clips. However, you can easily cut off the units with a pair of scissors – just as you need it.



Sterile Supplies Cycle

Packing



80-105-00-04
Test unit "marTest" for testing
HF-surgical accessories

Sterilization



55-890-15-07
Sterilization basket
600 x 300 x 130 mm



55-890-30-07
Sterilization basket
600 x 300 x 260 mm

Transport and Storage



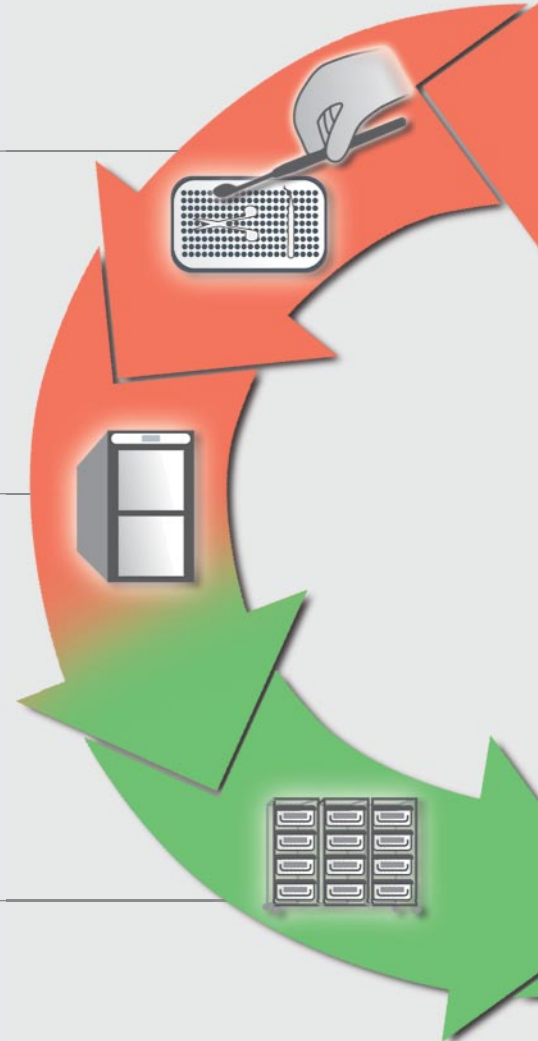
55-998-01-01
Sterile supplies table
with cover storage rails
700 x 460 x 900 mm

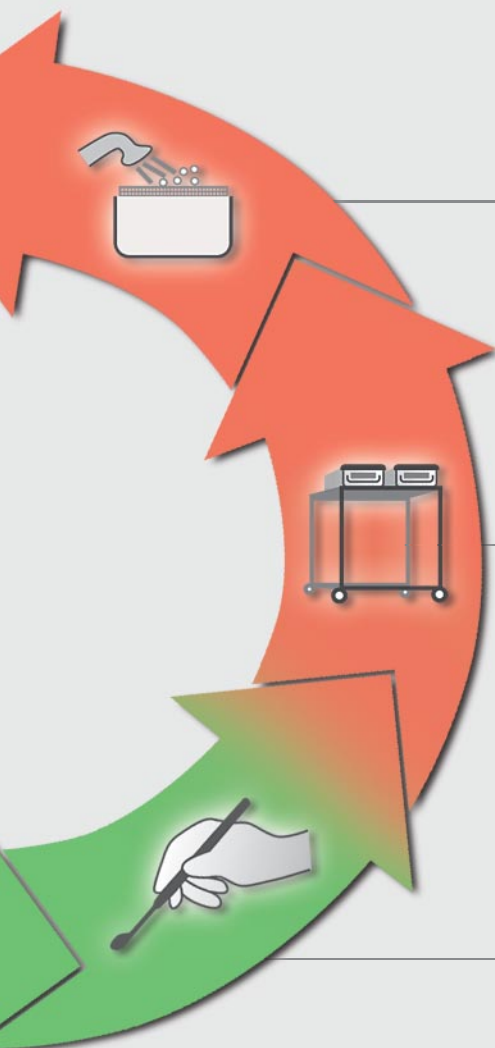


55-998-02-01
Sterile supplies table
with cover storage rails
700 x 700 x 900 mm



55-998-03-01
Transport and storage trolley,
with two height-adjustable shelves
(55-mm increments)
1175 x 675 x 1367 mm





