



TECHNICAL SUBMITTAL

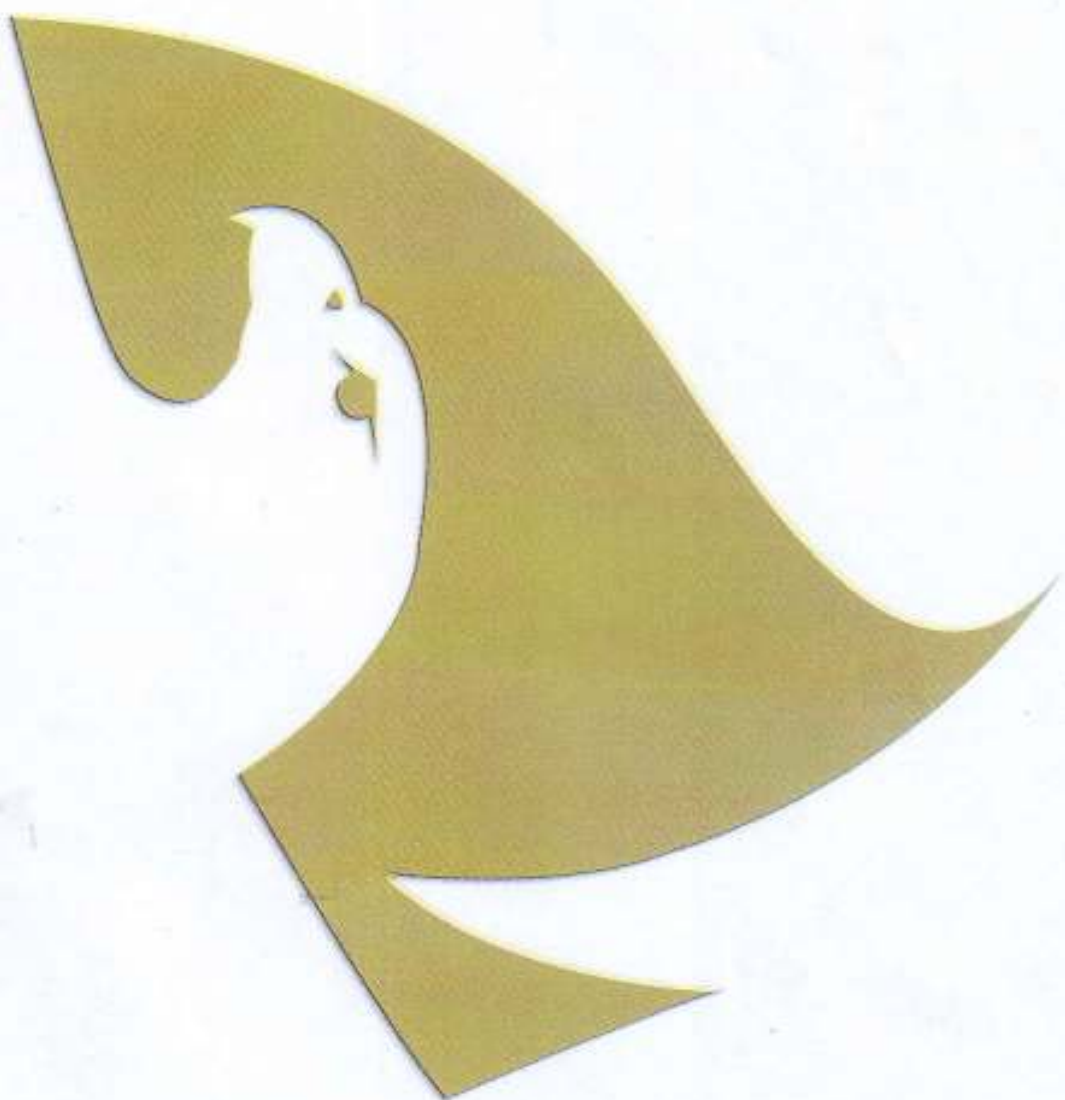


"Saves Human Lives, Property and Environment"



INDEX

#	Item
1.00	Fireman Boots
2.00	Fireman Helmets
3.00	Fireman Suits
4.00	Fireman Gloves
5.00	Fireman Hood



1.00

Fireman Boots



"Saves Human Lives, Property and Environment"



Technical Specification for Article: BD9788

Color	Black /Yellow
Size Range	Euro : 37 - 48 UK : 4 - 13 US : 5 - 14
Type of construction	Vulcanized Rubber Upper and Sole. European Standard, CE Approved – EN 345-2:1996.
Compliance	CSA –Canadian Standards Association. ANSI – American National Standard
Air pressure applied for water leakage testing	50 kPa
Lining Material	Leg Lining : Woven Cotton Canvas Weight (min.) 250g/m ² Thickness (min.) 0.60mm. Insole Lining : Woven Sheeting Weight (min.) 140g/m ² Thickness (min.) 0.30mm.
Rubber Components	Upper : Black in Colour, 65% Natural Rubber 30% Styrene Butadiene Rubber and 5% Chloroprene Rubber. Foxing : Yellow in Colour, 65% Natural Rubber 30% Styrene Butadiene Rubber and 5% Chloroprene Rubber.
Thickness of Upper and Fabric Combined	1.80mm (Minimum)
Sole / Heel	Black in Colour, 80% Chloroprene Rubber & 20% Nitrile Rubber Oil Resistant – Immersion in iso-octane (22 hours at 22 °C) 12% max change in volume. Abrasion Resistant – DIN 53516 : 250mm ³ max. Hardness Shore A : 65 ± 5.
Sole Protection	Electric Shock Resistant, meets CSA – Z195-M92,
Steel Midsole	One piece Stainless Steel, meets CSA-Z195-M92 Sole Penetration and EN 345 Flexing test.
Steel Toe	Meets EN 345 Impact and Compression.
Chemical Resistant	Upper -Resistant towards mild acids and alkali. Sole – Resistant towards mild acids.
Finishing	Hypalon Lacquer.
Packing	Polybag 6 pairs / carton.

PROTECTIVE SAFETY FOOTWEAR



USER INFORMATION

PROTECTIVE SAFETY FOOTWEAR USER INFORMATION

6. The protective footwear manufactured by Accredited SATRA Client No. P9417 complies with the EEC Directive for Personal Protective Equipment (Directive 89/686/EEC) and meets the requirements according to the European harmonised standard EN 345 and certified by Notified Body No. 0321, SATRA Footwear Technology Centre, Rockingham Road, Kettering, Northants, United Kingdom NN16 9JH.
- The footwear is manufactured using both natural and synthetic materials and conforms to the relevant sections of EN 345 for quality and performance.
3. Steel toe cap in the footwear protects the wearer's toes against the risk of injury from falling objects and crushing when worn in hazardous working environments.

