

PromEGA

PRESENTATION OF
OUR CLOTHES AND
ACCESSORIES FOR
PROTECTION FROM
RADIATION

”
Your radiation
protection partner
since 1990
“

 Made in France

Find more information on our website:

www.promega.fr

The only French company manufacturing radiation-protective clothing and accessories since 1990, PROMEGA supplies numerous public and private establishments in the medical, nuclear, military and industrial sectors.

The loyalty of our clients speaks to the lasting quality of our products, with many of our aprons still in use after more than a decade.

Our personal protective equipment is CE certified, and, in line with current regulations, each piece of equipment carries an identification label and explicative notice.



RESPONSIVENESS

Promega promises to reply to you within 48 hours, and, as we manufacture in France, we are able to commit to a lead time of three to four weeks.



KNOW-HOW

Our design office and our manufacturing workshop are at your disposal to discuss and plan your radiation-protection projects. We are constantly improving our products using the latest technology.



FOLLOW-UP

Every PROMEGA product is guaranteed for two years. Our workshop is at your service for any repair even if the item is no longer covered by warranty.

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HOW TO DETERMINE YOUR INDIVIDUAL EQUIPMENT NEEDS:

1

DETERMINE THE PROTECTIVE RANGE:

Range
"S" Light



Range
"U" Ultra-light



Range
"L" No-lead



2

CHOOSE YOUR LEAD EQUIVALENCE:

0.25 MM
0.35 MM
0.50 MM
1 MM

We recommend that you approach your radiation protection expert to determine the most suitable equipment for your workstation.

3

CHOOSE YOUR MODEL:

Choose a model among those compatible with your LE.

4

CHOOSE THE EXTERNAL COATING AND COLOUR:

See page 8.

5

DETERMINE YOUR SIZE:

For more information, refer to pages 5 and 6.

6

COMPLETE YOUR PPE:

Complete your equipment by choosing from the options offered for the model chosen.



Your equipment is finished.

HOW TO CHOOSE YOUR SIZE

Take your measurements

1 - Chest measurement:

Under the arms at the fullest part of the chest.

2 - Waist measurement:

At the narrowest part of the waist.

3 - Hip measurement:

At the fullest part of the hips.

4 - Length from shoulders to knees:

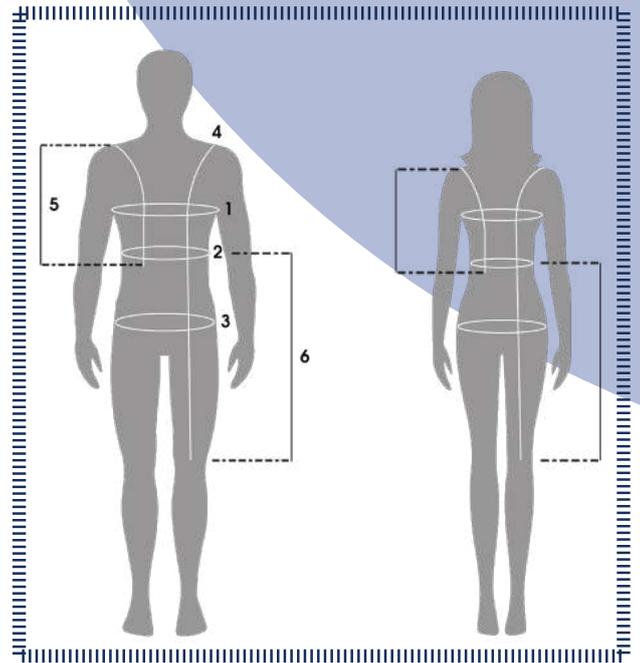
From the middle of the shoulders to the knees following a curve over one side of the chest.

5 - Length from shoulders to waist:

From the middle of the shoulders to the waist (just below the navel).

6 - Length from waist to knees:

From the waist, above the hipbones, to the knees.



Choose your size

Using following tables, choose the size required among the six available (XS to XXL), then check the length. Please contact us for other sizes and if you are not sure.

FULL WRAP LEAD APRONS | FRONTAL LEAD APRONS

Size	XS	S	M	L	XL	XXL
Chest measurement ⁽¹⁾	< 88	< 99	< 109	< 116	< 124	< 132
Waist measurement ⁽²⁾	< 90	< 104	< 113	< 121	< 129	< 136
Hip measurement ⁽³⁾	< 93	< 108	< 117	< 123	< 132	< 139
Clothes length*	95	95	99	105	105	110

VESTS

Size	XS	S	M	L	XL	XXL
Chest measurement ⁽¹⁾	< 88	< 99	< 109	< 116	< 124	< 132
Waist measurement ⁽²⁾	< 90	< 104	< 113	< 121	< 129	< 136
Clothes length*	55	55	59	63	63	67

SKIRTS

Size	XS	S	M	L	XL	XXL
Waist measurement ⁽²⁾	< 70	< 80	< 95	< 104	< 113	< 125
Hip measurement ⁽³⁾	< 86	< 94	< 104	< 115	< 125	< 135
Clothes length*	53	53	55	57	57	60

Important: in order for a piece of clothing to offer the protection for which is has been designed, it is indispensable to choose the correct size for the wearer and take measurements as indicated above or watch our video (available on our website). Contact us to choose the right size or for other details.

*Within manufacturing tolerance

SELECTING THE RIGHT SIZE

Please photocopy this page, note your measurements and then attach it to your order or your request for a quote.

Model:

Size:

Protective range: "S-Light" "U-Ultra-light" "L - No Lead"

LE in mm front / rear: /

Closure type: Velcro® Buckle Zipper (vest I only)

Additional options: Magnetic closure

Coating: PA PVC

Colours:

INFORMATION

Establishment:.....

Department:.....

User:.....

Sex:.....

(1) Chest measurement (cm):

(2) Waist measurement (cm):

(3) Hip measurement (cm):

(4) Length shoulders/knees (cm):

(5) Length shoulder/waist (cm):

(6) Length waist/knees (cm):

OPTIONS AND ACCESSORIES

Outside pocket: YES NO

Embroidery: YES NO

If yes:

