

2026



From February 2026

X-Ray Protective Clothing & Accessories

In the Field of Medical Radiation

MAVIG

MAVIG



MAVIG looks back on a long history

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SAFETY SINCE 1921

MADE IN GERMANY



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For over **100 years**, MAVIG has specialised in personal protection at workplaces where people are exposed to radiation.



What began in Leipzig in 1921 with the production of protective products for X-ray and welding has now become an internationally successful company in Munich with an excellent reputation in the field of radiation protection and medical support systems for hospitals and medical practices.



1921



1960



1972



1985



since 2006



MAVIG looks back on a long history.

Over 100 years of quality, service and innovation, through three family generations that upheld these principles and led motivated employees who subscribed to our vision: right through to the present and into the future. In Germany. In Europe. Worldwide.

We all strive not just to satisfy our customers and partners, but to inspire them. With outstanding service, technical innovations and ongoing developments.

With craftsmanship, know-how, state-of-the-art technology and above all – with enthusiasm.

The family-run company “MAVIG” has always maintained the principles of a modern company: **“The customer and customer satisfaction are the top priority.”**

MAVIG is 100% independent and owner-managed.

Quality Management

MAVIG products are designed, manufactured and distributed in strict observance of all laws, regulations and standards.

Every product is tested for its safety and reliability, in some cases applying higher and stricter requirements than are required by law.

Certifications

The intended use of our products requires the maximum reliability and quality.

To ensure the highest level of quality, MAVIG applies a consistent quality management system in accordance with

DIN EN ISO 13485:2016

for medical devices. Our top priority is to provide our customers with high-quality products that are free from defects and delivered on time.

MAVIG is certified in accordance with DIN EN ISO 13485:2016. The majority of MAVIG products are CE certified: Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices. In addition, we have numerous international certificates.

Design

To the Highest Standards



DIN EN 61331-1:2016

DIN EN 61331-1:2016 (IEC 61331-1:2014) describes the correct determination of the shielding properties of materials used in protection against radiation.

Of importance here, among other things, is the consideration of **inverse broad beam geometry**, which detects any **fluorescent radiation** that may arise using measurement technology. This may occur more frequently in the case of lead-reduced or lead-free radiation protection material. As this low-energy type of radiation type is **biologically very active** and can pose a risk to the user, the current standard is therefore of great importance.

Furthermore, it is obligatory for every manufacturer to prove the **protective effect** of the apron over the entire X-ray tube voltage range of **50 kV to 110 kV and/or 150 kV**.

This is necessary because the protective effect shows a clear decrease at the lower and upper end of the X-ray tube voltage range, especially in the case of lead-reduced or lead-free protective material.

MAVIG uses for the production of X-ray protective clothing solely materials that are classified according to this standard.

CE Marking of Personal Protective Equipment

X-ray protective clothing for healthcare staff and for patients falls under the legally binding EU Directives 2016/425 for personal protective equipment (PPE) and 2017/745 for medical devices.



Please always check whether the product that you want to use is marked correctly!

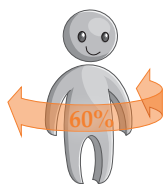
The familiar CE symbol alone is not sufficient here; the four-digit registration number issued by the authorised certification agency (notified body) must also be stated.

Naturally, all MAVIG products are correctly certified. With us, you "play it safe" in every respect.

CE 0302

DIN EN 61331-3:2016

The current DIN EN 61331-3:2016 (IEC 61331-3:2014) deals with the design of X-ray protective clothing. In order to meet these requirements, MAVIG X-ray protective clothing has been further developed and additionally optimised in a user-oriented manner.



To protect the sides of the body as well, the front area of the protective clothing must cover **60% of the user's girth at its widest point**. Sophisticated weight-distributing mechanisms are extremely important, as the aprons will consequently have an altered overall weight.

Furthermore, the third part of the series of standards calls for more **transparency regarding the properties of the radiation protection material used**. The **weight per unit area** must be indicated on the apron to make it easier for the user to compare the protective clothing.



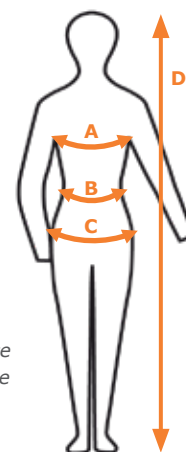
The aprons have to be **assigned to the body measurements**, so that it is easier to select the appropriate apron without the need to try them on. (see table)

Sizing According to the Standard

The person's height, as well as either circumference of the **chest, waist or hip**, depending on which of the three dimensions is the greatest, is used for this purpose.

Exception for models RA632 and RA636: For an optimal fit and minimal armholes the size depends on the girth of the **chest**. If your waist or hips require a different size, we recommend using a combination of a vest (RA631) and skirt (RA631).

- A** Chest circumference
- B** Waist circumference
- C** Hip circumference
- D** Body height



ALL-ROUND PROTECTION

Costume	Vest	Coat	Coat
BALANCE	VICTORIA	SYNERGY	VICTORIA
RA631	RA631	RA632	RA636

FRONT PROTECTION

Apron	Apron	Apron	Apron
EXTENDED	TWIECE	ERGONOMIC	COMFORT
RA641	RA645	RA650	RA660

Overview of the size allocations of the PPE model series from MAVIG

		XS	S	M	L	XL	XXL	3XL
RA631	Chest circumference (for vest)	≤ 84 cm	85 - 95 cm	96 - 106 cm	107 - 117 cm	118 - 128 cm	129 - 139 cm	140 - 150 cm
	Waist/hip circumference (for skirt)	≤ 86 cm	87 - 97 cm	98 - 107 cm	108 - 118 cm	119 - 129 cm	130 - 140 cm	141 - 151 cm
	Lengths (skirt) for a body height of	65 cm 150 - 170 cm	70 cm 170 - 180 cm	75 cm 180 - 190 cm	80 cm 190 - 200 cm			
RA632, RA636	Chest circumference	≤ 84 cm	85 - 95 cm	96 - 106 cm	107 - 117 cm	118 - 128 cm	129 - 139 cm	140 - 150 cm
	Waist/hip circumference	≤ 98 cm	99 - 108 cm	109 - 119 cm	120 - 130 cm	131 - 141 cm	142 - 152 cm	153 - 163 cm
	Lengths (coat) for a body height of	90 cm 150 - 160 cm	100 cm 160 - 170 cm	110 cm 170 - 180 cm	120 cm 175 - 190 cm	130 cm 185 - 195 cm	140 cm 195 - 205 cm	
RA641, RA650, RA660	Chest circumference	≤ 84 cm	85 - 95 cm	96 - 106 cm	107 - 117 cm	118 - 128 cm	129 - 139 cm	140 - 150 cm
	Waist/hip circumference	≤ 91 cm	92 - 102 cm	103 - 112 cm	113 - 123 cm	124 - 134 cm	135 - 145 cm	146 - 156 cm
	Lengths (apron) for a body height of	90 cm 150 - 160 cm	100 cm 160 - 170 cm	110 cm 170 - 180 cm	120 cm 175 - 190 cm	130 cm 185 - 195 cm	140 cm 195 - 205 cm	
RA645	Chest circumference (for vest)	≤ 84 cm	85 - 95 cm	96 - 106 cm	107 - 117 cm	118 - 128 cm	129 - 139 cm	140 - 150 cm
	Waist/hip circumference (for skirt)	≤ 91 cm	92 - 102 cm	103 - 112 cm	113 - 123 cm	124 - 134 cm	135 - 145 cm	146 - 156 cm
	Lengths (skirt) for a body height of	65 cm 150 - 170 cm	70 cm 170 - 180 cm	75 cm 180 - 190 cm	80 cm 190 - 200 cm			

Protection Inside

High Performance Radiation Protection

The quality demands for X-ray protective clothing are now greater than ever. Wearing times of the protective clothing are extended by modern, radiologically supported procedures in diagnostics and treatment. The protection requirement differs widely depending on the intended use.

MAVIG, as the international market leader for radiation protection, offers you a well thought-out variant policy and a sophisticated and wide range of models.

We use two different inner materials for your protection as a radiation user (RA), which are considered to be one of the lightest materials on the market. This guarantees protection from X-rays, and we can also minimise the physical strain caused by wearing personal protective equipment (PPE).

Safety & Control

Through extensive research and testing we ensure a healthy work environment for the users of our products, with the greatest possible ecological and toxicological harmlessness.

This is achieved by the careful selection of the materials as well as our suppliers and strict controls in the production process and the final recycling of the materials.



Protective Material

Weight/Area

Lead Equivalent

X-ray Tube Voltage	50 kV
	70 kV
	90 kV
	110 kV
	150 kV

User Protection / Patient Protection Dental

Further Patient Protection

1 NovaLite® Plus
X-Ray Protective Material
50 - 150 kV

- ✓ Lead-containing protective material
- ✓ High quality, flexible quality
- ✓ Outstanding rating with regard to weight and radiation protection
- ✓ Also for applications in the upper X-ray tube voltage range, e.g. CT applications
- ✓ Tested radiation protection in the X-ray tube voltage range of 50 - 150 kV
- ✓ Compliant with standards: IEC 61331-1:2014 / DIN EN 61331-1:2016

2 Leadfree 2.0
X-Ray Protective Material
50 - 110 kV

- ✓ Lead-free protective material
- ✓ Outstanding rating with regard to weight and radiation protection
- ✓ Fulfilment of basic work-related physiological requirements
- ✓ For workplaces with long wearing times for protective clothing
- ✓ Tested radiation protection in the X-ray tube voltage range of 50 - 110 kV
- ✓ Compliant with standards: IEC 61331-1:2014 / DIN EN 61331-1:2016

Standard Lead
X-Ray Protective Material
Only for patient protection
50 - 150 kV

- ✓ Lead-containing protective material
- ✓ Also for applications in the upper X-ray tube voltage range, e.g. CT applications
- ✓ Tested radiation protection in the X-ray tube voltage range of 50 - 150 kV
- ✓ Compliant with standards: IEC 61331-1:2014 / DIN EN 61331-1:2016

Absorbtion Values and Weights per Unit of Area of MAVIG X-Ray Protection Inner Materials

	NovaLite® Plus			Leadfree 2.0			Standard Lead	
	3.15 kg/m ²	4.40 kg/m ²	6.30 kg/m ²	2.85 kg/m ²	4.05 kg/m ²	5.70 kg/m ²	6.80 kg/m ²	13.9 kg/m ²
	0.25 mm Pb	0.35 mm Pb	0.50 mm Pb	0.25 mm Pb	0.35 mm Pb	0.50 mm Pb	0.50 mm Pb	1.00 mm Pb
	99 %	> 99 %	> 99 %	99 %	> 99 %	> 99 %	> 99 %	> 99 %
	95 %	98 %	99 %	96 %	98 %	99 %	99 %	> 99 %
	90 %	95 %	97 %	92 %	95 %	97 %	97 %	99 %
	86 %	92 %	95 %	87 %	93 %	96 %	96 %	99 %
	79 %	87 %	92 %	-	-	-	93 %	99 %

Outside Comfort

Best Wearing Comfort and Modern Processing

Smoothness and flexibility are special quality features of MAVIG X-ray protective clothing.

In order to further optimise the wearing comfort for the user, a special emphasis is placed on selective tailoring and top workmanship in our factory.

MAVIG's innovative textiles were developed in accordance with the relevant requirements of DIN EN 13795-1:2019. This series of standards sets vital, reasonable safety requirements for the necessary quality of surgical textiles for the protection of patients and staff from infections. The following requirements were used as a basis for performance capability:

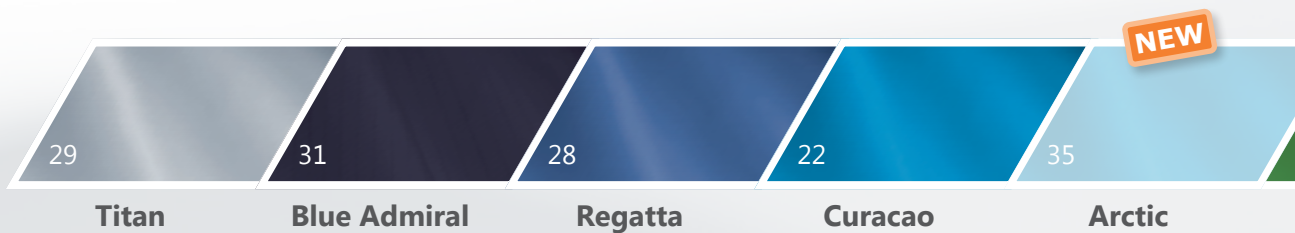
- **Protection for the staff and the patients**
- **High barrier function**
- **Optimal hygiene/cleaning**
- **Low particle release**
- **Material strength**
- **Protection against electrostatic charge**



Our ComforTex® Materials are PFC-free: Progress for the Environment and Health

Thanks to a new technology of MAVIG in the production process of the outer materials for your X-ray and patient protective clothing, the use of fluorinated chemicals is completely dispensed.

This means that the product remains free of hazardous PFCs throughout its life cycle (per- and polyfluorinated chemicals, also known as fluorocarbons).



In order to best meet your needs in everyday working life, you can choose from several variants of our ComforTex® HPMF outer material.

ComforTex® HPMF

Our ComforTex HPMF forms the basis of our outer material. It combines maximum comfort with optimal hygiene and cleaning properties.

Additionally, it offers safety and protection against electrostatic charge, which could affect the proper functioning of sensitive medical devices.

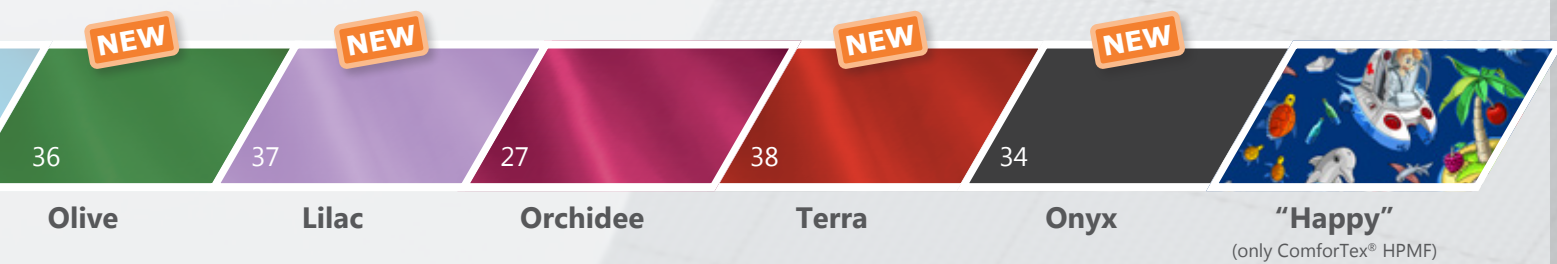
ComforTex® HPMF Hybrid

Thanks to a special coating, the surface on the outside of the protective clothing made from hybrid material offers particularly good hygiene and cleaning properties.

The side that comes into contact with the body is made from ComforTex HPMF to ensure excellent wearing comfort.

ComforTex® HPMF Duplex

In the case of duplex material, the special coating from ComforTex HPMF Hybrid is used on both sides for good hygiene and cleaning properties.