Impact resistance : 200 joule
 Compression resistance : 15000 newton

- Additional protection which can be provided and where applicable will be identified on the product by the appropriate marking codes:

Marking Code	Additional Protection
HRO	Resistance to hot contact
P	Penetration resistance: 1100 newton
E	Energy absorption of seat region
CI	Cold Insulation
M	Metatarsal protection
CR	Cut resistance
SB	Standard Safety Boot (meets general requirement of EN 345)
S1	Closed seat region Antistatic properties Energy absorption of seat region
S2	As S1 plus Water penetration and absorption
S3	As S2 plus Penetration resistance Cleated outsole
S4	Antistatic properties Energy absorption of seat region
S5	As S4 plus Penetration resistance Cleated outsole

- **For Fire Fighting Boots**

Marking code on top right hand corner of the pictogram:

- | | |
|---|--|
| <p>F</p> <p>FP</p> <p>FA</p> <p>FPA</p> | <p>Provides impact protection 200 joule.
 Provides compression (crushing) 15000 newton.
 Provides protection against fire fighting hazards.
 Meets the required design of fire fighting footwear.</p> <p>In addition, the footwear provides penetration resistance of the sole of 1100 newton.</p> <p>In addition, the footwear meets the requirements for antistatic properties.</p> <p>In addition, the footwear meets the requirements for both penetration resistance and antistatic properties.</p> |
|---|--|

(Pictogram)

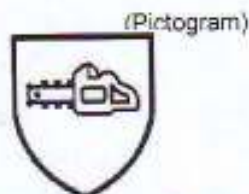


6. For Chainsaw Protection Boots

Resistance to chainsaw cutting – Marking Code

Class of chainsaw resistance:

20 m/s chain speed	Class 1
24 m/s chain speed	Class 2
28 m/s chain speed	Class 3



Warning! It must be strongly emphasized that no personal protective equipment can ensure 100% protection against cutting from a chainsaw. The PPE described above does not give complete protection. It will only provide enhanced resistance to penetration of chainsaw cut. The degree of protection offered depends on a number of factors, e.g. speed of saw chain, engine torque, angle at which bar contacts the boot, etc. Read carefully all safety instructions applicable to your chainsaw.

7. For Water Jet Cut Resistant Safety Footwear

Tested to protect the metatarsal area over accidental pass of UHP water jet.

Compliance with EC Directive 89/686/EEC for footwear against water jets.

SATRA Document M19:2002 Draft Issue 2.

Not cut through the full thickness of the upper assembly when tested as follows:

Water jet nozzle size = 1.0+/-0.1 mm omnidirectional

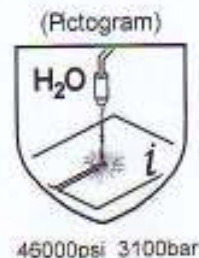
Distance between nozzle and test specimen = 75+/-5 mm

Feed speed of nozzle = 0.20+/-0.02 m/s

Water pressure = 3000+/-200 bar

Main test sites = as defined in EN 381-3:1996

Supplementary test sites = any areas of weakness in the protective zone (EN 344-2 C1 4.3.2)



Warning! It must be strongly emphasized that the PPE described above does not give complete protection. However it will provide enhanced resistance to penetration of the water jet thereby giving time to avoid further contact and hence reduce the potential injury.

8. This product is not a substitute for the safe operation of a power tool. Improper use of a power tool can result in accidents. Observe all applicable local safety regulations, standards and ordinances as well as the safety precautions and warnings in the power tool owner's manual. Warning! Electric shock resistance of the footwear deteriorates rapidly in a wet environment and with wear.
9. **Antistatic Footwear** should be used if it is necessary to minimize electrostatic build-up by dissipating electrostatic charges, thus avoiding the risk of spark ignition of, for example flammable substances and vapours, and if the risk of electric shock from any electrical apparatus or live parts has not been completely eliminated. It should be noted, however, that antistatic footwear cannot guarantee an adequate protection against electric shock as it introduces only a resistance between foot and floor. If the risk of electric shock has not been completely eliminated, additional measures to avoid the risk are essential. Such measures, as well as additional test mentioned below, should be a routine part of the accident prevention programme of the workplace.

Experience has shown that, for antistatic purposes, the discharge path through a product should normally have an electrical resistance of less than 1000M Ω at any time throughout its useful life. A value of 100k Ω is specified as the lowest limit of resistance of a product when new, in order to ensure some limited protection against dangerous electric shock or ignition in the event of any electrical apparatus becoming defective when operating at voltages up to 250 V. However, under certain conditions, user should be aware that the footwear might give inadequate protection and additional provisions to protect the wearer should be taken at all times.

The electrical resistance of this type of footwear can be changed significantly by flexing, contamination or moisture. This footwear will not perform its intended function if worn in wet conditions. It is, therefore necessary to ensure that the product is capable of fulfilling its designed function of dissipating electrostatic charges and also of giving some protection during the whole of its life. The user is recommended to establish an in-house test for electrical resistance and use it at regular and frequent intervals.

If the footwear is worn in conditions where the soling material becomes contaminated, wearers should always check the electrical properties of the footwear before entering a hazard area. Where antistatic footwear is in use, the resistance of the flooring should be such that it does not invalidate the protection provided by the footwear. In use no insulating elements should be introduced between the inner sole of the footwear and the foot of the wearer. If any insert is put between the inner sole and the foot, the combination footwear/insert should be checked for its electrical properties.

4. It is important that the footwear selected for wear must be suitable for the required protection in the working environment concerned. Where the working environment is unknown, it is very important that consultation is carried out between the seller and the purchaser to ensure, wherever possible, that the correct footwear is provided.
- Avoid damaging this safety product with pointed or sharp objects (e.g. saw chain, spikes, metal tools, etc.) or contact with aggressive fluids such as acids, oil, solvents, fuel, etc. Warning! If you spill fuel, oil, grease or any other flammable substance on your boots, stop work immediately and clean the boots as specified in order to reduce the risk of fire.
- To ensure the best service and wear from the footwear, it is important that it is regularly washed with warm water. Do not use any strong washing detergent or caustic cleaning agents. Footwear subjected to wet conditions should be allowed to dry naturally in a cool and dry environment. Force drying can cause deterioration of the upper and lining materials.

If the footwear is cared for and worn in the correct working environment and stored in dry ventilated conditions, it should give a good service life, without premature failure of the outsole and/or upper. The service life of the footwear is dependent on the correct selection of the footwear for the intended working environment and the prevention of contamination and degradation.

If the footwear is damaged, incorrectly washed, or altered from its original shape, it will not meet the specified level of protection and should be scrapped immediately.

- This boots are hand-made, piece by piece, of the materials listed below:

(Pictogram)



Upper



Natural / Synthetic Rubber



Lining



Textile



Out Sole



Natural / Synthetic Rubber

SHIELD FIRE, SAFETY AND SECURITY LTD

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2.00

Fireman Helmets



"Saves Human Lives, Property and Environment"

FIREMAN HELMET

MODEL: LTX-YELLOW



INTRODUCING

THE MOST COMFORTABLE LOW PROFILE HELMET ON THE MARKET



LT Series Structural Fire Helmet

Using the latest in engineering advancements, Bullard has developed the most comfortable low profile helmet on the market. With the re-engineered LT Series helmet, you'll find more headroom than ever before. This advanced, lightweight thermoplastic structural fire helmet eliminates excess weight, reducing the stress and fatigue associated with bulkier helmets, without sacrificing protection.