Belt: YES NO

Belt: Wide Strap Internal

Non-removable sleeve: YES NO

If yes: Left Right

P-thy kit (option p26): YES NO

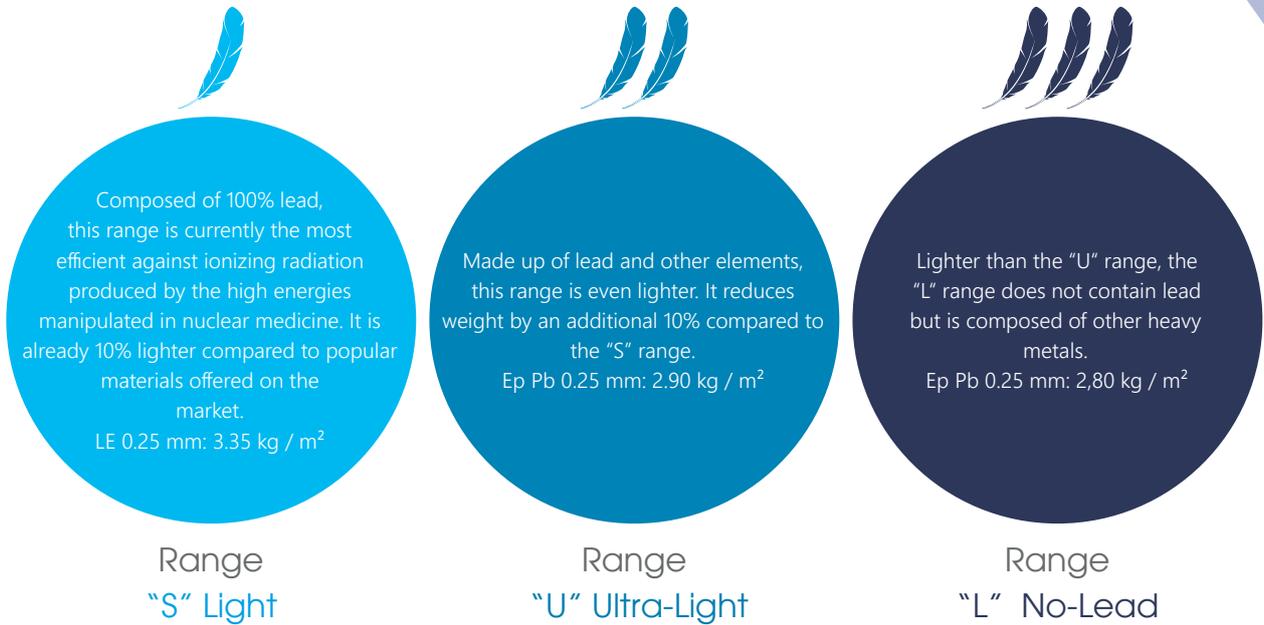
Length: Standard (±) cm

Other:

OUR PROTECTIVE RANGE

PROTECTION AND WEIGHT

Our aprons and accessories are available in three ranges of material:



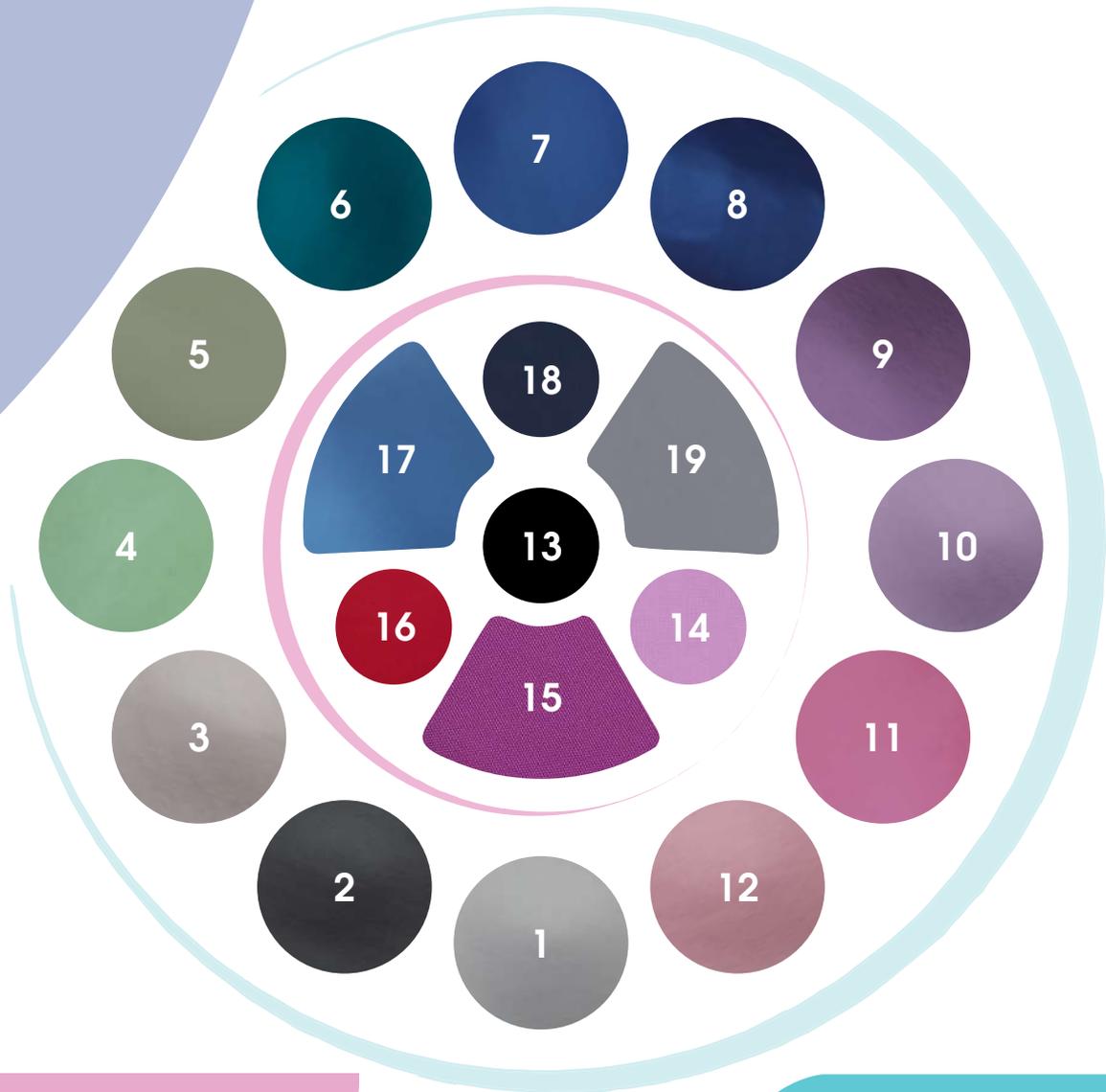
RADIATION ATTENUATION

Our three protective ranges have been tested and certified as BS EN 61331-1: 2014 compliant using modified Broad Beam Geometry (Eder and Schlattl, 2018) by the **NPL**

		 Range S "Light"		 Range U "Ultra-Light"	
		0.35 mm LE	0.50 mm LE	0.35 mm LE	0.50 mm LE
Main beam*	50 kV	99.72 %	99.94 %	X	X
	60 kV	99 %	99.68 %	99.10 %	99.75 %
	70 kV	97.65 %	99 %	98.01 %	99.14 %
	90 kV	93.69 %	96.47 %	94.45 %	96.82 %
	110 kV	90.48 %	94.51 %	90.84 %	94.33 %
	150 kV	85.10 %	91.06 %	X	X

* Distance from x-ray tube to target sample: 1.5 m
Added filtration 2.5 mmAl

COATINGS AND COLOURS



PA

- 13. Black
- 14. Mauve
- 15. Plum
- 16. Red
- 17. Petrol blue
- 18. Night blue
- 19. Grey

PVC

- 1. Grey
- 2. Carbon
- 3. Taupe
- 4. Seafoam green
- 5. Khaki
- 6. Peacock blue
- 7. French blue
- 8. Navy blue
- 9. Purple
- 10. Lilac
- 11. Dark pink
- 12. Antique pink

All our models include a waterproof PA lined interior.