Cleaning and Disinfection

Disposal

Use



55-998-04-01
Transport and storage compartment trolley,
with storage rails for nine STUs,
adjustable in height (55-mm increments)
1155 x 675 x 1367 mm



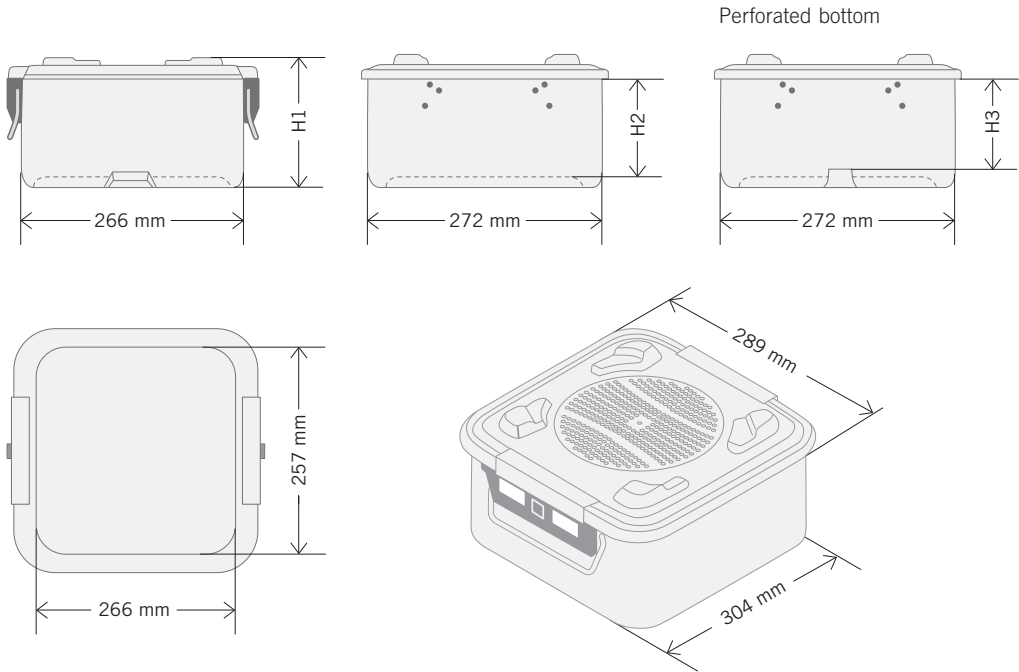
55-998-05-01
Mobile container cabinet
with storage rails for nine STUs,
adjustable in height (55-mm increments)
1249 x 754 x 1435 mm

Dimension Sheet for Size 1/2
marSafe® Containers, 300 x 300 mm

marSafe® Containers, Size 1/2

Item no.	H1	H2	H3
55-230-10-04	112 mm	77 mm	64 mm
55-230-13-04	133 mm	98 mm	85 mm
55-230-15-04	154 mm	119 mm	106 mm
55-230-20-04	210 mm	175 mm	162 mm
55-230-30-04	262 mm	227 mm	214 mm

Actual dimensions are subject to tolerances and can, for production reasons, be slightly different from the specifications. Subject to technical changes without notice.