Generous Headroom in a Streamlined Design.

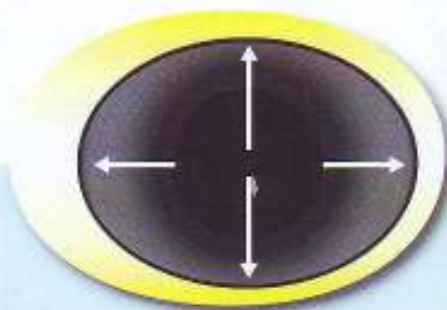
Until now, low profile helmets have been a tight fit, often uncomfortable for wearers with larger head sizes. Re-engineered to offer generous headroom, the lightweight, streamlined design of the LT Series accommodates more head shapes and sizes.

Flexibility in a Compact Package.

The compact LT Series helmet is compliant with NFPA 1971-2007 and features the innovative Quick-Attach™ Blade System. The Quick-Attach Blade System allows rapid installation and removal of both faceshields and goggles. Simply press the faceshield or goggles on or off in seconds, creating flexibility to choose the right option in any situation.

Custom Comfort.

The LT Series helmet offers 12 comfort settings, allowing wearers to customize the fit for ultimate balance and comfort. In addition, the Bullard Sure-Lock® ratchet headband offers a quick-turn knob for easy sizing.



Now with
increased
headroom.

Bullard





- 1 GE Ultem® thermoplastic outer shell
- 2 Ribbed inner shell
- 3 Four-point crown strap assembly
- 4 Sure-Lock® ratchet headband
- 5 PPC 4" faceshield
- 6 Rip-stop Nomex® ear/neck protector
- 7 Nomex® chinstrap
- 8 Three position height adjuster
- 9 Quick-Attach Blade System
- 10 Stainless steel D-ring

Technical Specifications

Outer Dimensions: 12 3/4" L x 10" W x 6 1/2" H

Outer Shell Material: Thermoplastic

Warranty: Two years from date of manufacture

LTX Deluxe Helmet System

- Black inner shell
- Sure-Lock® ratchet suspension
- Black rip-stop Nomex® ear/neck protector
- Quick-Attach faceshield
- Quick-Release buckle chinstrap
- Removable fire resistant cotton brow pad
- Quick-Release/Postman slide chinstrap
- Edge beading
- Leather Ratchet cover

LTG4X Option/Deluxe Helmet System

Same as Model LTX above except:

- Quick-Attach ESS goggle in place of faceshield

Options or Substitutions at no additional charge:

- 6" Faceshield
- Red-Orange Reflective Striping
- Yellow Nomex Ear/Neck Protector

WARNING

Bullard products are manufactured to exacting specifications. Any alteration or modification of these products by the user may adversely affect product performance. This information is in summary form only for easy reference. Refer to labels, instructions or other literature accompanying the product for more complete details regarding product use, maintenance, warnings, performance capabilities, complete specifications, instructions and precautions. Failure to observe these warnings could result in death or serious injury.

Bullard

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8084 (0108)



Head
Protection



Respiratory
Protection



Fire and Rescue
Safety



Thermal
Imaging

Innovation, quality, and service in an all new lightweight, compact design.

The Firedome LT structural fire helmet is the result of 20 years of Bullard thermoplastic technology and engineering expertise.

Featuring a completely new streamlined design, LT Series helmets incorporate recommendations from leading veteran fire and federal government professionals, making the LT designed for firefighters, by firefighters.

The result? An integrated assembly of advanced materials and quality components that provide industry leading head protection, and proven long-lasting durability.



Features and Benefits

Tough and Durable Protection. Bullard Tough.

The outer shell of the LT is made of the same high-heat Ultem® thermoplastic engineered in Bullard PX™ structural fire helmets and our full range of Thermal Imagers. Supplied in seven colors – red, white, yellow, black, blue, orange and lime-yellow – Ultem provides unparalleled impact and penetration resistance.

Quick, Easy Sizing

The Bullard Sure-Lock® ratchet headband offers both a quick-turn of the knob and a new, unique 3-position height adjuster to create that personalized fit for balance, comfort and a stable, positive interface with respiratory equipment.

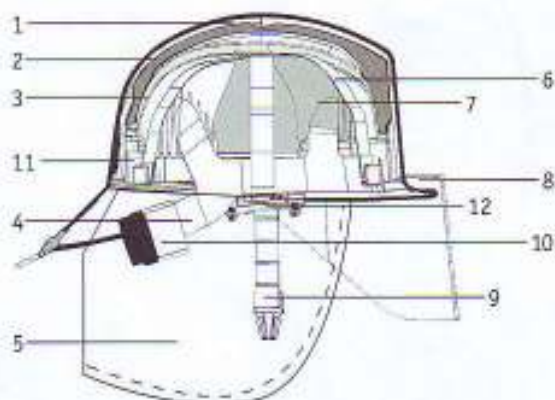
Eye Protection Made Easy

Bullard LT Series helmets come standard with the all-new and innovative Quick-Attach Blade™ system. This system permits the firefighter to simply press on or off either a blade-mounted faceshield or blade-mounted goggle in seconds. This flexibility gives the firefighter the advantage of the right option for the right application without time consuming component changes.

Cost-Effective Maintenance

LT helmets are designed from the start to make maintenance simple and cost effective. Fewer components and the greatest cost effectiveness in the industry, enhance your long term investment.





1. Thermoplastic outer shell
2. Urethane foam impact liner
3. Black inner shell
4. Sure-Lock® ratchet headband
5. Rip-Stop Nomex® ear/neck protector
6. Six-point crown strap assembly
7. Fire resistant, cotton brow pad
8. Faceshield
9. Nomex® chin strap with quick-release buckle and postman's slide fastener.
10. Leather ratchet cover
11. Three position height adjuster
12. Quick-Attach Blade System

Ordering Information

CATALOG NUMBER	DESCRIPTION
LT (Standard)	Firedome LT Helmet Ultram Thermoplastic outer shell, urethane foam impact liner, black inner shell, Sure-Lock ratchet headband with short brow pad, nylon crown straps, Nomex chin strap with quick-release buckle, rip-stop Nomex ear/neck protector, and 4" R330 faceshield.
LTG4 (Standard)	Firedome LT Helmet Ultram Thermoplastic outer shell, urethane foam impact liner, black inner shell, Sure-Lock ratchet headband with short brow pad, nylon crown straps, Nomex chin strap with quick-release buckle, rip-stop Nomex ear/neck protector, and ESS NFPA goggle.
LTX (Deluxe)	Firedome LT Helmet Ultram Thermoplastic outer shell with metal reinforced edge beading, urethane foam impact liner, black inner shell, Sure-Lock ratchet headband with full brow pad, nylon crown straps, Nomex chin strap with quick-release buckle and postman's fastener, rip-stop Nomex ear/neck protector, and 4" R330 faceshield.
LTG4X (Deluxe)	Firedome LT Helmet Ultram Thermoplastic outer shell with metal reinforced edge beading, urethane foam impact liner, black inner shell, Sure-Lock ratchet headband with full brow pad, nylon crown straps, Nomex chin strap with quick-release buckle and postman's fastener, rip-stop Nomex ear/neck protector, and ESS NFPA goggle.
Colors	Helmet shells are available in seven standard colors: white, red, yellow, black, blue, orange, and lime-yellow. Additional replacement parts, accessories, and decorations are available. Contact your distributor or Bullard Sales Support for details.
Technical Specifications	Dimensions - 12-3/4" L x 10" W x 6-1/2" H Outer Shell Material - GE Ultram® Thermoplastic Inner Shell Material - Urethane foam with ABS inner liner Suspension - 6-point Nylon crown strap Warranty - 2 years from Date of Manufacture