PA (Polyamide) : Internal enduction coated fibers
Recommended in the medical sector for conventional radiology and for nuclear medicine.

PVC : External PVC coated polyester/jersey fibers
Recommended in the medical sector for interventional radiology and for the operating block.



**FULL WRAP
LEAD
APRONS**

FULL WRAP LEAD APRONS



Model 525



Closed coat-style apron made up of two panels which overlap completely in the front.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Internal belt Velcro®
- Magnetic internal belt
- Wide belt
- Strap belt
- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- Full P-thy incorporated
- RFID tag

LEAD EQUIVALENCE

Front:
2 x 0.175 mm Pb
2 x 0.25 mm Pb

Rear:
0.25 mm Pb
0.35 mm Pb

Other thicknesses available upon request

TYPE OF CLOSURE

- ◆ Adjustable strap and quick-fastening buckle
- ◆ Velcro®
- ◆ Magnet (optional)

PROTECTIVE RANGE

- S - Light
- U - Ultra-light
- L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



FULL WRAP LEAD APRONS

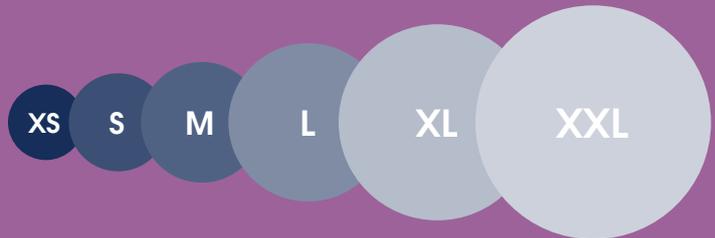
Model 526



The apron has one large panel in the front which attaches below the shoulder to a small inner panel.

The cutout of the interior panel has been designed to prevent the chest from deforming the garment at the risk of exposing the mammary gland through the armhole.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.



Custom-made upon request

OPTIONS

- Internal belt Velcro®
- Magnetic internal belt
- Wide belt
- Strap belt
- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- Full P-thy incorporated
- RFID tag

LEAD EQUIVALENCE

Front:
 0.25 mm Pb
 0.35 mm Pb
 0.50 mm Pb

Rear:
 0.25 mm Pb
 0.35 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

- ◆ Adjustable strap and quick-fastening buckles
- ◆ Velcro®
- ◆ Magnetic (optional)

PROTECTIVE RANGE

- S - Light
- U - Ultra-light
- L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)

FULL WRAP LEAD APRONS



Model 527



Closed apron made up of two panels which overlap by 7 to 8 cm in the front.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Internal belt Velcro®
- Magnetic internal belt
- Wide belt
- Strap belt
- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Logo embroidery
- RFID tag

LEAD EQUIVALENCE

Front:

0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

Rear:

0.25 mm Pb
0.35 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

- ◆ Adjustable strap and quick-fastening buckles
- ◆ Velcro®
- ◆ Magnet (optional)

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



FULL WRAP LEAD APRONS

Belts

Thanks to our belts, the weight of the full wrap lead apron is distributed equally between shoulders and hips. This accessory is ideal for alleviating weight from the back and shoulders comfortably.



Internal belt:

Highly recommended, this belt, located inside the garment, is composed of two elastic bands and is fixed in place using Velcro® or magnets (optional)



Wide belt:

Composed of a broad rigid section in the back (13 cm), and elastic bands on the sides, this belt attaches in front with an adjustable strap and a quick-release buckle. Two small buckles keep the belt attached to the belt loops on the apron.



Narrow strap belt:

Quick-release buckle fixed to an adjustable belt which can be attached to the apron so as not to lose it.

	Size	Length	Apron size
Wide belt	1310F	63-105 cm	XS - M
	1310H1	90-120 cm	L - XL
	1310H2	90-140 cm	XXL
Narrow belt	1300F	105 cm	XS - M
	1300H	145 cm	L - XXL

FULL WRAP LEAD APRONS



Our options:



Outside pocket / Icon embroidery /
Embroidery on Velcro



Magnetic closure



Full P-thy incorporated
(available on full wrap lead
aprons 525 and 526)



Kit to afix P-thy to lead apron



JACKET & SKIRT OUTFITS

JACKET & SKIRT OUTFITS



Model G



The jacket is made up of two panels which overlap completely in the front.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- Full P-thy incorporated
- RFID tag

LEAD EQUIVALENCE

Front:
2 x 0.175 mm Pb
2 x 0.25 mm Pb

Rear:
0.25 mm Pb
0.35 mm Pb

Other thicknesses available upon request

TYPES OF CLOSURE

- ◆ Adjustable straps and quick-fastening buckles
- ◆ Velcro®
- ◆ Magnetic (optional)

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



JACKET & SKIRT OUTFITS

Model H



The jacket has one large panel in the front which attaches below the shoulder to a small inner panel.

The cutout of the interior panel has been designed to prevent the chest from deforming the garment at the risk of exposing the mammary gland through the armhole.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- Full P-thy incorporated
- RFID tag

LEAD EQUIVALENCE

Front:

0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

Rear:

0.25 mm Pb
0.35 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

- ◆ Adjustable strap and quick fastening buckles
- ◆ Velcro®
- ◆ Magnet (optional)

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)

JACKET & SKIRT OUTFITS



Model I



This jacket is made up of two panels which overlap by 7 to 8 cm in the front.

Ideal for use with magnetic or zipper closures.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Logo embroidery
- RFID tag

LEAD EQUIVALENCE

Front:

0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

Rear:

0.25 mm Pb
0.35 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

- ◆ Strap and buckle
- ◆ Velcro®
- ◆ Zip fastener
- ◆ Magnet (optional)

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



JACKET & SKIRT OUTFITS

Model K



This jacket is made up at the front of a panel which is held to the body by two panels which cross at the back and fasten in the front with a quick-fastening buckle attached to straps which form an adjustable belt.

Thanks to the shape of this model, weight is distributed between shoulders and hips, making it feel lighter.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- Full P-thy incorporated
- RFID tag

LEAD EQUIVALENCE

Front:
 0.25 mm Pb
 0.35 mm Pb
 0.50 mm Pb

Rear:
 0.25 mm Pb
 0.35 mm Pb

Other thicknesses upon request

TYPES OF CLOSURE

- ◆ Adjustable strap and quick fastening buckles
- ◆ Velcro®
- ◆ Magnetic (optional)

PROTECTIVE RANGE

- S - Light
- U - Ultra-light
- L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)

Skirts



The skirt is identical for the three models of jackets. It has a trapezoidal shape composed of two front panels.

It closes using Velcro fastening and a quick-fastening buckle.

