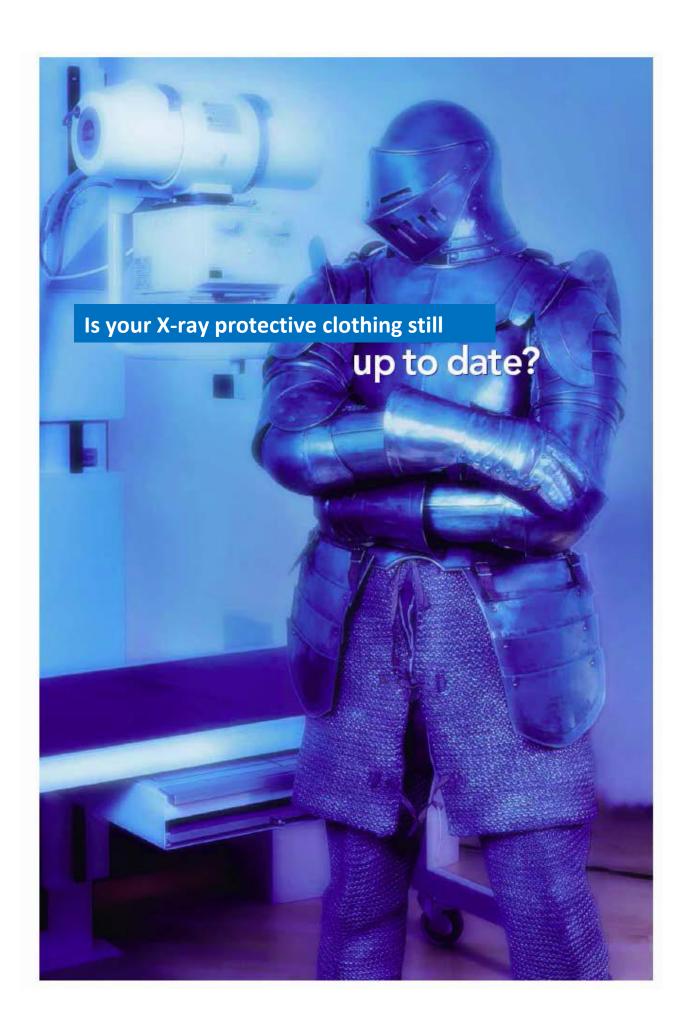


WIROMA

YOUR SPECIALIST FOR RADIATION PROTECTION



General order information

Material - Standard

X-lightLead free

All three materials are in generally very flexible and robust. The difference is only in weight. The X-light material is approximately 20% lighter and the lead-free one is roughly 25% lighter compared with the standard material.

The protection level is for all materials the same and belongs to the lead equivalent information of 0.25 / 0.35 / 0.50 Pb or more. Wiroma aprons are CE tested for personal protection and are checked between 50 and 150 kV. Of course, all our products can be used as well for patient protection.

Our test centre for CE certificats is BTTG Testing & Certification Ltd. in Manchester with the ID number 0338. The requirements conform to article 11, B, No. 1(c) of Council Directive 89/686/EEC for personal protective equipment. Our products are already tested to new Norm IEC 61331-3:2002 and 61331-1:2014. Our products have also passed the CE-Type Approval.

Sizes

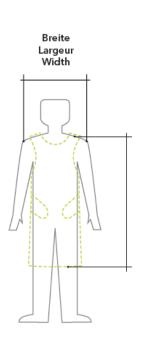
Aprons are available in different sizes; see the price list. Please consult our measurements table below so that we can deliver protective wear in the correct size.

FRONTSCHÜRZE TABLIER FRONTAL FRONT APRON

Breite = von Schulter zu Schulter (gemäss Abbildung)

Largeur = d'épaule à épaule (comme image)

Width = from shoulder to shoulder (as drawing)

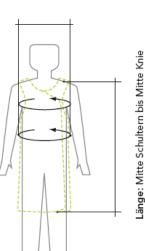


Länge: Mitte Schultern bis Mitte Knie Longueur : de la moitié des épaules à la moitié des genoux Length: measure mid-shoulder to mid-knee. MANTELSCHÜRZE TABLIER-MANTEAU WRAP AROUND APRON

Brust- oder Bauchumfang. Nur das grössere Mass angeben.