Please note that for printing reasons, the colours in the photos may differ from the original product colours.

Revolution Levio®



NEW



The Levio® Concept Even easier?!

For some time now, the focus has been on **reducing the weight** of personal protective equipment.

The MAVIG Levio Edition addresses this challenge – it optimises the weight/protection ratio and protects where protection is particularly effective.

To achieve this, an additional layer of radiation protection material, **the Levio panel**, is inserted in the area from above the **chest to below the gonads**. This effectively reduces the effective dose, as this area contains your most radiation-sensitive organs.

The Levio Edition is available for selected models of MAVIG's portfolio of X-ray protective clothing.

Start



Levio Panel

The panel from MAVIG's innovative Levio concept is now **standardised**.

When selecting your Levio X-ray protective clothing, only the size and length of the apron are required, as with the Classic Edition.

NEW



End

* Start of the second layer Length from the middle of the shoulder to above the breast: 15 cm

* End of the second layer RA631 skirt: Length from the waist to below the gonads: depending on the skirt length:
65 cm - 36 cm, 70 cm - 38 cm, 75 cm - 40 cm, 80 cm - 42 cm

RA636 Victoria coat: Length from the middle of the shoulder to below the gonads: depending on the length of the coat:
90 cm - 71 cm, 100 cm - 74 cm, 110 cm - 77 cm, 120 cm - 80 cm, 130 cm - 83 cm, 140 cm - 86 cm

RA632, RA660: Length from the middle of the shoulder to below the gonads: depending on the length of the apron:
90 cm - 81 cm, 100 cm - 84 cm, 110 cm - 87 cm, 120 cm - 90 cm, 130 cm - 93 cm, 140 cm - 96 cm

For Optimised Protection. Lead Equivalent. Protection Factor.

MAVIG is the first manufacturer of radiation protective clothing (PPE) to develop an **approved and certified apron collection** that implements the concept of increased protection for the most radiation-sensitive organs of the body – the **Levio Edition**.

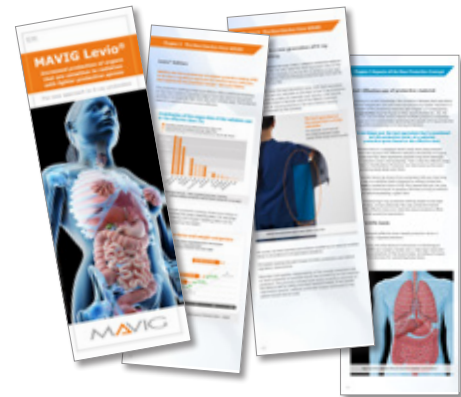
The basis for the Levio Edition is always an X-ray protection apron with a standard-compliant lead equivalent value of 0.25 mm Pb (front or all-round protection, depending on the type). You have the choice of how high the **additional shielding** (Levio panel) **for the most radiation-sensitive organs** from the chest to below the gonads should be.

Scientifically Based. Proven. Certified.

The details of the publications and results can be found in our scientifically prepared brochure. You can find it online on our website or on request.

www.mavig.com/levio

Levio® 
Optimised Protection Concept



NEW

Standard Panel LEVIO is manufactured using measurements based on average values (page 12, below). Before ordering a LEVIO apron, please check whether these values are suitable for your body.



Advantages

- ✔ **Increased protection for the centre of the body** (0.42 mm Pb)
- ✔ Same weight (compared to classic 0.35 mm Pb)
- ✔ Type-examination certificate according to (EU) 2016/425, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016
- ✔ Available for selected MAVIG aprons

Advantages

- ✔ Equal protection of the centre of the body (0.50 mm Pb)
- ✔ **More than 10% weight reduction** (compared to classic 0.50 mm Pb)
- ✔ Type-examination certificate according to (EU) 2016/425, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016
- ✔ Available for selected MAVIG aprons



Worldwide Unique!

Victoria-Collection



Innovative X-ray protection that takes the female anatomy into account.

Discover the new fusion of functionality and style that combines safety and aesthetic design to meet the needs and demands of women in interventional radiology.

With specially adapted armholes, the Victoria RA631 vest and the Victoria RA636 coat offer ideal protection for the sensitive breast tissue without compromising the freedom of movement.

Princess seams (longitudinal dividing seams for a close-fitting cut) on the front ensure an ideal fit, while a stretch insert in the back ensures an optimal adaptation to the body shape.

The future of X-ray protection - developed by women for women: Discover comfort and functionality in perfect balance.

Rely on the Victoria collection - protective equipment that perfectly combines safety and aesthetic design.



- ✓ X-ray protective vest or coat especially for women
- ✓ Ideal fit, maximum comfort for the wearer
- ✓ Does not require a full overlap at the front
- ✓ RA631V: For combination with the regular X-ray protective skirt (see MAVIG RA631)
- ✓ RA636: Continuous support thanks to the elastic stretch belt (width 10 cm, included)
- ✓ Perfect for long wearing times
- ✓ Standard features include shoulder pads
- ✓ Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

Victoria RA631

ALL-ROUND
PROTECTION: VEST

Victoria RA636

ALL-ROUND
PROTECTION: COAT



NEW

RFID Chip Included

Process Optimisation. Cost Reduction. Time Savings.

Our entire range of radiation protection clothing is equipped with a sewn-in RFID chip.

It is located inside the folded label and enables the data to be read directly using an RFID reader.

This eliminates the need for manually copying the data, which saves time as well as money and significantly optimises collecting the apron data as well as the overall inspection process.

Current Legal Requirements. Optimal Control.

The condition of a radiation protection apron must be checked regularly, e.g. in accordance with the specifications of DIN 6857-2:2021.

The sewn-in chip helps to uniquely identify the apron (serial number).

In addition to the serial number, the production date can be read of the chip, so that you have a 'starting point' from which you can align your self-selected cycle (e.g. once a year).



RFID chip included



Outlast® Inlay



Outlast Temperature Regulation

Outlast® Inlay. Patented Temperature Regulation.

MAVIG uses a tried-and-tested inlay material for all its headwear: Outlast®

The Outlast® technology enhances textiles by providing the intelligent benefit of a dynamic, proactive temperature regulation.

The Outlast® inlay material absorbs heat specifically, stores and releases it again when needed, to achieve an ideal temperature for well-being.

Decades of Experience. Environmentally Friendly Quality.

Over 30 years of profound experience are within Outlast® materials. These are ecologically harmless, free of harmful substances and certified according to Oeko-Tex® Standard 100.

Convenient Climate. Phase Change Materials (PCM).

In contrast to other materials and insulations, Outlast® products continuously and proactively regulate the temperature to maintain a balanced climate.

The result: Greater comfort.

Not too hot, not too cold, but „just right“.

The advantages at a glance:

- Active temperature regulation
- Even heat distribution
- Less overheating
- Reduced perspiration
- More comfort



Balance RA631

Complete protection and comfort with our radiation protection vest and skirt combination

The radiation protection vest and skirt combination offers you comprehensive protection and maximum wearing comfort. Here are the highlights:

- ✔ **Overlapping Front Panels:** The front panels of the vest and skirt overlap completely in order to provide the desired protection.
- ✔ **Perfect Fit:** The vest and skirt fit perfectly and are extremely comfortable, even when worn for long periods of time. The weight is evenly distributed, which ensures a high level of comfort.
- ✔ **Durability and Safety:** Shoulder pads that are included as a standard and a snap fastener at the bottom of the skirt ensure a secure and comfortable fit.
- ✔ **High-quality Hook and Loop Fasteners:** The vest and skirt feature high quality hook and loop fasteners for an easy fit and durability.
- ✔ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016



Optionally, the vest can be fitted with a 16 cm wide, **button-on stretch belt**. This provides even more weight relief for the shoulders and also supports the back.

An elastic insert in the rear of the skirt makes it easy for the user to hold their posture and can be easily replaced if necessary, thanks to a zip.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or Leadfree 2.0



Front:
0.25 mm Pb, 0.35 mm Pb
or 0.50 mm Pb

Back generally:
0.25 mm Pb

Protection/Lead Equivalent Levio Edition

Novalite® Plus or Leadfree 2.0



Total value Levio-Panel:
0.42 mm Pb or 0.50 mm Pb
(outside 0.25 mm Pb)

Back generally:
0.25 mm Pb

Experience comfort and comprehensive protection with our radiation protection vest and skirt combination - ideal for long periods of wear and the highest standards when it comes to safety and comfort.

Levio® 
Optimised Protection Concept

Patented Safety Features

I. Colour-accentuated Safety Zones

The special safety zones on the sides and in the shoulder area in the color "Titan" already offer the full protection of the front part. These zones ensure that you are always fully protected.

II. Protection Zone If the end of the front panels of the vest and the skirt are in the clearly visible zone, 60% of your body circumference is covered by the front protection value.

Levio® Edition

The costume RA631 is also available in our Levio Edition. Optimized weight-to-protection ratio: Instead of a uniform lead equivalent across the entire front area, Levio protects - from above the chest to below the gonads - with a higher lead equivalent.



RFID chip included

Shoulder Relief System

Combined the vest with our shoulder relief system BRYGGA (see page 32).

Outlast® – Ideal Temperature for Well-being

Optionally, the the costume RA631 can be equipped with Outlast technology. The Outlast® inlay material absorbs heat specifically, stores and releases it again when needed.

Higher Protection – Levio Edition

The area with the reinforced protective material is clearly recognisable by its colour.

Back Relief

The elastic insert in the back of the skirt makes it easier for users to maintain their posture in daily routines.

Free Movement

For greater freedom of movement, the skirt has a cut-out in the back. Of course, the knees are still optimally protected at the front and sides.

Overlapping Area

In order to ensure protection during movement (e.g. when bending over), the vest has sufficient length and it overlaps the skirt.



Outer Material

Colours
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

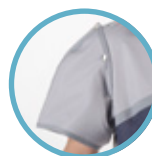
from XS to 3XL
(page 7)



Skirt lengths:
from 65 - 80 cm
(page 7)

Optional

(pages 32-37)



On request:
Sleeves
Stretch belt (external)
Breast pocket
Embroidery
Made-to-measure protection

Accessories/Replacement

Bolero (page 34)
Thyroid/sternum protection



Stretch insert skirt
(Adjustment via zip)
Stretch belt vest
(Adjustment via snap fastener)



Victoria RA631

Victoria radiation protection vest – Optimized fitted comfort and protection

The Victoria radiation protection vest has been specially developed for women to offer optimum protection and maximum comfort. As part of the Victoria collection, the vest combines modern functionality with an elegant design to meet the needs of women in interventional radiology.

Here are the key features:

- ✔ **Perfect Fit:** The vest fits ideally and is particularly comfortable to wear without the need for a full front overlap.
- ✔ **Compatible:** It can be easily combined with our radiation protection skirt (see pages 16 - 17 / vest and skirt combination RA631).
- ✔ **Comfortable and Practical:** Equipped with shoulder pads as a standard, the vest offers maximum comfort, especially when worn for long periods of time.
- ✔ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

Hint: Please note that sleeves cannot be attached to the Victoria vest due to the adapted armholes. Please combine the Victoria vest with the bolero RA637 (page 34).

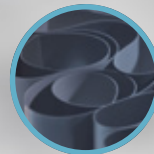
Optionally, a 10 cm wide, button-on stretch belt can be added to the vest.

This ensures even better weight relief for the shoulders and support for the back.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or Leadfree 2.0



Front:
0.25 mm Pb, 0.35 mm Pb or 0.50 mm Pb

Back generally:
0.25 mm Pb

Protection/Lead Equivalent Levio Edition

Novalite® Plus or Leadfree 2.0



Total value Levio-Panel:
0.42 mm Pb or 0.50 mm Pb (outside 0.25 mm Pb)

Back generally:
0.25 mm Pb

Experience the difference with the Victoria radiation protection vest - the ideal combination of functionality, comfort and modern design, especially for Her needs in radiology.

Levio® 
Optimised Protection Concept

Innovative Design

I. Dedicated Fit for Women

The Victoria collection offers innovative X-ray protection that is specially adapted to the female anatomy. Adapted armholes protect the sensitive breast tissue without restricting freedom of movement.

II. Princess Seams These ensure a body-hugging, perfect fit and contribute to a comfortable and secure fit of the vest.

III. Stretch Insert in the Back The stretch insert at the back provides additional comfort and flexibility.

Levio® Edition

The vest RA631 is also available in our Levio Edition. Optimized weight-to-protection ratio: Instead of a uniform lead equivalent across the entire front area, Levio protects - from above the chest to below the gonads - with a higher lead equivalent.

Shoulder Relief System

Combined the vest with our shoulder relief system BRYGGA (see page 32).

Outlast® – Ideal Temperature for Well-being

Optionally, the the vest RA631 can be equipped with Outlast technology. The Outlast® inlay material absorbs heat specifically, stores and releases it again when needed.



RFID chip included

Higher Protection – Levio Edition

The area with the reinforced protective material is clearly recognisable by its colour.

Optimised Armholes

An elastic band is incorporated into the armhole from size XL upwards to ensure that it fits perfectly in all sizes and thus provides the best possible protection for the breast tissue.

Dividing Seams in the Front

For a good fit to achieve full radiation protection

Stretch Insert

For a comfortable fit



Outer Material

Colours
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

from XS to 3XL
(page 7)



Optional

(pages 32-37)



On request:
Stretch belt (external)
Breast pocket
Embroidery
Made-to-measure protection

Accessories/Replacement

Bolero (page 34)
Thyroid/sternum protection



Stretch belt vest
(Adjustment via
snap fastener)

Synergy RA632



Radiation protection coat – Maximum comfort and reliable protection

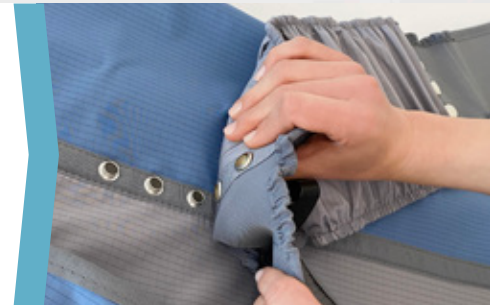
The radiation protection coat does not only offer comprehensive protection, but also exceptional comfort. It has been specially developed for easy handling and a perfect fit.

Here are the outstanding features:

- ✔ **Comfortable and Easy to put on:** The coat is easily closed with a hook and loop fastener at chest height and fits perfectly straight away.
- ✔ **Overlapping Front Panels:** The front panels overlap completely to provide the desired protection.
- ✔ **Ideal Fit:** The coat offers an excellent fit and maximum comfort, ideal for long periods of wear.
- ✔ **Practical Features:** Shoulder pads are included as a standard and the lower part of the coat is secured by a snap fastener.
- ✔ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

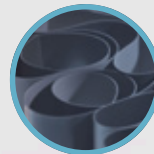
Optimal adjustment to your waist height is ensured by a variable snap button fastener of the belt.