The type of interior panel may vary according to the lead equivalence chosen.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Internal belt Velcro®
- Magnetic internal belt
- Two-tone apron
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- RFID tag
- Embroidery (3 characters)

LEAD EQUIVALENCE

Front:
Model on the left
0.25 mm Pb

Model on the right
2 x 0.175 mm Pb
2 x 0.25 mm Pb

Rear:
0.25 mm Pb
0.35 mm Pb

Other thicknesses available upon request

TYPE OF CLOSURE

Adjustable strap with quick-fastening buckles AND Velcro

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



**FRONTAL
LEAD
APRONS**

FRONTAL LEAD APRONS



Model VX



This frontal lead apron is made up of a front panel which is held to the body by two straps which cross at the back and fasten in the front with a quick-fastening buckle which forms an adjustable belt.

Optionally, the shoulder straps, with or without wide elastic bands, can be attached to the hips with Velcro.

This "diagonal" fixation helps to distribute the weight of the garment between the shoulders and the hips and contributes to its light feel by providing ease of movement.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Velcro® fastening
- Velcro® fastening with elastic
- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- RFID tag

LEAD EQUIVALENCE

Front:

0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

Other thicknesses available upon request

TYPE OF CLOSURE

Adjustable strap and quick fastening buckles

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



FRONTAL LEAD APRONS

Model VX Initial

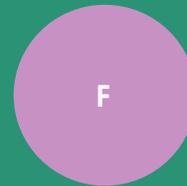


This frontal lead apron is made up at the front of a panel which is held to the body by two straps which cross at the back and attach in front with a quick-fastening buckle and adjustable belt.

This "diagonal" fixation helps to distribute the weight of the garment between the shoulders and the hips and contributes to the light feel of the garment by providing ease of movement.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

Minimum order quantity: 5 of the same size



Men / Women

OPTIONS

- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- RFID tag

LEAD EQUIVALENCE

Front:
0.35 mm Pb
0.50 mm Pb

TYPE OF CLOSURE

Adjustable straps and quick fastening buckles

PROTECTIVE RANGE

S - Light

EXTERNAL COATINGS / COLOURS

(More information p8)



PA NIGHT BLUE



PA MAUVE

FRONTAL LEAD APRONS



Model BLOC



This frontal lead apron is made up of a panel at the front which is held to the body by two straps which cross at the back.

The braces are not stitched under the arms, so that this model, specially designed for surgeons, can be unfastened and removed without touching the sterile gown. Once the fastenings have been undone, the apron slips off by itself.

The shoulders are padded for improved comfort; an inside pocket sewn into the lining has been specially designed to hold your dosimeter.

XS

S

M

L

XL

XXL

Custom-made upon request

OPTIONS

- Two-tone apron
- Outside breast pocket
- Non-removable sleeve
- Embroidery (30 characters)
- Embroidery on Velcro (15 characters)
- Icon embroidery
- RFID tag

LEAD EQUIVALENCE

Front:
0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

Other thicknesses available upon request

TYPE OF CLOSURE

Adjustable straps and quick fastening buckles

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



ANTI-X-RAY ACCESSORIES

P-Thy: Thyroid protection



Cut as one complete piece out of the protective material, its seamless design offers the user full protection.

The cap shape allows for improved comfort and ease of use.

Size code and dimensions	Bib (cm)		Collar (cm)	
	Height	Width	Length	Height
P-thy N = Standard	13.5	18.5	53	5
V = Long	17.5	18.5	53	5
U = Large	15	23	68	6

One size dimension	Bib (cm)		Collar (cm)	
	Height	Width	Length	Height.
P-thy cap	19	22	55	8

OPTIONS

- Embroidery text (30 characters)
- Embroidery initials (3 characters)
- Logo embroidery
- RFID tag
- Kit to affix the P-thy to apron
- Protective sleeve for P-THY

LEAD EQUIVALENCE

0.35 mm Pb
0.50 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

- ◆ Strap and buckles
- ◆ Velcro®
- ◆ Magnetic closure

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(More information p8)



ANTI-X-RAY ACCESSORIES

Bolero



PROTECTIVE RANGE

- S - Light
- U - Ultra-light
- L - No-Lead

LEAD EQUIVALENCE

- 0.25 mm Pb
- 0.35 mm Pb
- 0.50 mm Pb

This equipment has been designed to replace sewn or removable sleeves (1 or 2).

It ensures better comfort. The bolero can be removed in order to use the sleeveless equipment to reduce its weight and can be used by several people.

OPTIONS

- Text embroidery
- Initial embroidery
- Icon embroidery
- RFID tag

TYPE OF CLOSURE

- Velcro® strap
- Elastic backing

Sleeves



PROTECTIVE RANGE

- S - Light
- U - Ultra-light
- L - No-Lead

LEAD EQUIVALENCE

- 0.25 mm Pb
- 0.35 mm Pb
- 0.50 mm Pb



Additional sleeves for approved aprons to protect armpits from the diagonal ionising rays the user may be exposed to.

Removable sleeves: These sleeves are adaptable to all types of leaded protective garments, being placed over the arm before putting on the apron. A Velcro fastening at the neck completes the adjustment. This model, being reversible, is suitable for both left and right arms.

Non-removable sleeves: Right or left sleeve attached at time of production to our aprons. Coating and size are consistent with that of the apron.

Long sleeves: Available upon request.

EXTERNAL COATINGS / COLOURS

(More information p8)



RISKS OF BRAIN TUMORS

85% of brain tumors observed in a group of interventional cardiologists were located in the left hemisphere of the brain, the side most often exposed to radiation.

The left side of the head is twice as exposed as the right (the radiation source being on the left, opposite the right side of the patient).

Cap

Head protection with a peripheral tightening cord for an adjusted fit.



PROTECTIVE RANGE

S - Light
U - Ultra-light

LEAD EQUIVALENCE

0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

Size

H

F

Head measurement

≥ 56 cm

< 56 cm

EXTERNAL COATINGS / COLOURS

(PA only, more information p8)



PA



ANTI-X-RAY ACCESSORIES

Lead mittens: Mou-C model



Thumb is independant from fingers.
A tightening cord with Velcro® at the wrist allows the user to easily locate the upper side of the mitten.

Size	Dimensions (cm)	
	Length	Width
H	42	13
F	40	13

Lead mittens: Mou-P model



The upper side of the mitten is a racket shaped panel. The underside of the mitten allows for free movement of the fingers to hold a child's limb for example.

The thumb of the four fingers can be freed through two slits and still be protected by the upper side.

A Velcro® strap at the wrist holds the mitten in place leaving the hand free.

Size	Dimensions (cm)	
	Length	Width
H	40	19,5
F	38	17

LEAD EQUIVALENCE

Topside:

0.35 mm Pb
0.50 mm Pb

Underside:

0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

PROTECTIVE RANGE

S - Light
L - No-Lead

EXTERNAL COATINGS / COLOURS

(PA only, more information p8)



PA



Veterinary mitten



This mitten, specially created for the veterinary world, features a racket-shaped top panel. The bottom panel allows the hand to be fully extended so that the fingers can be used to hold a limb.

A Velcro® strap at the wrist holds the mitten in place leaving the hand free.