Tour de la poitrine ou du ventre. A retenir que la mesure la plus grande.

Measure circumference of chest and abdomen. State only the larger of the two measurements.



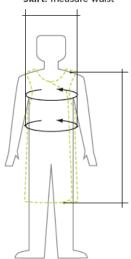
-ange: Mitte Schultern bis Mitte Knie -ongueur : de la moitié des épaules à la moitié des genoux -ength: measure mid-shoulder to mid-knee. TOP UND JUPE VESTE ET JUPE TOP AND SKIRT

Top: Brust- oder Bauchumfang. Nur das grössere Mass angeben. Jupe: Taille

Top: la circonférence de la poitrine ou du ventre. A retenir que la mesure la plus grande. Jupe: taille

Top: measure circumfrence of chest and abdomen. State only the larger of the two measurements.

Skirt: measure waist



Farbcode-Nr. / Nr. De code du coloirs / Colour codes

Hauptfarbe und Farbe der Brusttasche / Couleur principale et couleur de la poche / Main colour and colour of the brest pocket

Material Nylon/Matière Nylon/Material nylon



petrol dunkelblau/bleu foncé/dark blue blau/bleu/blue dunkelrot/rouge foncé/dark red türkis/turquoise/turquoise

Material Magic/Matière Magic/Material Magic



petrol blau/bleu/blue braunrot/brunrouge/brownred bordeaux/bordeaux/burgundy violett/violet/violet grau/gris/grey olive eisblau/bleu glacé/iceblue

"Magic"

- Flexible, elasticated and very hard-wearing material. Betadine, Hexaquart plus, blood, contrast media and, to some extent, aggressive fluids can be easily removed with warm soapy water.
- Can be used in surgery, angiography and in all work areas that have an increased risk of contamination.

"Nylon"

- Mechanically-speaking, it is more robust and more scratch-resistant than Magic.
- Can be used in general medicine and in veterinary practice.

Monograms

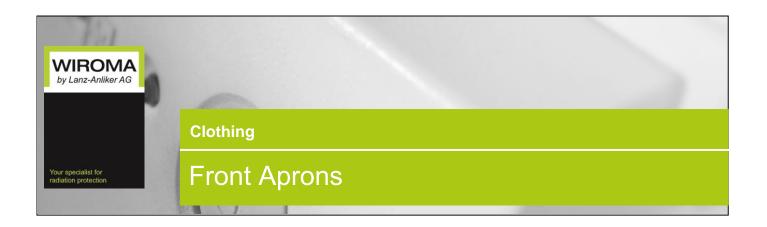
- Up to 21 letters per line possible
- Example: 'Prof. Hansrudolf Müller' 'Radiology'

WIROMA Options

- Inner chest pocket for dosimeter
- Affixed logos and monograms
- Transparent insert pocket for name card
- Additional sleeves
- Thyroid collar either sown on or with press studs
- · Children's motifs
- Additional fixing ties (Velcro)
- All radiation protection aprons can also be made in special sizes

WIROMA USP

- Integrated chest pocket (removable)
- Resistant to commercial disinfectants (Hexaquart plus, etc.)
- RFID chip controlled



413-AWC





| | Length |
|------------------|---------|
| | XSV 90 |
| X-SMALL | XSS 100 |
| Width 50 cm | XSM 110 |
| < 99 cm | SXL 120 |
| | XSE 130 |
| | SV 90 |
| SMALL | SS 100 |
| Width 60 cm | SM 110 |
| Up to ca. 115 cm | SL 120 |
| | SE 130 |
| | MV 90 |
| MEDIUM | MS 100 |
| Width 65 cm | MM 110 |
| Up to ca. 125 cm | ML 120 |
| | ME 130 |
| | LV 90 |
| LARGE | LS 100 |
| Width 75 cm | LM 110 |
| Up to ca. 140 cm | LL 120 |
| | LE 130 |

Optimal weight distribution is achieved with the AWC apron thanks to the special form.