This allows it to be attached variably in height and to be buttoned to the coat on one or both sides.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or Leadfree 2.0

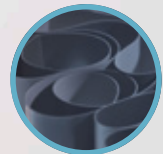


Front:
0.25 mm Pb, 0.35 mm Pb or 0.50 mm Pb

Back generally:
0.25 mm Pb

Protection/Lead Equivalent Levio Edition

Novalite® Plus or Leadfree 2.0



Total value Levio-Panel:
0.42 mm Pb or 0.50 mm Pb (outside 0.25 mm Pb)

Back generally:
0.25 mm Pb

Experience the perfect balance between comfort and extensive protection with the coat RA632 - ideal for long periods of wear and meeting the highest standards in terms of safety and comfort in interventional radiology.

Levio®
Optimised Protection Concept



RFID chip included

Patented Safety Features

I. Colour-accentuated Safety Zones

The special safety zones on the sides and in the shoulder area in the color "Titan" already offer the full protection of the front part. These zones ensure that you are always fully protected.

II. Protection Zone If the end of the front panels of the coat are in the clearly visible zone, 60% of your body circumference is covered by the front protection value.

Levio® Edition

The coat RA632 is also available in our Levio Edition. Optimized weight-to-protection ratio: Instead of a uniform lead equivalent across the entire front area, Levio protects - from above the chest to below the gonads - with a higher lead equivalent.

Shoulder Relief System

Combined the coat with our shoulder relief system BRYGGA (see page 32).

Outlast® – Ideal Temperature for Well-being

Optionally, the the coat RA632 can be equipped with Outlast technology. The Outlast® inlay material absorbs heat specifically, stores and releases it again when needed.

Higher Protection – Levio Edition

The area with the reinforced protective material is clearly recognisable by its colour.

Safety Zone

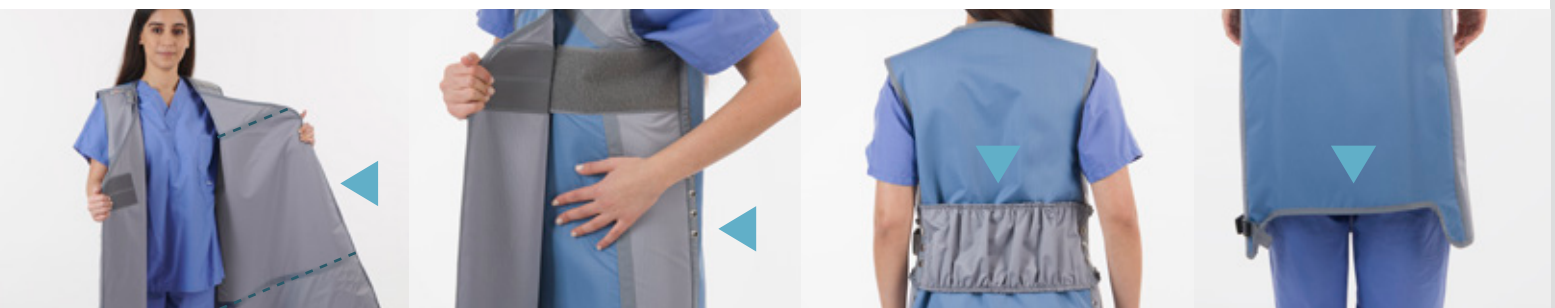
This zone (colour-contrasted in "Titan") ensures a risk free, seamless and safe closing of the coat RA632.

Back Relief

An elastic stretch belt (16 cm wide, included in delivery) provides additional support and relieves pressure on the shoulders and the back.

Free Movement

For greater freedom of movement, the coat has a cut-out in the back. Of course, the knees are still optimally protected at the front and sides.



Outer Material

Colours
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

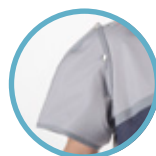
from XS to 3XL
(page 7)



Coat lengths:
from 90 - 140 cm
(page 7)

Optional

(pages 32-37)



On request:
Sleeves
Breast pocket
Embroidery
Made-to-measure protection

Accessories/Replacement

Bolero (page 34)
Thyroid/sternum protection



Stretch belt
(Adjustment via
snap fastener)



Victoria RA636

Victoria coat – All-round protection for women with style

The Victoria collection combines modern functionality with aesthetic design to meet the requirements of women in interventional radiology. The Victoria coat is the perfect all-round protection, specially developed for the female figure. It does not only offer comprehensive protection, but also exceptional comfort and an ideal fit.

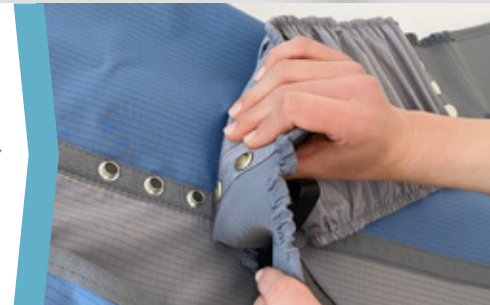
Here are the most important features:

- ✔ **Optimum Fit:** It is perfectly tailored to the female anatomy without the need for a full overlap at the front.
- ✔ **Easy and Comfortable:** The coat is easy to put on and fits immediately thanks to the practical hook and loop fastener.
- ✔ **Comfortable Features:** Shoulder pads are included as a standard to provide extra comfort.
- ✔ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

Hint: Please note that sleeves cannot be attached to the Victoria coat due to the adapted armholes. Please combine the Victoria coat with the bolero RA637 (page 34).

Optimal adjustment to your waist height is ensured by a variable snap button fastener of the belt.

This allows it to be attached variably in height and to be buttoned to the coat on one or both sides.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or Leadfree 2.0



Front:
0.25 mm Pb, 0.35 mm Pb or 0.50 mm Pb

Back generally:
0.25 mm Pb

Protection/Lead Equivalent Levio Edition

Novalite® Plus or Leadfree 2.0



Total value Levio-Panel:
0.42 mm Pb or 0.50 mm Pb (outside 0.25 mm Pb)

Back generally:
0.25 mm Pb

Worldwide Unique!

Discover our Victoria coat – protection, comfort and style for your needs.

Levio®
Optimised Protection Concept

Innovative Design

I. Tailored to Women

The RA636 Victoria coat has adapted armholes that protect the sensitive breast tissue without restricting freedom of movement.

II. Elegant Cut

Princess seams at the front ensure a close, body-hugging fit, while a stretch insert at the back makes the coat particularly comfortable.

III. Support for Your Shoulders

An elastic stretch belt (10 cm wide, included in the delivery) provides additional support and relieves the shoulders and the back.

Levio® Edition

The coat RA636 is also available in our Levio Edition. Optimized weight-to-protection ratio: Instead of a uniform lead equivalent across the entire front area, Levio protects - from above the chest to below the gonads - with a higher lead equivalent.



RFID chip included

Shoulder Relief System

Combined the coat with our shoulder relief system BRYGGA (see page 32).

Outlast® – Ideal Temperature for Well-being

Optionally, the the coat RA636 can be equipped with Outlast technology. The Outlast® inlay material absorbs heat specifically, stores and releases it again when needed.

Higher Protection – Levio Edition

The area with the reinforced protective material is clearly recognisable by its colour.

Optimised Armholes

An elastic band is incorporated into the armhole from size XL upwards to ensure that it fits perfectly in all sizes and thus provides the best possible protection for the breast tissue.

Dividing Seams in the Front

For a good fit to achieve full radiation protection

Free Movement

For greater freedom of movement, the coat has a cut-out in the back. Of course, the knees are still optimally protected at the front and sides.



Outer Material

Colours (pages 10/11)



Standard: ComforTex® HPMF Hybrid

Sizes

from XS to 3XL (page 7)



Coat lengths: from 90 - 140 cm (page 7)

Optional

(pages 32-37)



On request: Breast pocket, Embroidery, Made-to-measure protection

Accessories/Replacement

Bolero (page 34), Thyroid/sternum protection



Stretch belt (Adjustment via snap fastener)

Comfort RA660

RA660 front protection apron – Modern protection for your everyday work

Our customers value the RA660 as their favorite among the front protection aprons. This apron is specially designed for applications where you are only exposed to radiation from the front. It is easy to put on and take off, adapts nicely to the body and offers an excellent fit and shoulder relief.

Why the RA660 is the best choice for you:

- ✓ **Outstanding Comfort:** the wide stretch inserts, which extend over the entire back, ensure that the apron fits well and provides an optimum fit, especially when worn for long periods of time.
- ✓ **Flexibility:** Choose the optional version without protection in the back area to reduce the weight of the apron and enjoy even more comfort.
- ✓ **Shoulder Relief:** The apron comes as a standard with soft shoulder pads to relieve the strain on your shoulders.
- ✓ **Closure System:** For maximum durability, we only use high-quality hook and loop fasteners that are particularly durable.
- ✓ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

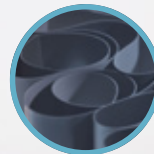


The stretch insert running across the entire width of the back ensures a good fit and shoulder relief even when the X-ray protective clothing is worn for long periods.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or Leadfree 2.0

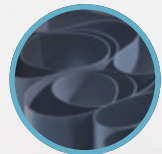


Front:
0.25 mm Pb, 0.35 mm Pb
or 0.50 mm Pb

Back:
0.25 mm Pb (standard)
or 0.00 mm Pb (optional)

Protection/Lead Equivalent Levio Edition

Novalite® Plus or Leadfree 2.0



Total value Levio-Panel:
0.42 mm Pb or 0.50 mm Pb
(outside 0.25 mm Pb)

Back:
0.25 mm Pb (standard)
or 0.00 mm Pb (optional)

Decide on the RA660 - for modern protection, high comfort, and outstanding quality in your day-to-day work.

Levio® 
Optimised Protection Concept

Comfortable Design

Wide Stretch Insert

The insert does not only ensure a secure and safe fit of the apron, but also a perfect adaptation to individual body shapes. The sophisticated design enables an optimum fit that distributes pressure evenly and noticeably relieves pressure on the shoulders and back.

This innovative solution significantly increases comfort and prevents fatigue, especially when worn for long periods of time, so that you can fully concentrate on your work.

Levio® Edition

The apron RA660 is also available in our Levio Edition. Optimized weight-to-protection ratio: Instead of a uniform lead equivalent across the entire front area, Levio protects - from above the chest to below the gonads - with a higher lead equivalent.



RFID chip included

Outlast® – Ideal Temperature for Well-being

Optionally, the the apron RA660 can be equipped with Outlast technology. The Outlast® inlay material absorbs heat specifically, stores and releases it again when needed.

Higher Protection – Levio Edition

The area with the reinforced protective material is clearly recognisable by its colour.

User Friendly

The sophisticated design of the RA660 front protection apron makes it easy and quick to put on or take off.

Special Feature

The stretch insert offers ideal relief especially for long periods of wear.

Shoulder Pads

Also our front aprons come with soft shoulder pads that take the strain off your shoulders.



Outer Material

Colours
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

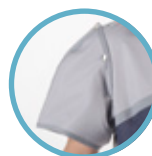
from XS to 3XL
(page 7)



Lengths:
from 90 - 140 cm
(page 7)

Optional

(pages 35-37)



On request:
Sleeves
Breast pocket
Embroidery
Made-to-measure protection

Accessories

Bolero (page 34)
Thyroid/sternum protection



Ergonomic RA650



RA650 radiation protection apron – Comprehensive protection with maximum comfort

The RA650 offers you extensive protection for the entire front part of your body covering 60% of your body circumference. This apron is ideal for situations in which you are only exposed to radiation from the front.

Your benefits at a glance:

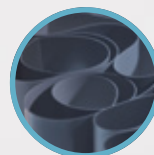
- ✓ **Easy Handling:** wide cross straps make it easy to remove the apron. The hook and loop fasteners at the front make donning and doffing quick and uncomplicated.
- ✓ **Lightweight:** Choose the option without protection in the back area to reduce the weight of the apron and enjoy even more wearing comfort.
- ✓ **Added Comfort:** shoulder pads are included as a standard for added comfort during wearing.
- ✓ **Long-lasting Closure Systems:** We only use high-quality hook and loop fasteners that are particularly resistant to wear and tear. These ensure a high degree of durability and easy handling of the apron.
- ✓ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

Comfortable, wide crossbands allow the apron to be slid off easily by opening the hook-and-loop fasteners in the side area.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or Leadfree 2.0



Front:

0.25 mm Pb, 0.35 mm Pb
or 0.50 mm Pb

Back:

0.25 mm Pb (standard)
or 0.00 mm Pb (optional)

Choose the RA650 - for comprehensive front protection, high wearing comfort, and reliable quality.



RFID chip included



Application Oriented

The apron can be slid off easily and quickly by simply opening the hook and loop fasteners at the front. This well thought-out function allows the apron to be removed quickly and easily with minimal effort, even when worn under a sterile surgical gown.

For an application oriented use this contributes significantly to increasing efficiency and optimizing the workflow without compromising comfort or sterility.

Fast, Simple and Convenient

The apron can be slid off by simply opening the hook-and-loop fasteners in the side area, even through the sterile surgical gown.

Shoulder Relief

Thanks to the extra-wide, comfortable crossbands, the load is optimally distributed over the entire shoulder area.

Shoulder Pads

Also our front aprons come with soft shoulder pads that take the strain off your shoulders.



Outer Material

Colours (pages 10/11)



Standard: ComforTex® HPMF Hybrid

Sizes

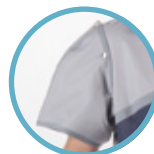
from XS to 3XL (page 7)



Lengths: from 90 - 140 cm (page 7)

Optional

(pages 36-37)



On request: Breast pocket, Embroidery, Made-to-measure protection

Accessories

Bolero (page 34), Thyroid/sternum protection



Extended RA641

Radiation protection apron RA641 – The perfect protection for seated working positions

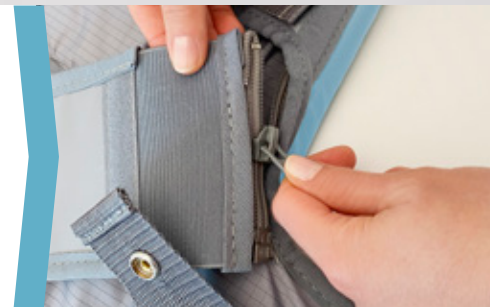
Radiation protection aprons are essential in medical specialties such as urology and anaesthesiology. However, most aprons are designed for work performed standing up. The RA641 has been specially developed for the requirements of seated work and offers you optimum protection and comfort.

Discover the advantages of the RA641:

- ✓ **Optimized Protection for Seated Activities:** This apron offers excellent protection, especially when sitting. The larger side panels ensure that the apron stays in place even when moving and prevents it from sliding down your legs.
- ✓ **Perfect Fit and Comfort:** The apron fits your body perfectly. Soft shoulder pads provide additional comfort.
- ✓ **Multiple Closure Systems:** Choose between strap closure in the front with a snap buckle (standard) or two snap buckles in the back (optional) to customize the closure system to your needs.
- ✓ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016



Well thought-out relief, exchangeable – the innovative, elastic belt, located on the inside of the front protection, supports most of the apron's weight on the hips. This relieves stress on the back and shoulders.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or
Leadfree 2.0



Front:

0.25 mm Pb, 0.35 mm Pb
or 0.50 mm Pb

Back:

0.25 mm Pb (standard)
or 0.00 mm Pb (optional)

Choose the RA641 for reliable protection and maximum comfort, especially when it comes to seated applications.



