

SHIELDING INC. ***INTERNATIONAL***



APRON & ACCESSORY INFORMATION & USAGE GUIDELINES

**Frontal Aprons, Vest Skirts, Wrap Around,
Dental, Pediatric, Accessory**

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www.shieldingintl.com



SHIELDING^{INC} INTERNATIONAL

Apron and Accessory Care and Guidelines

Congratulations on your choice of SHIELDING'S x-ray protective garment, the most comfortable, durable and reliable product in the market since 1958. The following guidelines and tips will help maintain your garment's safe performance as well as keep your garment looking good for many years to come. We suggest that you take a look at the following information and care instructions:

Labeling / Marking

SHIELDING INTERNATIONAL INC. aprons and accessories have a label inside the garment. The label will contain the manufacturer's contact information, part #, lot # (date of Mfg.), and protection. Part # will indicate size where applicable.

Example Part Number: Standard Coat Apron: ST-M-R-RL (ST= model #, M = Size, R = Length, RL = type of protection)
Wrap Apron: WA-SF-R-RL (WA- model #, SF= size, R= length, RL= type of protection)

Protection Options



This symbol means: protection against ionizing radiation.

The letter "i" shows that the user must take notice of the instructions written in the user guide and also on the apron.

PROTECTION	kVp	0.25mm Pb	0.3mm Pb	0.35mm Pb	0.5mm Pb
RL-Reg Lead	50kVp-150kVp	X	X	X	X
**TL- TL Lite Ply	50kVp- 110kVp	X	NA	X	X
**LF – Strata 300	50kVp- 110kVp	X	NA	X	X
<i>Materials tested according to the BBG method under IEC 61331-1-2014. . (+/- 7%)</i>					
<i>**TL-TL Lite Ply and LF-Strata 300 NOT intended for use where exposure exceeds 125kV</i>					

Front Protection	MODEL NUMBERS **
Available Models	Apron: AF, AFQR, BR, E, FB, FW, SDA, SDO, SQR, ST, SV, TQW, VA, VAQR ** All models available as CUSTOM (ex. ST CUSTOM)
** All models available as CUSTOM (ex. ST CUSTOM, 801 CUSTOM)	Specialty Apron: SM, SMHB Accessory: Collars: 600, 611NS, 621U, 631QR, 641CF Gonad Aprons: 801, 802, 803, 804, 830 Ovarian Shields: 806, 807
	Dental: 300, 300C, 300KK, 300KKC, 300PP, 300PPC, 300FP, 301..
	Pediatric: P-ST, P-HA, P-TC-S, P-SS
Recommended Use / limitations	Provide personal protection against X-ray scattered radiation. Designed for FRONT Protection to protect the main part of the body against limited exposure during x-ray procedures. Not for use in direct beam.
Closed Aprons	MODEL NUMBERS **
Available Models	Wraps: WA, WABR, WAQR, WAFB, WAFO Vest: VO, VBO, AFVO, FBVO, QRVO, FOV Skirt: SO, QRSO Vest/Skirt Combo: VS, VSB, AFVS, FBVS, QRVS, FOVS
** Custom models available (ex. V CUSTOM, S CUSTOM)	
Recommend Use/limitations	Provide personal protection against X-ray scattered radiation. Designed for FRONT & BACK Protection to protect the main part of the body against limited exposure during x-ray procedures. Not for use in direct beam.
<ul style="list-style-type: none"> To assist in choosing the model best for your procedure, detailed descriptions are available at www.shieldingintl.com The recommendations above may be subject to local statutory or safety procedures. Consult your Radiation Safety Officer or qualified radiologist for more detailed recommendation. 	
ACCESSORY:	In accordance with Shielding International Specifications Test Method: EIC 61331-1.2014
Available Models	Spinal Stole: 810, 810C, P-SS Multi Purpose Shield: MPS Caps: RSC Table Scatter Shield: TSS