The front apron is also available with an integrated thyroid collar.

Option: Additional velcro tape to fix the shoulder bands.

412-WBT





| | Length |
|------------------|---------|
| | XSV 90 |
| X-SMALL | XSS 100 |
| Width 50 cm | XSM 110 |
| < 99 cm | SXL 120 |
| | XSE 130 |
| | SV 90 |
| SMALL | SS 100 |
| Width 60 cm | SM 110 |
| Up to ca. 115 cm | SL 120 |
| | SE 130 |
| | MV 90 |
| MEDIUM | MS 100 |
| Width 65 cm | MM 110 |
| Up to ca. 125 cm | ML 120 |
| | ME 130 |
| | LV 90 |
| LARGE | LS 100 |
| Width 75 cm | LM 110 |
| Up to ca. 140 cm | LL 120 |
| | LE 130 |

The WBT apron provides great comfort and is very adaptable due to a wide cross-over belt that has a practical plastic buckle. Less contamination (veterinary surgeon) and very hygienic.

The front apron is also available with an integrated thyroid collar.

Option: Additional velcro tape to fix the shoulder bands.

Operating aprons

421-SDO

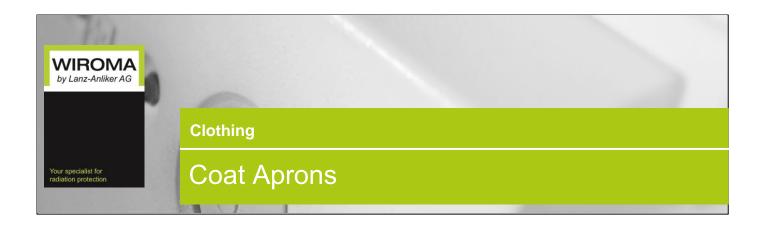




| | Length |
|------------------|---------|
| | XSV 90 |
| X-SMALL | XSS 100 |
| Width 50 cm | XSM 110 |
| < 99 cm | SXL 120 |
| | XSE 130 |
| | SV 90 |
| SMALL | SS 100 |
| Width 60 cm | SM 110 |
| Up to ca. 115 cm | SL 120 |
| | SE 130 |
| | MV 90 |
| MEDIUM | MS 100 |
| Width 65 cm | MM 110 |
| Up to ca. 125 cm | ML 120 |
| | ME 130 |
| | LV 90 |
| LARGE | LS 100 |
| Width 75 cm | LM 110 |
| Up to ca. 140 cm | LL 120 |
| | LE 130 |

As soon as there is no more radiation in the operating theatre, these aprons can be removed from underneath the operating clothing by undoing the Velcro straps.

For the rest of the time in the operating theatre you have no need to wear any unnecessary weight.



431-LSW



| | Length |
|--------------------|---------|
| X-SMALL < 99 cm | XSV 90 |
| | XSS 100 |
| | XSM 110 |
| \ 99 CIII | SXL 120 |
| | XSE 130 |
| | SV 90 |
| SMALL | SS 100 |
| ~ 100 cm | SM 110 |
| 100 CIII | SL 120 |
| | SE 130 |
| | MV 90 |
| MEDIUM | MS 100 |
| ~ 110 cm | MM 110 |
| 1 10 CIII | ML 120 |
| | ME 130 |
| | LV 90 |
| LARGE | LS 100 |
| ~ 120 cm | LM 110 |
| ~ 120 CIII | LL 120 |
| | LE 130 |
| | XLV 90 |
| X-LARGE | XLS 100 |
| ~ 130 cm | XLM 110 |
| ~ 150 CIII | XLL 120 |
| | XLE 130 |

Thanks to its wide stretch belt, the 431-LSW coat apron takes the weight off the shoulders. This model provides optimum shoulder movement and the highest comfort.