RFID chip included

Special Features

I. Integrated Gonad Protection

An additional protective panel on the inner side protects your most sensitive areas.

II. Innovative, Exchangeable Belt

The elastic inner belt on the front rests the weight of the apron on your hips, taking the strain off your back and shoulders.

III. Complete Protection when Standing

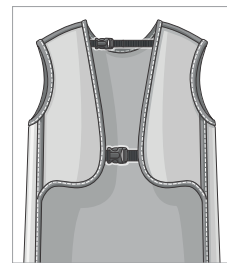
Of course, the RA641 also offers complete protection from the neck to below the knees when standing, provided it is the right size.

Closure Systems

The RA641 model offers two different variants for closing the apron.



Strap closure with snap buckle
Standard, in the front



Double snap buckle closure
Optional, in the back

Removable Gonad Protection

The gonad protection which is attached with a hook-and-loop fastener can be simply removed for weight reduction while standing.

Correct Length!

For seated work, the apron should be chosen 10 cm longer than the length that corresponds to your body height, so that the knees are also covered. (see here: "Lengths, recommended height of user")

Side Flaps

The side flaps of the lower part of the apron can simply be fastened together in the back, so that they do not interfere with movement and you can work unrestrictedly.

Stretch Belt

The inner stretch belt ensures that the apron is also comfortable to wear when standing.



Outer Material

Colours
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

from XS to 3XL
(page 7)



Lengths:
from 90 - 140 cm
(page 7)

Optional

(pages 35-37)



On request:
Sleeves
Breast pocket
Embroidery
Made-to-measure protection

Accessories/Replacement

Bolero (page 34)
Thyroid/sternum protection



Inner belt
(Adjustment via zip)
Gonad protection
(Adjustment via hook-and-loop fastener)

Twiece RA645

Two-piece front protective apron with the best radiation protection and optimum weight balance

Evolved from our basic front protection model, which has been tried and tested for decades, the RA645 is the best choice for your X-ray protection in conventional radiation. Perfectly designed for short and long wearing times, it offers you the protection you need when it counts.

Your advantages at a glance:

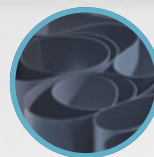
- ✔ **Perfect Fit and High Comfort:** The Twiece RA645 ensures ideal weight distribution and optimized wearing comfort thanks to the modern two-part design of the front protective apron.
- ✔ **Ideal Choice for All Applications:** Particularly suitable for situations in which the apron is worn for long periods of time – without compromising on protection.
- ✔ **Shoulder Relief:** The apron comes as a standard with soft shoulder pads to relieve the strain on your shoulders.
- ✔ **Adaptable Closure System:** The two snap buckle fasteners on the vest and skirt can be easily adjusted in length. Enjoy the comfort of an individual fit.
- ✔ **Certified Protection:** Type testing and certification in accordance with (EU) 2016/425, (EU) 2017/745, IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016

To reduce the weight of the apron even further, for model RA645 it is possible to either choose protection of 0.25 mm Pb in the back panels of the vest or 0.00 mm Pb instead.



Protection/Lead Equivalent Standard Collection

Novalite® Plus or Leadfree 2.0



Front:
0.25 mm Pb, 0.35 mm Pb
or 0.50 mm Pb

Back:
0.25 mm Pb (standard)
or 0.00 mm Pb (optional)

Choose our Twiece RA645 – for ergonomic protection and maximum comfort in every application!



RFID chip included

Lightness in Design

Two-piece Concept – Perfect for Everyday Use

High protection often means more weight. The RA645 front protective apron is split into a vest and skirt, providing optimal weight distribution of the protective clothing between the hips and shoulders.

This well-thought-out design distributes the weight evenly, noticeably relieving strain on the shoulders and back.

In addition, the closer fit to the individual body shape ensures a more secure and stable fit on the body.

Especially when worn for long periods of time, this innovative solution significantly increases comfort and prevents fatigue so that you can concentrate fully on your work.

User Friendly

The sophisticated design of the RA645 front protective apron makes it easy and quick to put on or take off thanks to the high quality and durable snap buckle closures – one for the vest, one for the skirt.

Back Panels

To reduce the weight of the apron even further, for model RA645 it is possible to either choose protection of 0.25 mm Pb in the back panels or 0.00 mm Pb instead.

Shoulder Pads

Also our front aprons come with soft shoulder pads that take the strain off your shoulders.



Outer Material

Colours
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

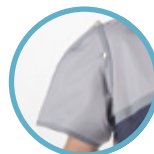
from XS to 3XL
(page 7)



Skirt lengths:
from 65 - 80 cm
(page 7)

Optional

(pages 35-37)



On request:
Sleeves
Breast pocket
Embroidery
Made-to-measure protection

Accessories/Replacement

Bolero (page 34)
Thyroid/sternum protection



BRYGGA®

Shoulder Bridge

For Individual Weight Relief

Wearing a BRYGGA shoulder brace under the protective X-ray apron is an easy-to-use and efficient way to reduce the weight load on the shoulders and prevent muscle fatigue.

- ✔ For MAVIG vest model RA631 and coat RA632
- ✔ Four sizes: S, M, L and XL, individually adjustable
- ✔ Promotes an ergonomically correct posture
- ✔ Significantly reduces the risk of tension and numbness in the arms
- ✔ Full freedom of movement for neck and arms
- ✔ Easy cleaning



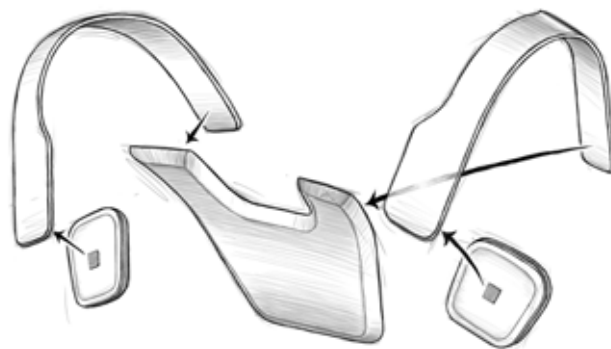
Optimum Weight Distribution

The patented invention from Sweden distributes the weight more evenly and relies primarily on the bone structure rather than the muscles and nerves in the shoulder area. This proves to be particularly advantageous when the protective clothing has to be worn for long periods of time.



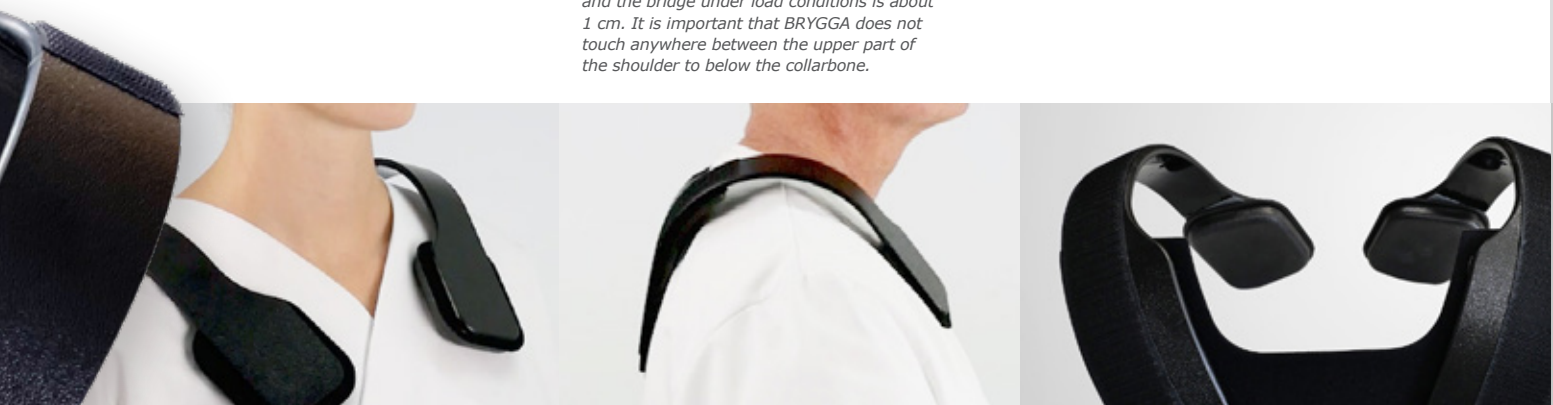
Modular Structure

The 5-piece construction allows for individual adjustment (see also the instruction video on our website, QR code below) to the respective user and ensures a pleasant and comfortable wearing experience in an easy and uncomplicated manner.



Shoulder Weight Relief

The optimum distance between the shoulder and the bridge under load conditions is about 1 cm. It is important that BRYGGA does not touch anywhere between the upper part of the shoulder to below the collarbone.



Manual/Video

Scan QR code to view



MAVIG website
www.mavig.com/product/ra-brygga/

Material

Robust, reinforced plastic



Foam padding
 Exterior: Evazote
 Interior: Polyethylene

Sizes

S, M, L and XL
 Individually adjustable



Structure
 5-piece

Bolero RA637

Shoulder Protection



Shoulder Protection – Bolero

Thanks to Bolero as an alternative to the sleeves, the radiation exposure due to scattered radiation for the shoulder joint can be significantly reduced. Freedom of movement is maintained to the greatest extent possible with the design, which is open underneath the arm.

At the same time, the design considerably reduces the scattered radiation coming in from the sides via the armholes.

The "Bolero" shoulder protection is available for all models and is therefore ideal for combination with MAVIG all-round protection or front protection aprons.

It is worn directly under the X-ray protection and is simply closed with a hook-and-loop fastener in the front.

The standard lead equivalent value is 0.25 mm Pb. This ensures good mobility during the daily working routine.

The shoulder protection is always manufactured in the colour "Titan". The correct size as well as the protective material depend on the chosen X-ray protective clothing.

Protection/Lead Equivalent

NovaLite® Plus or
Leadfree 2.0



As standard:
0.25 mm Pb
On request:
0.35 mm Pb
or 0.50 mm Pb

Outer Material

Only in colour Titan
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

from XS to 3XL
(matching the PPE)



Optional

(pages 36-37)



Embroidery
Text at the left sleeve hem

Sleeves



Button-on

Sewn-on

right,
left or
pair



Shoulder Protection – Sleeves

For all model ranges (except Victoria collection RA631V and RA636 as well as RA650), you can optionally choose sleeves in order to extend the radiation protection*.

The radiation on the shoulder joint is significantly reduced by the sleeves. Likewise, incident radiation on the side via the armholes is considerably reduced.

The standard lead equivalent value is 0.25 mm Pb. This ensures good mobility during the daily working routine.

The shoulder protection is always manufactured in the colour "Titan".

The correct size as well as the protective material depend on the chosen X-ray protective clothing.

MAVIG offers the sleeves both as a button-on solution or firmly sewn-on. You can also choose whether you want only one sleeve, on the right or left, or a pair.

**Please note: The protective surface of the front (surface without pinholes) ends at the seams. This also applies to the sewn-on sleeves. With the button-on sleeves, a continuous protective surface is ensured by the overlap.*

Protection/Lead Equivalent

NovaLite® Plus or
Leadfree 2.0



As standard:
0.25 mm Pb

On request:
0.35 mm Pb
or 0.50 mm Pb

Outer Material

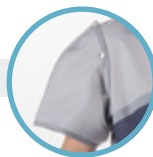
Only in colour Titan
(pages 10/11)



Standard:
ComforTex® HPMF Hybrid

Sizes

from XS to 3XL
(matching the PPE)



Personalise

Your Protective Equipment

Embroidery

In many cases, it is useful to assign X-ray protection clothing to an individual or a department using an embroidery.

The accessories can also be embroidered on request when ordered.

- ① On an adaptable area approx. 5 x 10 cm below the left shoulder seam
- ② Sewn-on tape below the left shoulder seam
- ③ Line of text or logo on an optional breast pocket
- ④ Line of text on a tape on the skirt
- ⑤ Text or logo on the bib of the thyroid and sternum protector
- ⑥ Text on the collar of the thyroid and sternum protector
- ⑦ Text on the sleeve hem of the Bolero
- ⑧ Text on the left hand side of the head cover

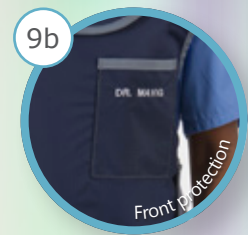
Whatever you decide, you give us the text and we will produce a top quality embroidery. Due to their good readability, block letters are used as a standard. The font height is determined by the length of the text and the number of lines.

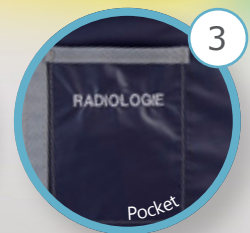
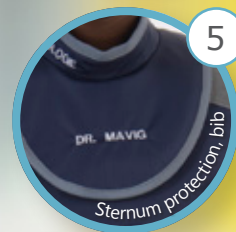
We are happy to offer logo embroidery in all colours as a special solution.

Pocket

The breast pocket (9a/b) is designed as a regular insertion pocket away from the body. For all-round protection (9a) the position is on the right, for front protection (9b) on the left, both from the user's point of view.

The skirt pocket is designed as a standard insertion pocket on the right side away from the body.





Model RA614

Thyroid & Sternum Protection

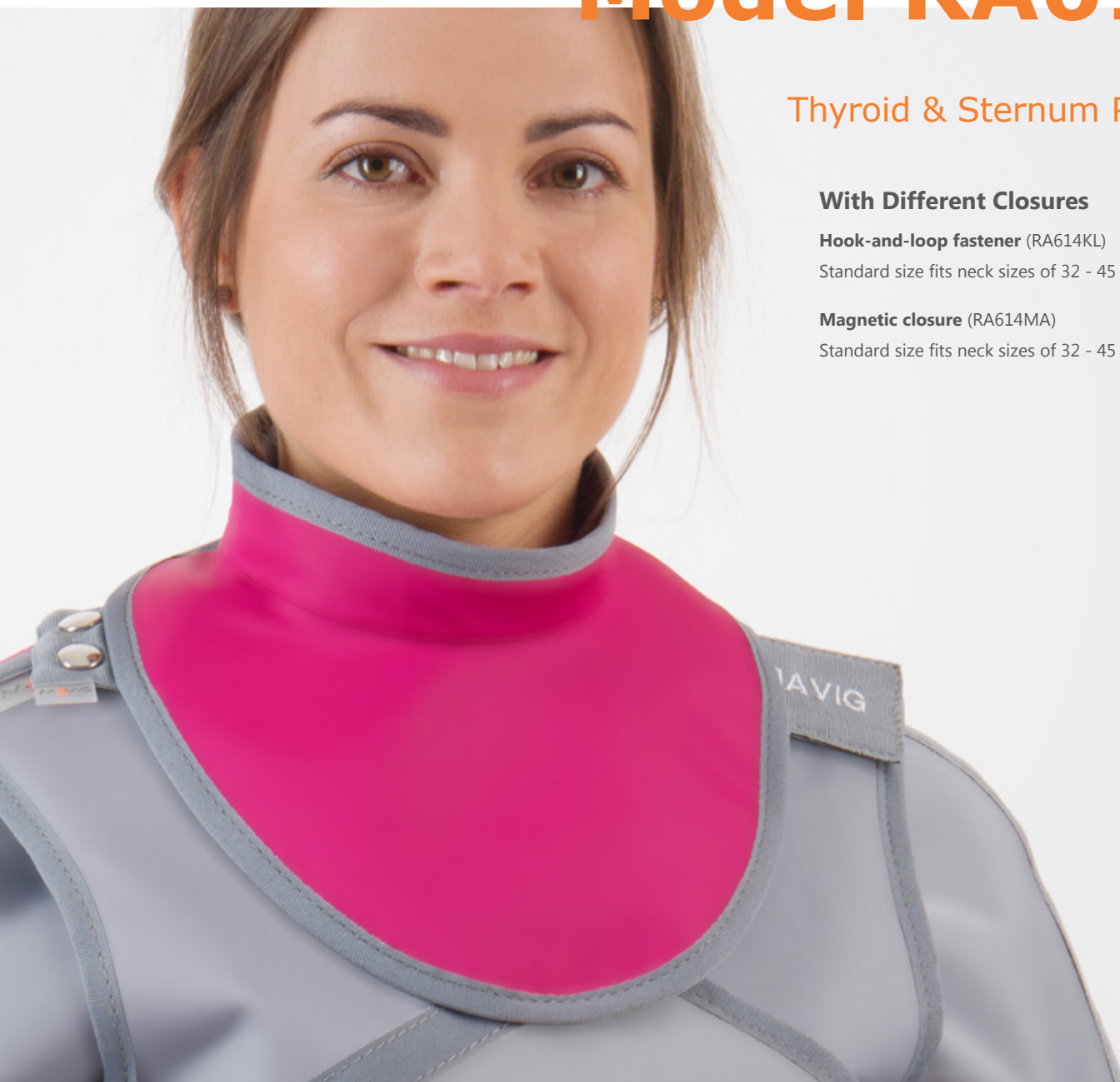
With Different Closures

Hook-and-loop fastener (RA614KL)

Standard size fits neck sizes of 32 - 45 cm.

