

# **X-RAY PROTECTION**



#### «ONIKO» the name you trust

ONIKO company was created in 1992.

ONIKO is a supplier of materials and the equipment for X-ray diagnostics in Ukraine from the leading world manufacturers and is a manufacturer itself. "ONIKO" began the development of individual x-ray protection means in 2000.

Today, due to the high quality and original design, ONIKO products are known in many countries of Europe and Asia. The company offers products for individual and collective protection of the patients, personnel and children from ionizing radiation during medical X-ray examinations.

ONIKO successfully develops the systems for radiation protection. The company is constantly improving and introducing new models of personal x-ray protection that meet the highest standards. Creativity and diligence of the team of more than 50 people, ensures the company's reputation as an innovative provider of reliable products of the highest quality. The increasing demands of modern medical technology are met through continuous dialogue with customers.

In 2012 the branch of the company – ONIKO-Europe in Prague (Czech Republic) was created which now operates successfully and supplies ONIKO products to the EU.

#### **Product Information**

#### **Comfort and quality**

The quality requirements to the production of clothing for radiation protection are stricter than ever. Modern diagnostic and therapeutic procedures based on the effects of radiation, require the increase of the time for wearing protective clothing. Protection requirements vary for different applications. The policy of ONIKO company allows to offer the approved and the widest range of models.

#### **Protective material**

Vinyl is a material which provides good protection for the users and decreases the weight of the products compared to other materials. Vinyl satisfies the basic ergonomic requirements, especially for long time investigations with X-ray protective clothing. Our company pays special attention to the unique design and optimum

workmanship. Modern manufacturing technology and constant quality control ensures that the concept of our brand users receive a proper assessment. Oniko offers products from the following types of vinyl:

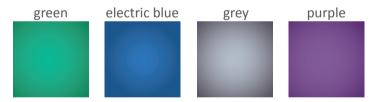
- "Lead Vinyl Standard" the most popular lead vinyl material;
- "Vinyl Lead Free" lead free vinyl which 20% lighter than "Vinyl Standard".

ONIKO offers products with lead equivalent Pb = 0.25 mm, 0.35 mm or 0.50 mm. Pb 0.25 mm is at the back of the x-ray protection, unless different is specified. The effectiveness of protection was tested in the X-ray tube voltage of 100 kV. We can make products with different lead equivalent upon customer request.

ONIKO can manufacture products according to customer's preferences and requests.

#### The outer cover

Our current line of X-ray protective applies the outer material coating which is a sturdy fabric of the highest quality. The protective clothing with an outer coating meets all hygienic requirements of medical industry. Our material is available in 4 nice modern colors (see color options below).



#### Safety warranty

ONIKO X-rays protection meets all modern requirements and Standards. The products are qualified by European legislation IEC 61331-3 "Protective devices against diagnostic medical X-radiation".

ONIKO products are certified in accordance with the applicable CE standard: EU Directive 89/686/EU (Personal Protective Equipment).

Trademark ONIKO guarantees clearly structured management quality in the development and manufacture of products, which is certified to compliance with standards ISO 9001: 2008

#### How is the right product size chosen?

Customer can choose the size of the X-ray protection means based on measurements of the chest, waist, hips and length.

*Length of the apron* is measured from the mid-point of the shoulder to 10 cm below knees.

*Chest is* the circumference that is measured by wrapping the tape around the torso just below the armpits.

*Waist* is the circumference that is measured by wrapping the tape around the waist.

*Hips* is the circumference that is measured by wrapping the tape around the hips at the most protruding parts of the body.

*Length of the vest* is measured from the midpoint of the shoulder to 10 cm below waist.

*Length of the skirt* is measured from waist to10 cm below knees.

#### **Order information**

To make the order of our products please provide the following information:

- 1. Model code and model name;
- 2. Lead equivalent;
- 3. Size and length;
- 4. Type of vinyl;
- 5. Color;
- 6. Quantity.

#### For example:

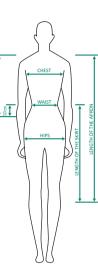
ON-RA202 One-side apron standard  $^{(1)}$  0.35mm  $^{(2)}$  , Medium 100cm  $^{(3)}$  , Lead Vinyl  $^{(4)}$  , Blue  $^{(5)}$  , 2pcs  $^{(6)}$  .

For custom orders, please provide model code, model name and measurements of the chest, waist, hips and length.

#### **Types of Products**

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## X-RAY PROTECTION FOR PERSONNEL

## ONE-SIDE APRON STANDARD

#### **MODEL ON-RA 202**

Model ON-RA 202 is the most popular model of one-side apron.