WARNING

Bullard products are manufactured to exacting specifications. Any alteration or modification of these products by the user may adversely affect product performance. This information is in summary form only for easy reference. Refer to labels, instructions or other literature accompanying the product for more complete details regarding product use, maintenance, warnings, performance capabilities, complete specifications, instructions, and precautions. Failure to observe these warnings could result in death or serious injury.

LT helmets meet or exceed the performance specifications of NFPA 1971 - 2000 as certified by U.S. Testing.



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"It's your life and you're worth it", LT, LX, and Quick-Attach Blade are trademarks of Bullard.
Nomex is a registered trademark of E.I. duPont de Nemours & Company.
Ultram is a registered trademark of General Electric. 6884 (E30)

Instructions for Providing a Comfortable and Secure Fit

To size the Sure-Lock® ratchet headband:

1. Turn the ratchet knob counterclockwise until headband is at largest size (Figure 1).
2. Place the helmet on your head and turn ratchet knob clockwise until headband is snug and comfortable.

To adjust helmet vertically:

1. Locate the vertical sliding adjustment tab at the center, rear, back of the headband.
2. To raise or lower the headband, slide the height adjuster up or down to set at the desired position for fit (Figure 2).

To raise or lower faceshield:

1. Release tension knobs found on both sides of the helmet.
2. Tighten knobs once faceshield is in desired position.



NOTES

- Performance properties of NFPA 1971-2000 cannot be tested by users in the field.
- NFPA 1500 requires members who engage in structural fire fighting shall be provided with helmets that meet the requirements of NFPA Standard 1971, Standard on Protective Clothing and Equipment for Structural Fire Fighting.

WARNING

Read all instructions and warnings before wearing this helmet. After removal from the wearer, the helmet should be inspected for damage and soiling after each use. The helmet should be adjusted by means of the adjustment points provided to permit a proper fit that does not interfere with the SCBA while in use. These adjustments should be done prior to actual structural fire fighting activities. Helmets damaged or deteriorated beyond economical repair should be removed from service. Failure to follow these instructions may cause death or serious injury.

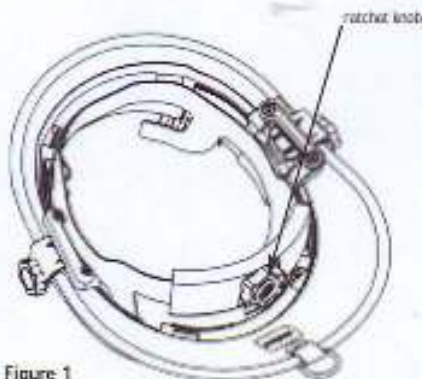


Figure 1

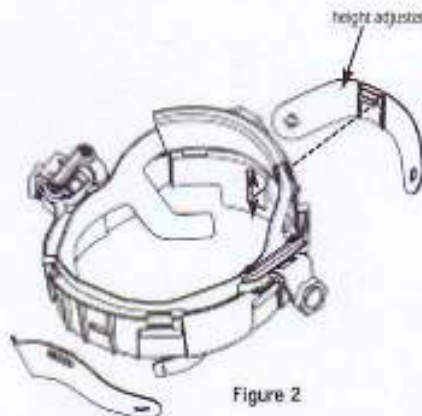
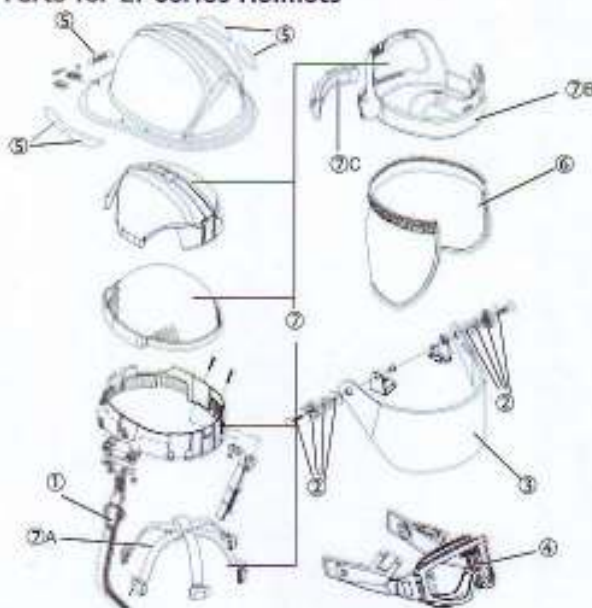


Figure 2

Replacement Parts for LT Series Helmets



CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
① R142	Optional - Nomex® chin strap with quick-release buckle and postman's slide fastener	②A R114	Nylon crown straps
① R141	Standard - Nomex chin strap with quick-release buckle (not shown)	②B R115	Nylon crown straps w/ crown pad (LTX Deluxe only) (not shown)
② R154	Faceshield mounting hardware kit, including quick-attach blades	②C R623	Standard - Sure-Lock ratchet headband with cut down brow pad (R633) (not shown)
② R155	IZB ESS goggle quick-attach blade mounting kit (not shown)	②D R160	Leather ratchet cover
③ R330	4" hard-coated PPC faceshield	②E R633	Standard brow pad (not shown)
③ R325	6" hard-coated polycarbonate faceshield (not shown)	Helmet Models	
③ R333	4" hard-coated polycarbonate faceshield (not shown)	LT	Standard Ultem® thermoplastic helmet w/ R330 faceshield
④ IZ4	ESS detachable NFFA goggle system	LTX	Standard Ultem thermoplastic helmet w/ quick-attach ESS goggle
⑤ IZ3	ESS NFFA compliant goggle with wrap-around headstrap (not shown)	LTX	Optional deluxe Ultem thermoplastic helmet w/ R330 faceshield
⑤ R533	Retro-reflective fluorescent, adhesive backed stripes, 1" x 4"; Lime-Yellow (set of 5)	LTX	Optional deluxe Ultem thermoplastic helmet w/ quick-attach ESS goggle
⑥ R721	Rip-Stop, Nomex ear/neck protector, black	Colors	
⑥ R726	Rip-Stop, Nomex ear/neck protector w/ throat strap, black (not shown)	Firedome helmets are available in seven standard colors: white, red, black, yellow, blue, orange, and lime-yellow.	
⑥ R741	Rip-Stop PBI®/Kevlar® ear/neck protector (not shown)		
⑥ R746	Rip-Stop PBI/Kevlar ear/neck protector w/ throat strap (not shown)		
② R922	Replacement inner crown system for LT. Includes inner shell assembly, Sure-Lock® ratchet headband, brow pad, urethane impact liner, 6-point nylon crown strap assembly, and hook and loop strips.		