Size	Dimensions (cm)	
	Length	Width
H	40	19,5
F	38	17

LEAD EQUIVALENCE

Topside:

0.25 mm Pb
0.50 mm Pb

Underside:

0.25 mm Pb
0.50 mm Pb

PROTECTIVE RANGE

L - No-Lead

EXTERNAL COATINGS / COLOURS

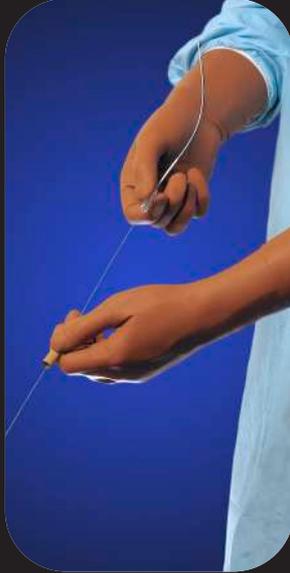
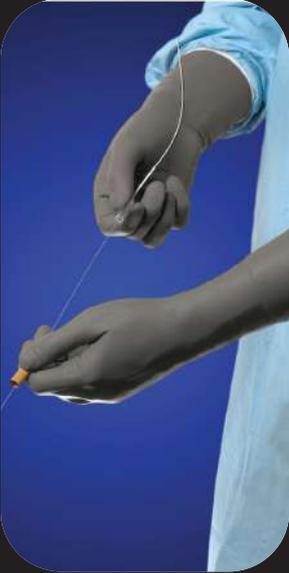
(PA only, more information p8)



PA

ANTI-X-RAY ACCESSORIES

Surgical radiation protection gloves



Caution: These gloves are not designed for direct or primary x-ray beams. The aim of these gloves is to protect the hands from scattered secondary radiation exposure originating from the x-ray beam during fluoroscopic procedures.

These gloves are sold in packs of 3 or 5 pairs of identical size.

Two glove ranges are available:

- Freeguard®, lead-free and latex-free, available in two thicknesses
- Xguard®, made of lead and latex, available in three thicknesses.

DESCRIPTION

Waterproof and sterile multi-layer gloves.

Hypoallergenic gloves with the advantage of being protein-free. The multi-layer construction eliminates the risk of micro-holes.

Available from sizes 6.0 to 9.0

Attenuation

60 kV
90 kV
120 kV

RR1

50 %
40 %
32 %

RR2

57 %
50 %
38 %

RR3

75 %
62 %
54 %

Thickness (mm)

0.22	0.30	0.60
------	------	------

Attenuation

60 kV
90 kV
120 kV

MODEL 1

55 %
44 %
37 %

MODEL 2

62 %
50 %
43 %

Thickness (mm)

0.22	0.30
------	------

ANTI-X-RAY ACCESSORIES



BRIEFS



This protection was entirely designed and engineered for the nuclear sector to meet their mobility needs. These briefs fit under their overalls and perfectly protect the reproductive organs regardless of the wearer's position.

Size	Equivalence
Standard	S to XL
Large size	2XL to 4 XL

OPTIONS

- Embroidered text (30 characters)
- Icon embroidery
- Embroidered initials (3 characters)
- RFID tag

LEAD EQUIVALENCE

Front/Rear:

0.50 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

Strap and buckle

PROTECTIVE RANGE

S - Light

Other thicknesses upon request

EXTERNAL COATINGS / COLOURS

(more information p8)



PATIENT PROTECTION



Dental cape



Aprons specially designed for the protection of patients during dental radiological exams.

Child: 45x70 cm

Adult: 60x90 cm

Size

Child

Adult

OPTIONS

- Embroidered text (30 characters)
- Embroidered text (15 characters) on Velcro
- Icon embroidery
- RFID tag

LEAD EQUIVALENCE

0.25 mm Pb
0.50 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

Fastens from behind with Velcro®

PROTECTIVE RANGE

L - No-Lead

EXTERNAL COATINGS / COLOURS

(PA only, more information p8)



PA



PATIENT PROTECTION

Frontal lead half apron



A frontal lead half apron designed for the protection of the reproductive organs of child and adult patients.

It also protects pregnant or potentially pregnant women.

The shield is kept in place over the ventral area by a fully adjustable Velcro strap.

	Height x Width
Large size	45 x 60 cm
Adult	40 x 48 cm
Child	30 x 37 cm
Infant	20 x 25 cm

OPTIONS

- Embroidered text (30 characters)
- Embroidered text (15 characters) on Velcro®
- Icon embroidery
- RFID tag

LEAD EQUIVALENCE

0.50 mm Pb
1 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

Narrow strap equipped with Velcro®

PROTECTIVE RANGE

S - Light
U - Ultra-light

EXTERNAL COATINGS / COLOURS

(Double sided PVC, more information p8)



PVC



Gonad shields



Its triangular form, adapted to both the male and female body shape, is slightly rounded to enable correct positioning between the thighs and the pubis.

The shield is held in place on the patient by a narrow strap equipped with a quick release buckle for the "adult" and "teenage" sizes, and by a radio-transparent ribbon for other sizes.

	Height (cm)	Width (cm)
Adult	26.5	25
Teenager	20	22
9/11 years	14	16
6/8 years	10.5	12
3/5 years	9	10.5
Infant 1 year	7.5	8.5
Newborn	5.5	6.5

OPTION

- Embroidered initials
- RFID tag

LEAD EQUIVALENCE

1 mm Pb

PROTECTIVE RANGE

S - Light

EXTERNAL COATINGS / COLOURS

(Double sided PVC, more information p8)





Lead blanket



Rectangular blanket for patients destined for use in incubators, post-op recovery rooms, scanners, etc...

LEAD EQUIVALENCE

0.50 mm Pb
Other thicknesses upon request

PROTECTIVE RANGE

S - Light
L - No-Lead

OPTIONS

- Eyelets, Velcro® or straps
- Embroidery
- RFID tag

DIMENSIONS

Available in the following dimensions:

40x50 cm / 50x70 cm / 60x100 cm / 90x100 cm / 100x150 cm

Breast protector

Adjustable spacing. Held in place with radio-transparent ribbon. Ø = 15 cm



OPTIONS

- RFID tag

LEAD EQUIVALENCE

0.50 mm Pb

PROTECTIVE RANGE

L - No-Lead

EXTERNAL COATINGS / COLOURS

(Double sided PVC, more information p8)



PVC



Poncho



An alternative to the dental cape, the poncho protects from the neck to the chest.

The collar protects the patient's thyroid.

Size

One size

OPTIONS

- Embroidered text (30 characters)
- Icon embroidery
- RFID tag

LEAD EQUIVALENCE

0.25 mm Pb
0.35 mm Pb
0.50 mm Pb

Other thicknesses upon request

TYPE OF CLOSURE

Fastens from behind with Velcro[®]

PROTECTIVE RANGE

S - Light
U - Ultra-light
L - No-lead

EXTERNAL COATINGS / COLOURS

(more information p8)



CHILDREN'S PROTECTION



CHILDREN'S APRON



All our aprons can be made in children's and adolescent sizes (from 4 to 16 years of age)

Ready to wear models available are:

- Chasuble 526 in size 6/9 years and 10/14 years
- VX half-chasuble in sizes 4/5 years, 6/9 years and 10/14 years.

We are able to consider any request concerning equipment to be custom made in children's and adolescent sizes.