Magnetic closure (RA614MA)

Standard size fits neck sizes of 32 - 45 cm.



Protection/Lead Equivalent

NovaLite® Plus or
Leadfree 2.0



As standard:
0.50 mm Pb

Outer Material

Colours
(pages 10/11)



Standard:
ComforTex® HPMF Duplex

Neck Sizes

Uniform
32 - 45 cm



Optional

(pages 36-37)



On request:
Embroidery
Made-to-measure protection

Accessories/Replacement

Hygienic cover
(RA614HF)



Thyroid and Sternum Protection

The thyroid is a radiation-sensitive organ of the human body and therefore in particular need of protection. Wearing an appropriate shield should therefore be a matter of course.

Our thyroid and sternum protector variants are characterised by a first-class cut and the best fit, taking into account all aspects of radiation protection.

Model Variants RA614

The thyroid and sternum protector with snap button connection to the vest/coat/apron is suitable for all model series.

The thyroid and sternum protection is available with either sewn-on hook-and-loop fastener or magnetic fastener – depending on your personal preference.

All variants provide enough room for adjustment.



Snap button connection
It allows for a secure adjustment of the thyroid and sternum protection on MAVIG X-ray protective clothing.



Closure type – via magnet
The thyroid and sternum protection is also available with a practical magnetic closure (variant RA614MA).



Accessories: Hygienic cover
To meet the hygienic requirements in everyday life, we recommend using our washable hygienic cover in the colour "Titan" made of the special ComforTex® MF material.

RA611 & RA612

Radiation Protection Head Wear



In Two Designs

- ✓ Effective protection for the cranium
- ✓ Perfect balance of radiation protection, weight and comfort
- ✓ Always with Outlast® material
- ✓ Design-protected, universal-size cuts for head circumferences from 54 - 63 cm
- ✓ Optimal adjustment to the respective head circumference and head shape

Protection/Lead Equivalent

NovaLite® Plus or
Leadfree 2.0



Optional:
0.25 mm Pb, 0.35 mm Pb
or 0.50 mm Pb

Outer Material

Only in colour Titan
(pages 10/11)



Standard:
ComforTex® HPMF

Size

Suitable for head circumferences
from 54 - 63 cm



Optional

(pages 36-37)



Embroidery
left side

Included

(page 15)



Outlast®
Temperature regulation

Radiation Protection Head Wear

Working in interventional radiology can entail risks. Still, the likelihood of medical personnel being exposed to radiation and developing a brain tumour is the subject of a lively debate among experts.

Without effective on-site upper table scatter radiation protection, the cranium may well be exposed to high levels of radiation, depending on the procedure and fluoroscopy time.

MAVIG, therefore, has developed two different radiation protective head coverings to meet the individual needs of the user. The respective models differ in the size of the desired protection area and amount of heat elimination.

Temperature-regulating Outlast material is now included in both models for a more comfortable and cooler feeling (pages 15).



Outlast Temperature Regulation



RA611 With Breathable Insert

A breathable insert is incorporated into the top of the cap, ensuring very good heat dissipation.



RA612 – Closed Cap

With a closed cap, the cranium is shielded frontally, on the sides and completely from above. However, this limits heat dissipation via the top of the skull.



Model HS100

X-Ray Protective Gloves



- ✓ Lead equivalent: 0.04 mm Pb
- ✓ Powder-free
- ✓ Low-protein natural rubber
- ✓ Lead free
- ✓ Non-toxic
- ✓ Sterile
- ✓ Excellent gripping ability and great touch sensitivity
- ✓ High elasticity and tear resistance
- ✓ Available in many sizes

The idea of optimisation in radiation protection dictates that every possible measure should be taken to minimise the dose from radiation exposure. Outstanding usage properties and an optimised fit now make it easy to comfortably protect yourself better.

Sterile Gloves With Protection Against X-Rays

Significantly reducing the equivalent dose for occupationally exposed medical staff is a must, not only because of the lowered limits for the effective dose.

The sterile protective gloves HS100 with shielding effect against scattered X-rays enable an efficient way for a reduction of radiation exposure to the hands. Last but not least, this has contributed to the inclusion of sterile protective gloves with shielding effect against scattered X-ray radiation in the recommendations of DIN 6815:2021 as protective equipment for radiation users.

The product is classified as a powder-free sterile glove, which features the additional benefit of X-ray protection properties on top of its core material characteristics of impermeability and protection against chemicals and microorganisms.

Of course, the gloves HS100 are certified and CE-compliant.

Application

The protective gloves HS100 are exclusively intended for use in the scattered radiation field. As a sterile product, they are intended for single use only.

Properties

The gloves HS100, MAVIG has succeeded in synthesising traditionally opposing features:

- Powder-free, sterile
- Low-protein natural rubber
- High shielding effect against scattered radiation (average attenuation for scattered X-ray radiation of 45 - 55%, for example in the X-ray tube voltage range of 60 - 80 kV)
- Metal oxides – Lead free
- High elasticity and tear-resistant
- Excellent gripping ability, great touch sensitivity

A great elasticity in combination with an excellent anatomical fit allows for optimal working conditions, bringing it in the same category of high quality surgical gloves, while additionally offering efficient protection against secondary X-ray radiation (scattered radiation).

The gloves convince with its high touch-sensitivity and dexterity. The micro-textured surface provides a secure grip, even in moist conditions. The soft, stretchable material with its anatomical form prevents fatigue and provides optimal ergonomic features.

The gloves are easy to put on and are especially tear-resistant due to their elasticity. In addition, the rolled edge counteracts tearing when pulled over.

Sizes and Order Numbers

Size 6.5 = HS10065
 Size 7.0 = HS10070
 Size 7.5 = HS10075
 Size 8.0 = HS10080
 Size 8.5 = HS10085
 Size 9.0 = HS10090

The sales unit is a practical dispenser box containing five pairs of gloves of one size.

Each pair is sterile and securely packed in a peel pack with an additional inlay.

Use under sterile conditions is guaranteed.

Average Measured Values for the Attenuation of scattered X-ray Radiation

X-ray scatter radiation (skin dose reduction)	60 kV / 55 %	80 kV / 45 %	100 kV / 39 %	130 kV / 33 %
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Measurement according to IEC 61331-1:2014, DIN EN 61331-1:2016 and ASTM F 2547-06. The lead equivalent value and the attenuation values may vary depending on the weight, thickness and physical properties of the gloves as well as the measurement accuracy.

BR & BRV Models

X-Ray Protective Glasses/Visors



X-Ray Protective Glasses and Visors in Separate Catalogue

Our individual program with different designs for an optimal fit can be found in our separate catalog.





Eye Protection for Medical Use of Radiation

The sensitivity of the human eye to radiation exposure is classified as very high. X-ray protective glasses for the radiation user provide protection from scattered radiation. This is secondary radiation, primarily emitted by the irradiated patient volume.

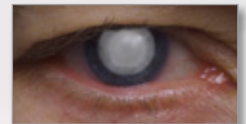
The correct fit is especially important in the case of protective glasses. Therefore, the differing facial geometries from person to person require a corresponding diversity of models.

Virtual Fitting on our website:

www.mavig.com/virtual-mirror/

Cataract Risk and Lens Opacity

It has been known for years that radiation-induced lens opacity can occur due to exposure to ionising radiation in the workplace.



According to current knowledge, the initial stages can already occur from a radiation exposure of only 0.5 Gy. Regardless of whether the dose is acute or protracted, the effect is cumulative, meaning individual doses are added up.

ST Drapes



Femoral Drape ST-FS5AMM



Radial Drape ST-RZ5AMM

Reusable Radiation Protection Drapes

The drapes optimally protect the examiner from scattered radiation escaping from the patient's body and below the radiation shield - during examinations with access via the femoral artery or the radial artery.

The special shape of the drapes is designed for the corresponding purpose:

- ST-FS5AMM with cut-out for femoral puncture
- ST-RZ5AMM without cut-out for radial puncture

The optimally adapted size of our economic, reusable drapes ensures constant excellent protection for the examiner and maximum comfort for the patient.

At the same time the unique cuts of the drapes prevent their protrusion into the area to be imaged when the X-ray source is angled.

Sterile disposable covers for the drapes allow placement above the sterile patient cover. They ensure fast placement and easy removal in an emergency situation as well as continuous position monitoring.

Protection/Lead Equivalent

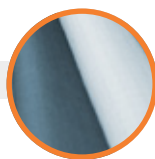
Standard Lead



As standard:
0.50 mm Pb

Outer Material

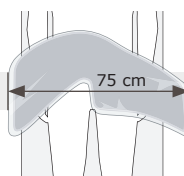
Colour – Two-sided
Mandarin/Titan



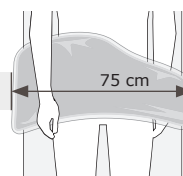
As standard:
ComforTex® HPMF

Dimensions

Width approx. 75 cm, each



Femoral drape



Radial drape

Optional

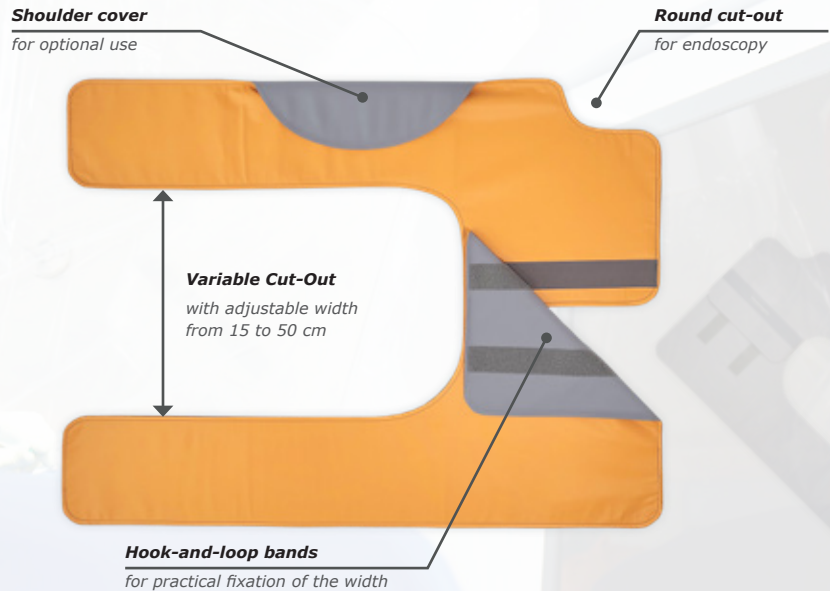
Sterile disposable covers
(50 pieces each)



Available:
STEA-FSAM - for femoral drape
STEA-RZAM - for radial drape

ST-ER Drape

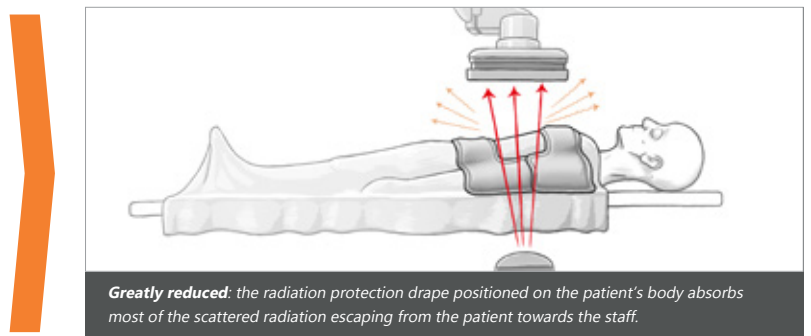
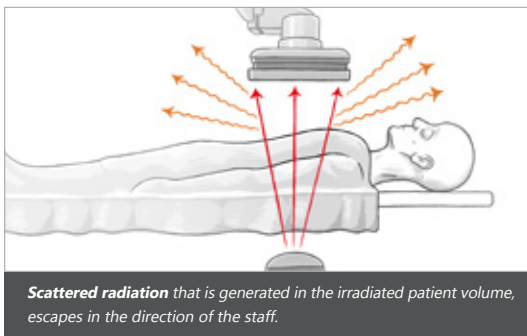
- ✓ Minimisation of scattered radiation by up to 90%
- ✓ Can be used in prone and lateral position
- ✓ Secure positioning due to individual adjustment options
- ✓ Adaptable to the type of examination
- ✓ Cut-out for endoscopes
- ✓ Optional cover to protect the shoulder joint
- ✓ Sustainable, as it is reusable



Radiation Protection Drape with Variable Cut-out ST-ER

The MAVIG ST-ER drape is designed to minimise scatter radiation from the patient's body, thus protecting staff.

The variable opening of the drape, which can be placed on the patient exactly in line with the useful radiation zone, significantly reduces the scattered radiation. A classic example of application is ERCP* but, in principle, a large number of other areas of application in which work is carried out with a fixed beam direction are possible.



