

Exhibit 4 – Structural Firefighter’s Equipment

Example Helmets

Cairns N6A Houston Black Leather Helmet, OSHA Certified

Not NFPA certified.

Hand crafted 100% leather shell.

An engineered impact cap of high-temperature rigid urethane foam with a tough Lexan outer dome and an ABS inner liner. Provides advanced thermal, impact, and penetration protection. Designed to increase protection at the sides where it’s needed most.

Cairns' six-way overhead strap suspension system reduces shock transmission at the top of the helmet while providing a snug, comfortable fit.

Sateen cotton liner with leather brow patch sewn to high density foam backing around the entire circumference of the liner.

Soft black Nomex chinstrap with one-hand quick release buckle and postman slide allows quick and easy adjustment.

Three-position, rear-ratchet height adjustment ensures a secure and comfortable fit, with or without SCBA gear, for all head sizes

Jumbo earlaps for increased neck coverage and protection.

Larger diameter helmet hanger fits on larger hooks and racks.

5-year shell replacement warranty.

Can be fitted with eyeshield, 4” faceshield, and NFPA 1971 certified goggles.

Cairns: N5A New Yorker Natural Leather Helmet, OSHA

Hand crafted 100% leather shell.

An engineered impact cap of high-temperature rigid urethane foam over an ABS inner liner. Provides advanced thermal, impact, and penetration protection. Designed to increase protection at the sides where it’s needed most.

Cairns' six-way overhead strap suspension system reduces shock transmission at the top of the helmet while providing a snug, comfortable fit.

Sateen cotton liner with leather brow patch sewn to high density foam backing around the entire circumference of the liner

Soft black Nomex chinstrap with one-hand quick release buckle and postman slide allows quick and easy adjustment.

Three-position, rear-ratchet height adjustment ensures a secure and comfortable fit, with or without SCBA gear, for all head sizes

Jumbo earlaps for increased neck coverage and protection.

Larger diameter helmet hanger fits on larger hooks and racks.

Insurance against fireground damage with Cairns 5-year shell replacement warranty.

Exceeds US-OSHA (CFR 1910) NBSIR-1977

Premium Configuration Includes

Carved brass eagle 6-inch front holder.

Black Nomex Earlaps.

Bourke Eyeshields.

Bullard Traditional Fire Helmet Matte Finish

Helmet sports a textured, matte finish giving it the rugged look of a leather helmet.
Thermoglas® outer shell.
Urethane foam impact cap.
Brass eagle.
6-point crown strap.
Sure-lock ratchet headband with removable brow pad.
Nomex chin-strap with quick release buckle and postman slide.
Black nomex ear/neck protector.
Can be fitted with NFPA 1971 – 2013 certified goggles.
Can be fitted with flip down eyeshield.
Can be fitted with NFPA 1971 – 2013 certified faceshield.

Morning Pride Lite Force Plus Low Rider Modern Helmet, NFPA

Helmets are made from their special "FYR-Glass" formula composite.
New and improved "Low Rider" delivers a lower center of gravity.
6 point suspension system provides a full 1.5" of adjustment for quick and easy custom fit.
Specially made headliner cradles your head in comfort while it cushions overhead straps away from your hair and head.
Internally protected straps cannot be affected by external heat or flame.
Yellow Nomex earlaps are 4.5 oz. 2 Layer Nomex FR Cotton.
No accidental creeping down the face, nose dig or fogging problems.
Works over eyeglasses and no ear cover interface problems.
Adjustable headband with four position depth adjustments.
Hang-up loops large enough to fit over a peg.
NFPA 1971, 2007 Edition Certified.

Additional Specifications

NFPA 2007 Edition Certification.
NFPA 1971, 2007 Edition.
Earcovers: 4.5 oz. Nomex 2 Layer FR Cotton, Yellow, 2007 Edition.
Reflexite Bars: 1" x 4" LF Plus, Yellow.
Chinstrap: Nomex quick release Postman Slide.
Headband/Ratchet Cover of Indura Cotton.
Warranty: 5 years for the composite shell and 3 years for the thermo-plastic shell.
Can be fitted with eyeshield, 4" faceshield, and goggles.

Morning Pride: Ben 2 Low Rider Helmet NFPA 2013 Certified

New and improved "Low Rider" delivers a lower center of gravity.
6 point suspension system provides a full 1.5" of adjustment for quick and easy custom fit.
Stronger, lighter, and a great value with field proven proprietary shell material that provides superior heat protection with 39% more resistance to impact penetration than conventional fiberglass material.
Internally protected suspension straps cannot be affected by external heat or flame.
Gold plated eagle front holder won't bend and flop like hollow brass ones.
Includes black Nomex earlaps.
Specially made headliner cradles your head in comfort while it cushions overhead straps away from your hair and head.
Useable hang-up loops are actually large enough to fit over a peg.
Headband/ratchet will fit the largest range of hat sizes of any NFPA helmet on the market- from under 6 to over size 9.

Four position depth adjustments on the headband. No tools needed.
Internally protected suspension straps cannot be affected by external heat or flame.
Gold Plated Eagle.
Available with Black or Yellow Nomex Earlaps.
Warranty: 5 years for the composite shell and 3 years for the thermo-plastic shell.
Can be fitted with EZ Flips, goggles, 4" faceshield, or EZ flips and goggles.

Honeywell: The EV1 Traditional Firefighting Helmet, with Internal EZ TouchFace Eye Protection, NFPA

Only traditional helmet on the market below 52 ounces in weight.
Proprietary internal EZ TouchFace Eye Protection.
Leather headband and ratchet cover with mesh crown – standard.
Low profile design provides superior comfort, optimal fit, and improved balance.
Certified to NFPA 1971.

Standard Features of the EV1 – Traditional

Proprietary Internal EZ Touch Face and Eye Protection with Safety Lock allows for one-touch deployment of your face protection.
Lightweight and very balanced - weighs less than 52 oz.
The UV-resistant mat shell finish shell is constructed of composite fiberglass for durability.
6-point suspension with hook and loop headband system for exact adjustment.
Impact liner is made of rugged and durable polyurethane.
EZ Clip, Reversible Chinstrap with Quick-release Buckle and Postman Slide allow for easy adjustment and proper fit.
Leather Headband and Ratchet Cover with Mesh Crown is standard on all models.
Black Nomex 2-layer FR cotton ear covers are securely attached yet easily removed for cleaning.
Large hang-up loop is big enough to easily fit over a peg.
Anti-catch Safety Bracket for Leather Fronts is exclusive on these traditional helmets.
8 Reflexite Lime Trapezoids provide reflective trim.
Golden Alloy-plated Traditional Eagle Front Holder.
Bulldog Edge Beading.
Certified to NFPA 1971.

Phenix: TL-2 Traditional Leather Firefighting Helmet

Choice of eye protection: ESS Goggles only, Bourkes only, or ESS Goggles and Bourkes.
Top grade veg-tanned leather shell with commemorative 9-11 filigree design.
High temperature thermoplastic dome.
Exclusive Phenix suspension liner with ratchet system is fully adjustable from size 6-1/2 to 8-1/2.
Combination Nomex chinstrap with both postman slide and quick-release buckle.
Eight 3M lime-yellow NFPA reflective tetrahedrons.
Available in Red, Black, Yellow, Natural and White.
Can be fitted with NFPA 1971-2013 certified ESS FirePro Goggles or OSHA compliant Bourke-style flip down eyeshields.

The FireStore Standard First Due 1500-TL2 NFPA Helmet

Standard Model T-2 with Bourkes meets OSHA requirements.
Top grade veg-tanned leather shell with commemorative 9-11 filigree design.
High temperature thermoplastic dome.

Closed cell energy absorption impact cap.

Exclusive Phenix suspension liner with ratchet system is fully adjustable from size 6-1/2 to 8-1/2.

Custom comfort pad installed on suspension liner cradles and cushions your entire forehead.

Black detachable 8" earlaps of Nomex and FR cotton.

Combination Nomex chinstrap with both postman slide and quick-release buckle.

American made brass Rising Phenix finial holds standard and wide leather 6-1/4" Leather Shields (sold separately).

Eight 3M lime-yellow NFPA reflective tetrahedrons.

D-ring on rear brim for easy storage.

Choice of eye protection:

ESS FirePro 2 Goggles with snap-on-snap-off mounting posts under brim for a low profile attachment and fast repositioning.

Bourke-style clear flip-down eyeshields

Both ESS FirePro Goggles and Bourke-style clear flip-down eyeshields.

Phenix: TL-2 Traditional Leather Helmet with TL-2 Combed Leather Shell Miller Upgrade

Top grade veg-tanned leather shell with commemorative 9-11 filigree design.

High temperature thermoplastic dome.

Closed cell energy absorption impact cap.

Exclusive Phenix suspension liner with ratchet system is fully adjustable from size 6-1/2 to 8-1/2.

Custom comfort pad installed on suspension liner cradles and cushions your entire forehead.

Black detachable 8" earlaps of Nomex and FR cotton.

Combination Nomex chinstrap with both postman slide and quick-release buckle.