H1 = external height
H2 = internal height
H3 = internal height of perforated bottom

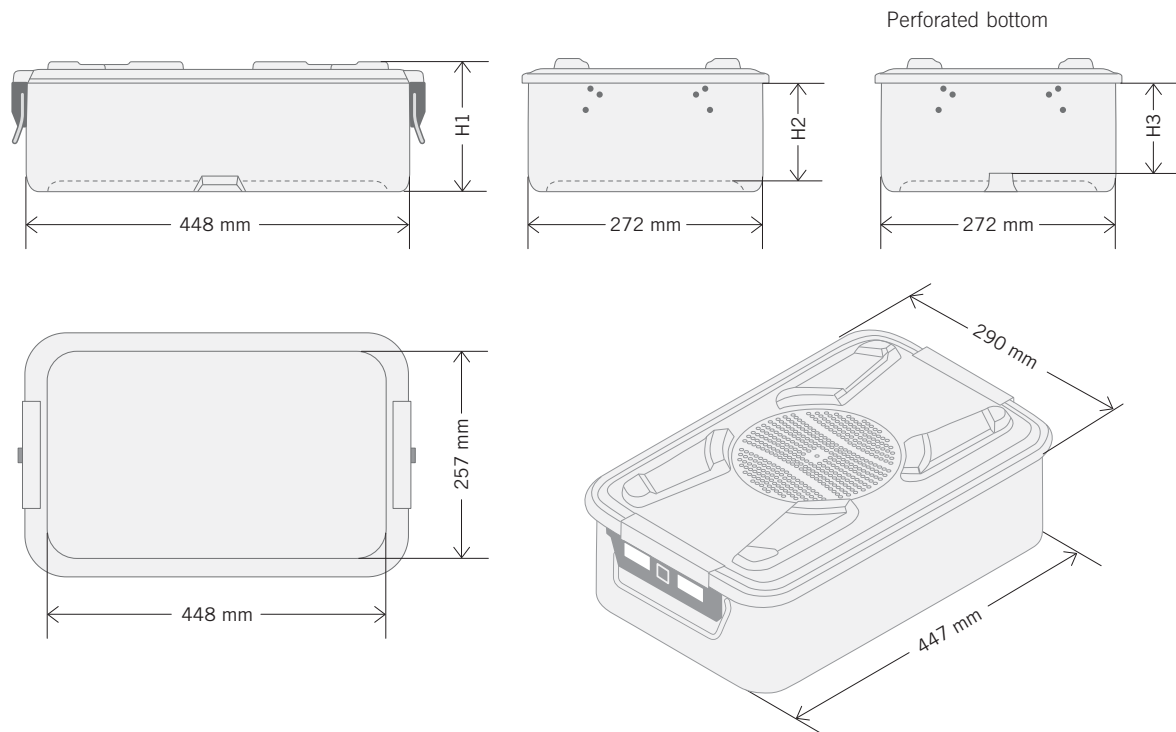
Dimension Sheet for Size 3/4

marSafe® Containers, 470 x 300 mm

marSafe® Containers, Size 3/4

Item no.	H1	H2	H3
55-232-10-04	112 mm	77 mm	64 mm
55-232-13-04	133 mm	98 mm	85 mm
55-232-15-04	154 mm	119 mm	106 mm

Actual dimensions are subject to tolerances and can, for production reasons, be slightly different from the specifications. Subject to technical changes without notice.