SIZE

From 4 to 16 years

TYPE OF CLOSURE

Strap and buckle

OPTIONS

- Embroidered text
- Icon embroidery
- RFID tag

LEAD EQUIVALENCE

Front or Front/Rear from 0.25 to 1 mm LE.

May vary depending on equipment chosen.

PROTECTIVE RANGE

- S - Light
- U - Ultra-light

EXTERNAL COATINGS / COLOURS

(More information p8)

Thyroid protection

Range	LE in mm	Sizes	Closure	Option
S / U	0.50 mm	Infant Child	Velcro®	Icon embroidery



**EYE
PROTECTION**

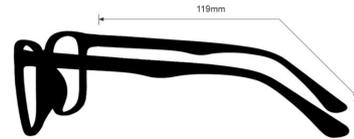
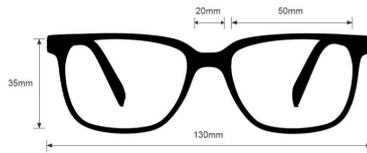
EYE PROTECTION

All our glasses provide front and side protection and are delivered with a cleaning cloth, a tightening cord and a storage case.

Our SCHOTT SF-6 (2.8 mm) lead eye pieces are optical 1 quality (the best on the market with transmission of 85% of the visible light). The equivalent protection is 0.75 mm lead for x-ray tension of between 65 KV and 300 KV. Tests carried out in the only laboratory approved in Finland by SGS.

These glasses have a wraparound style and lightweight design with removable leaded side shields. The rubber-covered temples provide a secure grip and the saddle bridge nose pad allows for a comfortable fit. This model exists in 3 dimensions.

Q100



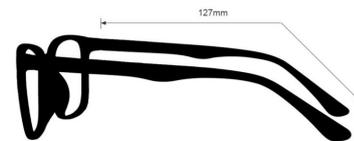
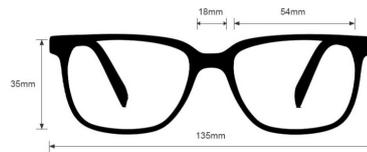
69 g

Shiny black

Front: 0.75 mm LE
Side: 0.50 mm LE

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single, lined bifocal or progressive

Q200



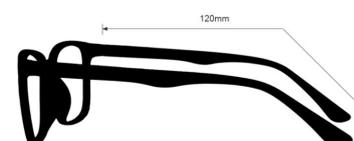
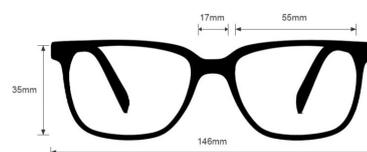
74 g

Purple

Front: 0.75 mm LE
Side: 0.50 mm LE

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single, lined bifocal or progressive

Q300



75 g

Matte Black

Front: 0.75 mm LE
Side: 0.50 mm LE

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single, lined bifocal or progressive

FX 75 / FX 77



90 g / 114 g

Matte black

Front: 0.75 mm LE
Side: 0.50 mm LE

Options:
LENS COATINGS: antifog, antireflective.

With these large glasses (4,64 cm² eye pieces) the wearer can keep his corrective spectacles.

2 sizes

F8483



71 g

Shiny black

Eq Pb Frontal 0,75

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single.

Concave in shape, these modern and sporty frames allow ideal envelopment and protection.

F1388



75 g

Grey

Eq Pb Frontal 0,75
Eq Pb Latéral 0,50

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single.

Made of high-quality plastic, it is a durable and lightweight rectangular, wrap round frame.

The 1388 radiation glasses feature rubberized nose pads and rubberized temple bars.

F15011



88 g

Navy blue

Front: 0.75 mm LE
Side: 0.50 mm LE

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single.

The F15011 offers a hipster-style rectangular safety frame with permanent side shields.

The sleek blue plastic frame with clear plastic interior has adjustable nose pads that allow for added comfort and a secure fit.

OSLO



76 g

Shiny black

Front: 0.75 mm LE

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single.

Concave in shape, these sporty and modern frames offer ideal envelopment and protection.

The OSLO is particularly suitable for thin faces.

On the other hand, the BERLIN will suit wider faces more easily.

BERLIN



76 g

Matt black

Front: 0.75 mm LE

Options:
LENS COATINGS: antifog, antireflective.
LENS TYPE: single.

EYE PROTECTION

With its lead impregnated acrylic visor offering protection from ionising radiation and its adjustable headpiece, these visors can be worn over prescription spectacles.

Can be cleaned with a soft cloth. Abrasive materials can scratch the visor. Not suitable for high temperature or high-pressure sterilisation.

Our visors are delivered with a protective soft case.

PANORAMA VISOR ES80



Front and side eye protection.
Acrylic visor.
Dual adjustable headpiece for improved comfort.
Visor can be positioned at any angle.

REFERENCE

FES8010

PROTECTION

0.1mm Pb

WEIGHT

437g

Total protection mask ES81



Total face protection.
Acrylic visor.
Dual adjustable headpiece for improved comfort.
Visor can be positioned at any angle.

REFERENCE

FES8110

PROTECTION

0.1mm Pb

WEIGHT

459g

LEAD EQUIVALENCE

0.10 mm Pb

OPTION

Hygiene Kit Ref. 130N/2



COLLECTIVE PROTECTIVE EQUIPEMENT

Our flexible, table mounted, lower body shields are made up of one piece of protective curtain or overlapping panels which are suitable for high radiation levels or when using mobile C-arm equipment. Waterproof PVC coating allows for easy cleaning.

Our standard protection is 0.50 mm LE and a height of 70 cm, however, we can provide any other configuration. These shields can be equipped with an optional RFID tag.

Bavolet BV2



This table shield is particularly recommended in vascular departments.

It features an articulated arm with new anodized aluminium lightweight construction, single or double pivots (folds in the shape of an L or a Z).

This shield is reversible and attaches easily to the right or left of the table using a rail 25 x 10 mm.

PROTECTIVE RANGE

S - Light

LEAD EQUIVALENCE

0.50 mm Pb

EXTERNAL COATING

PVC*

*colour of PVC coating may vary based on availability

DESCRIPTION

W x H (cm)

CURTAIN / PANEL

BV2S505P

Single pivot

50 x 70

1 curtain

BV2S505L

Single pivot

50 x 70

4 panels

BV2S517P

Single pivot

75 x 70

1 curtain

BV2S517L

Single pivot

75 x 70

5 panels

BV2S507P

Double pivot

75 x 70

1 curtain

BV2S507L

Double pivot

75 x 70

5 panels

BV2S509P2

Double pivot

100 x 70

1 curtain + 1 panel

BV2S509P1

Double pivot

100 x 70

1 curtain

BV2S509L

Double pivot

100 x 70

7 panels

BH7S505

Removable hard top shield

50 x 25

1 curtain

These three models of flexible table mounted lower body shields are made up of two 17 cm slats for a finished width of 30 cm.
The length is 70 cm.

BV3 model



The basic elements are attached facing each other on each side of the table with Velcro straps under the mattress providing double protection.

The rails of the patient bed are left free for accessories. This type of item must be purchased in pairs.