American made brass eagle finial holds standard and wide leather 6-1/4" Leather Shields (sold separately).

Eight 3M lime-yellow NFPA reflective tetrahedrons.

D-ring on rear brim for easy storage.

Choice of eye protection:

ESS Innerzone 2 Goggles with snap-on-snap-off mounting posts under brim for a low profile attachment and fast repositioning.

Bourke-style clear flip-down eyeshields (*This configuration meets OSHA requirements, only.)

Both ESS Innerzone 2 Goggles and Bourke-style clear flip-down eyeshields

Cairns: 1044 Helmet, Black, NFPA, OSHA

Tough, through color, DuraGlas® fiberglass and high-temp resin composite resists cracking and chipping. Perfect combination of durability and performance in a lightweight design.

Three-position, rear-ratchet height adjustment ensures a secure and comfortable fit.

Six-way overhead strap suspension system reduces shock transmission at the top of the helmet while providing a snug, comfortable fit.

Certified to meet NFPA 1971 Specifications, 2013 Edition for Structural Fire Fighting.

All earlaps come in yellow.

Lower profile and superior balance.

Features & Benefits

Cairns innovative Defender Visor with a scratch- and thermal-resistant, slightly tinted Tuffshield lens.

Tough, through color, DuraGlas® fiberglass and high-temp resin composite resists cracking and chipping and provides a perfect combination of durability and performance in a lightweight design.

An engineered impact cap of high-temperature rigid urethane foam with an ABS inner liner. Provides advanced thermal, impact, and penetration protection. Designed to increase protection at the sides where it's needed most.

Cairns' six-way overhead strap suspension system reduces shock transmission at the top of the helmet while providing a snug, comfortable fit.

Leather (Deluxe) cushion liner removable for washing and upgrading, provides greater ease and comfort. Soft black NOMEX chinstrap with one-hand quick release buckle and postman slide allows quick and easy adjustment.

An exclusive SCBA interface front headband adjustment matches the fit of any SCBA mask.

Three-position, rear-ratchet height adjustment ensures a secure and comfortable fit, with or without SCBA gear, for all head sizes.

Jumbo earlaps and patented shell release increase neck coverage and protection, all allow easier maintenance.

Larger diameter helmet hanger fits on larger hooks and racks.

Insurance against Fireground damage with Cairns 5-year shell replacement warranty.

Can be fitted with Bourke Eye Shield, 4" Tuffshield Visor, Defender.

Example Hoods

Majestic: PAC II 100% Nomex Natural Hood, NFPA 1971-2013

Smooth fit in Majestic's most popular long bib design.

Wider width for air circulation keeping end user cooler.

Generous width and size means less fabric stretch.

The more surface area for moisture disbursement the quicker moisture will evaporate - keeping user dry.

Maintains protective properties after washing.

MFA hoods offer the most square inches of protection.

Universal sizing.

Elastic face opening.

100% Nomex fabric.

Seams are merrow stitched with the top and bottom covered with a 5-thread cover stitch.

Wear resistant binding.

Available with notched shoulder.

Majestic: PAC III, 100% Nomex, Black, NFPA 1971-2013

Fullest coverage *certified* to NFPA 1971-2013.

Shoulder inserts for added shoulder protection.

Long length for optimum coverage.

Wider width for air circulation keeping end user cooler.

Generous width and size means less fabric stretch.

The more surface area for moisture disbursement the quicker moisture will evaporate - keeping user dry.

100% Nomex fabric.

All thread used is 100% Nomex.

Maintains protective properties after washing.

MFA hoods offer the most square inches of protection.

Universal sizing, Black Nomex.

Hoods also comply with CAL/OSHA standards.

PGI: Cobra™ Ultimate™ Carbon Shield™ Hood, NFPA Certified

Extra Long Double Ply Hood throughout.
Arc Rating: 23.3.
HRC Rating: 2.
X-Long length covers chest, shoulders and shoulder blades.
Flat stitched seams.
X-heavy 1/2" wide elasticized face opening.
Cover stitched bound drape.
Double-ply hood throughout.
UL Classified to NFPA 1971: Standard on Protective Ensembles for Structural Fire Fighting and Proximity. Fire Fighting – Current Edition.
Meets CAL-OSHA Requirements.
Complies with OSHA Rule 29 CFR part 1910, 269.
Non-Shrinking.
One size fits all.

Fabric

Both outer shell and lining are a blend of Carbon/High Strength Aramid-approx.6.5 oz sq yd.
1 x 1 rib knit fabric - knit to allow approx. 200% stretch for maximum stretch and recovery.
Calendared to minimize laundry shrinkage.

Stitch Types and Seams

All stitching conforms to Federal Standard 751 Specifications (FED-STD-751).
Major seams are flat seam assembled, stitch type 607.
Elastic in face opening is serged in with stitch type 504 and reinforced with bottom cover-stitch, stitch type 406.
Binding is applied with bottom cover-stitch, stitch type 406.

Thread

All seams are sewn with 100% Nomex® thread size Tex 40.

Construction

Composed of two layers throughout.
For a contoured fit the hood is seamed from top of face opening to back of head.
Face opening is circular in shape and serged with x-heavy duty 1/2" wide elastic around the perimeter. The elastic is then folded back 1/2" and cover stitched. The face opening stretches a full 16" (which is 25% more than conventional hoods) for easy donning and a snug fit around face of SCBA mask. Face opening maintains original shape after repeated launderings.
The bottom edge of hood is bound with self-material bias binding.
Gusset added at side seams to provide complete shoulder coverage and smoother drape.

Measurements

Face opening is circular and measures between 4.6" to 5.6" in diameter.
Length of hood below face opening approx. 12".
Length of hood at side from top to bottom approx. 17".
Length of hood at back from top to bottom approx. 19½".
Length of hood at front top to bottom approx. 20".

Fabric Performance Values

Arc Thermal Performance Value (ATPV) 23.3

Thermal Protective Performance

Initial (seconds)	24
After 5 washings (seconds)	27.6
After Flame	
Initial (inches)	0 x 0
Warp (wales) x Fill (Courses)	
After 5 washings (seconds)	0 x 0
Char Length	
Initial (inches)	2 x 1.9
After 5 washings (inches)	1.4 x 2.3
Fabric Burst Strength (N)	287
Seam Burst Strength (N)	469.1
Heat and Thermal Shrinkage	
After 5 washings	0%
Limiting Oxygen Index (LOI)	55
Melt or Drip when exposed to flame	None

Majestic: PAC II Ultra C6, SVZ, NFPA 1971-2013

NFPA 1971-2013 Edition and is *UL Certified*. Meets or exceeds Cal/OSHA Standards.

Fire Retardant vented fabric strip along head allows for body heat to escape.

2-piece design with notched shoulders.

All seams are merrow stitched then top and bottom covered with a 5-thread cover stitch for extended durability.

All bottom edges are bound and sewn with 100% Nomex® thread.

Stitching color contrasts with hood color, enabling easy advanced inspection of thread stitching.

Black Ultra C6 Carbon Knit.

One size fits all.

2 Ply Head Specifications

Overall Hood Length: 21".

Length: 13" from top of head to neck.

Width: 9" from back seam to top of face / 11" from back seam to bottom of head.

Vent Zone: 3" wide FR fabric vent from top of forehead to base of neck.

Full Face Opening Circular Measurement (120 mm - 145 mm) Elastic Face Opening stretches to accommodate a circumference of at least 31" (800 mm) for ease of donning, snug fit, and proper seal with SCBA. Sewn with 1/2" elastic. Elastic is encapsulated in material and cover stitched.

2 Ply Bib Specifications

Length: 8" (front and back).

Notched Shoulder: 15" from top of head to bottom of notched.

Majestic: PAC IA Economy Nomex Blend White Hood, NFPA 1971-2013

Economical offering certified to NFPA 1971-2013.

Also complies with Cal/OSHA standards.
Notched shoulder reduces bunching of material.
Notched shoulder for contoured fit (shoulders exposed).
Wider width for air circulation keeping user cooler.
Generous width and size means less fabric stretch.
The more surface area for moisture disbursement, the quicker moisture will evaporate - keeping user dry!
Maintains protective properties after washing.
MFA hoods offer the most square inches of protection!
Nomex Blend.

Example Gloves

Ergodyne ProFlex Fire & Rescue Performance Gloves

Rugged Armortex-reinforced palm and thumb saddle.
Reinforced fingertip gripping zones; EVA palm pad.
Double-needle Kevlar stitching.
Stretch spandex shell for comfort and fit.
EVA knuckle pad with reflective pattern.
EN 388: 4243.

Ergodyne ProFlex Fire & Rescue Rope Gloves – Black

Double-layer synthetic leather palm and fingers.
Reinforced EVA-padded rope channel.
Double-needle Kevlar stitching.
Stretch spandex shell for comfort and fit.
Adjustable wrist cinch anchor for extra security.