Protection/Lead Equivalent

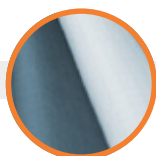
Standard Lead



Standard:
0.50 mm Pb

Outer Material

Colour – Two-sided
Mandarin/Titan



Standard:
ComforTex® HPMF Duplex

Dimensions/Application Possibilities

105 x 103 cm (L x W, max. external dimensions)



Supine / prone position:
(e.g. ERCP)



Lateral position:
with shoulder cover

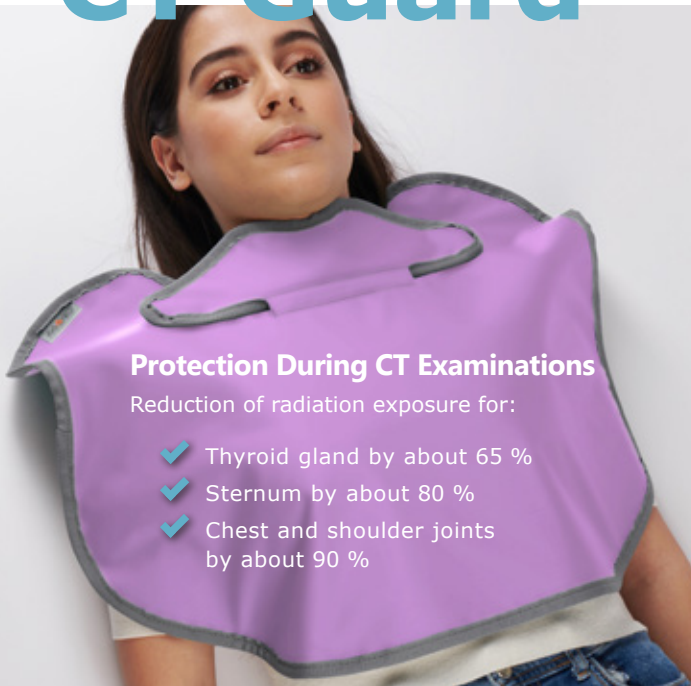
As Standard

Embroidery on the drape
„Patientseite“



* ERCP (Endoscopic retrograde cholangiopancreaticography)

CT Guard Drape



Protection During CT Examinations

Reduction of radiation exposure for:

- ✓ Thyroid gland by about 65 %
- ✓ Sternum by about 80 %
- ✓ Chest and shoulder joints by about 90 %



TIP: Don't be too "well-meaning" when choosing the size of your patient drape. Bear in mind that the drape also has to be moved by you and the size is directly related to the weight.

RP648 – Patient Protection for CT Examinations

The patient protection for CT examinations from MAVIG provides ideal X-ray protection. The drape can be put on quickly and remains securely in the desired position.

Optimally implemented in the RP648 patient CT drape: The patient protection is easy to apply and position without any additional aids or closure systems.

An additional thyroid protector can be folded into position if required.

RP689 – Patient Drape

This versatile patient drape is a must in every radiology practice. You can choose the format, depending on your intended use. Additional equipment like hook-and-loop fasteners or an individual cut according to your needs are also possible at any time.

Effective radiation protection for your patients concerns the areas of the body adjacent to the diagnostic field; so in most cases you will benefit from a stock of several smaller drapes, which you can then use in combination.

For an easier cleaning, our patient drape is also available in ComforTex HPMF Duplex.

Protection/Lead Equivalent

Standard Lead



RP648 as standard:
0.50 mm Pb
RP689 optional:
0.50 mm Pb or 1.00 mm Pb

OuterMaterial

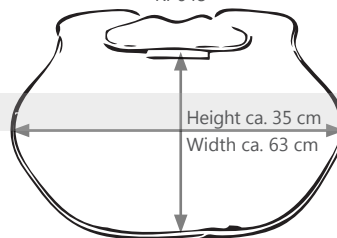
Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Dimensions

RP648



Dimensions

RP689

The listed sizes/dimensions in the price list serve as examples only.
We are happy to manufacture individual dimensions (maximum width 120 cm) on request.

It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.

Gonad Protection



RP643 – Gonad Apron

An article of daily use has specific requirements in terms of material quality and workmanship, but also the functionality for a user-friendly use must be given.

The MAVIG RP643 series gonad aprons offer you this and more.

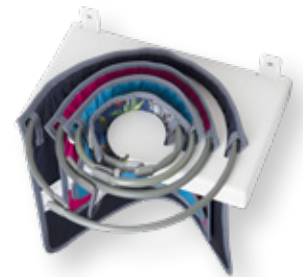
Even with the high patient flow in today's radiology practices, the RP643 is ideally suited, as the X-ray protection is quick and practical to put on and take off.

It couldn't be easier than with the flexible tension strap of our RP643 series. The radiation protection for your patients is perfect and the fit is just right.

In producing our gonad aprons, we use only high quality, flexible standard lead material. The best radiation protection properties are, of course, a basic requirement.

For gentle and proper storage of your gonad aprons, we recommend the use of the specially designed wall hanger AW417 (page 64).

With everything clearly arranged, you can determine the right size for your patient at a glance and easily take the matching apron out of the wall system, without having to remove the one in front or behind.



Protection/Lead Equivalent

Standard Lead



Standard:
0.50 mm Pb

Outer Material

Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Sizes/Dimensions

- S** Toddlers,
apron size 20 x 25 cm (H x W)
- M** Children,
apron size 30 x 30 cm (H x W)
- L** Adult,
apron size 37 x 40 cm (H x W)
- XL** Adult,
apron size 45 x 50 cm (H x W)

Optional

Wall hanger AW417
(page 64).



It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.

Basic^{Mini} – RP664

Children's Front Protection Apron

This children's apron is especially designed for universal use and therefore the optimal front protection for your little patients.

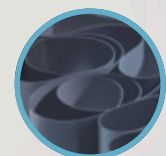
The generously cut, overlapping back panels provide a balanced fit.

- ✔ High quality, flexible Leadfree 2.0 material with lead equivalent values of 0.50 mm Pb in the front and 0.25 mm Pb in the back
- ✔ Ideal fit for children
- ✔ Adjustable snap buckle closure
- ✔ Type testing and certification in accordance with (EU) 2016/425 and (EU) 2017/745, as well as IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016



Protection/Lead Equivalent

Leadfree 2.0



Front generally:
0.50 mm Pb

Back generally:
0.25 mm Pb

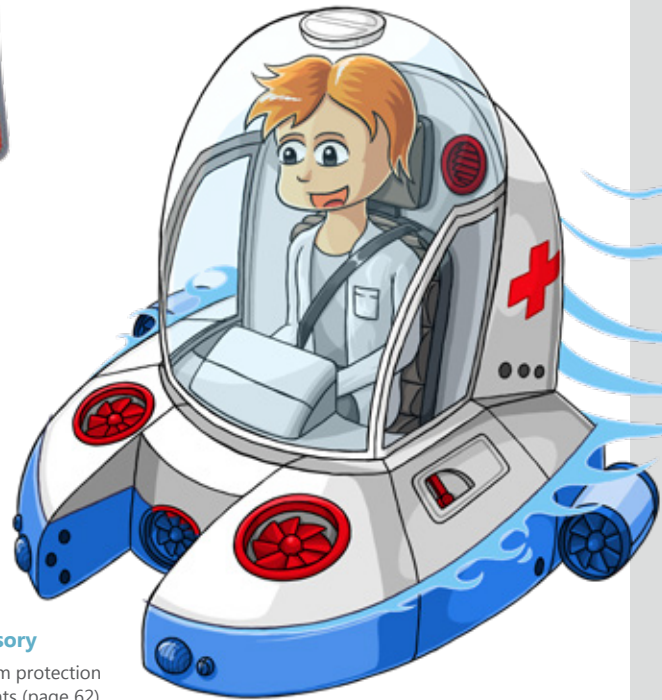
It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.



Children's X-ray protection in particular, should be easy to put on and take off.

The model RP664 can be easily closed in the front with a variable snap buckle closure leaving enough room for adjustments for an exact fit.

Children's X-ray protection is manufactured by MAVIG with the innovative Leadfree 2.0 radiation protection material to achieve the best possible weight ratio and thus impose only the most necessary physical strain on the children.



▶ **Available sizes, recommended for:**

- SMALL** Length: 59 cm, Width: 35 cm for children aged approx. 3 - 5 years
- MEDIUM** Length: 67 cm, Width: 43 cm for children aged approx. 6 - 8 years
- LARGE** Length: 84 cm, Width: 45 cm for children aged approx. 9 - 12 years

Outer Material

Colours/Design (pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Sizes

SMALL, MEDIUM and LARGE



Accessory

Thyroid/sternum protection for small patients (page 62)



Classic^{Mini} – RP668

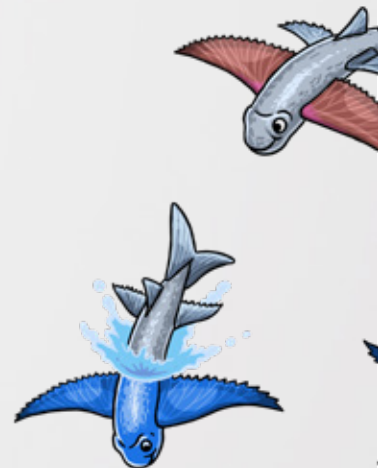
Children's All-round Protection Coat



This model provides practical all-round protection for your little patients.

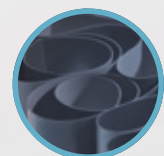
The cut combines ideal radiation protection with variable fit and high wearing comfort. The flexible material and generous width adjustment allow for a comfortable fit.

- ✔ High quality, flexible Leadfree 2.0 material with lead equivalent values of 0.50 mm Pb in the front and 0.25 mm Pb in the back
- ✔ Ideal fit for children
- ✔ Time-saving hook-and-loop fasteners
- ✔ Type testing and certification in accordance with (EU) 2016/425 and (EU) 2017/745, as well as IEC 61331-1:2014 / DIN EN 61331-1:2016 and IEC 61331-3:2014 / DIN EN 61331-3:2016



Protection/Lead Equivalent

Leadfree 2.0



Front generally:
0.50 mm Pb

Back generally:
0.25 mm Pb

Children's X-ray protection, in particular, must be easy to put on and take off. Small patients rarely have enough patience for long actions. Therefore our RP668 children's coat can be adjusted quickly and closed securely using the hook-and-loop fasteners in the front.

Children's X-ray protection is manufactured by MAVIG with the innovative Leadfree 2.0 radiation protection material to achieve the best possible weight ratio and thus impose only the most necessary physical strain on the children.



▶ **Available sizes**, recommended for:

- SMALL** Length: 60 cm
Hip circumference: 68 - 75 cm
for children aged approx. 3 - 5 years
- MEDIUM** Length: 80 cm
Hip circumference: 76 - 83 cm
for children aged approx. 6 - 8 years
- LARGE** Length: 84 cm
Hip circumference: 84 - 95 cm
for children aged approx. 9 - 12 years



Outer Material

Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Sizes

SMALL, MEDIUM
and LARGE



Accessory

Thyroid/sternum protection
for small patients (page 62)



Ovary Protection



Ovary Protection with Elastic Belt – RP679

The patient shield RP679 protects the ovaries during X-rays of standing patients.

It is also ideally suited for children as patient protection for X-rays in medical diagnostics in the appropriate size set for paediatrics.

The stretch belt* with snap buckle closure makes it easy to put on and take off and ensures convenient size adjustment.

* For patients with a circumference over 128 cm, a special-sized belt is available as an option.

- ✓ Easy and quick to put on
- ✓ Convenient size adjustment via the stretch belt with snap buckle closure and hygienic cover
- ✓ Set consisting of the belt and one protector in each of the following sizes: Small, Medium, Large
- ✓ Protectors adaptable to the belt by means of hook-and-loop fastener



Protection/Lead Equivalent

Standard Lead



Standard:
1.00 mm Pb

Outer Material

Colours are size dependent



Standard:
ComforTex® HPMF

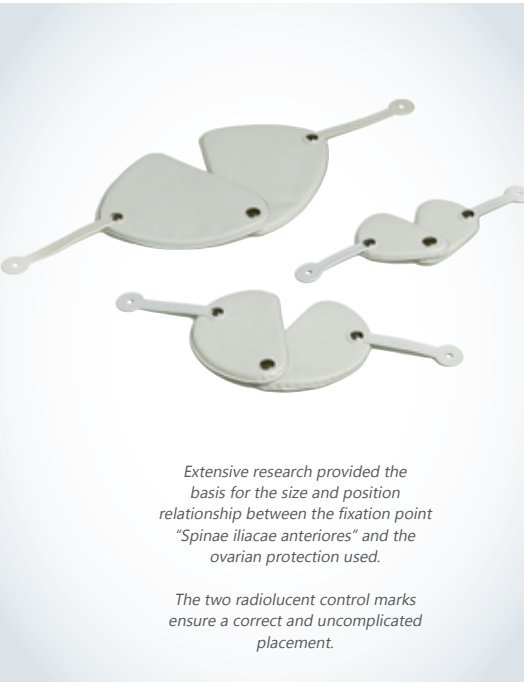
Sizes/Dimensions/Colours

Adults	S	16 x 11 cm	Mandarin
	M	18 x 13 cm	Mandarin
	L	20 x 19 cm	Mandarin
Children	S	7 x 6 cm	Happy
	M	9 x 8 cm	Happy
	L	10 x 10 cm	Happy

Size Sets

The ovary protector is available as a set with protectors in three sizes and an adjustable stretch belt.

Testes Safety



Extensive research provided the basis for the size and position relationship between the fixation point "Spinæ iliacæ anteriores" and the ovarian protection used.

The two radiolucent control marks ensure a correct and uncomplicated placement.



RP278 – Ovary Protection

The concept of this MAVIG ovarian shield is unsurpassed and meets all the requirements of radiological practice. Radiation exposure of the female gonads is significantly reduced without compromising the diagnostic technique.

For optimal fine adjustment, each model can be varied again by means of the modular principle. The RP278 is, of course, easy to clean and disinfect.

A complete set offers you the best possible protection for all your supine patients.

RP276 – Testes Protection

This male gonad protection model covers the penis and scrotum all around with a lead equivalent of 1.00 mm Pb.

Of course, MAVIG has made sure that there is no risk of injury to the patient when using the protection.

The hook-and-loop fastener provides a good hold when adjusted correctly. For cleaning and disinfection, this model series can be unfolded using the snap buttons.

We also offer suitable disposable hygiene bags.

RP280 – Testes Protection

The penis and scrotum are protected with a lead equivalent of 1.00 mm Pb.

The padded, elastic pouch closure provides gentle pressure for a secure and correct fit throughout the examination. The rounded design poses no risk of injury to the patient.

It is easy to put on and the skin-friendly coating of the MAVIG RP280 testicle capsules offers seamless hygiene inside and out. Cleaning and disinfection are easy.

Protection/Lead Equivalent

RP278, RP276 Standard Lead
RP280 Lead rubber single layer



Standard:
1.00 mm Pb

Outer Material

RP278 und RP276
Soft PVC cover
in light grey

RP280

Skin-friendly
coating in medico-white

Sizes/Dimensions

RP2781S	Small	Height 7 cm
RP2781M	Medium	Height 9 cm
RP2781L	Large	Height 12 cm

RP2761E	for men Dimensions 155 x 120 x 90 mm
RP2761K	for boys Dimensions 110 x 90 x 65 mm

RP2801E	for men Dimensions 135 x 105 x 60 mm
RP2801K	for boys Dimensions 105 x 85 x 55 mm

Hygiene Bags Testes Protection

RP-HYG-CE
Set of 100 in men's size

RP-HYG-CK
Set of 100 in boys' size

RP-HYG-CEK

Set of 100 each in men's size
and 100 each in boys' size

Children Protection



RP276 – Testes Protection as a Set of 3 for Children

The model is intended to protect the male gonads of young patients in paediatrics during X-rays for medical diagnostics.

The design avoids any risk of injury to the patient. For cleaning and disinfecting, the protection can be unfolded via snap buttons.

The complete size set includes one testes protection each for infants, toddlers and children from 1 to approx. 10 years of age.

RP274 – Gonad Protection Pants Set

The gonad protection pants comfortably ensure complete protection of the gonads of your smallest patients.

The practical hook-and-loop fastening makes them quick and easy to put on and remove and enable convenient size adjustment.

The complete size set includes one pair of pants each for babies, toddlers and children from 1 to approx. 6 years of age.

Protection/Lead Equivalent

Standard Lead



Standard:
1.00 mm Pb

Outer Material

Design „Happy“
(pages 10/11)



Standard:
ComforTex® HPMF

Sizes/Sets

The 3-piece complete set RP2761G6212 includes one testes protection each for infants, toddlers and children from 1 to 10 years of age.

The 3-piece complete set RP2741G6212 is suitable for infants, toddlers and children from 1 to 6 years of age.

Each size of both sets is adjustable by means of a hook-and-loop fastener.

Note

Both the testes protection for children and the gonad protection pants are only available as a set:

RP2761G6212 3 sizes for children

RP2741G6212 3 sizes for children

Mammary Gland Safety



RP271 – Mammary Gland Protection for Paediatrics

The patient protection product for paediatrics reliably protects the mammary glands of your little patients during X-rays in medical diagnostics.

The children’s chest protector can be conveniently adjusted to the respective size required.

- ✔ Reduction of radiation exposure in the area of the mammary glands by about 80%
- ✔ Hygienically clean, skin-friendly outer cover
- ✔ Reusable, not a disposable product
- ✔ Comfortable, non-pressing neoprene stoppers
- ✔ Practical adjustment

RP270 – Mammary Gland Protection for Women

The mammary gland shield efficiently protects your patients during mammograms.

The shield consists of two equal parts, each 18 x 40 cm (W x H), connected by a length-adjustable hook-and-loop fastener for comfortable donning and easy adjustment.

Protection/Lead Equivalent

RP271 Leadfree 2.0
RP270 Standard Lead



Standard:
0.50 mm Pb

Outer Material

RP271 in Design „Happy”
(pages 10/11)



Standard:
ComforTex® HPMF

Outer Material

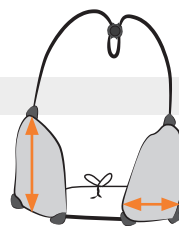
RP270 in Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

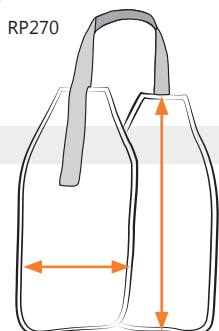
Dimensions

RP271



Height each approx. 11 cm
Width each approx. 10 cm

RP270



Height each approx. 40 cm
Width each approx. 18 cm

It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.

Dental All-round RD639



Patient All-round Protection for Digital Volume Tomography (DVT)

The RD639 all-round protective apron offers optimum radiation protection in digital volume tomography.

The patient is protected at the front as well as the back with the full lead equivalent of 0.35 mm Pb.

The convenient hook-and-loop fastener on the shoulder allows the apron to be put on comfortably from the side. The circumference can be easily adjusted by means of the hook-and-loop fasteners in the back.

The integrated thyroid protection is height adjustable, so that it does not interfere with the imaging.



Protection/Lead Equivalent

NovaLite® Plus or
Leadfree 2.0



Standard:
0.35 mm Pb
(front and back)

Outer Material

Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Dimensions

Small
80.0 x 60.0/60.0 cm
(Length x Width front/back)

Medium
80.0 x 70.0/60.0 cm
(Length x Width front/back)

Dental Panorama RD635



Patient X-Ray Apron for Panorama Shots While Standing

The RD635 protective apron for patients offers optimum radiation protection for standing X-ray exposures on panoramic or teleradiographic units.

The protective clothing is particularly comfortable to put on, as it can be individually adjusted to the patient's body circumference with a quick and easy movement.

The closure system in the front prevents parts of the protective clothing from entering the image-relevant area if the clothing is not closed properly. The back lies smooth and flat against the body.



Protection/Lead Equivalent

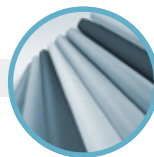
NovaLite® Plus or
Leadfree 2.0



Standard:
0.50 mm Pb
(front and back)

Outer Material

Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Dimensions

Adults
Front: 80.0 x 60.0 cm (L x W)

Children
Front: 60.0 x 45.0 cm (L x W)

Accessory

Thyroid/sternum protection
for patients (page 62)



Dental Chair RD642



Patient X-Ray Apron for X-Rays in a Seated Position

The MAVIG patient protective apron RD642, which is used for dental X-rays in a seated position, is flexible and comfortable to wear.

The high-quality hook-and-loop fasteners are conveniently placed in the shoulder area, making it precise, secure and quick to put on and remove.



Protection/Lead Equivalent

NovaLite® Plus or
Leadfree 2.0



Standard:
0.50 mm Pb
(front)

Outer Material

Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Dimensions

Adults
Front: 80.0 x 60.0 cm (L x W)

children
Front: 60.0 x 45.0 cm (L x W)

Accessory

Thyroid/sternum protection
for patients (page 62)



Dental Bicolour RD644



Patient X-Ray Apron with Thyroid Protection, for X-Rays in a Seated Position

Just like the classic dental apron (RD642), this model offers high flexibility and wearing comfort.

In addition to the large-area protection up to the gonads, the thyroid gland is also covered when taking X-rays of the seated patient.

The practical hook-and-loop fastener in the back of the neck of the thyroid protection collar ensures a snug, secure and quick fit.

Loops on the back allow an easy attachment to the dental chair.



CAN BE USED ON BOTH SIDES

Model RD644 is designed as a reversible X-ray apron for patients.

The design thus allows you to choose between a one-colour or two-colour model.

Two-colour combinations are available in "Curacao with Orchidee" and "Blue Admiral with Regatta".



Protection/Lead Equivalent

NovaLite® Plus or
Leadfree 2.0



Standard:
0.50 mm Pb
(front)

Outer Material

Colours/Design
(pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

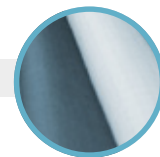
Dimensions

Adults
Front: 80.0 x 60.0 cm (L x W)

Children
Front: 60.0 x 45.0 cm (L x W)

Optional

Also available in
two-colour design



Optional:
Curacao with Orchidee or
Blue Admiral with Regatta

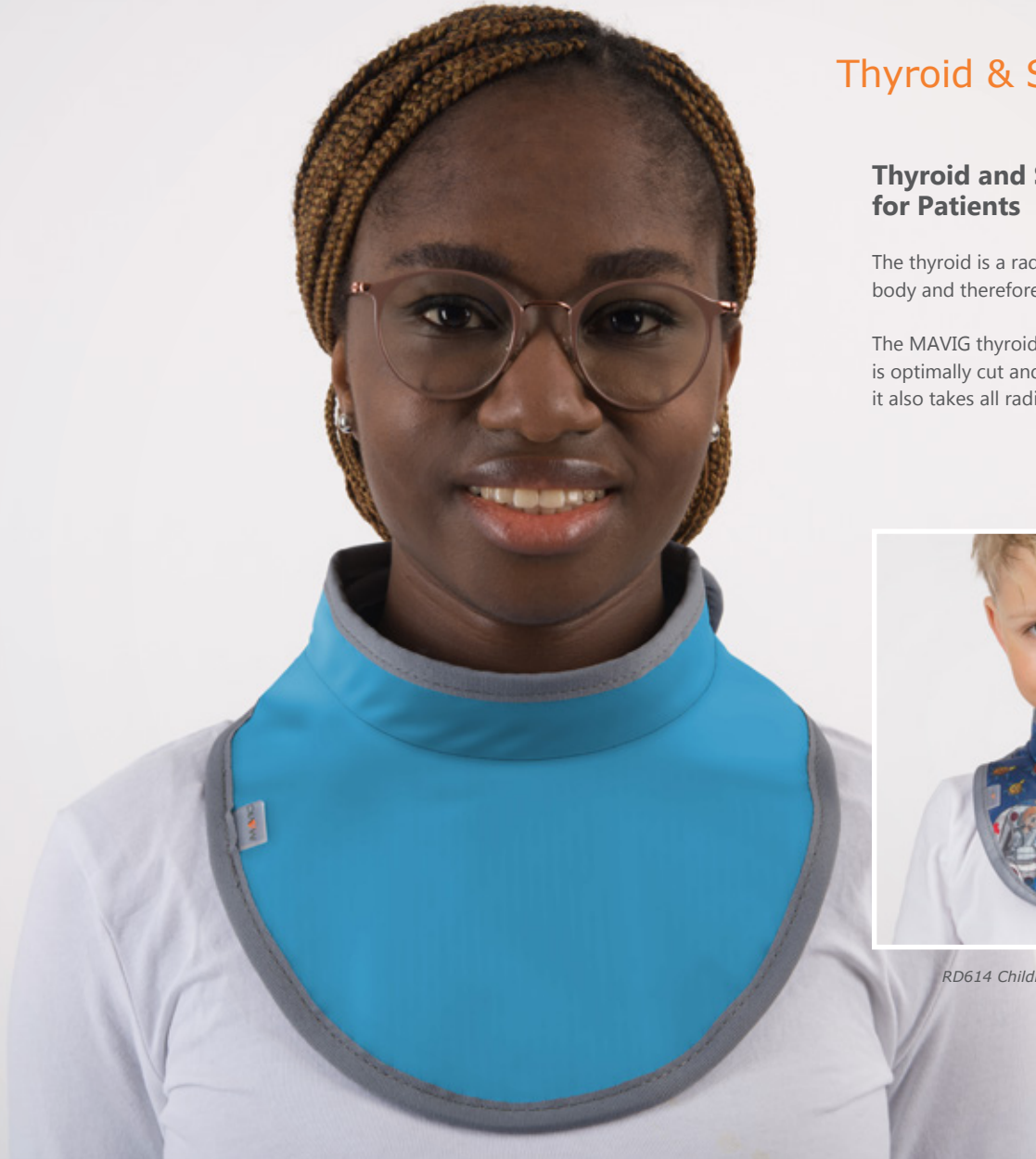
Model RD614

Thyroid & Sternum Protection

Thyroid and Sternum Protection for Patients

The thyroid is a radiation-sensitive organ of the human body and therefore in particular need of protection.

The MAVIG thyroid sternum protection for patients is optimally cut and has the best fit, and, of course, it also takes all radiation protection aspects into account.



RD614 Children Size in Design Happy

Protection/Lead Equivalent

NovaLite® Plus or Leadfree 2.0



Standard:
0.50 mm Pb

Outer Material

Colours/Design (pages 10/11)



Optional:
ComforTex® HPMF Duplex,
ComforTex® HPMF (only Happy)

Sizes

Magnetic/hook-and-loop fastener:
 Adults Standard size fits neck sizes of 32 - 45 cm
 Children Standard size fits neck sizes of 28 - 36 cm

Accessories/Replacement

Hygienic cover
Embroidery



It goes without saying that our patient protection products comply with Regulation (EU) 2016/425 for personal protective equipment and (EU) 2017/745 for medical devices.

With Different Fasteners

An uncomplicated magnetic or hook-and-loop fastener, provides sufficient scope for adjustment.

Hook-and-loop Fastener (KL)

Standard sizes fit neck sizes of 32 - 45 cm for adults and neck sizes of 28 - 36 cm for children.



RD614 with normal hook-and-loop fastener

Magnetic Closure (MA)

Standard sizes fit neck sizes of 32 - 45 cm for adults and neck sizes of 28 - 36 cm for children.



RD614 with uncomplicated magnetic closure

Optimum Protection

In order to meet hygiene requirements, we recommend that you use our washable hygienic cover made from special ComforTex® MF material in colour "Titan".



Optional hygienic cover available

Safekeeping

Storage Systems for X-Ray Protection Clothing – A Daily Helper

This type of aid must fulfil a number of basic criteria to be of use to you in your daily work practice.

- ✔ Convenient & uncomplicated access
- ✔ Low space requirement
- ✔ Easy to assemble
- ✔ Clear arrangement
- ✔ Proper and protective storage

With these aspects in mind, we have designed the MAVIG storage systems for you. Functional, partly modular technology that offers you the greatest possible scope in spatial planning.



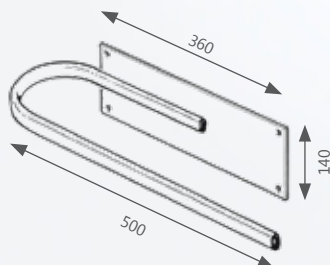
Wall System AW412

With this practical wall system, your radiation protection product is always at hand, stored carefully and in a space-saving manner.

Especially recommended for the following items:
Dental Protection, CT Protection RP648 or
Drapes ST-FS, ST-RZ and ST-ER

- ✔ Functional metal construction
- ✔ For one radiation protection product

- 140 x 500 x 160 mm (H x W x D)
- Lacquered in the colour "medico-white" (RAL 9002)
- Max. 10.0 kg weight capacity
- Empty weight: 1.5 kg



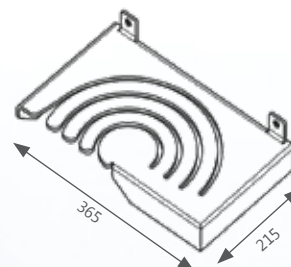
Wall System AW417

The right solution for storing your RP643 gonad aprons.

With the clear arrangement, you can determine the right apron size for your patient at a glance and take the right apron out of the wall system in one go, without having to remove any apron in front or behind it.

- ✔ Heavy duty metal construction
- ✔ For one set of gonad aprons (4 sizes)

- 80 x 365 x 215 mm (H x W x D)
- In the colour "cool white" (RAL 9016)
- Max. 5.0 kg weight capacity
- Empty weight: 1.3 kg





X-ray protective clothing should never be folded, placed over edges, or hung on inappropriate hooks! It should also not be in the direct proximity of heat sources. The use of damaged radiation protective clothing is dangerous! This is particularly critical because damage to the internal radiation protection material is usually not noticed or is noticed very late.

So make sure to check that the protective effect is intact at regular intervals!

NEW



AW419L2 with left stop

AW419R2 with right stop

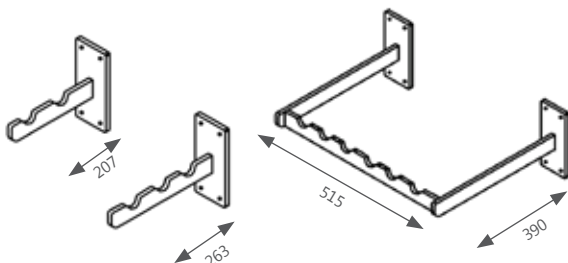


Wall System AW415

Depending on the version, a wall system for the proper storage of two, three, or six pieces of clothing using a special hanger.