The height of the exterior belt is adjustable.

431-LSW GI (with inside belt)



| | Length |
|-----------|---------|
| X-SMALL | XSV 90 |
| | XSS 100 |
| < 99 cm | XSM 110 |
| > 99 GIII | SXL 120 |
| | XSE 130 |
| | SV 90 |
| SMALL | SS 100 |
| ~ 100 cm | SM 110 |
| 100 CIII | SL 120 |
| | SE 130 |
| | MV 90 |
| MEDIUM | MS 100 |
| ~ 110 cm | MM 110 |
| 1 10 CIII | ML 120 |
| | ME 130 |
| | LV 90 |
| LARGE | LS 100 |
| ~ 120 cm | LM 110 |
| 120 0111 | LL 120 |
| | LE 130 |
| | XLV 90 |
| X-LARGE | XLS 100 |
| ~ 130 cm | XLM 110 |
| 130 011 | XLL 120 |
| | XLE 130 |

This wraparound belongs to all those, that don't want to have a belt outside.

The interior belt is fixed in and cannot be removed.

431-LSW_COM



| | Length |
|------------|---------|
| X-SMALL | XSV 90 |
| | XSS 100 |
| < 99 cm | XSM 110 |
| \ 99 OIII | SXL 120 |
| | XSE 130 |
| | SV 90 |
| SMALL | SS 100 |
| ~ 100 cm | SM 110 |
| 100 011 | SL 120 |
| | SE 130 |
| | MV 90 |
| MEDIUM | MS 100 |
| ~ 110 cm | MM 110 |
| 1 10 GIII | ML 120 |
| | ME 130 |
| | LV 90 |
| LARGE | LS 100 |
| ~ 120 cm | LM 110 |
| 120 0111 | LL 120 |
| | LE 130 |
| | XLV 90 |
| X-LARGE | XLS 100 |
| ~ 130 cm | XLM 110 |
| ~ 130 CIII | XLL 120 |
| | XLE 130 |

Thanks to the multi-adjustable Stretch belt the new coat apron 431-LSW_COM provides optimal weight distribution on shoulder and hip. Comfortable and quick to put on and take off.

The model has the best comfort when standing, moving or sitting.

Options: Additional arm sleeves (left or right) for cardiologists (431-LSW COM KARD).

Now also available with magnetic closure instead of velcro.

533-DSW



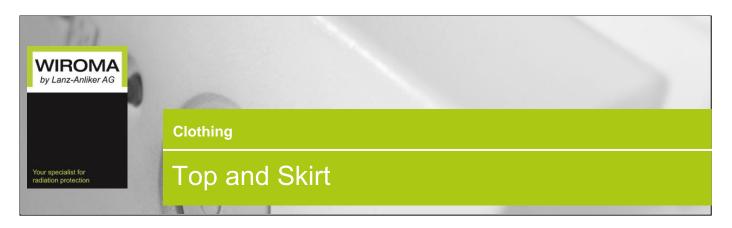


533-DSW coat aprons give wraparound protection from radiation during special examinations. They are characterised by the overlapping Velcro locking system on the shoulder. Thanks to its wide bottom edge the apron can be fastened to fit different sizes without any problems.

The height of the exterior belt is adjustable.

| | _09 |
|--------------------|---------|
| X-SMALL < 99 cm | XSV 90 |
| | XSS 100 |
| | XSM 110 |
| < 99 CIII | SXL 120 |
| | XSE 130 |
| | SV 90 |
| SMALL | SS 100 |
| ~ 100 cm | SM 110 |
| ~ 100 CIII | SL 120 |
| | SE 130 |
| | MV 90 |
| MEDIUM | MS 100 |
| ~ 110 cm | MM 110 |
| 110 CIII | ML 120 |
| | ME 130 |
| | LV 90 |
| LARGE | LS 100 |
| ~ 120 cm | LM 110 |
| ~ 120 CIII | LL 120 |
| | LE 130 |
| X-LARGE | XLV 90 |
| | XLS 100 |
| ~ 130 cm | XLM 110 |
| ~ 130 cm | XLL 120 |
| | XLE 130 |

Length



437 & 537-Top / 538-Skirt







The overlapping Velcro lock at the front (437) and on the shoulder section (537) allow the top to be fastened comfortably and to fit well. Together with the 538-skirt it provides secure wraparound protection from radiation..

Option: Available in different lengths.

Top now also available with magnetic closure instead of velcro.

TOP

| Girth | Length |
|----------|--------|
| X-SMALL | |
| < 95 cm | XSM 60 |
| Umfang | |
| SMALL | |
| ~ 100 cm | SM 60 |
| Umfang | |
| MEDIUM | |
| ~ 110 cm | MM 60 |
| Umfang | |
| LARGE | |
| ~ 120 cm | LM 60 |
| Umfang | |
| X-LARGE | |
| ~ 130 cm | XLM 60 |
| Umfang | |

SKIRT

| Orana | |
|----------|--------|
| Girth | Length |
| X-SMALL | |
| < 89 cm | XSM 60 |
| Umfang | |
| SMALL | |
| ~ 95 cm | SM 60 |
| Umfang | |
| MEDIUM | |
| ~ 105 cm | MM 60 |
| Umfang | |
| LARGE | |
| ~ 110 cm | LM 60 |
| Umfang | |
| X-LARGE | |
| ~ 120 cm | XLM 60 |
| Umfang | |

437 - TOP - KARD

!! Arm part also available with Wraparound apron 431-LSW_COM KARD !!

- ➤ Enlargement the shoulder
- Removable arm parts (left / right)
- ➤ Additional protection at longer work in x-ray beam





| 458-ARM KARD | | |
|--------------|----------|-------------------------------------|
| Item-Nr. | | Lead equivalent in X-Light material |
| 45800200 | One Size | 0.25 mm Pb |
| 45800300 | | 0.35 mm Pb |
| 45800400 | | 0.50 mm Pb |



The soft collar is used in areas where the user is exposed to X-ray radiation over a long period of time, like, for example: cardiac catheter, angiography, intramedullary bone nailing, femoral neck, etc.



- **4534 TS**Thyroid shield to protect thyroid glands. Its comfortable design guarantees protection and easy wearing. With Velcro strap / one size
- **4534 TSG** Can be fixed onto front or coat aprons or attached with press buttons.
- **4534 TSM** With magnetic fastening.

HYGIENIC MOLTON COVER

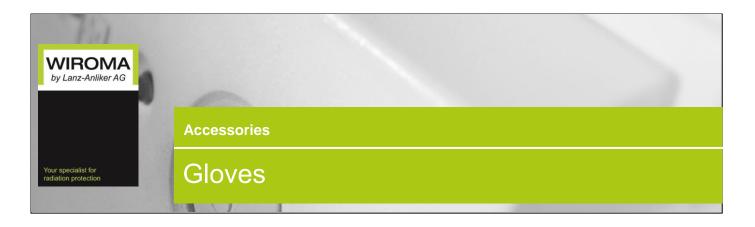


Composition: 68% molleton and 32 % PU (made to be antibacterial), More hygienic, washable at 40 $^{\circ}$ C

ONEWAY HYGIENIC COVER



Oneway Hygienic cover for TS in a practical Box. 100pieces per box.



Gloves with opening for grip



One size for right and/or left hand. This article is available in different colours and lead values.

Available in: 0.35 / 0.50 / 0.75 mm Pb

Lead full-fingered gloves



Manufactured out of highly flexible lead vinyl. The exterior material is easy to maintain and made from artificial leather. The interior glove can be separated.

These gloves are available in one size, as a pair or individual items and in grey or blue: 0.50 mm Pb.