Fire Pro II Structural Fire Glove

Flame and heat resistant 3.5 to 4.0 oz. eversoft cowhide leather with a 60+ TPP rating for overall heat protection.
Double layer of 6 oz. FR modacrylic liner on back of hand for added heat protection.
Full sock liner made of 6 oz. no drip no melt stitch-bonded FR modacrylic.
3 mil breathable Pryotect Barricade barrier is 100% water proof, protects from viral/chemical penetration and blood borne pathogens.
4" Nomex® wristlet with leather pull patch.
Gauntlet style has a 2 inch all leather cuff sewn at top of glove.
This glove is made from all USA manufactured fabrics/leather and produced in the USA with a highly skilled work force.
This glove meets the NFPA 1971-2013 standard and is SEI certified.

Pro Tech 8 Titan Kangaroo Structural Glove, Short Cuff

Pro-Tech 8 Titan K is the kangaroo skin version of our original Titan model and is considered today's gold standard in structural firefighting gloves. Kangaroo is essentially the most rugged of all leathers ounce for ounce while maintaining incredible softness and pliability. The unique structure of kangaroo leather allows it to be cut down to a relatively thin layer but still retain its strength. As a comparison, when split to 20% of original thickness kangaroo skin retains 30-60% of the tensile strength of the un-

split hide. Calfskin, on the other hand, split to 20% of original thickness retains only 1-4% of its original strength.

The resulting Titan K is a combination of durability and natural flexibility that ensures your hands won't easily tire on the fire ground or in training, an amazing grip, comfort and fit like you have never experienced before and the safe and efficient performance needed to be at your best!

Titan K breaks in almost immediately and will remain soft and flexible after use.

The Pro-Tech 8 Titan K Glove is independently certified as compliant to the NFPA 1971 Standard 2007 Edition on Protective Ensemble for Structural Firefighting; certifying agent Safety Equipment Institute, Virginia.

Fire Hog Structural Fire Glove

Eversoft® cowhide leather, flame and heat resistant 3.5 to 4.0 oz. leather tanned with additives to stay soft and provided low water absorbance when soaked repeatedly. Meets NFPA flame resistance test.

3.5 to 4.0 oz. smooth grain Flexor cow leather back with 60+ TPP rating.

Exclusive breathable adhesive for glove bonding.

Pryotect Barricade 3 mil Barrier that is 100% waterproof, viral/chemical penetration resistant and protects against blood borne pathogens.

4" Nomex® wristlet cuff with leather pull patch.

Meets NFPA 1971-2013 standard and is SEI certified.

Fire Armor Structural Fire Glove

60+ TPP and class leading conductive heat transfer protection.

FR water repellent 100% Kevlar® knit fleece t with 1 piece back shell.

A layered non-restrictive knuckle patch.

Extra layer of 6 oz. modacrylic liner sewn to the back shell.

A double backed 3 mil breathable Pryotect Barricade moisture barrier.

100% water proof, viral/chemical penetration resistance and blood borne pathogen protection.

A layered 6 oz. 65% Kevlar®/35% Nomex® stitch bonded FR liner.

Five separate curved form fitting forchettes made from 3.5 oz. to 4.0 oz. grain cow leather for maximum finger dexterity with a 60+ TPP rating.

Exclusive breathable adhesive for ensuring full liner/barrier glove bonding.

1 piece palm 3.5 to 4.0 oz. Eversoft® cow leather tanned with additives to stay soft when wet and low water absorbance with repeated soakings for a 60+ TPP rating.

4" Black Nomex cuff with leather pull patch and hang up loop.

This glove is proudly made in the USA with highly skilled employees.

This glove is certified to NFPA 1971-2013 by the Safety Equipment Institute (SEI).

Fire Raider Structural Fire Glove

Eversoft® cowhide leather, flame and heat resistant 3.5 to 4.0 oz. leather tanned with additives to stay soft and provided low water absorbance when soaked repeatedly. Meets NFPA flame resistance test.

3.5 to 4.0 oz. smooth grain Flexor cow leather back with 60+ TPP rating.

Exclusive breathable adhesive for glove bonding.

Pryotect Barricade 3 mil Barrier that is 100% waterproof, viral/chemical penetration resistant and protects against blood borne pathogens.

Five separate curved form fitting forchettes made from 3.5 oz. to 4.0 oz. grain cow leather for maximum finger dexterity with a 60+ TPP rating.

Exclusive breathable adhesive for ensuring full liner/barrier glove bonding 4" Nomex® wristlet cuff with leather pull patch.

Meets NFPA 1971-2013 standard and is SEI certified.

Proudly made in the USA with highly skilled employees.

Pro Tech Titan Structural Glove, Long Cuff

Pro-Tech 8 Titan is the latest structural firefighting glove from TechTrade. The Titan model picks up where the original Pro-Tech 8 left off and offers enhanced protection, abrasion resistance and durability without sacrificing the superior the dexterity, comfort and fit that Pro-Tech 8 users demand.

Our gloves use the highest quality components including DuPont Kevlar® and Nomex® and water repellent leather. The multi-layer design allows incredibly soft and comfortable break in with thermal protection that actually increases after washing, as proven during our lab certification testing; also while drying quickly and soft. The inner liner component is 100% knitted Nomex® and cannot be simply pulled apart like the inexpensive non-woven SEF used in many of our competitors top line gloves.

Pro-Tech 8 Titan's unique knuckle guard system enhances protection where needed which most structural firefighting gloves completely ignore.

The Pro-Tech 8 Titan Long Cuff wristlet style features a Kevlar® elastic cuff band which prevents debris from entering and eliminates glove slip off. The wristlet section is actually an extension of the actual glove construction providing the same maximum thermal protection found elsewhere in the glove. You no longer need to put up with annoying outdated knit wristlets that lose their elasticity and provide a significantly reduced level of thermal protection.

The glove is certified as compliant to the NFPA 1971 Standard 2007 Edition on Protective Ensemble for Structural Firefighting; certifying agent Safety Equipment Institute, Virginia.

Pro-Tech 8: Fusion Structural / Wildland Firefighting and Extrication Glove, NFPA

Lightweight glove breaks in extremely fast and remains soft and flexible after use and washing.

Fire-retardant, breathable, mesh knit polymer liner provides blood borne pathogen/liquid resistance and reduces friction during donning and doffing.

Outer palm layer's distinctive stitching prevents the material from bunching up and promotes the most efficient grip of any NFPA compliant structural glove.

Ring and middle fingers' palm sides are cut and sewn independently for enhanced dexterity.

Unique flexible 7-layer knuckle guard system provides repetitive thermal protection and cut/puncture resistance at the vulnerable knuckle compression point.

Gathered stitching around the entire wrist provides a secure fit and prevents debris from entering the glove.

Independently certified to NFPA 1971-2013 Edition by the Safety Equipment Institute, Virginia.

Materials and Layering

Outermost Palm Side Layer: Highly flexible and durable water repellent goat skin suede.

Second Palm Side Layer: Cut and heat resistant knitted Kevlar/Nomex.

Palm Side Inner Liner: 100% modacrylic mesh knit.

Palm Side Fingers: Knitted 100% modacrylic.

Outermost Back Side Layer: Layer of suede leather and layer of cut and heat resistant 100% Kevlar® knit that runs the length of the glove from finger tips to cuff edge.

Back Side Inner Liner: Mesh knit modacrylic.

Back Side Fingers: Knitted modacrylic.

Finger Sidewalls: Outer layer of Kevlar/Nomex and two additional layers of 100% modacrylic knit.

Knuckle Guard: Outer layer of 100% Kevlar®, two layers of silicon carbide both fused to 100% Kevlar®, another layer of 100% Kevlar®, and another layer of modacrylic knit.

Glove Interior: Two layers of highly breathable, completely sealed, polyurethane membrane to prevent liquid penetration and protect against blood borne pathogens.

Moisture Barrier: NFPA 1971 compliant Porelle FR 540.

100% Kevlar® high burst thread is used throughout the gloves.

Reflective tape is used on the glove's back side near the wrist area.

Pro-Tech 8: TITAN-K Structural Firefighting Glove, Kangaroo Leather/Kevlar, NFPA 1971-2013

Multiple layers of Kevlar® and Nomex can withstand the effects of flame, heat, vapor, hazardous liquids, sharp objects, and related hazards during structural firefighting.

100% FR kangaroo leather outer layer is more durable, pliable, and water resistant than any other leather. NFPA 1971 certified Porelle® FR 540 breathable barrier provides effective moisture and blood borne pathogen resistance.

Palm layers are stitched down with Kevlar high burst thread for a stronger grip.

Finger sidewalls made of Kevlar and Nomex maximize dexterity and flexibility.

Multilayer knuckle guard system provides unmatched thermal protection and cut/puncture resistance.

Long cuff model with debris blocker extends the glove body for superior protection at the vulnerable glove-sleeve interface.

Reinforced leather inner cuff and leather pull tab enable easy donning and doffing.

TITAN glove remains soft and flexible after use and washing and is certified to NFPA 1971-2013 Edition.

Materials and Layering

Outer Layer: 100% FR kangaroo leather.

Inner Liner: 100% Nomex.

Inner Cuff: Reinforced leather.

Finger Sidewalls: Kevlar® and Nomex.