Classical model is well-established for shortterm routine radiography examinations, provides complete frontal protection.



This model also suited as protective clothing for accompanying personnel.

Wide back panels provide extra protection of upper back and axilla. Due to good weight distribution model is very convenient to use.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

#### Lead equivalent:

0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb

Select the size and length according to tables, depending on the chest and height of the owner.

Chest (cm)	Recommended Size
< 99	Small
100-114	Medium
115-128	Large

Height (cm)	Recommended Length (cm)	
145-155	90	
156-165	100	
166-175	110	
176-185	120	
186-195	130	





## NEW!

## ONE-SIDE APRON WITH SHOULDER STRAPS

#### MODEL ON-RA 214

Model ON-RA 214 is X-ray protective apron that:

- provides complete frontal protection,
- fits properly, is comfortable and easy to put on and take off,
- adjacent to the body and suitable for wearing,
- provides advanced X-ray protection.





The wide straps with Velcro on the back panels ensure individual adjustment, good fit and shoulder comfort, even during long wearing periods.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

#### Lead equivalent:

0.25~mm Pb, 0.35~mm Pb and 0.50~mm Pb.

Select the size and length according to tables, depending on the chest parameters and height of the user.

Height (cm)	Recommended Length (cm)
145-155	90
156-165	100
166-175	110
176-185	120
186-195	130

Chest (cm)	Recommended Size
< 99	Small
100-114	Medium
115-128	Large

# ONE-SIDE SURGICAL APRONS

The construction of the apron permits to take it off from beneaththe surgical aseptic clothes upon finishing the work with scattered radiation. The one-side surgical apron is intended to protect the body's front from the throat up to shank.



## ONE-SIDE SURGICAL APRON, WITH SHOULDER STRAPS

#### MODEL ON-RA 203

Model ON-RA 203 is the most popular model

Adjustable Velcro panels for improved fit.



# ONE-SIDE SURGICAL APRON, WITH BELT

#### **MODEL ON-RA 204**

Model ON-RA 204 this is the most convenient model.

Due to the belt it provides optimum weight distribution. Moreover, the light mesh fabric Straps provides weight reduction and improves good air ventilation of the back.

## ONE-SIDE SURGICAL APRON, WITH VELCRO FASTENER

#### **MODEL ON-RA 205**

Due to the light mesh fabric of the straps it provides weight reduction and improves good air ventilation of the back.





Available materials: Lead Vinyl Standard or Vinyl Lead Free.

#### Lead equivalent:

CE

0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb.



Select the size and length according to tables, depending on the chest parameters and height of the user.

Chest (cm)	Recommended Size
< 99	Small
100-114	Medium
115-128	Large



Height (cm)	Recommended Length (cm)
145-155	90
156-165	100
166-175	110
176-185	120
186-195	130



## **SLEEVELESS COAT**

#### MODEL ON-RA 210



## SHORT-SLEEVED COAT

#### MODEL ON-RA 211









This model (coat) is designed in three variants:

Sleeveless coat, Short sleeved, coat, Coat with removable sleeves



Classical comprehensive protection provides a high degree of protection from radiation as well as comfort and good abutting on the figure.

The coat is intended to protect the body's front part from the throat up to shank, including shoulders and clavicles, and the body's back from scapula including pelvis bones, hips and from the side up to waist. Due to longlasting vertebral column (spine) load it is required to distribute the weight of the apron from shoulders to legs with the help of the belt which is added.



Using coat with other protection means such as protection for the thyroid gland, spectacles, gloves and others you can ensure maximum X-ray protection for personnel.

Removable sleeves are attached to the upper part of the sleeve by means of textile fasteners (Velcro).

All coats are supplied with a belt for aprons (model ON-RA 216).

Lead Vinvl Standard or Vinvl Lead Free.

Available materials:

Lead equivalent: Front: 0.25 mm Pb; 0.35 mm Pb and 0.50 mm Pb. Back: 0.25 mm Pb.

Select the size and length according to tables, depending on the chest parameters and height of the user.

Height (cm)	Recommended Length (cm)
145-155	90
156-165	100
166-175	110
176-185	120
186-195	130

Chest (cm)	Recommended Size
< 99	Small
100-114	Medium
115-128	Large



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## **TWO-SIDE APRON**

#### **MODEL ON-RA 209**

Model On-RA 209 is comfortable to wear for long time and provides complete protection.

Due to Velcro belt at the front, apron provides a snug fit to the body and rotection not only of the front and back, but of the sides as well.



Simple and easy slip on and take off apron. The apron is simply closed with Velcro fasteners at chest and at shoulder.