REF. BV3S503

RANGE

S - Light

LE

0.50 mm Pb

COATING

PVC*

*colour of PVC coating may vary based on availability

BV4 model



Fixed in place by straps around the table top with quick-release buckles.

REF. BV4S503

RANGE

S - Light

LE

0.50 mm Pb

COATING

PVC*

*colour of PVC coating may vary based on availability

BV5 model



Each basic element is attached to the rails of the table by medical grade stainless steel hooks.

REF. BV5S503

RANGE

S - Light

LE

0.50 mm Pb

COATING

PVC*

*colour of PVC coating may vary based on availability

BV tablecloth



Table mounted lead panels that shield the lower body placed by draping a radiotransparent, waterproof fabric over the table. (The table covering can be adapted to the width of your table from 50 to 80 cm, please specify when ordering.)



The curtains can be attached together using Velcro® to obtain the desired size.

The side panels of 40 or 50 cm are composed of strips. Height: 70 cm.

OPTION

End of table protective panels (Sewn or attached with Velcro®)

RANGE

S - Light

LE

0.5 mm Pb

COATING

PVC*

*colour of PVC coating may vary based on availability

BVL model 40cm

BVL model 50cm

Optional end of table protective panel

Optional end of table protective panel with Velcro

BVLS5004

BVLS5005

PBVS50C

PBVS50S



Mobile x-ray protective screen



Mobile x-ray protective screen classed as collective protection equipment.

This mobile screen is ideal for the protection of personnel outside the operating theatre or to protect one bed when taking x-rays in a double room.

Ideal in recovery rooms.

Grey painted base and posts. Chrome top bar and runners.

Two telescopic side bars which extend the screen from 160 to 200 cm by adding one or two extra curtains of 50 cm (overlapping by 10 cm).

Quick assembly without tools.

TECHNICAL DESCRIPTION

Dimensions L x P x H: 150 x 50 x 118 cm
 Folding rack, matte black
 Adjustable height: from 118 to 190 cm
 Adjustable width: 2 bars 35 cm
 Maximum capacity: 80 kg
 Four swivel wheels Ø 75 mm, two with brakes

PROTECTIVE RANGE

LE

S - Light

0.5 mm Pb

Curtain width 120 cm

Extension width 50 cm

Height

Reference

Weight

Reference

Weight

125 cm

PMS501212H

18 kg

PMS500312H

5,60 kg

160 cm

PMS501216H

21 kg

PMS500316H

6,40 kg

EXTERNAL COATINGS / COLOURS

(More information p8)

X-RAY PROTECTIVE CURTAIN



We manufacture curtains in all dimensions (maximum width 120 cm). Approximate weight 6.6kg/m² in 0.50 mm Lead.

(Track and hooks not included)

PROTECTIVE RANGE

S - Light

LEAD EQUIVALENCE

0.25 to 1 mm Pb

OPTION

10 mm eyelets for easy hanging

EXTERNAL COATINGS / COLOURS

(More information p8)



“BASIC” rigid mobile screen



Mobile leaded screen, LE 1mm, 1.5mm or 2mm. White laminated lead core panel with finishing trim around the edges.

Available with or without window (30 x 40cm). Dimensions in cm*:

H 200 x L 80
H 200 x L 100
H 200 x L 120

Includes:

- screen support with four swivel wheels, two with brakes
- two handles for easy mobility

*Other dimensions upon request.

	mm Pb	80 x 200	100 x 200
Without window	1	BA10208	BA102010
	1.5	BA15208	BA152010
	2	BA20208	BA202010
With window	1	BAV10208	BAV102010
	1.5	BAV15208	BAV152010
	2	BAV20208	BAV202010

“LUXE” rigid mobile screen



Mobile leaded screen, lead equivalence 1mm, 1.5mm or 2mm.

Equipped with panoramic full width x-ray protective window.

White laminated lead core panel with finishing trim.

Dimensions in cm*:

- H 200 x L 80 – 80 x 70 window
- H 200 x L 100 – 80 x 90 window
- H 200 x L 120 – 80 x 110 window

Includes:

- leaded window
- screen support with 4 swivel wheels, 2 with brakes
- two handles for easy mobility

*Other dimensions upon request.

Dimensions in cm

mm Pb	80 x 200 Window 70 x 80	100 x 200 Window 90 x 80	120 x 200 Window 110 x 80
1	LUV10208	LUV102010	LUV102012
1.5	LUV15208	LUV152010	LUV152012
2	LUV20208	LUV202010	LUV202012



APRON STORAGE

Wall mounted rack



Rack ideal for hanging not only full-wrap and frontal lead aprons, but also jackets and skirts.

- Maximum capacity 5 aprons.
- Base 34 cm x 12 cm
- Arms Ø 14 mm,
- Length 60 cm, arms can swivel to the right or to the left.

Stainless steel

With 2 arms	F57X2
With 3 arms	F57X3
With 4 arms	F57X4
With 5 arms	F57X5
Additional arm	F57X0
Optional skirt arm	J57X0

Mobile rack



Rack ideal for hanging not only full-wrap and frontal lead aprons, but also jackets and skirts.

- Maximum capacity 10 aprons.
- 4 swivel wheels with brakes.
- Frame structure thickness 35 x 35 mm
- Height: 140 cm
- Width front / back: 55/76 cm
- Depth at foot level: 60 cm
- Arms Ø 14 mm (identical to the wall rack).

Equipped with 5 or 10 arms (additional arms can be purchased separately)

Delivered disassembled, quick and easy assembly.

Stainless steel



With 5 arms	F22X05
With 10 arms	F22X10
Additional arm	F57X0
Optional skirt arm	J57X0



APRON STORAGE

Valet rack



Very sturdy rack with rigid structure.

- Frame structure thickness 35 x 35 mm.
- Capacity: 8 to 12 aprons
- 4 wheels which swivel 360° with brakes.
- Supports max weight of 200 kg
- Height: 155 cm
- Hanging bar: 145 cm
- Width: 83 cm
- Depth: 62 cm

Delivered without hangers and disassembled (easy and quick assembly).

Stainless steel

F20X2

Hangers



1. Stainless steel hangers.

Non-swivelling hook.

Ø 12 mm. Length 58 cm. Non-slip upward-turning ends (or with sloped ends for aprons with sleeves).

2. Polypropylene hangers.

Non-swivelling hook.

Black hanger with very sturdy upward-turning ends, can support up to 45 kg in weight. (Maximum size of clothes supported: M)

Hangers sold individually.

Stainless steel

Polypropylene

with upward-turning ends

F30X1

F3101

without upward-turning ends

F30X2

-

Wall hooks

Wall hook in stainless steel
Capacity: 1 frontal lead apron or 2 skirts.

Stainless steel

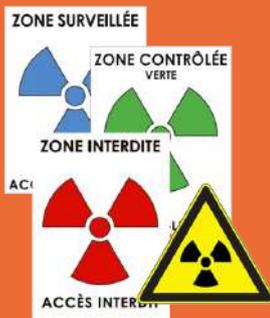
F51X1



Trefoil symbols

Thin laminated stickers (thickness 0.1 mm) suitable for any smooth nonporous surface, or in rigid PVC (2 mm). Fixed with double-sided sticky tape.