Knuckle Guard: 8 layer system featuring two layers of Kevlar, two layers of Nomex, and two layers of silicone carbide infused with 100% Kevlar for a total of four layers.

Moisture Barrier: NFPA 1971 certified Porelle® FR 540 breathable barrier.

100% Kevlar high burst thread is used throughout the gloves.

Shelby: FDP Koala / Gore Gloves, NFPA 1971-2013 Edition

Constructed of 3.25 to 4.0 oz. Midnight Blue Koala Tanned Cowhide and 8 oz. S.E.F. Modacrylic Fleece laminated to Gore RT7100 Glove Barrier Fabric.

Fire retardant and heat resistant.

Honeywell: Kangaroo Leather Cadet Size Super Glove, NFPA

Fingers are about ½" shorter than regular sizes.

NFPA 1971, 2007 edition compliant.

Top Grain Kangaroo back outer shell stands up to abrasion, and is strong enough for any firefighting task.

Densely packed fibers minimize water absorption, and the leather does not become slippery when wet.

Black Digiroom™ kangaroo palm grips and fingers extend the advantages of kangaroo leather to provide incredible durability, grip, and tactility with unprecedented thinness.

Crosstech® moisture barrier provides high breathability, high heat resistance, high temperature stability, high abrasion resistance, continuous moisture barrier protection, and fast glove drying.

Air Spacer™ Kevlar® Nomex® thermal lining traps air for thermal protection without traditional bulk.
2-Ply Nomex wristlet.

3-D patterning with wing thumb.

Specifications

Outer Shell: Kangaroo Back Digiroom Palm & Fingers.

Moisture Barrier: Crosstech®.

Thermal Lining: Air Spacer™ Kevlar® Nomex®.

Pattern: 3-D.

Thumb: Wing.

Cuff:

Wristlet - 2-Ply Black Nomex®.

Gauntlet - Eversoft Black Cowhide.

Level of Bloodborne Pathogen Protection: HNO.

Glove with Gauntlet or Wristlet Performance Certifications

NFPA 1971, 2007 Edition for Structural Fire Fighting Gloves.

Glove with Wristlet only Performance Certifications

NFPA 1951, 2007 Edition for Technical Rescue & Recovery Gloves.

NFPA 1951, 2007 Edition for Technical Rescue Utility Gloves.

NFPA 1999, 2003 Edition for Emergency Medical Operations Work Gloves.

Veridian: Fire Armor Structural Firefighting Glove, NFPA

Back shell is made from FR and water repellent 100% Kevlar knit fleece 7.5 oz. fabric.

Eversoft® leather knuckle band is sewn across back for added knuckle protection.

Elastic is sewn into wrist crease for close fitting cuff.

Back is lined with a layer of 6 oz. modacrylic non-melting and non-dripping liner.

60+ TPP and class leading conductive heat transfer protection.

FR water repellent 100% Kevlar® knit fleece with 1 piece back shell.

A layered non-restrictive knuckle patch.

Extra layer of 6 oz. modacrylic liner sewn to the back shell.

A double backed 3 mil breathable Pyrotec Barricade moisture barrier.

100% water proof, viral/chemical penetration resistance and blood borne pathogen protection.

A layered 6 oz. 65% Kevlar®/35% Nomex® stitch bonded FR liner.

Five separate curved form fitting forchettes made from 3.5 oz. to 4.0 oz. grain cow leather for maximum finger dexterity with a 60+ TPP rating.

Exclusive breathable adhesive for ensuring full liner/barrier glove bonding.

1 piece palm 3.5 to 4.0 oz. Eversoft® cow leather tanned with additives to stay soft when wet and low water absorbance with repeated soakings for a 60+ TPP rating.

Glove liner has a 2 inch grain leather cuff sewn inside glove wrist over top of the liner for the gauntlet model and bond with 1 1/2 inch black FR binding to finish cuff.

4" Black Nomex cuff with leather pull patch and hang up loop on the wristlet model.

This glove is sewn completely with 30/3 Kevlar® thread.

This glove is available in Gauntlet, Long Cuff, and Cadet sizes.

This glove is certified to NFPA 1971-2013 by the Safety Equipment Institute (SEI)

Veridian: Fire Hog Fire Gloves

A girdle is sewn into palm for positive grip and extended wear for thumb area. Welts sewn into the middle and ring fingers for extra seam strength.

Eversoft® cowhide leather, flame, and heat resistant 3.5 to 4.0 oz. leather tanned with additives to stay soft and provided low water absorbance when soaked repeatedly. Meets NFPA flame resistance test.

3.5 to 4.0 oz. smooth grain Flexor cow leather back with 60+ TPP rating.

A double layer of soft 6 oz. FR modacrylic no melt no drip liner for a smooth inside feel and heat protection to the back of hand.

A leather cuff is sewn inside wrist opening over liner for extended wear of liner and smoother donning.

Exclusive breathable adhesive for glove bonding.

Pryotect Barricade 3 mil Barrier that is 100% waterproof, viral/chemical penetration resistant and protects against blood borne pathogens.

4" Nomex® wristlet cuff with leather pull patch.

Gauntlet style has smooth grain all leather 1 inch cuff hemmed over top of glove. Elastic is sewn to wrist crease on back and palm for close fitting cuff.

Meets NFPA 1971-2013 standard and is SEI certified.

Honeywell: 9550 Fire Mate Kangaroo/Elk Leather Structural Fire Glove, NFPA

Kangaroo leather palm absorbs far less water than traditional glove leathers and offers very high abrasion resistance with an excellent grip when wet.

Pliable Elk back stretches and stays soft.

Crosstech Moisture Barrier.

Thermal Liner Kevlar/Nomex.

Pattern: 2-D / Thumb: Wing.

Leather Gauntlet.

Certification: NFPA 1971.

Shelby 5291 Tuff Glove Structural Firefighting Glove with Wristlet

Superior Pre-Curved Components: Lining, Barrier, Shell.

Shelby Engineered: Flex-Points, Trigger Finger, G-BLOC.

Lifetime Guarantee Against Liner Pullout.

Relaxed Curved Hand: The natural position of the hand at rest.

Pre-Curved Thermal Liner: Brushed thermal liner with a Reverse Gunn pattern technology that is another first from Shelby, allowing for a true pre-curved thermal liner. Our system is designed to mate flawlessly and prevent glove roll in the palm and fingers resulting in a secure hold on tools and hoses, using less grip force resulting in less hand fatigue during extended use.

Pre-Curved GORE RT7100 Glove Barrier Fabric System: Unmatched thermal stability in its class and the reputation of The World Leader in Barrier Technologies. Our exclusive seam sealed system is 100% dunk test proven, and is the ONLY pre-curved lining barrier system that mirrors the outer shell.

Nomex® On Demand Emergency Protection and Thermal Layers: Exclusive light weight DuPont thermal barrier that boosts protection when and where it's needed most.

Pre-Curved Shell Layer: Functionally enhanced multi-dimensional (2,3 & 4D!) protective leather glove pattern that features a tapered trigger/index finger with Shelby engineered Flex-Points on thumb, middle, ring and small fingers. The end result is superior index finger dexterity and better finger and thumb articulation. Our G-BLOC proprietary wrist blocking system prevents glove creep during usage, providing a secure, comfortable and responsive fit.

Reflective Safety Enhancements: Snag resistant 3M reflective nail guards and Reflexite® bridge stripe for better visibility.
Made in USA.

Shelby 5292 Tuff Glove Structural Firefighting Glove with Gauntlet

Superior Pre-Curved Components: Lining, Barrier, Shell.
Shelby Engineered: Flex-Points, Trigger Finger, G-BLOC.
Lifetime Guarantee Against Liner Pullout.
Relaxed Curved Hand: The natural position of the hand at rest.
Pre-Curved Thermal Liner: Brushed thermal liner with a Reverse Gunn pattern technology that is another first from Shelby, allowing for a true pre-curved thermal liner. Our system is designed to mate flawlessly and prevent glove roll in the palm and fingers resulting in a secure hold on tools and hoses, using less grip force resulting in less hand fatigue during extended use.
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Reflective Safety Enhancements: Snag resistant 3M reflective nail guards and Reflexite® bridge stripe for better visibility.
Made in USA.

Shelby Extrication Glove w/ Hipora Barrier

Pre-curved form fitting glove body has wrist snuggler and is made of an "air-textured", high-tenacity Cordura nylon.
Kevlar reinforced palm & finger reinforcements are at all the high wear stress points.
Hipora waterproof barrier and soft breathable Bemberg Lining.
Glove offers 270 degrees of shirred elastic circumferentially at wrist crease and elastic snuggler to repel debris.
Ribbed Rubber pull at underside of wrist closure.
Hipora waterproof barrier with breathable insulation.
Kevlar® reinforced palm, knuckles and finger tips.
Armor-Dillo Knuckle Protection.
Cotton terry braw wipe.
Reinforced rubber pull with a hidden cord carabineer loop.
Custom finger-back rubber guards.
Reflective finger tips and trim.

Example Eye Protection

Conway/Lion: Faceshield, 4" x .150 Apec (Thumbwheel Style)

Fits Heritage & Classic Helmets.
Hardware not included.