A cut-out contour provides greater freedom of movement. Of course, the knees are optimally protected from the front.

Two-side apron is supplied with a belt for aprons (model ON-RA 216).

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

#### Lead equivalent:

Front: 0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb; Back: 0.25 mm Pb.

Select the size and length according to the chest parameters and height of the user.

Chest (cm)	Recommended Size	Height (cm)	Recommended Length (cm)
< 99	Small	145-155	90
100-114	Medium	156-165	100
115-128	Large	166-175	110
~ ~		176-185	120
		186-195	130



# PROTECTIVE WAISTCOAT

**MODEL ON-RA 207** 

## PROTECTIVE SKIRT STANDARD

#### **MODEL ON-RA 206**

All around protection that is comfortable to wear through optimum weight distribution with vest and skirt. The skirt takes the weight off the shoulders.

Protective waistcoat and skirt are easy to put on and take off. Fasteners - «Velcro» front on the vest and skirt also provide individual adjustment.

The protective waistcoat is intended to protect the front and the back side of thorax and internal organs of personnel. The protective skirt is intended to protect gonad and hip bones from all sides.



Comfortable design with stickers provides a universal size of the waistcoat. In the place of overlap the lead equivalent doubles.

#### Lead equivalent:

Front: 0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb.

Back: 0.25 mm Pb.

Available materials:

Lead Vinyl Standard or Vinyl Lead Free.



In contrast to the apron the skirt hides the pelvis zone from all sides, thus more efficiently protects genitals from scattered radiation.

#### Lead equivalent:

Front: 0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb.

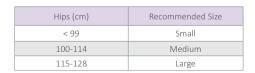
Back: 0.25 mm Pb

Protective skirt ON-RA 206

Select the size and length according to tables, depending on the chest, hips and height of the user.

#### Protective waistcoat ON-RA 207

Chest (cm)	Recommended Size
< 99	Small
100-114	Medium
115-128	Large



Height (cm)	Recommended Length, (cm)
145-170	60
171 >	70





## WAISTCOAT WITH INCREASED FRONT OVERHANG

#### **MODEL ON-RA 208**

The protective waistcoat with increased front overhang is intended to protect the front and the back side of the thorax. This product differs from the basic waist coat with its bigger length and wrap over, covers the upper part of the body from all the sides, protecting your it effectively from the scattered radiation.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

#### Lead equivalent:

Front: 0.35 mm Pb and 0.50 mm Pb. Back: 0.25 mm Pb.

Select the size and length according to tables, depending on the chest and height of the owner.

Hips (cm)	Recommended Size
< 99	Small
100-114	Medium
115-128	Large

Height (cm)	Recommended Length, (cm)
145-170	70
171 >	80



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## **BELT FOR APRONS**

#### **MODEL ON-RA 216**

The belt for aprons is put over the two-sided heavy apron to distribute the part of weight from shoulders to waist.





### **PROTECTIVE SHOE COVERS**

#### MODEL ON-RA 213

Designed for protection of shank and feet. Available materials: Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent:

0.35 mm Pb and 0.50 mm Pb.

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## SHIELD COLLAR LARGE

#### **MODEL ON-RA 201**

Thyroid gland is highly sensitive to radiation and requires special protection. Therefore, clothing with additional relevant protection when working with high-dose radiation has become the norm.

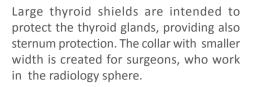


## SHIELD COLLAR SMALL

#### MODEL ON-RP 101

The protective collar (small size) is intended to protect thyroid glands.

The width of collar can be tailored upon customer request.



#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free. Lead equivalent: 0.50 mm Pb.

The product is available in two sizes:

5 14 65	Neck width (cm)	Bib width (cm)	Length (cm)
0 17 CF	5	14	65
8 1/ 65	8	17	65



#### Lead equivalent: 0.50 mm Pb.

The base sizes of the product is in table.

Width (cm)	Length (cm)
8	65
7	65
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## **PROTECTIVE HEADGEAR**

#### **MODEL ON-RA 215**

The protective headgear is intended to protect head. It is created mainly for the personnel as an addition to other products for protection against ionizing radiation. An original design enables to change its size from 46 to 64.

Available materials: Lead Vinyl Standard or Vinyl Lead Free. Lead equivalent: 0.35 mm Pb and 0.50 mm Pb.



# X-RAY PROTECTION FOR PATIENT

## **DENTAL APRON STANDARD**

#### **MODEL ON-RP 103**

The product is designed for patients' protection while standing or sitting for panoramic dental images.