APRON SIZING

Frontal Aprons						
	X-Small – (XS)	Small – (S)	Med – (M)	Large – (L)	X-Large – (XL)	XX-Large – (XXL)
Fits Chest	30"-34" 76.2cm-86.4cm	34"-38" 86.4cm-96.5cm	38"-42" 96.5cm-106.7cm	42"-46" 106.7cm-116.8cm	47"-52" 119.4cm-132.1cm	53"-58" 134.6cm – 147.3 cm
Width	18" 45.7cm	20" 50.8cm	22" 55.9cm	24" 61cm	27" 68.6cm	30" 76.2 cm
TQW Wrap Width	4" 10.2cm	4" 10.2cm	5" 12.7cm	5" 12.7cm	6" 15.2cm	6" 15.2cm
Check Your Height	4'11"-5'3" 149.9cm-160.0cm	5'3"-5'5" 160.0cm-165.1cm	5'5"-5'8" 165.1cm-172.7cm	5'8"-5'11" 172.7cm-180.3cm	5'11"-6'2" 180.3cm-188cm	
Choose Length	(XS) = X-Short 30" / 76.2 cm	(S) = Short 32" / 81.3 cm	(R) = Regular 34" / 86.4 cm	(T) = Tall 36" / 91.4 cm	(XT) = X-Tall 38" / 96.5 cm	
CUSTOM SIZING			Available on all models - specify Chest, Waist, Hips, Length			

Vest Skirt and Wrap Around Aprons					FEMALE
	Small – (SF)	Med – (MF)	Large – (LF)	X-Large – (XLF)	XX-Large – (XXLF)
Chest	34"-35" 86.4cm-88.9cm	36"-37" 91.4cm-94cm	38"-40" 96.5cm-101.6cm	41"-44" 104.1cm-111.8cm	45"-48" 114.3cm-121.9cm
Waist	26"-30" 66.04cm-76.2cm	30"-34" 76.2cm-86.36cm	34"-38" 86.36cm-96.52cm	38"-42" 96.52cm-106.68cm	42"-46" 106.68cm-116.84cm
Fits Hips Up To	38" / 96.5cm	40" / 101.6cm	43" / 109.2cm	47" / 119.4cm	51" / 129.5cm
Standard Length for Vest Skirt					
Vest Length	17" / 43.2cm	18" / 45.7cm	19" / 48.3cm	20" / 50.8cm	21" / 53.3cm
Skirt Length	20" / 50.8cm	20" / 50.8cm	21" / 53.3cm	21" / 53.3cm	22" / 55.9cm
Choose Length for Wrap Around					
Check Your Height	4'11"-5'3" 149.9cm-160.0cm	5'3"-5'5" 160.0cm-165.1cm	5'5"-5'8" 165.1cm-172.7cm	5'8"-5'11" 172.7cm-180.3cm	5'11"-6'2" 180.3cm-188cm
Choose Length	(XS) = X-Short 30" / 76.2 cm	(S) = Short 32" / 81.3 cm	(R) = Regular 34" / 86.4 cm	(T) = Tall 36" / 91.4 cm	(XT) = X-Tall 38" / 96.5 cm
CUSTOM SIZING		Available on all models - specify Chest, Waist, Hips, Length			