Conway/Lion: Faceshield Hardware, Thumbwheel

Faceshield Bracket Kit (Thumbwheel).

Comes with one set of screws (not pictured). Fits Heritage & Classic Helmets.

Bullard: 6" Polycarbonate, Hard Coated Faceshield

Mounting hardware (R151) NOT included.

For PX/FX Series Helmets.

Bullard: Faceshield Mounting Hardware Kit

Aluminum mounting brackets, nylon knobs, small hitch pin clips, stainless steel studs, and brass T-nuts included.

For PX/FX Series Helmets.

Innerzone 1 NFPA Goggle System With Mounting Brackets.

Fits all brands of modern and traditional style helmets.

The *Innerzone* Series of NFPA-compliant firefighting goggles designed to withstand the rigors of structural firefighting, while offering the highest levels of protection and safety available. Certified by independent test labs to meet or exceed all the standards associated with NFPA 1971-2000, including the 500°F 5-minute oven test.

The *Innerzone 1* goggle utilizes a unique two-piece strap and mounting bracket system. It functions well with all major brands of structural fire helmets, with no drilling required. Thumb screws secure goggle straps to the helmet. Goggles can be stowed on the front or rear of the helmet.

ESS: FirePro-1971 FS Structural Firefighting Goggle Kit, Full Strap, NFPA 2013

This goggle series is certified as compliant with NFPA 1971-2013 Edition, including the 5-minute, 500°F oven test. It is also U.S. Federal OSHA compliant, exceeds the requirements of ANSI Z87.1-2010, and is considered Primary Eye Protection by NFPA 1500. All components of ESS FirePro-1971™ goggles are heat and flame resistant.

Goggles feature a one-piece, wrap-around strap that easily secures to any helmet with VELCRO® brand® tabs. This system keeps the goggle on hand at all times, with the flexibility of quickly removing them if needed.

Recommended for use without face shields.

Patented ESS *Speed-Clip™* strap system makes adjusting the tension of goggle straps quick and easy, even with gloves on.

ClearZone™ FlowCoat lens treatments provide an optimal combination of anti-scratch coatings on the outside of the lens and anti-fog coatings on the inside.

Low-profile frame with wide wrap minimizes helmet interference and maximizes peripheral vision.

Full-perimeter ventilation and filtration system further minimizes lens fogging while filtering airborne particles, dust, and debris.

Extra-thick, 2.8 mm high-impact **Profile™ Series** military goggle lenses that meet and exceed ANSI Z87.1-2010, the U.S. Military .22 caliber ballistic impact test MIL-DTL-43511D (Clause 3.5.10), and CE EN 166.

Lenses provide 100% UVA/UVB protection and distortion-free optical clarity.

A prescription eyewear solution is available for the **ESS FirePro™** goggles.

Example Boots

Hellfire Rubber Felt Insulated Boot, Lug Sole

Upper: FLAME/HEAT-RESISTING Rubber.

Construction: Vulcanized Rubber/Shoe Felt Engineered.

Lining: 3.5mm Polyester Needled Felt with Heel Reinforcement.

Insole: Removable Superknit Covered Polyurethane Footbed.

Midsole: Stainless Steel Puncture Resisting Bottom Plate .

Shank: Steel Triple Ladder Shank.

Outsole: FLAME/HEAT RESISTING White "Traction Lug".

Special Features: Meets Both NFPA Requirements. UL Certified. Blood Borne Pathogen Compliant. ASTM F 2413-05 M/I/75/C/75 Oversized Steel Toe. Electrical Hazard. Double Reinforced Pull Loops. Cushioned Shin Guard. Light-Reflecting Instep and Heel Patches.

Hellfire Rubber Insulated Boot, Lug Sole

Upper: FLAME/Heat-Resisting Rubber.

Construction: Vulcanized.

Lining: Dupont™ Kevlar® Yellow Knit One Piece Liner.

Insole: Removable Superknit Covered Polyurethane Footbed.

Midsole: Flexible L-Protection® or Stainless Steel Puncture Resisting Material.

Shank: Steel Triple Ladder Shank.

Outsole: FLAME/HEAT RESISTING "Traction Lug".

Special Features: Meets NFPA Requirements. UL Certified. Blood Borne Pathogen Compliant. ASTM F 2413-05 M/I/75/C/75 Oversized Steel Toe. Electrical Hazard. Double Reinforced Pull Loops. Cushioned Shin Guard. Light-Reflecting Instep and Heel Patches.

Hellfire Latex HazMat/Structural Dual Boot

Upper: Chemical/FLAME/HEAT-RESISTING Neoprene.

Construction: Neoprene Latex Dipped and Vulcanized Rubber / Shoe Fit Engineered.

Lining: 3mm Closed Cell Neoprene Foam Laminated to Nylon with 3.5mm Polyester Needled Felt Mid-Layer.

Insole: Removable Superknit Covered Polyurethane Footbed.

Midsole: Flexible L-Protection® or Stainless Steel Puncture Resisting Material.

Shank: Steel Triple Ladder Shank.

Outsole: Chemical/Oil/FLAME/HEAT RESISTING Polyurethane "Traction Lug".

Special Features: Meets Both NFPA 1971-2007 (Structural Fire Fighting) and NFPA 1992-2005 (Splash-Protective for Hazardous Materials). UL Certified. Blood Borne Pathogen Compliant. ASTM F 2413-05 M/I/75/C/75 Oversized Steel Toe. Electrical Hazard. Double Reinforced Pull Loops. Cushioned Shin Guard. Light-Reflecting Instep and Heel Patches.

Globe: Men's Supreme 14" Structural Fire Boot Pull-On, NFPA

Certified NFPA 1971 (Structural Fire Fighting) and NFPA 1992 (Liquid Splash) compliant.
 Feels like you are wearing an athletic sneaker.
 Flame, abrasion, oil, acid, and slip resistant compound engineered for high-traction and durability even during prolonged exposure to extremes of heat and cold.
 High flexibility material that can endure up to 1,000,000 flexes with no compromise in performance.
 Multi-layer composite puncture protection insole.
 3D Molded shin guard protects you when you are on a ladder.
 Boots include removable Snug Fit Inserts to customize your comfort level.
 CROSSTECH® Moisture barrier provides protection unmatched by any others.
 Composite safety toe.
 Toe bumper.
 Reinforced Pull-Straps.
 Molded Footbed.
 Boots include removable Snug Fit Inserts to customize your comfort level.
 Contoured outsoles are cement bonded to the bottom and sides of the upper
 FIRESTORM™ Leather is heavyweight, flame-resistant, and waterproof leather for durable performance.
 Leather has added reflective material at the heel for added nighttime visibility. Specially softened tumbled leather in high flex areas to move with you.
 3M SCOTCHLITE™ Flame-resistant fluorescent and reflective material for added visibility.
 HEELPORT™ Internal Fit System - anatomical foam insert holds your heel securely so it won't slip while cushioning your ankle.
 A rugged heel counter is individually molded to fit each size perfectly.
 LENZI® Puncture Protection - High-performance composite penetration-resistant insole is made from multiple layers of HT ceramic material - like ballistic armor for your feet. Far more flexible than a steel plate and doesn't transmit heat or cold. Exceeds NFPA standards for safety.
 Composite Shank is lighter than steel, doesn't transmit heat or cold, and springs back to shape better.
 A protective shield of KEVLAR® and NOMEX® fiber batting protects the CROSSTECH® moisture barrier, provides cut resistance, and adds thermal protection.
 Available in standard calf and wide calf lengths in medium, wide, and x-wide widths.

Thorogood: 14" Oblique Toe Structural Boot, NFPA

Stedair® Waterproof Barrier is Blood-Borne Pathogen Compliant.
 Exclusive Vibram® FIRE Sole with Chiseled Edge Lugs.
 Tempered Steel Safety Toe.
 Black Combat Superknit and 4 oz. Thermal Barrier.
 Black Boulder Waterproof, Flame, and Cut-Resisting Leather Upper.
 Exclusive Vibram® FIRE Sole with Chiseled Edge Lugs.
 Scuff-Resisting Vibram® Rubber Toe.
 Stedair® Waterproof Barrier is Blood-Borne Pathogen Compliant - ASTM F 1671.
 Black Combat Superknit and 4 oz. Thermal Barrier.
 Soft, Flexible Top Facing.
 Built In Shin Guard.
 Heat-Resisting Kevlar® Thread.
 Goodyear Storm Welt Construction.
 Tip Stitching for Extra Secure Sole Attachment.
 Triple Row Toe Stitching and Sealed Seams.
 Thermo Formed Counter.
 Steel Triple Ladder Shank.
 Fully Comfort Weave Lined.
 Oblique Tempered Steel Safety Toe Exceeds ASTM F 2413-11 M/I/75/C/75 Rating.

Toe Cap Padding for Greater Comfort.

Polyurethane Removable Contoured Cushion Insole on Flexible Double Rubber.

Flexible Non-Metallic Puncture-Resisting Textile Insole Material.