- ✔ Convenient & simple access
- ✔ Clear arrangement for up to 6 pieces of clothing (depending on model)
- ✔ Minimal space requirement
- ✔ Suitable and gentle storage
- ✔ Easy wall assembly

- Base plate: each 80 x 180 mm (W x H)
- Material: Stainless steel
- Weight capacity/ Weight (net): 30.0 kg/ 1.5 kg (AW41502)
45.0 kg/ 1.7 kg (AW41503)
90.0 kg/ 6.9 kg (AW41506)



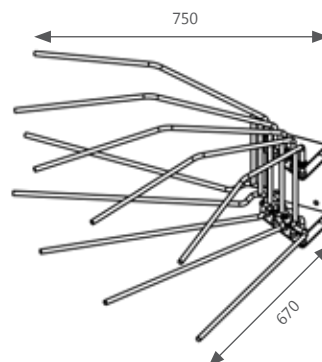
Wall System AW419

The five swivelling chrome double hangers offer you a range of operation of 180°. In contrast, when folded parallel to one another against the wall, the hangers create space for the room.

For up to 10 items of clothing a combination of AW419R2 and AW419L2 systems is ideal.

- ✔ Functional metal construction
- ✔ For 5 X-ray protective aprons/ costumes/coats (max. 75.0 kg)
- ✔ Long hangers for crease-free storage
- ✔ Available in a right or left stop version
- ✔ Easy wall mounting

- Base plate 150 x 210 mm (W x H)
- Colour Chrome / RAL 9010
- Weight (net) 6.3 kg (13.9 lbs)



Special Hanger AW106

The MAVIG hanger made of heavy-duty material (100% recycled) with a special shape is ideal for storing individual aprons, coats or costumes.

- ✔ Heavy duty
- ✔ 100% recycling material
- ✔ For X-ray protective clothing (1 pc.)

- 90 x 520 mm (H x W)
- Colour: black
- Max. 9.0 kg weight capacity
- Empty weight: 0.2 kg

The special hanger is included with every apron/coat/costume from MAVIG.

Safekeeping

Mobile System AW425

With the AW425, your X-ray protective clothing is safely stored using the MAVIG special hangers, included with every apron free of charge. The smooth-running storage system with 4 heavy load casters (2 with parking brakes) offers storage space for six (AW42506) or twelve aprons (AW42512).

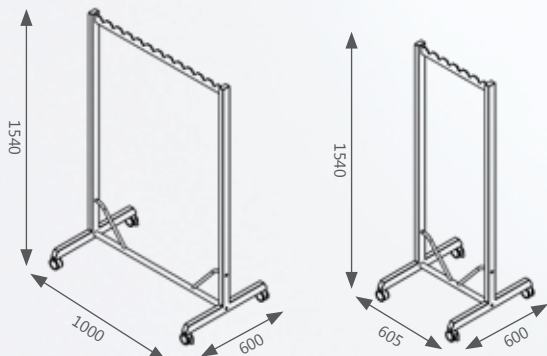
Tip Increase the life of your X-ray protective clothing by making sure it is stored correctly from the start.



AW425K – Optional accessory basket, can be attached on both sides

- ✓ Convenient & simple access
- ✓ Clear arrangement for up to 12 pieces of clothing (up to 120 cm apron length)
- ✓ Easy, fast assembly
- ✓ Optional: Basket for accessories AW425K

- AW42506: 1540 x 605 x 600 mm (H x W x D)
- AW42512: 1540 x 1000 x 600 mm (H x W x D)
- AW425K: 62 x 303 x 243 mm (H x W x D)
- Colouring: Stainless steel / RAL 9010
- Weight capacity: max. 65.0 kg (AW42506)
max. 130.0 kg (AW42512)
- Weight (net): 13.0 kg (AW42506)
15.2 kg (AW42512)
2.0 kg (AW425K - basket)



Mobile System AW426

The AW426 mobile system is easy, comfortable and safe to move. The combination of two hanger parts allow costumes in particular to be hung up quickly, easily and stored properly. The offset of the hangers means that coats and front aprons can also be stored carefully.

For stabilisation it comes with two parking brakes. This model is available in two versions for the safe storage of five (AW42605) or ten (AW42610) pieces of clothing.



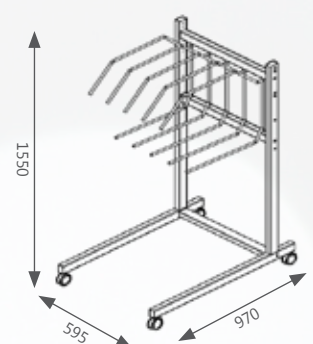
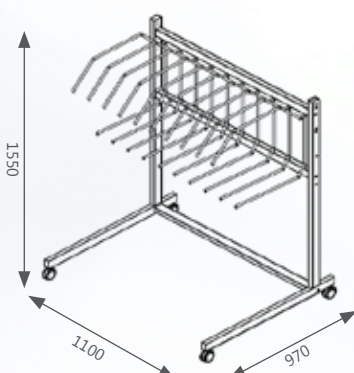
AW426K – Optional accessory basket, two baskets can be attached on each side

- ✔ Functional metal construction
- ✔ For X-ray protection clothing (5 or 10 pieces of clothing)
- ✔ Optional: Basket for accessories AW426K
- ✔ Optional: Holder for accessories AW426S

- AW42605: 1550 x 595 x 970 mm (H x W x D)
- AW42610: 1550 x 1100 x 970 mm (H x W x D)
- AW426K: 70 x 305 x 240 mm (H x W x D)
- Colouring: Chrome / RAL 9010
- Swivel brackets 870 mm (projection)
- Weight capacity: max. 75.0 kg (AW42605)
max. 150.0 kg (AW42610)
- Weight (net): 44.0 kg (AW42605)
62.0 kg (AW42610)



AW426S – Optional accessory holder, one holder can be attached on each side



Protective Material

Lead Rubber Rolls AZ187

There are many possible uses for this robust lead rubber material, which is easy to cut by hand. Unlike with rolled lead, you do not touch any exposed metallic surfaces. Moreover, there are no sharp edges to worry about.

If used on site, please note that the material is only suitable for indoor use.

You can glue, clamp or screw the lead rubber when you further process it.

The high-quality AZ187 material has an easy-to-clean rubber coating on both sides. On the visible side the coating is in the colour "medico-white" (on the reverse side, colour deviations are possible due to the process).

The fabric insert in the centre of the material makes the lead rubber particularly robust.

Naturally, the radiation-absorbing additives are distributed absolutely homogeneously. We offer you the material in different lead equivalent values.

The usable width of the rolls is 90 cm (the edge protrusions on the right and left, each approx. 12.5 cm, cannot be used). They are delivered with untrimmed edges with a minimum purchase of 0.5 running metres.

Customised cuts are possible on request for an additional charge.

Protection/Lead Equivalent

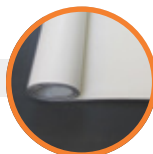
Lead rubber



Optional:
0.50 mm Pb, 1.00 mm Pb,
1.50 mm Pb, or 2.00 mm Pb

Outer Material

Medico-White



Coating:
on both sides

Sizes/Dimensions

Available as rolls
with a usable width of 90 cm,
edges untrimmed

Technical Specifications

Lead equivalent	Thickness	Weight
0.50 mm Pb	2.90 - 3.30 mm	7.5 kg/m ²
1.00 mm Pb	4.56 - 5.16 mm	13.5 kg/m ²
1.50 mm Pb	6.00 - 6.80 mm	19.5 kg/m ²
2.00 mm Pb	7.90 - 8.90 mm	27.0 kg/m ²

Tailor Made Orders

With the help of this template and a standard measuring tape, you can easily determine your body measurements.

Based on the measurements, a made-to-measure apron will be manufactured. Before you use the measuring tape, please note the following:

The requested measurements should be body measurements, measured **without any additions** but also without being constricting. Correct values cannot be determined if you measure yourself. The measurements must always be taken by another person. The person being measured should stand straight with arms hanging to the sides.

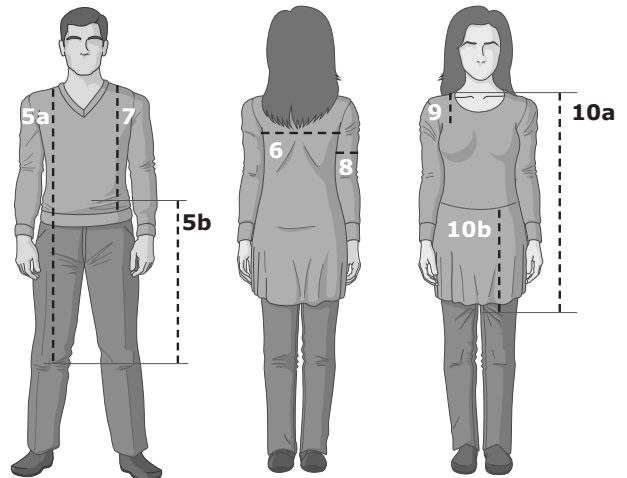
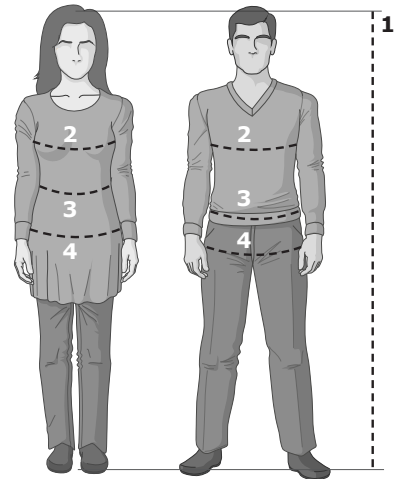
The length of the X-ray protection clothing should be selected in accordance with the German Radiation Protection Ordinance (RöV) and DIN EN 61331-3:2016 so that the front of the body is covered from the base of the neck to at least the kneecaps (MAVIG recommends coverage to below the knee for complete protection).

Please fill in the following points completely.

Measurements for: _____
(First name and surname)

- 1** _____ cm **Total height**
- 2** _____ cm **Chest circumference**
Across the broadest part of the chest (bust) horizontally around the body
- 3** _____ cm **Waist circumference**
Measure around the waist without making it tight (for women measure at the narrowest part of the waist, for men measure around the body slightly below the navel)
- 4** _____ cm **Hip/buttock circumference**
Place the measuring tape horizontally around the broadest part of the hips/buttocks
- 5a** _____ cm **Apron/coat length**
Measure from the middle of the shoulder, down the chest to the desired height of the lower edge of the apron/coat
- 5b** _____ cm **Costume skirt length**
Measure from the waist down to the desired height of the bottom edge of the skirt
- 6** _____ cm **Back width**
Measure at the back, from armpit to armpit, with arms at the sides
- 7** _____ cm **Front length of the upper body**
Measure from the middle of the shoulder over the chest down to the Iliac crest (Spinae iliacae anteriores)
- 8** _____ cm **Upper arm circumference (sleeves, optional)**
Horizontal circumference at the middle of the upper arm
- 9** _____ cm **Position from above (only Levio®)**
Measure from the middle of the shoulder the start of the breast (about at the second rib, between the collarbone and the mammary papilla)
- 10** _____ cm **Length / Skirt panel length (only Levio®)**
a) Measure from the middle of the shoulder to below the gonads (about 10 cm below the crotch)
b) Skirt only: Measure from the waist (waistband of the skirt) to below the gonads (about 10 cm below the crotch)

Woman Man



I Model RA _____ Levio Edition
 Victoria

Inside: NovaLite Plus Leadfree 2.0

Pb Front: _____ mm **Back:** _____ mm
(Standard: 0.25 mm Pb)

III Sleeves (optional) Right / Left / Pair
 Sewn-on / Buttoned-on

in Pb: _____ mm
(Standard: 0.25 mm Pb)

Bolero in Pb: _____ mm
(Standard: 0.25 mm Pb)

II Outer Material ComforTex® HPMF Hybrid

Outer Colour: _____
(Colour name or colour code)

IV Embroidery/Border (optional) Sewn-in Adjustable
 Shoulder Skirt

Text: _____

(Please write legibly, in capital letters)

Measured by: _____
(Name)

on: _____
(Date)

From/by: Hospital / Supplier / MAVIG employee

Levio® Edition - 2 Measurements

With the help of this template and a standard measuring tape, you can easily determine your body measurements. Based on the measurements an optimised Levio Edition apron will be made or, if needed, your MAVIG clothing size is determined. Before you use the measuring tape, please note the following:

The requested measurements should be body measurements, measured **without any additions** but also without being constricting. Correct values cannot be determined if you measure yourself. The measurements must always be taken by another person. The person being measured should stand straight with arms hanging to the sides.

Please fill in the following points.

Measurements for: _____
(First name and surname)

Woman **Man**

1 _____ cm **Position from above (Levio®)**

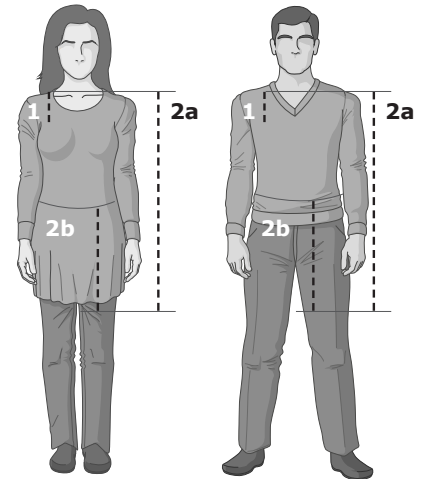
Measure from the middle of the shoulder the start of the breast
(about at the second rib, between the collarbone and the mammary papilla)

2a _____ cm **Length (Levio®)**

a) Measure from the middle of the shoulder to below the gonads (about 10 cm below the crotch)

2b _____ cm **Skirt panel length (Levio®)**

b) Skirt only: Measure from the waist (waistband of the skirt) to below the gonads (about 10 cm below the crotch)



I Model RA631 Levio Costume
 RA632 Levio Coat
 RA660 Levio Apron

 RA631 Levio / Victoria Vest
 RA636 Levio / Victoria Coat

II Inner Material NovaLite Plus
 Leadfree 2.0
Pb Levio Panel: 0.42 mm Pb 0.50 mm Pb
(Base layer: 0.25 mm Pb)

III Size XS S M L
 XL XXL 3XL
Length 90 cm 100 cm
(Coat/Apron) 110 cm 120 cm
 130 cm 140 cm

Length 65 cm 70 cm
(Skirt) 75 cm 80 cm

IV Outer Material ComforTex® HPMF Hybrid
Outer Colour: _____
(Colour name or colour code)

V Sleeves Right / Left / Pair
(optional) Sewn-on / Buttoned-on
in Pb: _____ mm
(Standard: 0.25 mm Pb)

Bolero in Pb: _____ mm
(optional) (Standard: 0.25 mm Pb)

IV Embroidery/Border Sewn-in Adjustable
(optional) Shoulder Skirt
Text: _____

(Please write legibly, in capital letters)

Measured by: _____ **on:** _____
(Name) (Date)

From/by: Hospital / Supplier / MAVIG employee



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