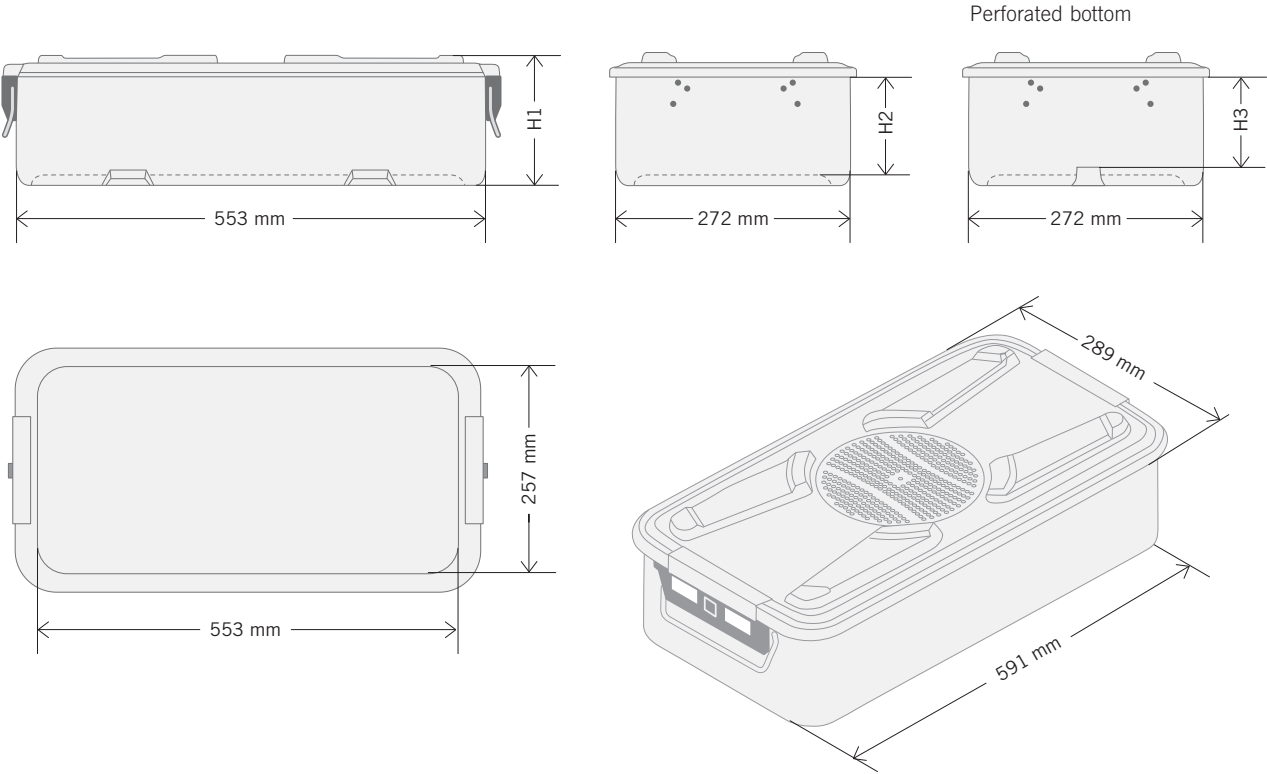
H1 = external height
H2 = internal height
H3 = internal height of perforated bottom

Dimension Sheet for Size 1/1
marSafe® Containers, 600 x 300 mm

marSafe® Containers, Size 1/1

Item no.	H1	H2	H3
55-234-10-04	112 mm	77 mm	64 mm
55-234-13-04	133 mm	96 mm	85 mm
55-234-15-04	154 mm	119 mm	106 mm
55-234-20-04	210 mm	157 mm	162 mm
55-234-30-04	262 mm	227 mm	214 mm

Actual dimensions are subject to tolerances and can, for production reasons, be slightly different from the specifications. Subject to technical changes without notice.



H1 = external height
H2 = internal height
H3 = internal height of perforated bottom






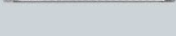











Mesh Tray Configurations for marSafe® Containers

Which mesh tray combinations can be stacked in which marSafe® containers?

We'll be pleased to help you put together a state-of-the-art storage and packaging system. The table below shows you all the mesh tray configuration options available.

From the various combinations simply select the one that is ideal for the storage and transport of your specific instrument mesh tray or tray.

Tray Configurations

 110 mm	 1 1	 2		
 140 mm	 1  2	 3		
 160 mm	 1 1 1	 2 2	 1 3	 4
 210 mm	 2 2 2	 3 3	 2  4	

Note: Containers with a height of 272 mm are only suitable for the sterilization and storage of linen.
Feet 55-804-00-04 are recommended for stacking.