*ONLY FOR FRENCH-SPEAKING COUNTRIES



	Reference	Self-adhesive	Rigid
*Zone surveillée bleue	8,5 x 12 cm 13 x 18 cm	F42012 F42018	F42218
*Zone surveillée bleue intermittente	8,5 x 12 cm 13 x 18 cm	F40012 F40018	F40218
*Zone contrôlée verte	8,5 x 12 cm 13 x 18 cm	F41012 F41018	F41218
*Zone contrôlée verte intermittente	8,5 x 12 cm 13 x 18 cm	F47012 F47018	F47218
*Zone contrôlée jaune	8,5 x 12 cm 13 x 18 cm	F45012 F45018	F45218
*Zone contrôlée jaune intermittente	8,5 x 12 cm 13 x 18 cm	F46012 F46018	F46218
*Zone contrôlée orange	8,5 x 12 cm 13 x 18 cm	F44012 F44018	F44218
*Zone contrôlée orange intermittente	8,5 x 12 cm 13 x 18 cm	F48012 F48018	F48218
*Zone rouge Accès interdit	8,5 x 12 cm 13 x 18 cm	F49012 F49018	F49218
Yellow triangle with black trefoil	1,5 cm 5 cm 10 cm	F431570 ⁽¹⁾ F43005 ⁽²⁾ F43010 ⁽³⁾	-

(1) Sold in sheets of 70 pre-cut stickers

(2) Sold individually or in sets of 10

(3) Sold individually or in sets of 5

BIOTRACE

What is BIOTRACE ?

BIOTRACE is the simple solution for inventory management and conformity audits for all your radio protective equipment. It offers vital assistance in complying with decree n° 201-DC-0175 of May 21 2010.

SIMPLE TO USE:

- You simply need a PC, a smartphone or a tablet equipped with a USB port or Bluetooth and Internet access.
- BIOTRACE can be accessed using your browser as no software installation is required.

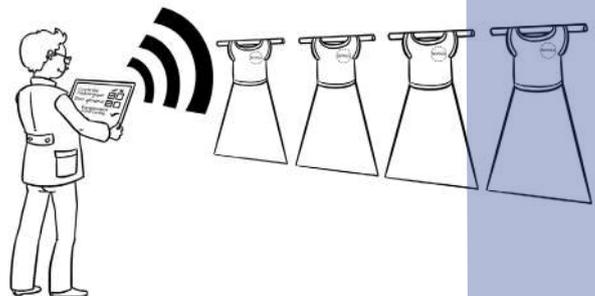
With BIOTRACE you have an overview of all your equipment, you can access and update your inventory sheet by simply reading the RFID tag with its unique identity number.



Divide the time spent checking your equipment in half

With BIOTRACE you can:

- Manage all your equipment
- Verify conformity
- Locate your equipment
- Generate reports automatically
- Optimise the workload and delegate tracking to other departments



“SAVE TIME, SAVE MONEY AND RELY ON YOUR CONFORMITY”

GENERAL INFORMATION

Regulations

All our radioprotective equipment is manufactured in our French workshop in accordance with the following legislation:

- IEC 61331-1: protective materials.
- IEC 61331-3: requirements of performance applicable to X-ray protective equipment.
- Règlement (UE) 2016/425: general requirements concerning protective clothing.

We are manufacturers

We are able to supply:

- Clothing made-to-measure, with larger or smaller dimensions than standard sizes.
- Products specially made for your unique needs (you can send us a sketch with your prerequisites and we will send you a quotation). We can provide one or more prototypes.

The quality of our products

The radioprotective material is composed of heavy chemical elements mixed with a PVC medium before polymerisation. This process guarantees perfect radiation protection that is 100% reliable.

Protecting coverage reaches down to the knees.

With our frontal lead aprons, the shoulder blades are protected up to 15cm behind the shoulders.

Our full-wrap lead aprons and jacket and skirt outfits provide a protection of 0.25, 0.35 or 0.50mm Lead equivalent in the front and 0.25 or 0.35 mm Lead equivalent at the back (or higher if required).

The assembly of leaded material, external coating and lining uses seams at the neck, the shoulders and on the sides for our aprons and outfits, or on the edges for our accessories.

The pockets and embroidery are done before assembling interior and exterior coatings.

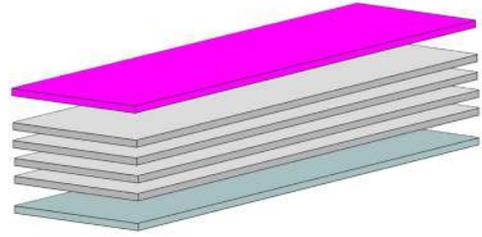
Using this process, there are no stitched holes which allow radiation to pass through to parts of the body

which need to be shielded. This process guarantees total protection.

Traceability

All our products are labelled with a serial number which identifies the manufacture date, the characteristics and precise performances of the radioprotective material. We always keep a sample of each batch.

Flexibility: one layer of radioprotective materials ensures a lead equivalent protection of 0.25mm or 0.35mm. Therefore we use several layers to reach the required protection level. With this process we obtain maximum flexibility similar to fabric.



Cleaning, disinfection and decontamination

(Instructions are attached to each item of our protective clothing)

Our radioprotective clothes can be cleaned with a sponge and cold or lukewarm water, or with a slightly diluted household cleaning agent.

Do not wash our garments in a washing machine, even without spinning; the radioprotective material will harden over time leading to breaks or cracks.

For disinfection, use a spray or a sponge with regular antiseptic. Do not immerse totally in disinfectant as the different layers will take too long to dry!

A cleaning protocol in partnership with SANIVAP is currently in place and is detailed in our instructions.

Warranty – Our after sales service charter

All the products manufactured in our workshops are covered by a 2-year warranty.

This warranty applies to the assembly and seams of all our materials as well as our buckles used and maintained in accordance with the attached instructions.

The warranty covers neither snags or tears to the various materials (leaded protection, coatings or linings) nor soiling and normal wear and tear of the Velcro.

Any repairs are to be carried out in our workshops.

Repairs not covered by the warranty are carried out after a quotation in accordance with clearly defined pricing.

Complete protection checks must be carried out beforehand by yourselves or by an appointed organisation.

We can renew the internal and external linings of your old aprons if the radioprotective materials of the garment are undamaged. However, this process results in the the garment being reduced by approximately one size.

Delivery times

Our geographical location means that as soon as all order details have been received (size, coating and colour, type of fastening and options) we have a very short lead time.

Respect for the environment



Don't just throw your old aprons anywhere! We can dispose of your old equipment via our production chain for a modest fee.

Our sellers partners by country:

IMA·X

Benelux: IMA-X
+352 95 75 52
info@ima-x.com

MARCELBLANC

Suisse: MARCEL BLANC
+41 21 654 30 80
info@marcel-blanc.ch

RFT
SERVICES

Espagne: RFT services
+34 916 505 859
rfernandez@rftservices.es