LT Series Helmets User Manual

Cleaning

Remove ear/neck protector, and headband. Clean inner and outer shells with mild soap or detergent. Wash the ear/neck protector, headband, and brow pad in warm, soapy water and air dry at room temperature. Clean faceshields with mild detergent, rinse thoroughly with clean water, and dry with a soft cloth.

Decontamination:

Contact Bullard at 877-BULLARD (285-5273) for instructions concerning decontamination procedures.

WARNING

Users should not wear helmets that are not thoroughly cleaned and dried. Failure to follow this instruction could result in death or serious injury.

Two-Year Limited Warranty

Bullard warrants to the original purchaser that the firefighter helmet is free of defects in materials and workmanship under normal use and service for a period of two (2) years from the date of manufacture. The Bullard obligation under this warranty is limited to repairing or replacing articles that are returned within the warranty period, shown to be defective after inspection by Bullard, and subject to the following limitations:

- Helmet must be returned to Bullard with shipping charges prepaid
- Helmet must not be altered from its original factory configuration
- Helmet must not have been misused, subjected to negligence or damaged in transport

In no event shall Bullard be responsible for damages, loss of use, or other indirect, incidental, consequential or special costs, expenses or damages incurred by the purchaser, notwithstanding that Bullard has been advised of the possibility of such damages.

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO TWO (2) YEARS FROM THE DATE OF MANUFACTURE OF THIS PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

RETURN AUTHORIZATIONS: Contact Bullard Sales Support to obtain written permission to return any product. Material returned for credit will be subject to factory inspection. Current products or products under warranty will be subject to a rehandling charge less original freight charge. Obsolete or special order products cannot be returned without written permission.



Head
Protection



Respiratory
Protection



Fire and Rescue
Safety



Thermal
Imaging

⚠ WARNING

READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS FIREFIGHTER HELMET.

Firedome helmets are constructed with high quality materials and workmanship. They are engineered to provide limited protection against head injuries, when properly adjusted for fit and when worn by firefighters during normal fire fighting activities. They are not designed for direct contact with flames or molten metal, or for protection against hazardous chemicals, biological, or radiological agents. Contact of these fire helmets with live wires should be avoided. NEVER ALTER OR MODIFY the helmet's design or construction without explicit written instructions from Bullard. Inspect your helmet and suspension system regularly, regardless of how often it is used. If you notice any sign of wear, damage, abuse, or environmental degradation, replace the shell and/or suspension immediately. If the helmet has sustained a forcible blow (impact), it must be replaced, even if there is no visible damage.

THIS HELMET MUST BE PROPERLY ADJUSTED AND SECURED TO THE HEAD WITH ALL COMPONENTS IN PLACE, USED AS SPECIFIED IN MANUFACTURER'S INSTRUCTIONS.

Do not modify or replace any component of this helmet, including the shell, energy-absorbing system, retention system, fluorescent retro-reflective markings, ear covers, or faceshield with components or accessories other than those certified for use with this product. Modification or replacement with other than Bullard parts voids compliance with NFPA 1971-2000.

NO PROTECTIVE HEADGEAR CAN PROTECT AGAINST ALL FORESEEABLE IMPACTS. For maximum protection under these standards, the helmet must be of good fit and all retention straps must be securely fastened. Use only with a Bullard suspension system. This helmet should be inspected by the user for visible damage prior to each use. Immediately replace shell or suspension at first sign of wear, damage, or degradation.

HELMETS CAN BE SERIOUSLY DAMAGED BY SOME COMMON SUBSTANCES, THOUGH SHOW NO DAMAGE TO THE NAKED EYE. CLEAN ONLY WITH MILD DETERGENT AND WATER. DO NOT USE OR EXPOSE HELMET TO: PAINTS, SOLVENTS, CHEMICALS, ADHESIVES, GASOLINE, OR LIKE SUBSTANCES. STORE IN A DARK, COOL PLACE.

Failure to follow these instructions and avoid potentially hazardous situations could result in death or serious injury.

Firedome helmet model LT meets or exceeds all performance specifications under NFPA 1971-2000 as certified by U. S. Testing, US-OSHA and all major state fire helmet standards.