Certifications: Meets the requirements of NFPA 1971-2013 Standard on Protective Ensemble for Structural Fire Fighting, Current Edition, NFPA 1500, Fire Department Occupational Safety and Health Program, Compliant with ASTM F 1671, Standard Test Method for Blood-Borne Pathogen Penetration Resistance of Materials used in Protective Clothing, ASTM M 2413-11 M I/75 C/75 PR, Electric Hazard Rated, Tested for and meets CAN/CSA-Z195-M92 Electric Shock Resistance.

Pro Warrington: 5006 Ultimate Power 14" Bunker Boot, NFPA

Patented PowerToe™ & PowerHeel™ cover provides 3x the wear life and protects the heel from abusive doffing.

Reflective wraparound welt and reflective ridges on the PowerHeel™ are truly visible—not covered by bunker pants.

Fire and Ice Vibram® PowerSole™ welted lug sole gives more traction under almost any conditions and adds support, reduces fatigue and protects against sprains and strains.; replaceable for longer life.

Berry Amendment compliant.

Certified to meet or exceed NFPA 1971, 2007 Edition for Structural Firefighting Protective Ensembles.

Full grain military AB leather insulates and adds abrasion and puncture resistant properties to the foot area of the boots. Water and chemical resistant and protects the internal bootie system.

All leather PowerVamp and 7.5 oz Kevlar® felt thermal barrier combine to stabilize temperatures inside the boot, and add unsurpassed lightweight puncture resistance to the entire foot area. Stays comfortable for hours with no heat transfer from steel toes, plate, or shank.

Crosstech® moisture barrier provides superior liquid penetration resistance to blood, body fluids and NFPA tested common chemicals.

Exclusive bootie package quilts a 7.5 oz Kevlar® thermal barrier to the boot liner and laminates it to the **Crosstech® Fabric Moisture Barrier** preventing moisture accumulation and wicking. Only PRO boot products have this exclusive bootie composite package.

Soft thermo resin combines with an Advance® Rip Stop outer shell to provide superior impact protection against side punctures.

Molded thermoplastic heel counter locks your foot into the boot and anchors it in place.

Vibram® Fire/Ice PowerSole™ angled lugs provide substantial edging and gripping capabilities. Center medallion of stars surrounded by lug pattern provides maximum wear and traction.

Lining provides high abrasion and tear resistance, with antibacterial properties that keep your boots dry and your feet healthy.

Toe cover resists toe abrasion and provides unparalleled wear over the lifetime of the boots.

Toe safety cap.

Rip Stop Fabric.

External Texon Board shinguard protects and guards the sensitive shin area of the legs and is covered with military AB leather for additional protection.

Corrosion Resistant Steel Ladder Shank and Stainless Steel, Full Length, Toe-to-Heel

Puncture Resistant Bottom Plate.

Heavy duty 3/4" reinforced straps mounted to the exterior of boot and anchored with a 2" x 1½" shield-shaped base.

Pro Warrington: 5007 14" Structural Firefighting Boots, NFPA

14" high pull-on, fabric/leather bunker style boot with enhanced side and back stays, fire resistant fabric, water-repellent leather, safety toes, electrical hazard rated soles, steel bottom penetration resistance barrier, steel shank, shinguard and quick donning and doffing features for fire suppression personnel. 7½ oz. Nomex/Kevlar rip-stop fabric covers shaft of boot with married full grain cowhide leather covering shinguard, straps, and heel and vamp area.

Improved lock fit in heel area.

No angle shaft eliminates leg exposure from pant ride up.

Rounded straps protects against leg chafing and pant liner abrasion.

Sturdy back and side stays supports boot shaft when stacked on pants.

Crosstech Moisture Barrier with 7.5 oz Kevlar Thermal Barrier.

Removable insert for customizable comfort.

Oblique steel toe, steel bottom plate and shank.

PowerToe and Heel with Vibram Fire and Ice lug sole.

Meets or exceeds: .NFPA 1971 2007 edition and Class 75 impact resistance/compression resistance requirements of ASTM F2413-05.

Globe: Men's SUPRALITE 14" Pull-On Structural Firefighting Boot

Sizing Note: A different footbed insert is in the SupraLite which is slightly taller than the thinner footbed used with the Supremes and Shadows. This extra height makes the boots feel narrower. Please take this into consideration when ordering your size.

NFPA 1971 (Structural Fire Fighting) and NFPA 1992 (Liquid Splash) compliant.

Specifications

Flame Resistant, Waterproof Leather

Pebble grain leather with tumbled leather collar.

CROSSTECH® Footwear Fabric

A full-height bootie liner made from a package of Cambrelle®, 300g insulation, and CROSSTECH® moisture barrier provides protection unmatched by any other waterproof, breathable barrier.

DRAGONHIDE® Fabric

Fabric panels in shaft and flex joints are made from DRAGONHIDE® – a highly abrasion, cut, flame, and water-resistant fabric so tough that it is used to reinforce turnout gear.

3M SCOTCHLITE™ Reflective Material

Flame-resistant fluorescent and reflective piping.

HEELPORT™ Internal Fit System

Holds your heel securely so it won't slip while cushioning your ankle.

Molded Heel Counter

Individually molded to fit each size perfectly.

Composite Shank

Lighter than steel, doesn't transmit heat or cold, springs back to shape better.

Composite Puncture Protection

Far more flexible than a steel plate and doesn't transmit heat or cold. Exceeds NFPA standards for safety.

Vibram® Contoured Cup Outsole

Molded outsole wraps onto the leather upper for athletic shoe performance. Flame, abrasion, oil, acid and slip-resistant compound engineered for high-traction and durability even during prolonged exposure to extremes of heat and cold.

Slip Resistant Tread

Siping – thin slits cut into flat areas across the sole – open up when flexed to provide additional traction on water and ice. Self-cleaning lugs and omni-direction tread pattern designed for superior performance in all terrains and when working on ladders.

Pull-Straps

Flexible NOMEX® webbing pull-straps reinforced with leather slide easily under turnout pants and are kind to your legs.

NOMEX®/KEVLAR® Protective Shield

Protects the CROSSTECH® moisture barrier, provides cut resistance, and adds thermal protection.

3D Molded and Padded Shin Guard

Provides extra protection when you are working on a ladder.

Composite Safety Toe Cap

Lighter than steel, doesn't transmit heat or cold, and exceeds NFPA standards for safety.

Toe Bumper

Made from the same rugged compound as the outsole for abrasion resistance when crawling.

Dual Density Enhanced 3D Molded Footbed System

Removable dual density inserts are contoured to cradle and cushion the bottom of the foot and to provide arch support. Urethane foam bottom layer for durable cushioning with PORON® foam top layer to mold to the foot and keep the feet cool. Moisture-wicking and anti-microbial fabric top layer. An additional EVA insert to use in conjunction with the footbed provides for a snugger fit as needed.

3D Composite Lasting Board

Boot uppers are lasted to a molded and contoured lasting board with built-in flex zone in the forefoot and a torsionally stable heel. Works together with the 3D molded footbed to conform to the shape of your foot.

Athletic Footwear Construction

2-part cross-linking adhesive bonds outsoles and the upper. Without stiff welts and ribbed mid-soles, this attachment process is far more flexible.

Pro Warrington 3009 14" Structural Firefighting Boot

Meets or exceeds NFPA 1971 (2007 Edition).

Vibram Technical lug sole provides outstanding abrasion, thermal and chemical resistant properties. Slip resistant tread design formulated with exclusive NFPA compound.

Reinforced scuff resistant toe of urethane impregnated leather.

Oblique shaped safety toe cap matches the natural contour of the foot for greater comfort. Toe area has high abrasion resistance due to oblique shaped toe distributing surface contact.

Reinforced stitched-down sole.

Corrosion resistant steel ladder shank and stainless steel, puncture resistant bottom plate.

Full wraparound Goodyear welt- adds support, reduces fatigue, and ankle sprains/strains. Welted construction retains its shape over the life of the boot so you keep that great fit.

Thermoplastic backpart molded heel counter ensures superior comfort, fit and durability. Will not lose shape if exposed to moisture.

Top grade Military AB water resistant leather for outstanding durability and comfort.

Exclusive bootie package of bacteria resistant Cambrelle quilted to 7.5 oz 100% Kevlar full thermal barrier laminated to full height **CROSSTECH** footwear fabric designed to exceed NFPA 1971 (2007 Edition).

CROSSTECH Moisture barrier encapsulates entire boot including foot bed. Thermal barrier mounted to the inside of the moisture barrier to prevent moisture wicking.

Pull straps are 3/4" wide and fully reinforced for extra strength.

Honeywell: Ranger Series Model 1500 Insulated Rubber Boots, 16", NFPA

Insulated and non-insulated models with a choice of Kevlar®/Nomex® or wool felt lining.

Constructed of natural rubber or a combination of natural and butyl rubber.

16" high / approx. 7 lbs.

Shoe-Fit™ construction.

Kevlar®/Nomex® lining (insulated).

Shinguard for additional ladder-rung shin protection.

Steel toe, plate, and shank.

Molded sole and removable insert.

Available widths: narrow, medium wide.

Available sizes: 3 to 16 full sizes / 5.5 to 15.5 half sizes.