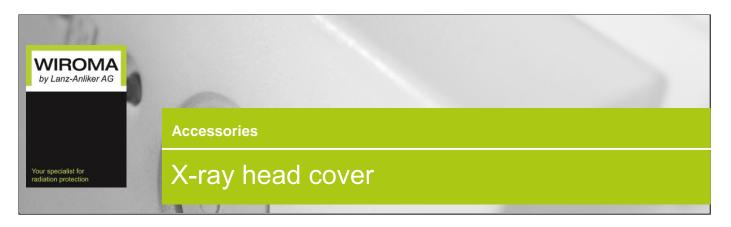
Surgical gloves



These sterilised disposable gloves have a rough surface.

Interventions suitable for radiology, orthopaedics, etc.

These gloves are available as a pair.



403 - X-ray head cover

Our Wiroma X-ray head cover is available in 3 different sizes, Small, Medium and Large including Velcro system for quick fastener. Available in lead-equivalent 0.25 mm and 0.35 mm Pb. Quality: Standard material.

The head cover can use in different departments:

- > Cardiology
- Diagnostic radiology
- > Angiography
- > Radiology intervention
- > etc.





Using radiation protection glasses considerably reduces the ocular lens' exposure to radiation. 90-99 % of scattered rays at 80 kV are already absorbed by a lead equivalent value of 0.50 mm. We offer different glasses designs to protect eyes.

These glasses can also be ordered with correcting glass, with single vision or bifocal lenses (additional charge). Please ask for our special form for the ophthalmologist to place these kinds of orders.



UNIVISTA TYP II 0.75mm Pb

Art. Nr. 31700901

Can be worn over glasses, the angle and length of temple can be adjusted. Weight: 96g



UNIUNITE 0.75mm Pb

White Art. Nr. 31700902 / Blue Art Nr. 31700903 Can be worn over glasses, good shielding with cheek/brwon protection. Available in white and blue. Weight: 76g



UNICRUISER 0.75mm Pb

Art. Nr. 31700125 Good shielding with this sporty plastic frame.

Weight: 74g



UNISURFER 0.75mm Pb

Art. Nr. 31700126

Good shielding with this sporty plastic frame, high quality x-ray protective spectacles.

Weight: 79g



UNICHARGER 0.75mm Pb

Art. Nr. 31700127 Softer nosepiece and temple ends.

Weight: 77g



UNIPAL 0.75mm Pb

Art. Nr. 31700130

The angle and lenght of the temple can be adjusted, correction in single vision and multi vision. Can be worn over glasses.

Weight: 78g



MIRAGE / PERSOL 0.75 mm Pb

Art. Nr. 463210

Correction in single vision, bifocal and multi vision.

Weight: 92g



UNICLASS / URBAN 0.75 mm Pb

Art. Nr. 462570

Good shielding with this sporty plastic frame, stylisch and high quality.

Weight: 72g



UNIPRO / CASUAL 0.75 mm Pb

Art. Nr. 461830

With side splash guard, correction in single vision and multi vision.

Weight: 71g



UNICAJA / CASUAL Light 0.75 mm Pb

Art. Nr. 461850

With side splash guard, correction in single vision and multi vision.

Weight: 71g



UNIFRESH 0.75 mm Pb

Available in 4 different Colors

Art. Nr. AH10572 blue-grey

Art. Nr. AH10573 grey-transparent

Art. Nr. AH10574 smoke-green

Art. Nr. AH10575 red

With side splash guard, correction in single vision and multi vision.

Weight: 71g



417 - OPT



| 417-OPT for panoramicradiography | | |
|----------------------------------|-------------------|--|
| Lead value | Girth x Length | |
| 0.25 mm Pb | 60 x 60 | |
| 0.35 mm Pb | 60 x 60 | |
| 0.50 mm Pb | 60 x 60 | |

Patient protection for panorama x-ray examination for children and adults.

420 - DTL

Our poncho is easy to put ouver the patient.



| 420-DTL for normal radiography | |
|-----------------------------------|---------|
| Lead value Girth x Length | |
| 0.35 mm Pb | 60 x 88 |
| 0.50 mm Pb | 60 x 88 |

418 - DTC



Patients' apron with thyroid collar

| 418-DTC for normal radiography | | |
|-----------------------------------|-------------------|--|
| Lead value | Girth x Length | |
| 0.25 mm Pb | 60 x 88 | |
| 0.35 mm Pb | 60 x 88 | |
| 0.50 mm Pb | 60 x 88 | |



Patients' apron without thyroid collar

| 419-DTL for normal radiography | | |
|-----------------------------------|-------------------|--|
| Lead value | Girth x Length | |
| 0.25 mm Pb | 60 x 88 | |
| 0.35 mm Pb | 60 x 88 | |
| 0.50 mm Pb | 60 x 88 | |



To protect patients' gonads during X-ray examinations for thorax and the upper abdominal area.



with velcro strap

| 442-HSV with velcro strap | | |
|------------------------------|---------|--|
| Umfang x Länge | | |
| 0.50 mm Pb | 30 x 30 | |
| | 40 x 30 | |
| | 60 x 45 | |
| | 60 x 60 | |





with plastic buckle

| 440-ASB with plastic buckle | |
|--------------------------------|---------|
| Umfang x Länge | |
| 0.50 mm Pb | 30 x 30 |
| | 40 x 30 |
| | 60 x 45 |
| | 60 x 60 |



with hip wire

| 443-RSV With hip wire | | |
|--------------------------|---------|--|
| Umfang x Länge | | |
| 0.50 mm Pb | 30 x 30 | |
| | 40 x 30 | |
| | 60 x 45 | |
| | 60 x 60 | |





488-Skirt:

For our smallest patients to protect the gonads during X-ray examinations of the thorax and upper abdominal area.

487-Top:

The overlapping Velcro strap makes this top easy to close and fit snugly on children.

483-AWC

Front apron for children. Cross-over Velcro strap with stretch over the hips.

480-FCW (LSW)

Coat apron for children made from highly flexible multi-layered protective material with very durable top fabric.

477-OPT

Children's dental apron. Protects patients during dental radiography, particularly on the dental chart.

All designs are available in lead equivalent values of 0.35 mm Pb or 0.50 mm Pb.

Motifs:













All-round radiation protection with Velcro straps to cover and wrap patients.
Shape made to order!



Lead vinyl mattress for covering patients during diagnosis and for use in therapy. Shape made to order.



Special wrap for patients 0.35 mm Pb / X-light or normal material Pad: 55 x 60 cm, Cover: 85 x 35 cm Adjustable for slight and larger patients.



Studies have revealed that the lens is apparently more sensitive to radiation than previously thought. According to estimations the point at which demonstrable opacity of the lens occurs is during only one short exposure at 0.5-2 Gy. The point at which visual impairment occurs (cataract) is at 5 Gy.

The CT Eye Shield has been specially developed to protect the lens.

- Clear reduction and optimisation of the dose during the CT scan and other X-ray procedures.
 - The fitted spacer reduces artefacts to an absolute minimum.
- Hypoallergenic adhesive ensures that the shield consequently stays on.
- Material made from barium sulphate can be disposed of with normal waste without danger.



CT Thyroid Shield

The CT Thyroid Shield was designed to ensure a reduced dose on sensitive thyroid glands. It has a lead equivalent value of 0.125 mm Pb.



- A dose reduction of practically over 40 % during CT scans or general X-ray examinations.
- Over 60% reduction in the dose with transmissions of 50 kV to 150 kV.
- Material made from barium sulphate can be disposed of with normal waste without danger.



448 - MAMMO

For convering and protection of the left and the right breast during mammography.

Mammo-SMALL



Mammo-LARGE



Ovarian protection



To protect female organs.
The ovarian shield is available in sizes M and L.
The centre pin makes it easier to handle.
1.00 mm Pb
Choice of colour.

Gonad protection



Gonad capsules to protect male organs. Available in sizes M and L. 1.00 mm Pb Leadfree.



Triangle to protect male and female organs. Diameter: 24 x 24 cm with 2 ties for fastening. 1.00 mm Pb Choice of colour.