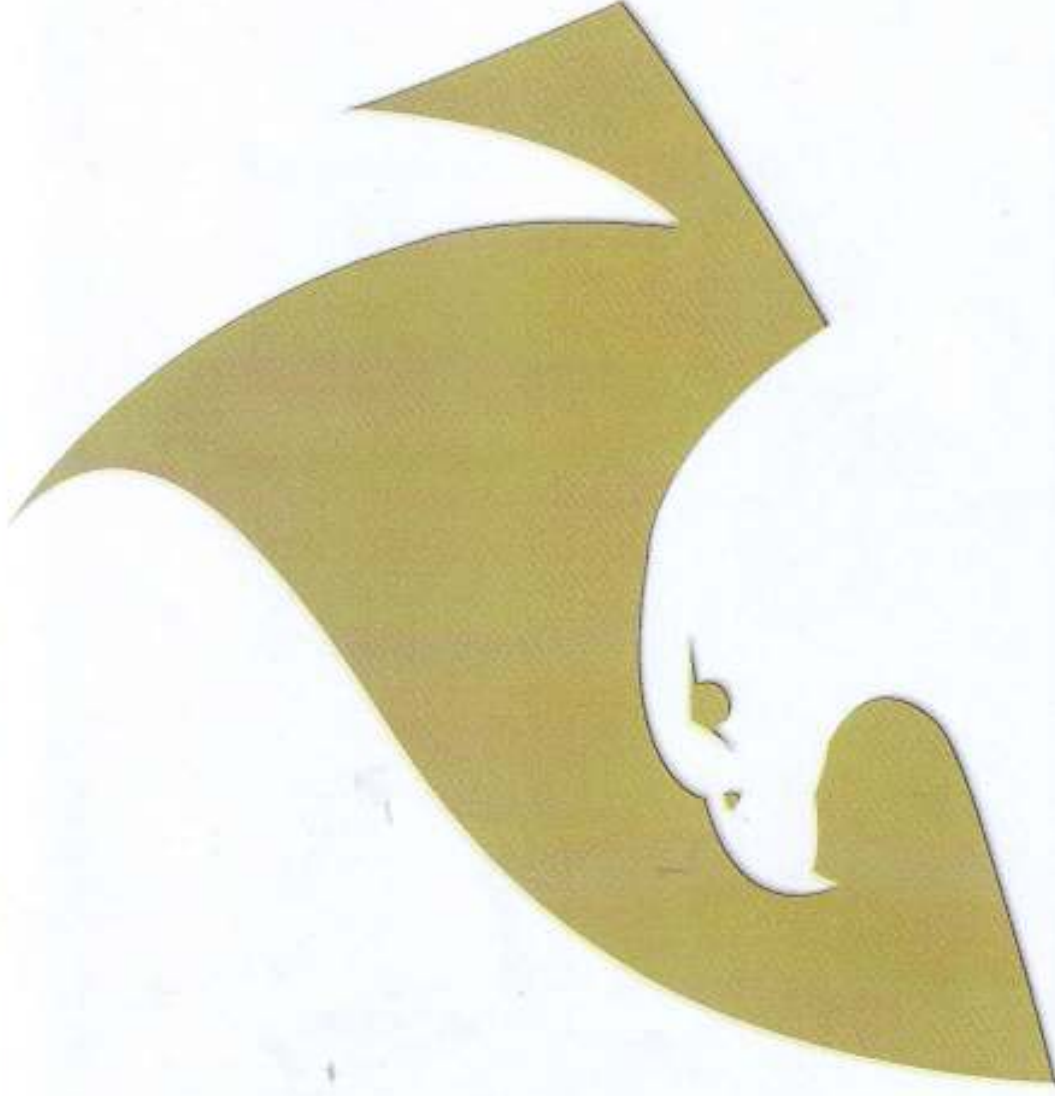


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& Company. Ultem is a registered trademark of General Electric Co.
PBI is a registered trademark of Celanese Corporation.

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3.00

Fireman Suit



"Saves Human Lives, Property and Environment"



BULL Dozer

FIRE FIGHTING GEAR

Designed to offer maximum performance with optimum safety



Ear Protection

Fire resistant,
heat and dust guard

Backplate

Anatomically shaped
backplate ensures
better distribution of
the mass and remains
steady when crouching
or crawling

Breathing Apparatus Cylinder

Variable Duration of
30-60 mins.
Can be fitted with
one or two cylinders with
diameter ranging from
1 to 170mm

Four way valve

Allows feeding a
second man or
connecting the
Breathing Apparatus
to an air line.

Trousers

Fire retardant
fabric; waterproof
steam-permeable
membrane
SOFITEX 2000,
warming up
unwoven fabric,
with lining.

Helmet

Fibreglass outer shell is more
resistant to chemicals and
stable at extreme temperatures.

Full Facemask

Panoramic full facepiece
fitted with preloaded
exhale valves

Unique Warning Device

A unique patented pressure
warning device inside the
demand valve.

Jacket

Fire retardant fabric;
fluorescent tape lining with
upper stripes for identification.

Gauge

Phosphorescent gauge with
contrasted warning zone from
50 to 0 Bar.

Gloves

Fire retardant, seamless
index finger for enhanced
dexterity & durability.

Boots

Vulcanized rubber upper/
rubber sole,
100% water proof
CE EN345 approved



THE CONSTRUCTION OF SPECIAL CLOTHING USP 2-2

1. The special fireman's clothing- pattern USP 2-2 is built of two layers- the outer layer and the detachable thermo isolating lining. A complete USP 2-2 outfit consists of a three quarter length jacket and trousers. It is marked with silver and yellow fluorescent bands and has signs reading "FIRE BRIGADE" (in the user's language) made by thermo print method or attached with Velcro strips at the front and the back of the jacket. It also has Velcro strips for attaching distinctions, unit emblems and names of towns (countries).
The jacket of special clothing covers the trousers to the length of minimum 30 cm.
2. The sleeves of the special clothing jacket are sewn in in a way allowing the user to lift their arms comfortably at an angle of more than 90° without visibly making the jacket go up;
 - they have elasticised wrists at the inside of sleeves (fabric 95% meta aramide, 5% para aramide, with an opening for a finger) fastened to the thermoisolating inset, with adjustable Velcro cuffs, enabling the user to regulate the wrist.
 - Stand-up, soft collar of jacket is protecting the throat with Velcro fastening (sealed with an additional strip of the external material).
 - Strong zipper with two sections, zipping off in the lower part. External fastening with metal naps or Velcro with additional Velcro strips between the naps.
 - In the lower part the jacket has two square internal pockets with Velcro fastening, designed to be waterproof.
 - In the upper part at the right side the jacket has a breast inset pocket for a communicating piece (zipped towards the arm). Below the pocket and the warning band there are two strips with loops and a special Velcro loop for fastening the additional equipment (signalling device, gloves).
3. The outer layer of the jacket is made of D 10/2/150-N, (Nr. 70/97),- 100% cotton (280 g/m2) non-inflammable finisz "PYROVATEX" (technology CIBA- GEIGE) made by "FROTEX" S.A. Poland (technical data, expertise results and certificates attached).
4. The inside layer of the jacket is a multi-stratum layer- steam- permeable fabric (membrane), and lining- and detached thermo isolating insert i.e. unwoven polyester fabric bipartitely coated with lining and quilted.
5. The lower inside hem of the outer layer of the jacket has a orange fluorescent strip. The aim of the strip is to optically signal the fact that the outfit is being used without the internal layer: when the thermo isolating inset is detached, the fluorescent strip falls down and is visible below the jacket's hem.
6. The internal and the external layers of the jacket are attached to one another with a system of naps, zippers and Velcro fastenings. In this case the layers should bear marks recommending that they be used jointly.
7. There is a double patch pocket in the lower part of the thermoisolating inset for a personal dressing.
8. The trousers of the special outfit have a raised waist-line, adjustable, with a multi-stratum thermo isolating layer (sewn and sealed) (membrane, knee reinforcement, lining) (as in the case of the jacket), with buttons at the waist-line.
 - The trousers have ribbon braces 4cm wide, and a suspending band fastened with adjustable snap clasps. The fly is fastened with a zipper. There are square pockets at knee-height, with Velcro fastening for an additional inlet and a special protection against cuts and other damage.

Broad straight legs comfortably fit over a boot's top, with side vents 30 cm long, zippered. The lower part of the legs is additionally strengthened with a layer of D10/2/150/N fabric.

9. The basic seam are made with big durability thread and strengthened with core thread. In order to make the outfit waterproof the seams of the thermo isolating inlet are taped over or sealed in a comparable way.
10. The internal elements of the jacket and the trousers (pockets, hems) are made of non-burning cotton PYROWATEX- D 10/2/150-N.
11. The "FIREBRIGADE" marks or other are made by thermo transfer or silk-screen printing technics with Velcro strips are made out in black against at fluorescent slow- burning fabric. The back mark, screen processed or thermo print technics, is attached to the jacket with Velcro strips along the whole perimeter above the warning bands. The "FIREBRIGADE" mark in front of the jacket in attached with Velcro on the left breast below the warning bands.
The "FIREBRIGADE" marks on the special clothing have the following dimensions:
Y front: fabric 5 x 15 cm, letter height 2.5 cm, length of the inscription 11 cm;
Y back: fabric 12 x 34 cm, letter height 7.7 cm

12. The warning bands consist in sewn-on silver and yellow slow burning fluorescent bands, 5 cm wide, in the following points of the outfit:
Y 10 cm from the bottom along the entire hem of the jacket;
Y 28 cm from the cuff seam around the sleeve
Y on the front and the back of the jacket below the neck;
Y 15 cm from the bottom hem around the legs;
Y warning bands (silver fluorescent, slow-burning)- have certificated of accordance with EN 471

The warning bands are sewn on with yellow non-flammable thread, double seam (the NOMEX-BST thread).