The apron design provides protection of thyroid gland, thorax, upper back and gonad. Moreover, it provides maximum comfort and convenience

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb.

Base size: length 80 cm, wide 60 cm.

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## SHIELD PELERINE FOR PANORAMATIC SHOTS

#### **MODEL ON-RP 107**

The protective pelerine for panoramic shots is used for the X-ray examination of jawdental systems.



Construction of the pelerine provides protection of the front side of the body and also shoulders, shoulder blades and spine, providing a whole examination of dental and jaw line on the X-ray pattern.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.35 mm Pb.

Base size: length 60 cm, wide 50 cm. **C**  $\epsilon_{1024}$ 



# FRONT APRON FOR GONAD SHIELDING STANDARD

#### MODEL ON-RP 111

The front apron is intended to protect genitals from the side of X-ray beam during thorax and digestion internal examination, during mammography and angiography.

The belt with textile fastener ensures easy and quick apron putting on and off and its safe fixation on the waist.



Available materials: Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.50 mm Pb.

Select the size and length of the tables, depending on the parameters: hips and height of the patient.

Hips (cm)	Height (cm)	Width (cm)	Length (cm)
>98	145-170	40	37
99-128	> 170	45	40







+

## **SHIELD PELERINE**

#### MODEL ON-RP 106



The X-ray protective collar (pelerine) is intended to protect the thyroid gland.

It also protects the upper thorax and shoulder during X-ray dental examination.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.35 mm Pb

Base size: length 70 cm, wide 60 cm.

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## MALE GONAD SHIELD

#### **MODEL ON-RP 112**

The gonad protection is intended to protect men's genitals during X-ray examination in the pelvis zone. It covers penis and scrotum.

The Velcro fastener gives stability when correctly adjusted.

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### **FEMALE OVARIAN SHIELD**

#### MODEL ON-RP 113

The ovary protection is intended to protect women genitals during X-ray medical examination in the pelvis zone.

C E 1024

## SHIELD PLATES KIT №1

#### **MODEL ON-RP 114**

Shield plates kit-1 is intended to protect some organs zone (mainly genitals) of the patient.

The set consists of 6 plates of different sizes and forms.

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## SHIELD PLATES KIT Nº2

#### **MODEL ON-RP 115**

Shield plates kit-2 is intended to form the X-ray irradiation field for patient.

The set consist of 4 plates of equal size of  $20 \times 50$  cm.



#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.50 mm Pb, 1.00 mm Pb.

Base size: length 27 cm, wide 34 cm.





The radiation exposure of the female gonads is significantly lowered without hindering the diagnostic techniques

Available materials: Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 1.00 mm Pb

Base size: length 20 cm, wide 9 cm.

Lead equivalent: 0.50 mm Pb The set includes:

- rectangular plate 10 x 40 cm 3 pcs;
- rectangular plate with rounded edges 10 x 40 cm - 1 pc;
- square plate 10 x 10 cm 1 pc;
- circular plate diameter 10 cm 1 pc.





The set is put on the patient, confining the field of interest. At the same time not only the protection of patient from the unused radiation is provided but also the quality of X-ray picture is improved due to the scattered radiation reduction.

The plates are connected using textile fasteners (Velcro).

Lead equivalent: 0.50 mm Pb



# X-RAY PROTECTION FOR CHILDREN

### DENTAL APRON FOR CHILDREN

#### MODEL ON-RP 102

The dental apron is intended to protect teeth and jaw-bone during making an X-ray.

The apron design provides with protection of thyroid gland, thorax, upper back and gonad.

You can choose different variants of the apron.

This dental apron is similar to the model ON-RP 103.

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## SHIELD PELERINE FOR PANORAMIC SHOTS FOR CHILDREN

NEW!

#### MODEL ON-RP 107 FOR CHILDREN



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#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb.



Select the size and length according to tables, depending on the age.

Age	Width B (cm)	Length A (cm)
3-7	40	50
7-11	45	65

The protective pelerine for panoramic shots is used for the X-ray examination of jaw dental systems.

Construction of the pelerine provides protection of the front side of the body and also shoulders, shoulder blades and spine, providing a whole examination of dental and jaw line on the X-ray pattern.

This model is designed for children 5 - 11 years.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.35 mm Pb

Base size: length 35cm, wide 32 cm.

## ONE-SIDE APRON FOR CHILDREN

#### **MODEL ON-RP 104**

The apron is intended to protect the body's front part from throat up to shank (10 cm. below knees)

It is used during head, jaw, dental system and limb examination.

Additional option is a small collar for thyroid protection.



Available materials: Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb.