Dimension Sheet

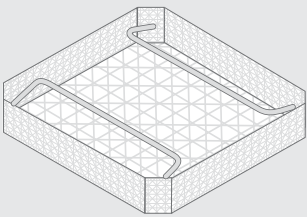
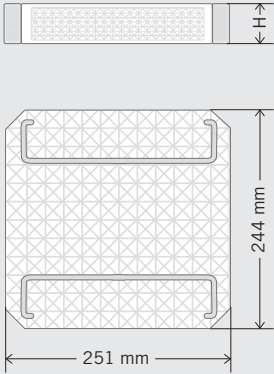
marSafe® Mesh Trays

marSafe® Mesh Tray, Size 1/2

Item no.	H
55-804-24-01	25 mm
55-804-25-01	44 mm
55-804-26-01	64 mm
55-804-27-01	94 mm

Actual dimensions are subject to tolerances and can, for production reasons, be slightly different from the specifications. Subject to technical changes without notice.

When feet are used, dimension "H" increases by 13 mm.

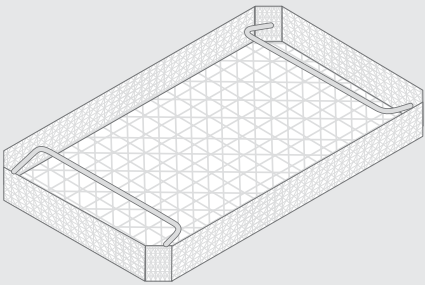
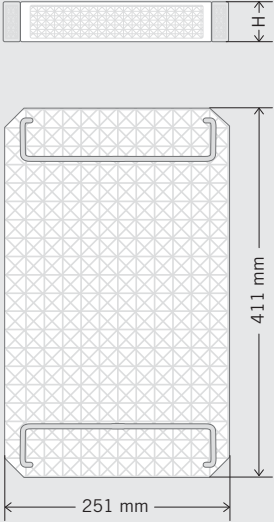


marSafe® Mesh Tray, Size 3/4

Item no.	H
55-804-41-01	25 mm
55-804-42-01	44 mm
55-804-43-01	64 mm
55-804-44-01	94 mm

Actual dimensions are subject to tolerances and can, for production reasons, be slightly different from the specifications. Subject to technical changes without notice.

When feet are used, dimension "H" increases by 13 mm.

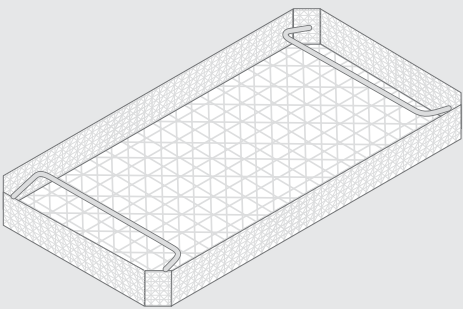
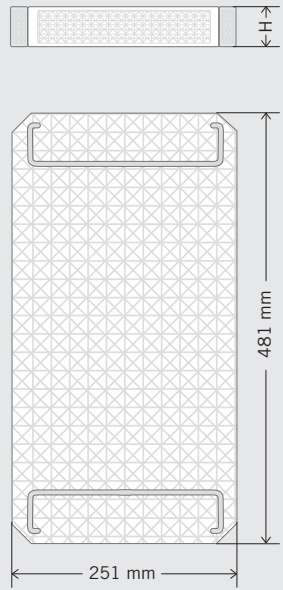


marSafe® Mesh Tray, Size DIN

Item no.	H
55-804-48-01	25 mm
55-804-49-01	44 mm
55-804-50-01	64 mm
55-804-51-01	94 mm

Actual dimensions are subject to tolerances and can, for production reasons, be slightly different from the specifications. Subject to technical changes without notice.

When feet are used, dimension "H" increases by 13 mm.

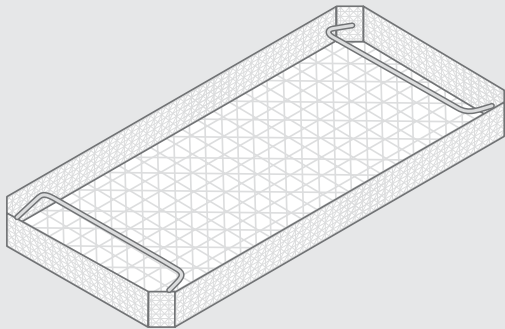
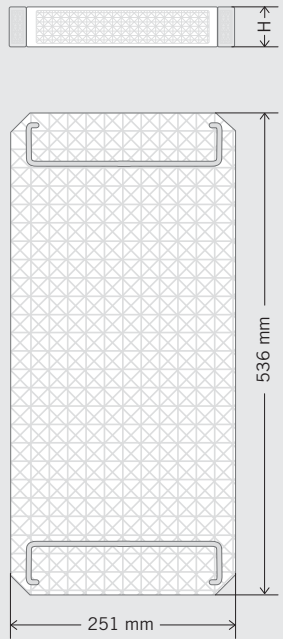


marSafe® Mesh Tray, Size 1/1

Item no.	H
55-804-54-01	25 mm
55-804-55-01	44 mm
55-804-56-01	64 mm
55-804-57-01	94 mm

Actual dimensions are subject to tolerances and can, for production reasons, be slightly different from the specifications. Subject to technical changes without notice.

When feet are used, dimension "H" increases by 13 mm.



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Karl Leibinger Medizintechnik GmbH & Co. KG
78570 Mühlheim · Germany
Tel. +49 7463 838-0
info@klsmartin.com

KLS Martin GmbH + Co. KG
79224 Umkirch · Germany
Tel. +49 7665 98 02-0
info@klsmartin.com

Stuckenbrock Medizintechnik GmbH
78532 Tuttlingen · Germany
Tel. +49 7461 165880
verwaltung@stuckenbrock.de

Rudolf Buck GmbH
78570 Mühlheim · Germany
Tel. +49 74 63 99516-30
info@klsmartin.com

KLS Martin France SARL
68200 Mulhouse · France
Tel. +33 3 89 51 3150
france@klsmartin.com

Martin Italia S.r.l.
20871 Vimercate (MB) · Italy
Tel. +39 039 605 6731
italia@klsmartin.com

Martin Nederland/Marned B.V.
1271 AG Huizen · The Netherlands
Tel. +31 35 523 45 38
nederland@klsmartin.com

KLS Martin UK Ltd.
Reading RG1 3EU · United Kingdom
Tel. +44 1189 000 570
uk@klsmartin.com

Nippon Martin K.K.
Osaka 541-0046 · Japan
Tel. +81 6 62 28 9075
nippon@klsmartin.com

KLS Martin L.P.
Jacksonville, FL 32246 · USA
Tel. +1 904 641 7746
usa@klsmartin.com

Gebrüder Martin GmbH & Co. KG
Representative Office
121471 Moscow · Russia
Tel. +7 499 792-76-19
russia@klsmartin.com

Gebrüder Martin GmbH & Co. KG
Representative Office
201203 Shanghai · China
Tel. +86 21 2898 6611
china@klsmartin.com

Gebrüder Martin GmbH & Co. KG
Representative Office
Dubai · United Arab Emirates
Tel. +971 4 454 16 55
middleeast@klsmartin.com

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Gebrüder Martin GmbH & Co. KG
A company of the KLS Martin Group
KLS Martin Platz 1 · 78532 Tuttlingen · Germany
Postfach 60 · 78501 Tuttlingen · Germany
Tel. +49 7461 706-0 · Fax +49 7461 706-193
info@klsmartin.com · www.klsmartin.com