13. The Velcro strips for attaching the signs of function (position) unit, town, and possibly the town's heraldic arms, are sewn on to the jacket in places indicated by the user commissioning the outfit (the client).
14. In order to improve the mechanical durability of the outfit, the points most prone to damage have been strengthened with 42-point bolts, and a special sawing technique and special thread were used. There are 29 strengthening bolts in the jacket; 26 bolts in the trousers with a knee pocket (for inlets) with a vent; and 18 bolts in the trousers without the knee pocket and the vent.
15. Complete informative inserts- containing all the information required in PN-EN 340.

The outfit has been designed with the following ergonomic principles:

- Y the construction fabric and other materials should not have any negative influence on the user;
- Y The outfit should provide the user with both the required protection and the maximum possible comfort;
- Y those parts of the special outfit which have direct contact with the user's body should be devoid of any rough surfaces, sharp edges and protruding elements, which could cause excessive irritation or injuries;
- Y the cut of the special outfit facilities properly fitting it to the user's silhouette and takes into

consideration all the required functions related to the surrounding conditions and the range of movements and positions which may be taken by the user when performing his/her activities. The following solutions have been adopted to ensure this: adequate fastening systems and the possibility of separating the layers of the outfit (for conservation and for use in extraordinary situations); appropriate size; and fitting the outfit to the anatomy of the user.

A/ Each item of the clothing is marked directly on the product and may be additionally marked on tags attached to the product. The marks contain the following information:

- manufacture's name (possibly the name of the authorised agent);
- the trade mark of the product (symbol, code);
- the size (according to tables), indicated with graphic symbols pursuant to PN-EN340.

B/ The popular special clothing has information for the user in the user's language (enclosed in the package), containing:

- user's manual;
- limitations regarding the user;
- storage and conservation instructions.

All information is unequivocal.

C) Statement:

I hereby declare under oath that the application for the TEXTILE DE FRANCE INSTITUTE certificate (pursuant to Agreement No. 305 of 10 October 2000) has not been filed in any other entity accepting applications.

Jerzy Kamiński

D). Plant

E). Length of the special outfit usage cycle- up to wear out damage.

F/ Quality Control

- The internal quality control system in the P.P.H. "GO WEST" plant was approved and confirmed by an audit and agreement No 241/DC of 4 September with the Józef Tuliszkowski Certifying Unit of CNBOP (Scientific and Research Centre for Fire Protection) of monitoring the certificate of the standards for fireman's popular special outfit.
- P.P.H. "GO WEST" has signed an agreement of drawing up a quality system meeting the PN-ISO 9001/96 requirements to the certifying audit, consisting in training the personnel in the standards, in preparing the Quality Book, the Systems Procedures Book, the Instructions, methods of conducting audits and verifying the quality system documentation.
The ISO 9110 System is now being introduced in the plant. The certifying audit of the authorised entity (The Polish Centre for Testing and Certification) is planned for March pursuant to the agreement signed with the Certifying entity.

Certyfikat

of conformity

no. 9/2005

prolongation of certificate no 638/2000

Name and address of the certificate holder

**Zakłady Przemysłu Bawełnianego „FROTEX” S.A.
48-200 Prudnik, ul. Nyska 10**

Name and address of manufacturer

**Zakłady Przemysłu Bawełnianego „FROTEX” S.A.
48-200 Prudnik, ul. Nyska 10**

Name of product

Flame resistant clothing fabric

Type (varieties)

D10/2/150 N

Basic parameters and application

Cotton fabric flame-retarded of surface mass $(275 \pm 14) \text{ g/m}^2$.

Intended for the manufacture of protective clothing for workers exposed to heat.

SWW/PKWU: 1917-39156001/17.20.20-42.00

Product meets the requirements of:

- point 5.2, 6.2, 6.3, 6.4 PN-EN 531:1999 (EN 531:1995+A1:1998) „Protective clothing for workers exposed to heat”.
- point 4.2, 4.3.4 PN-EN 340:2004(U) (EN 340:2003) „Protective clothing. General requirements”.
- point 7.1 PN-EN 469:1998+A1:2003 (EN 469:1995) „Protective clothing for firefighters – Requirements and test methods for protective clothing for firefighting”.

In accordance with the report on testing performed by:

- Centralny Instytut Ochrony Pracy – Państwowy Instytut Badawczy, Zakład Ochron Osobistych, Łódź (the reports no. and date: 122/PB/2000/NO of 20.03.2000, Improvement/Supplement for the report 122/PB/2000/NO of 28.10.2002, 81/PB/2004/NO part II of 15.04.2004, 482/PB/2004/NO-A of 15.10.2004, 482/PB/2004/NO-B of 15.10.2004, 389/PB/2005/NO of 29.08.2005).
- Instytut Barwników i Produktów Organicznych, Laboratorium Badań Produktów, Procesów i Środowiska Zgierz (sprawozdanie nr i data: 10/LBS/48/G/05 of 29.06.2005)

Period of validity: **5 August 2005 – 4 August 2010**

*Head of the Centre for Certification of
Products and Management Systems*


Barbara Miareczko M. Sc.

Warsaw, 5 August 2005

The right to use the certificate of conformity within the period of its validity applies only to the items/batches of products which meet the requirements specified above and have the same properties (parameters) as the samples of products supplied for testing.

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4.00

Fireman Gloves



Saves Human Lives, Property and Environment



FIREMAN VI

SPECIFICATION FOR KNIT WRIST STYLE

THE GLOVE CORPORATION proudly
manufactures in the U.S.A. and is

ISO 9001:2000 COMPLIANT

DESCRIPTION: The glove is specifically designed and constructed for structural firefighting activities (Not NFPA approved). It is manufactured of material designed to withstand the effects of flame, heat, vapor, hazardous liquids, sharp objects and other hazards that are encountered during structural firefighting operations.

The gloves meets or exceed Federal OSHA (Occupational Safety and Health Standards), 29 CFR 1910.156 "Fire Brigades" (e) "Protective Clothing", (4) Hand Protection, Cal-OSHA 10.13407 Title 8.

DESIGN: Gold cowhide side split leather, gunn cut, wing thumb, and five-fingered glove. The back of glove has an elastic snigger band in the wrist area for secure fit. Side split cowhide leather welting is sewn on palm side of the two middle fingers for additional support. A side split cowhide leather patch is also sewn in the thumb crotch area to help alleviate stress of high wear. A continuous index finger construction is used to eliminate exposed seams or stitching. A leather hang-up loop is provided on inside of glove to facilitate drying and storage. This glove also has a Modacrylic liner made from SEF flame retardant material.

MATERIALS: The outer leather shell is gold side cowhide leather of not less than 3 oz not more than 3 ½ oz. Each glove is uniform in color. The welting is not be less than 3 oz nor more than 3 ½ oz. Our leather is tanned to resist cracking, peeling, and stiffening and is processed to reduce slipperiness when wet.