Select the size and length according to tables, depending on the age.

Age	Width (cm)	Length (cm)
3-7	42	70
7-11	46	75

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## HIP SHIELD FOR CHILDREN

#### **MODEL ON-RP 108**

Hip Shield is designed for gonad protection during X-ray examination of the hips for dysplasia diagnosis of 3 - 10 months age infants.



## PROTECTIVE SKIRT FOR CHILDREN

#### MODEL ON-RP 116

The child protective skirt is intended to protect gonads and hip bones from all sides.

Comfortable design with stickers provides a universal size of skirt. In the place of overlap the lead equivalent doubles.

Advantages: the belt with textile fastener ensures easy and quick putting on and off and its safe fixation on the waist.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.25 mm Pb, 0.35 mm Pb and 0.50 mm Pb.

Select the size and length according to tables, depending on the age.

Age	Width B (cm)	Length A (cm)
3-7	35	40
7-11	40	45

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On the axis of the product there are arrows to adjust the plate to the right position.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.50 mm Pb Size: length 20 cm, wide 20 cm.



## SHIELD PELERINE FOR CHILDREN

#### **MODEL ON-RP 105**

The children pelerine is intended to protect the thyroid gland and the thorax internal organs during making an X-ray examination of teeth and jaw-bone.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

Lead equivalent: 0.35 mm Pb. Base size: length 55 cm, wide 50 cm.

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## FRONT APRON FOR GONAD SHIELDING FOR CHILDREN

#### MODEL ON-RP 110

The front apron is intended to protect genitals from the side of X-ray beam during thorax and digestion internal examination.

Advantages: the belt with textile fastener ensures easy and quick putting on and off and its safe fixation on the waist.

#### Available materials:

Lead Vinyl Standard or Vinyl Lead Free.

#### Lead equivalent: 0.50 mm Pb

Select the size and length according to tables, depending on the age.

Age	Width (cm)	Length (cm)
3-7	25	20
7-11	30	30

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## PROTECTIVE TUNNEL FOR CHILDREN

#### **MODEL ON-RP 109**

The protective tunnel is created for nursling protection.



Protection does not prevent breathing and movement.

Tunnel has cutouts for hands of those who fix baby during X-ray examination.

Lead equivalent: 0.50 mm Pb. Size: length 50 cm, wide 50 cm



## SURGICAL X-RAY PROTECTIVE GLOVES

Sterile protective gloves for the use against scattered X-ray radiation allow better optimisation of the X-ray protective measures for medical personnel.

Lead Equivalent for model ULTRATHIN is min. 0.02 mm Pb



Gloves have been designed keeping in mind the unique needs of surgeons, nurses, and operating room technicians.

#### Model of gloves ULTRATHIN:

Radiation Beam Energy Level (kV)	Skin Dose Reduction (%)
60	41
80	33
100	28
125	21
7-11	40

Attenuation measurement at broad beam according to EN 1331-1 (IEC 61331-1/ASTM-2547-06) Nominal value for lead equivalence is 0.04 mm Pb. Settings for lead equivalence: 80 kV, 0.15 mm Cu filter, narrow beam.

# CE

The gloves are

- Composed of a proprietary mixture of lead-free elements, making them safe for the environment and for users
- Made of flexible, textured material for comfort, grip, and tactile sensitivity
- Hypoallergenic
- 100% sterile and powder free
- Designed for elimination of finger fatigue and ease of wear and removal with a rolled and beaded cuff

Size	Min. length (mm)	Palm width (mm)
6		78
6,5	280	80
7	285	85
7,5		94
8		100
8,5	290	107
9		114

## COLLECTIVE X-RAY PROTECTION FOR MEDICAL RADIOLOGY DEPARTMENTS

## UNDER SCREEN AND LATERAL APRONS

The under screen apron is intended to protect the personnel from the scattered X-ray radiation during radiological examination.



The apron is set on the detachable screen device of the turning table holder of the radiodiagnosis system Lead equivalent Pb=1.0 mm.

## PROTECTIVE SCREENS, CURTAINS, DIVISIONS AND SHUTTERS

The protective screens and curtains are intended to protect personnel in the different purpose X-ray rooms.

There are produced of different overall dimensions by the request of customer. Lead equivalent Pb=0.25, 0.35, 0.5, 1.0 mm.





# ORIKO

## **PROTECTIVE GLASS**

The protective glass – is a plain glass plate for X-ray radiation protection.

It is used in collective protection means (observation window, transfer window). Maximum size is 1400 x 2800 mm. Lead equivalent is Pb=1.6 - 6.4 mm.











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#### Local distributor: