



## Advanced Repairs for Structural Gear NFPA 1851, 2008 edition

Major repairs shall only be done by the manufacturer, a verified Organization (fire department), or a verified ISP (Independent Service Provider). A "verified" organization or ISP is one who has been 3rd party certified to perform repairs, or has been trained by the element manufacturer in Advanced Cleaning and Advanced Inspection.

### **Major repairs shall include the following:**

- Any repair to the moisture barrier layer or thermal liner
- Any repair to the thermal liner.
- Re-stitching of more than 25 mm (1 inch) of any Major seam.
- Replacing trim that necessitates sewing into a Major A seam.
- Zippers, Velcro, or hardware that is part of your closure system.

Replacement layers shall only be made by the original manufacturer or a verified ISP that has permission from the manufacturer.

Please ensure that your garment has been thoroughly cleaned prior to any repairs being made.

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All repairs to any garment must be done in the same manner as the manufacturer using like materials. (Example, if your garment is produced from PBI outer shell material, you must use PBI material.) Ricochet utilizes Nomex thread on all of their garments.

Repairs must be made to all layers of the garment that have been damaged.

If you have a tear or burn in your outer shell, check the thermal liner and moisture barrier to make sure these layers were not affected.

Patches shall be limited to 32 cm<sup>2</sup> (5 sq. inches). The finished edges of the patch shall extend at least 25 mm (1 inch) in all directions beyond the damaged area. To prevent fraying, the patch shall have no raw edges. (Cut your patch big enough to be able to turn under at least ½ inch on each side.)

Where installing a patch, Ricochet recommends patching the interior of the material as well to prevent further damage from washing and general wear.

If replacing trim, or covering trim with an alteration, be sure to use the same amount of trim in the repair. Patches must not exceed 75mm (3 in) in length and must extend 1 inch beyond the damaged areas. A maximum of 2 patches shall be used.

**If you are not sure of the complexity of the repair, please consult the manufacturer.**