

GARMENT DESIGN REQUIREMENTS



Item	NFPA 1971, 2013 Edition Structural and Proximity Fire Fighting
Optional Requirements	CBRN garment requirements
Garment Composite	Outer shell, thermal liner, and moisture barrier, configured as single or multiple layers
Liner Attachment	Means of securing liner to shell; No more than 1" between liner system and coats sleeves or pant legs and no expandable attachments
Liner Coverage	Extend to neckline of coats, waistline of pants, within 1" of coat cuffs, and within 3" of hems on coats and pants.
Garments & Closure Systems	Must provide continuous moisture & thermal protection; Secured with positive fasteners (hooks & dees or zippers)
Collar	Minimum 3" in height; must have closure system; Proximity collar lining shall not be reflective
Sleeves	Liner 1" from cuff; Must have close fitting wristlet
Hardware	Free of rough spots, burrs, or sharp edges; Inward facing hooks w/ 3 attachment points; Cannot penetrate through all three layers unless covered
Snaps	This requirement eliminated in 2013 edition
Sewing Thread	Inherently flame resistant
Fastener Tape	This requirement changed in the 2013 edition and was moved to be a performance requirement.
Cargo Pockets	Means of drainage and flaps with closure
Metallic Closure Systems/ Metal Components	Shall not contact body; unless covered by closure flap
Liner System	Required to have thermal & moisture barrier & means to secure to shell
Zippers	Moved to performance with additional requirements
Sizing	<ul style="list-style-type: none"> • Male & female patterns • Chest Men 34–60; Female 28-50 in 2" increments or to order • Sleeves M: 32–38; F: 28–34 in 1" increments or to order • Waist M: 30–60; F: 28–50 in 2" increments or to order • Lengths M: 24–36; F: 24–34 in 2" increments or to order
Trim	Retroreflective & fluorescent trim in stated placements and must appear to be continuous; Trim must be minimum 2" wide; retroreflective surface at least 5/8" wide; Gaps not to exceed 1" allowed on coat inner sleeve and pant inseams or wherever there is a zipper; Proximity specifically prohibits trim
Drag Rescue Device Required in Coats	Accessible from exterior of coat; able to be deployed with gloved hand; designed to prevent accidental deployment
Coats Required to Have Wristlet	Permanently attached and designed so as not to allow any gap in thermal protection
Reinforcements	Must meet all flame and heat requirements of standard; Proximity specifically prohibits non reflective reinforcements, with the exception of 1" cuffs at coat and pant hems