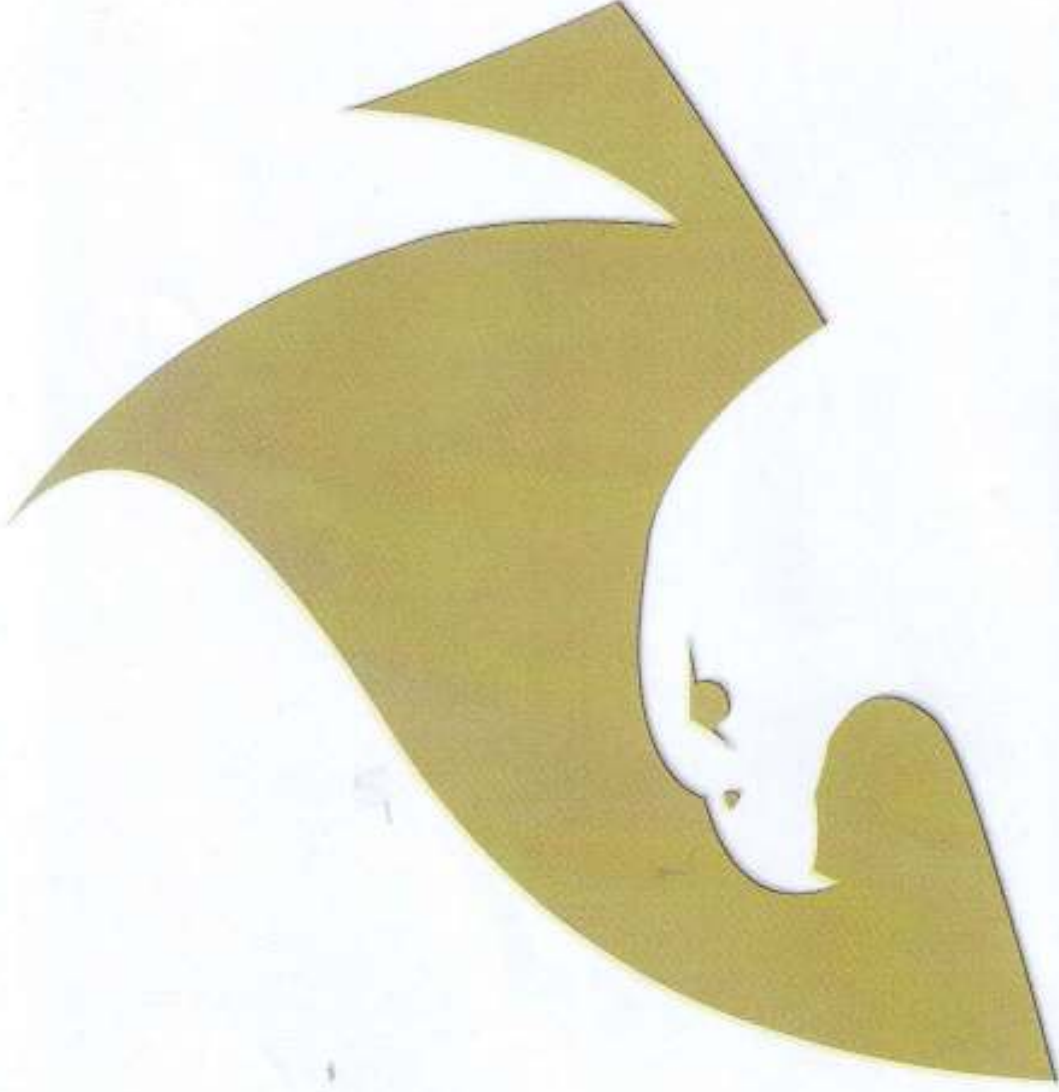
Liner The liner is made from SEF Modacrylic material that is 5.5oz and flame retardant.

CUFF: The wristlet style is made of 100% Kevlar material two ply, a minimum of 4" long. A leather pull patch to cover the inner wrist area is sewn to the wristlet to ensure ease of donning and to provide extra wrist protection.

STITCHING: All stitching is of heat resistant Kevlar 30/3 thread or equal with a minimum of 8 stitches per inch.

SIZING: The gloves are available in eight sizes: (cadet size small only), x-small, small, medium, large, x-large, 2x-large and 3x-large.

ORIGIN: Made in U.S.A

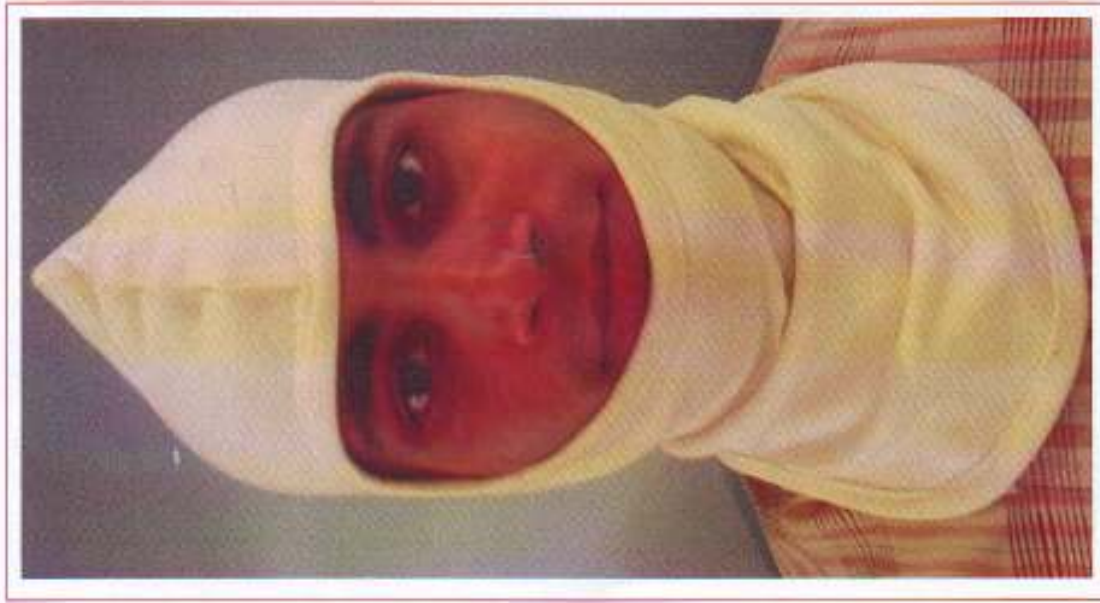


5.00

Fireman Hood



"Saves Human Lives, Property and Environment"



Protective Hoods That Go On Easy & Seal Tight
Features easy sealing face opening that fits snugly for maximum protection and keeps its shape even after repeated usage; elastic face opening stretches to 15" for easier donning. Flat seams won't dig and seamless chin area provide for added comfort. Full double layer head for better face and neck protection. Double back bib and front bib keeps hood from coming un tucked. One size fits all.