Vest Skirt and Wrap Around Aprons					MALE
	Small – (SM)	Med – (MM)	Large – (LM)	X-Large – (XLM)	XX-Large – (XXLM)
Chest	35"-38" 88.9cm-96.5cm	39"-42" 99.1cm-106.7cm	43"-46" 109.2cm-116.8cm	47"-50" 119.4cm-127cm	51"-54" 129.5cm-137.2cm
Waist	28"-32" 71.1cm-81.3	32"-36" 81.3cm-91.4cm	36"-40" 91.4cm-101.6cm	40"-44" 101.6cm-111.8cm	44"-48" 111.8cm-121.9cm
Fits Hips Up To	40" / 101.6cm	44" / 111.8cm	48" / 129.5cm	52" / 132.1cm	56" / 142.2cm
Standard Length for Vest Skirt					
Vest Length	18" / 45.7cm	19" / 48.3cm	20" / 50.8cm	21" / 53.3cm	22" / 55.9cm
Skirt Length	21" / 53.3cm	22" / 55.9cm	22" / 55.9cm	22" / 55.9cm	23" / 58.4cm
Choose Length for Wrap Around					
Check Your Height	4'11"-5'3" 149.9cm-160.0cm	5'3"-5'5" 160.0cm-165.1cm	5'5"-5'8" 165.1cm-172.7cm	5'8"-5'11" 172.7cm-180.3cm	5'11"-6'2" 180.3cm-188cm
Choose Length	(XS) = X-Short 30" / 76.2 cm	(S) = Short 32" / 81.3 cm	(R) = Regular 34" / 86.4 cm	(T) = Tall 36" / 91.4 cm	(XT) = X-Tall 38" / 96.5 cm
CUSTOM SIZING		Available on all models - specify Chest, Waist, Hips, Length			

Guarantee and Disclaimer

SHIELDING INTERNATIONAL guarantees its **Regular Lead and TL Lite Ply** products against imperfections of the material and labor for a period of 2 years from date of purchase. (*Non-Lead or LF Strata 300 is limited to a 1 year warranty*) This guarantee is limited to the repair or replacement of the garment in case of manufacturer defect. The guarantee does not cover any other responsibility.



Care of Aprons/Collars/Accessories

Optimize the usage of your recently purchased x-ray apron by respecting a few simple suggestions:

- a. Storage: Don't fold, crease, drape or sit down on your SHIELDING garments. Hang your apron after each use on a rack or hanger (Model 200H) intended for this purpose.
- b. Cleaning: Keep your SHIELDING garment clean by wiping away stains as soon as possible (within 24 hours by preference), using mild temperature water and with soft detergent added into it.
 - *Do not autoclave
 - *Do not use bleach
 - *Do not dry-clean
 - *Do not use alkali detergents
 - *Do not iron
 - *Do not use alcohol, or alcohol-based products
- c. Velcro must be secured properly to avoid snagging or tearing of fabric. Always store apron with Velcro closed.
- d. Transportation: Recommend Apron bag (Model AB) which comes with a tube for rolling up garment to prevent creasing.

Inspection

Please inspect your garment thoroughly upon receipt and at regular intervals. This apron must be inspected on a regular basis to ensure good homogeneous protection as well as the state of sewing.

During a plain film radiographic inspection, you may observe:

- a. Light spots, small or large, may appear which indicate localized thicker attenuating content particles. This effect increases x-ray protection and should be of no concern.
- b. Darker shaded areas can appear which usually indicates a thickness variation in the material. If a sharp edge defines the darker area, this may be the result of damage to one or more of the garment's 2 to 5 plies of protective material. This is often caused by stress from the misuse and/or improper handling of these garments (i.e. folding, draping or creasing the garments).
- c. A small amount of dark spots, often referred to as pin holing, can appear which is inherent to the manufacturing process. As long as there are no dark spots exceeding 5 mm in diameter health physicists have determined they are of no concern. This should not be interpreted as defective manufacturing. There should be concern if you find dark spots or holes larger than 5 mm or an area which shows many small spots clumped together.
- d. There should be concern if dark lines appear as they usually indicate possible cracks or severe thinning in the material. This is normally caused by one or more plies cracking or deteriorating as a result of misuse, mishandling, or age.
- e. Please inspect garments for any visible defects in workmanship and notify us immediately if your garment is not satisfactory.

Control

SHIELDING INTERNATIONAL has the CE label as manufacturer in the US with products sold through distributors in the European market in accordance with EN 61331-3:2014, and testing per EN61331-1:2014. Identification of the notified organization for the CE examination for EC Type-examination for EU 2016.425 by:

SGS FIMKO OY, PO Box 30 (Sarkiniementie 3), 00211 Helsinki, Finland
(Notified Body No: 0598)

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