5-Arm swivel bracket or 10-Arm swivel bracket



Out of stainless steel with moveable hangers (right and left). Lets you store your radiation protection wear while saving space and protecting the material. Includes fitting to make mounting it onto the wall easier.

With welded-on hooks.

Mobile suspension device





Made from sturdy stainless steel with moveable hangers. Lets you store your radiation protection wear while saving space, in a way that is both mobile and which protects the material.

With welded-on hooks.

for 5 aprons

Dimensions: 60 x 55 x 165 cm

(WxDxH)

for 10 aprons

Dimensions: 88 x 70 x 155 cm

(WxDxH) Made **Wooden hanger** Hanger made from solid beech wood. The defined shape of the hanger makes it suitable for all front and coat aprons, as well as tops and skirts.



Clothes hanger INOX

Hanger made from stainless steel. Fully welded. No moveable parts and struts. It is therefore very hygienic and easy to clean. Specially suited to operating theatres.

Protective curtain





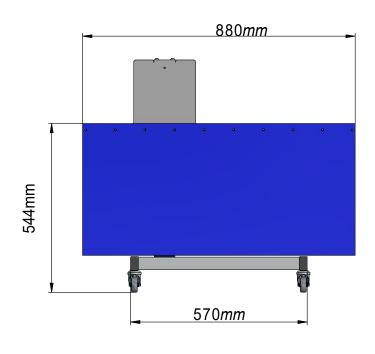
Protective curtain for windows and room partitions, mobile design, made to measure. The curtains are available with a lead equivalent value of 0.25 mm - 1.00 mm Pb. We will gladly advise you on sizes and colours.

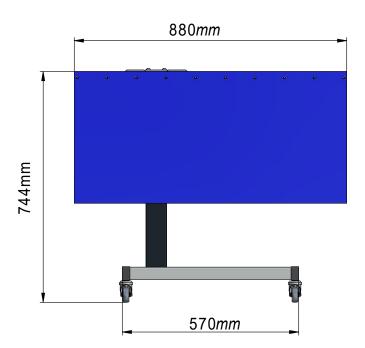
Possible uses:

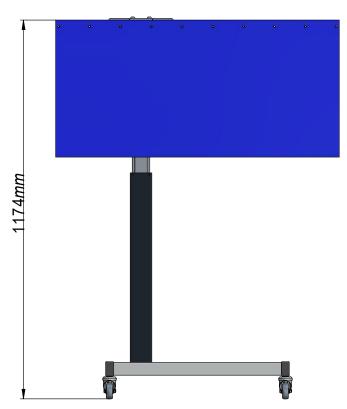
- Gangways
- Entrance to control room
- Round curtain
- Shielding patients during X-ray procedures in the room
- Dividing different work places
- Covering up windows
- Double and multiple curtains

Mobile racks available in different sizes.

Mobile X-ray protection height adjustable







Foldable X-ray protection wall





Measurements:

Closed: 1.05 m x 1.81 mOne side open: 2.06 m x 1.81 mCompletely open: 3.06 m x 1.81 m

Dunn-Rippstein System









petrol NYLON Best / com / ord / No. 104

dunkelblau – bleu foncé dark blue NYLON Best / com / ord / No. 106

blau - bleu - blue NYLON Best / com / ord / No. 108

dunkelrot – rouge foncé dark red NYLON Best / com / ord / No. 110

türkis – turquoise – NYLON Best / com / ord / No. 112

petrol MAGIC Best / com / ord / No. 204

dunkelblau – bleu foncé dark blue MAGIC Best / com / ord / No. 206

blau - bleu - blue MAGIC Best / com / ord / No. 208

braunrot – brunrouge – brownred MAGIC Best / com / ord / No. 209

bordeaux – burgundy MAGIC Best / com / ord / No. 211

violett – violet MAGIC Best / com / ord / No. 213

grau – gris – grey MAGIC Best / com / ord / No. 216

olive MAGIC Best / com / ord / No. 217

eisblau – bleu glacé – iceblue MAGIC Best / com / ord / No. 218

kupfer – cuivre – copper MAGIC Best / com / ord / No. 220