Certified to NFPA 1971 and NFPA 1992.

HAIX: FIRE HERO XTREME 11" Leather Bunker Boot, Mens, NFPA

11" overall height protects without restricting the movement of wider calves.

HAIX® Sun Reflect Leather reduces radiant heating of the leather; keeps feet significantly cooler in hot sunlight.

HAIX® Secura Liner® inner liner will never pull out or even wrinkle up over time.

CROSSTECH® 4-layer technology for a waterproof, breathable, bacteria and chemical resistant, blood borne pathogen resistant boot.

Innovative protective toe cap of non-conductive carbon HX. Meets ASTM F2413-05 standard for protective footwear with less weight, more comfort.

All-new more slip-resistant nitrile rubber sole integrates non-slip edges, suction cups, and other features for superior traction on slick and wet surfaces.

HAIX AF Ankle Flex system provides additional, highly padded flex zones on the top and sides of the ankle, for optimal fit and flexibility without pressure points.

Anatomically formed fleece absorbs moisture and supports ankle in the footbed.

A white area at back of boot top acts as a nameplate that can be personalized with any permanent marker, for easy identification of your boots.

Reflective strips, profiled rubber toe cap, large boot straps on both sides, shin protection.

Polyurthane foam is injected into the midsole to optimize shock absorption and insulate against temperature extremes.

Certified NFPA 1971-2013, NFPA 1992-2005; NFPA 1992-2005; CAN/CSA Z195-2009; ASTM F2413-05.

Globe Men's Shadow 14" All-black Leather Structural Fire Boot, Pull-On, NFPA

FIRESTORM™ Leather - Heavyweight, flame-resistant and waterproof leather for durable performance. Leather has added reflective material at the heel for added nighttime visibility. Specially softened tumbled leather in high flex areas to move with you.

All-black upper: black leather, black thread, black toe bumper—no reflective trim.

Superior performance and protection, with the flexibility and comfort of a sneaker.

New, softer boot collar and Nomex webbing pull straps slide easily under narrow turnouts, stay comfortable against your calf.

Advanced composites in toe and shank provide more effective protection without the weight of steel.

Molded and padded shin guard provides extra protection from ladder rungs.

Full-height waterproof, breathable CROSSTECH® fabric bootie provides unmatched barrier protection.

Tested to withstand 1,000,000 flexes with no compromise in performance.

Anatomical HEELPORT™ foam insert holds your heel securely so it won't slip while cushioning your ankle.

A rugged heel counter is individually molded to fit each size perfectly.

A softer, wider calf for even the narrowest of turnouts.

LENZI® high-performance composite penetration-resistant insole is made from multiple layers of HT ceramic material - like ballistic armor for your feet. Exceeds NFPA standards for safety.

Contoured outsoles are cement bonded to the bottom and sides of the upper using a 2-part cross-linking adhesive that forms a bond stronger than the materials it attaches.

Outsole - Flame, abrasion, oil, acid, and slip resistant compound engineered for high-traction and durability even during prolonged exposure to extremes of heat and cold. Siping lines cut into flat areas open up when flexed to provide additional traction on water and ice. Self-cleaning lugs and omni-direction tread pattern designed for superior performance in all terrains and when working on ladders.

A protective shield of KEVLAR® and NOMEX® fiber batting protects the moisture barrier, provides cut resistance, and adds thermal protection.

Certified NFPA 1971 (Structural Fire Fighting) and NFPA 1992 (Liquid Splash) compliant.

Honeywell: Ranger Series Model 1000 Insulated Rubber Boots, 15", NFPA

15" high / approx. 6.3 lbs.

Constructed of natural rubber or a combination of natural and butyl rubber.

Shoe-Fit™ construction.

Kevlar®/Nomex® lining (insulated).

Shinguard for additional ladder-rung shin protection.

Steel toe, plate and shank.

Molded sole and removable insert.

Available widths: narrow, medium wide.

Available sizes: 4 to 16 full sizes / 5.5 to 15.5 half sizes.

Certified to NFPA 1971 and 1992.

Honeywell: Ranger Series Model 1600 Insulated Rubber Boots, 16", NFPA

16" high / approx. 6.7 lbs.

Constructed of natural rubber or a combination of natural and butyl rubber.

Shoe-Fit™ construction.

Insulated with wool felt lining..

Steel toe, plate and shank.

Molded sole and removable insert.

Available widths: narrow, medium wide.

Available sizes: 3 to 16 full sizes / 5.5 to 15.5 half sizes.

Certified to NFPA 1971 and 1992.

Thorogood Women's Rubber Insulated Felt Fire Boot With Lug Sole, NFPA

Water Proof.

Crush Proof Safety Toe.

Electrical Hazard Protection.

Upper: Flame/heat-resisting rubber.

Construction: Vulcanized rubber/shoe felt engineered.

Outsole: Flame/heat resisting white "traction lug".

Lining: 3.5mm polyester needled felt with heel reinforcement.

Insole: Removable superknit covered polyurethane.

Midsole: Stainless steel puncture resisting bottom plate.

Shank: Steel triple ladder shank.

Certified NFPA 1971-2013 Standard on Protective Ensemble for Structural Fire Fighting 2007 Edition; NFPA 1992-2012 Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies; NFPA 1500, Fire Department Occupational Safety and Health Program; and ASTM F 2413-11 M I/75 C/75 PR EH.

Cosmas 13" Java Bunker Boot with Felt Lining

Handmade from 100% vulcanized waterproof rubber.
Black with high visibility yellow trim and 3M reflective piping around the outsole for optimum visibility.
Wool felt lining provides added insulation and safety.
Vulcanized pull-on loops enable easy donning and doffing.
100% polyurethane insole reduces foot, leg, and back fatigue.
Protective midsole features a puncture resistant steel plate and a steel ladder shank.
Lug outsole is non-slip, abrasion resistant, self-cleaning, and resistant to hydrocarbons.
Features an ASTM and CSA Grade 1 steel toe cap.
On average, boots weigh about 8.0 lbs. per pair.
Certified to NFPA 1971, Standard on Protective Ensembles for Structural Fire Fighting, 2013 Edition.
100% top to bottom 3 year warranty.

Example NFPA Certified Turnout Gear

Globe: TheFireStore Spec Classix Coat

Left Chest Radio Pocket, Right Chest Survivor Pocket.
Certified to NFPA 1971 (Structural Fire Fighting).
Free-Hanging Throat Tab: Stays out of the way when not deployed.
YOCCO™ Drag Rescue Device: Is easy to deploy when you need it, out of the way when you don't.
TRIMTRAX® Thread Protection: Trim attached with cording that lasts far longer than conventional stitching.
Dual-Action Cargo Pockets: With KEVLAR® fabric reinforcement inside
Drop Shoulder Design moves seam beyond the shoulder for improved reach and reduced coat ride up.
Shorter Collar for better interface with helmet.
Double Sleeve Wells with NOMEX® wristers to keep water out and interface with all glove styles.
Liner Access Opening for easy access between the layers.
Double-Stitched Seams with 8 - 10 stitches per inch for a longer service life.

Globe: TheFireStore Spec Classix Pants

Low-rise pants.
Vertical fly closure with hook and dee positive closure and take-up straps or optional belt.
Padded H-Back ripcord suspenders attach to horizontal loops so there is no metal hardware to dig in or pull out.
Thermally enhanced flex liner knees add mobility and a layer of thermal and moisture barrier to protect this high-compression area.
Diamond crotch gusset distributes stress in both shell and liner for durability.
Independent stretch waistband for unrestricted fit and no-gap protection with liner.
Liner access opening on fly for easy access between the layers.
Reverse boot cut is shorter in the back to avoid premature cuff wear.
Trimtrax® thread protection with patented cording lasts far longer than conventional stitching.
Double-stitched seams with 8—10 stitches per inch for a longer service life.
Certified to NFPA 1971 (Structural Fire Fighting).

Fire-Dex: Nomex III Deluxe Chieftain Express Turnout Gear Coat with Q8 Thermal Liner and Stedair 3000 Moisture Barrier

32" Coat.
3M Scotchlite Reflective Material, NYC Configuration.
DexFlex Back.
Black PCA reinforced cuffs.
XP11 Double Notch Radio Pocket (9x3x2).
Black Nomex® Mic Clip.
Two XP34 Semi-Bellow Handwarmer Pockets (9x9x2).
Nomex knit wrists with thumb holes.
Closure: Inner – Zipper, Outer – H & L.
Trim style is 3" NYC.
Material is PCA.

Fire-Dex: Nomex III Deluxe Chieftain Express Turnout Gear Pants with Q8 Thermal Liner and Stedair 3000 Moisture Barrier

Regular rise pant with 6" rear panel.
Inner zipper, outer Hook & Loop closure.
3M Scotchlite Reflective Material in 3" NYC Configuration.
10x8" black PCA knee patches.
DexFlex Knees.
Two Full Bellow Cargo Pockets (10x10x2).
Handwarmer hand pockets (9x9x2).
Reversed Tapered Cuff reinforced with black PCA.
XP11 Double notched radio pocket (9x9x2).
XMCLPB Mic Clip.
Reinforcements on the knees and cuffs.

Fire-Dex: Gemini XT FX-M Express Turnout Gear Pants with Caldura SL2i Thermal Liner and Stedair 4000 Moisture Barrier

Regular rise pant with no rear panel.
Inner zipper, outer Hook & Loop closure.
3M Scotchlite Reflective Material in 3" NYC Configuration.
12x9" 1-layer foam knees, reinforced with black PCA.
DexFlex Knees.
Two Full Bellow Cargo Pockets (10x10x2).
Handwarmer hand pockets (9x9x2).
Reversed Tapered Cuff reinforced with black PCA.
XP11 Radio pocket (9x3x2).
XM12 Mic Clip (1x5).
Reinforcements on the knees and cuffs.
Long Nomex knit wrist with thumb loop.

Fire Dex: Gold FXA Express Coat, 7.2 oz Advance-Nomex/Kevlar

Advance Nomex®/Kevlar® in gold, khaki, or black with Xtra Lite® thermal liner and Stedair® 3000 moisture barrier.

32" Length.
Inner zipper, outer Hook & Loop closure.
3M Scotchlite Reflective Material, NYC Configuration.
DexFlex Elbows & Back.
Black PCA reinforced cuffs.
XP11 Radio Pocket (9x3x2).
XP12 Fabric Strap (1x5).
Two XP34 Semi-Bellow Handwarmer Pockets (9x9x2).
XM01 Long Nomex knit wrists with thumb loop.

Morning Pride: TheFireStore Spec Structural Firefighting Bunker Gear, NFPA 1971

Jacket Specifications:

Outer shell: 7.5 oz Kevlar/Nomex.
Thermal liner: 2 layer Spunlace/Meta-Aramid facecloth.
Moisture barrier: PTFE/Nomex/ParaAramid.
Foldover comfort chinstrap.
Drag rescue strap.
Inspection port liner.
Take up straps to postman.
Tabbed Nomex wristlets.
Kevlar/Nomex hem patch with VELCRO® brand.
1.5" VELCRO® brand and zipper coat closure.
Half high bellows pockets: Kevlar/Nomex 6" H x 9" W x 1.5" D.
Mic tab on the left chest, above radio pocket, 0.5" x 2.5".
Radio pocket, left chest, 8" H x 3" W x 2" D.
Lanyard flashlight clip, right chest.

Pant Specifications:

Outer shell: 7.5 oz Kevlar/Nomex.
Thermal liner: two layer Spunlace/Meta-Aramid facecloth.
Moisture barrier: PTFE/Nomex/ParaAramid.
Narrow 1.5" VELCRO® brand fly with D-ring closure.
PortLiner.
Detachable liner.
Lime 3" cuff trim and 2-tone Scotchlite.
Patented angled boot cuffs.
BiFlex heat channel knees "sewn in".
Take up straps to postman.
Bellows pockets 8" H x 8" W x 2" D.

Lion: V-Force TFS, Turnout Pants

Five inch back panel extends above the waist.
Pant Liner & Moisture Barrier: Traditional Liner, Glide™ face cloth quilted to 2.3oz NOMEX®/Kevlar® spunlace & 1.5 oz AraFlo® Dri, CROSSTECH® BLACK (Type 2F) PTFE/Nomex® Pajama Check laminated membrane.

Outer Shell: PBI Matrix Plus 7.0 oz.

Pant Fly Closure: Sewn on pant fly with PJ Crosstech®, closure thermo zipper inside with 1.5" hook & loop, 3/4" hook underneath PJ crosstech for liner attachment.

Take Up Straps: 1 pair 1 x 8.5" self fabric take-up straps w/ 1" x 3" hook on end & 1" x 4.5" loop on opposite end, 1" x 2.5" strap w/ one 1" nickel loop, take-ups bartacked to shell.

Pant Knee Reinforcement: Black poly coated aramid contoured knees with Lite-N-Dri padding.

Pant Cuff Reinforcement: Black poly-coated aramid pant cuffs and 3x3.5" kick shield.

Turn-Out Pockets: 9" x 10" x 2" split bellow pocket with Kevlar® lined on all 4 sides, 2 x 9" loop on pocket, 1.5 x 3" hook on flap, antenna notch on flap-specify location, split 5" front and 4" rear.

Turn-Out Pockets: 9" x 10" x 2" pocket with Kevlar lined on all 4 sides, (2) add layers of outer shell fabric lined with Kevlar on shell inside pocket, first layer is 6.5" high, second layer is 4.5" high, both layers stitched in 3" increments to create 6 combined, 1.5 x 3" hook on shell.

Leg Tabs: Standard, 2 black leather leg tabs per leg, with non-logo female snaps.

Reflective Trim: Ventilated 3" strip above cuffs, 3M™ Scotchlite™ Triple Trim, Yellow / Silver.

Hi-Back Pants design offers consistent support and easy attachment to matching V-Back™ Suspenders (*Not included*).

Liner Inspection System: Pant liner inspection system with 1 x 3" loop located at right side of liner waist. 1 x 3" hook sewn to right shell front for the pant liner inspection system.

Lion: V-Force TFS, 32" Bi-Swing Turnout Coat

Outer Shell: PBI Matrix Plus: 7.25 oz.

Coat liner inspection system located at center right front of liner, with 1x4" loop.

Waterwells -Chambray DWR 2-Layer NOMEX®/Kevlar® spunlace quilt/pajama check crosstech with 1" elastic wrist shield. W-well with 3/4" loop, male snap, sewn to coat liner sleeves.

Coat Wristlets: 8" isodri® over the hand- KEVLAR® / NOMEX® / Spandex® construction.

Coat Inner Yoke Reinforcement: Semper Dri® front and back yokes sewn to coat thermal liners.

Coat Closure System: 2.5" stormflap (Square Corners) with 2 layer self fabric & 1 layer Gore RT7100 PTFE, thermo plastic zipper in, 1.5" hook & 1.5" loop out (zipper in, hook on coat front, loop on stormflap with poly-coated aramid tab for V-Fit Bi-Swing coat.

Coat Elbow Reinforcement: Contoured Black poly-coated aramid elbow patch w/ 1 layer GIC E-88 foam padding. V-Force Bi-Swing.

Coat Collar: 3" split self fabric collar with CROSSTECH® PJ lined. 1 x 3" hook on each end inside and two pieces 1" hook set 1/2" from center along top edge for liner attachment. 1.5 x 4" hook & loop for front closure.

Throat Tab: 4 x 11" contoured collar throat tab with Gore RT7100, 2 x 2" hook on tab, 2 x 2" loop on bottom tab & collar, tab set on right end of collar, 2 x 3" loop on left side of collar, 2 x 2" loop on right side of collar & 2 x 2" hook on top side of collar tab for throat tab storage.

Coat Shoulder Reinforcement: Self fabric shoulder caps.

Coat Cuff Reinforcement: Self-Fabric Cuff Reinforcements.

Turn-Out Pockets: Two 9 x 9 x 2" semi bellow & handwarmer combined pocket with 6" opening on side, Kevlar® twill backer, handwarmer lined with semper dri. 1.5 x 3" loop on pocket & 1.5 x 3" hook on flap, 2 layers lite-n-dri inside flap corner & PCA tab out.

Turn-Out Pockets: 3.5 x 7.5 x 2" Radio Pocket with polycotton fully lined 3 sides inside pocket 5.25" divider, 2 x 3" loop on pocket & 2 x 3" hook on flap. Antenna notch on both sides of flap.

Mic Tab: 1" x 3" triple layer self fabric mic tab bartacked on each end.

Flashlight Strap: 1 x 10" 2 layers self fabric flashlite strap X-stitched to shell with 1 x 3" hook and loop. 1 x 3" triple layer self fabric mic tab bartacked at each end 2" above flashlight strap. 701 reverse snap hook riveted to shell with leather backing 2" above mic tab.

Misc. Fasteners: 1 Dee ring attached to coat.

Belts and Harnesses: DRD: Firefighter Recovery Harness with 2" welt and 5.25 x 2.25" flap with rounded corners. 1 x 2" loop for harness storage. 1 x 2" loop on shell flap closure, 1 x 2" hook on flap. 1.5 x 2" hook on harness. 2 x 2" loop underneath chest trim for harness storage, 1 pair 1 x 3.5" self-fabric straps with 1 x 2" hook and loop. The loop handle has a silver retro-reflective LION logo patch.
Reflective Trim: 3" New York Style trim pattern for V-Force. Ventilated Yellow 3M™ Scotchlite™.
Hangar Loop: Standard 5/8" x 5 1/2" self fabric hanger loop.

Example Tools Carried/Utilized by Firefighters in Structural Firefighting

Examples

Fire Pole Systems
Fire Axes
Rubber Mallet
McLeod Tool
Channellock Rescue Tool
Hydrant Wrenches
Scoop
Shovel
Fire Rescue Chain Saw
Broom
Fire Rake
Sledge Hammer
Pry Bar
Wedge
Fire Swatter
Hooks
Window Punch
Halligan Bar
Knives