

# MORNING PRIDE HELMETS

Fire Helmet  
Supplier to  
New York  
City Since  
1996

Table of  
Contents ➔

**Project HEROES®**  
The PPE of the  
Future  
**AVAILABLE SOON!**

See Page 46.



Now  
Available  
with  
**NFPA  
1971,  
2007  
Edition  
EZ-Flips**



**MORNING PRIDE**  
PROTECTIVE HELMET SYSTEMS

**2008 CATALOG**

## Total Fire Group

Total Fire Group is a team of dedicated, experienced, fire service technical marketing professionals. We represent and own the leading products in the emergency, rescue and fire service fields, including Morning Pride Helmets, as well as clothing, boots, hoods, gloves, rehabilitation products and more.

## Mission Statement

To market unique, high-quality, value-in-use products with an emphasis on quality, innovation, integrity, safety and service.

## Background Information

You should also consult the Total Fire Group Reference Guide, available from our Customer Service Department, as you consider your choices in protective product. It offers important information on:

- NFPA, OSHA and international standards on protective gear and equipment.
- Recent research and the resulting implications for appropriate protective technology design.
- Details on available Level Payment Purchase, Quartermaster, Wear Life Warranty, and Complete Care Programs for our products – Total PPE.
- A full listing of available technical support personnel through Total Fire Group (including direct-dial numbers and e-mail addresses).

**TOTALFIREE-NEWS** Visit our website at [www.totalfiregroup.com](http://www.totalfiregroup.com) to subscribe to our quarterly newsletter on fire service happenings, new products, new studies, and new standards via our totally free *TotalFireE-News*.



Cover Photo by  
Michael J. Coppola  
[PublicSafetyPictures.com](http://PublicSafetyPictures.com)

Sepia Tone Historical  
Photographs supplied by  
Carillon Historical Park,  
Dayton, Ohio.

## Table of Contents

The Quality System for Morning Pride Helmets is certified to ISO 9001:2000 NFPA 1851 Structural and Proximity PPE Selection, Care and Maintenance DVD...Please See Price List Page

### Morning Pride Helmet Unique Advantages

Introduction	1
Firefighter Managed and Operated	2
State-of-the-Art Manufacturing Facilities	2
Bloodborne Pathogen Resistant Interface Capability (BPR)	3
Multiple End User Contracts	3
Advanced Protective Tracking (APT) System	4-7
NFPA 1851 Support Services	8-15

### Five Operational Models

Structural – Proximity – Technical Rescue and Recovery/Utility – Wildland – EMS	16
---	----

### Standard Configurations

#### Styling

Ben 2 Plus Traditional – Lite Force Plus Modern – Proximity Plus Traditional and Modern – Heavy Duty Technical Rescue and Recovery/Utility – Lightweight Technical Rescue Recovery/Utility Front Brim and Full Brim – Wildland Front Brim and Full Brim – EMS Front Brim	17
--	----

### Design Advantages

Structural, Proximity, and Heavy Duty Technical Rescue and Recovery/Utility	18-39
Proximity	40
Lightweight Technical Rescue and Recovery/Utility, Wildland and EMS	41

### Structural Quick Delivery Advantages

#### Shell Material Advantages – All Models

FYR-Glass Shell Technology Products	44
Thermo-FYR Injection Molded Shell Technology	44
Poly-Med Injection Molded Shell Technology	44

### NFPA 1971, 2007 Edition Changes – A Recap

### Project HEROES® and the NFPA 1971 CBRN Option

## PRODUCT LINE BY MODELS – “HOW TO BUILD YOUR HELMET”

### Structural

Ben 2 Plus Traditional – Required Components	47-48
Optional Accessories	48
Optional Fronts	49-52
Lite Force Plus Modern – Required Components	53-54
Optional Accessories	54
Optional Fronts	55

### Proximity

Traditional and Modern – Required Components	56
Optional Accessories	56
Aluminized Products Cleaning and Care Instructions	57

### Technical Rescue

Heavy Duty – Required Components	58
Optional Accessories	59
Optional Fronts	60
Lightweight – Front Brim and Full Brim – Required Components	61
Optional Accessories	61-62
Optional Fronts	63

### Wildland

Front Brim and Full Brim – Required Components	61
Optional Accessories	61-62
Optional Fronts	63

### EMS

Front Brim – Required Components	61
Optional Accessories	61-62
Optional Fronts	63

### Auxiliary Helmet Products

### Fire Service Organizational Affiliations

Contact Us →

### Compare Before You Buy!

Many times, departments specify brands because they are familiar with them and because a trusted dealer has that brand to offer. We understand this. But when it comes to field test victories, the number of innovative patents held, the number of departments converted and the number of research grants issued, none of our competitors comes close. And our lead continues to grow.

If you are using our products, you know how ridiculous some of our competitors' sales hype can be. We urge you to "Compare Before You Buy." Don't just believe our competitors' sales pitch. In fact, don't believe ours! Make US put our products where our mouths are, make us PROVE our superiority by field testing our products.

Catalogs: For a comprehensive list of all of our products and the unique safety, comfort, and technological advantages, please see our Total Fire Group catalogs, price lists and Reference Guide available in printed book format, as well as on a single convenient CD in pdf format. They may also be downloaded from our website ([www.totalfiregroup.com](http://www.totalfiregroup.com)).

Fire Department Presentations and Local and Regional Seminars: In some cases, just reading, understanding, and then comparing our products' unique advantages is enough, while other products require a hands-on demonstration to truly appreciate their superiority. Along with your local dealers, we sponsor cost-free, hands-on demonstrations and regional seminars. When we demonstrate for you the comfort and quality of our products, and show you the features that make Total Fire Group the most protective in the industry, you'll quickly realize that you can't continue to work without them. And, we'll show you how affordable the best really is. It isn't necessary to accept less than the best, and we'll be glad to show you how. But don't take our word for it...let us supply you with the facts, case studies and references from other fire departments that refuse to buy less than the best. Contact us today for a presentation in your fire station or for information on seminars in your area.

### No- or Low-cost Field Test Program

Since 1985, Morning Pride has developed and delivered leading edge technology in fire helmets culminating in the next generation plus Series of Ben and Lite Force Structural and Proximity helmets, and an exciting new full series of Technical Rescue, Wildland and EMS lines. But again, Morning Pride does not ask you to accept our word on the superiority of our products. Our competitively unparalleled field test program allows you to verify the superb performance of Morning Pride helmets for yourself. Both no- and low-cost field test programs can be arranged by contacting our Customer Service Department. Morning

Pride's performance advantages are so clear cut, that we have won almost every major comparative and competitive field test since 1996.

### Factory Support and Service

With a team of more than a dozen product experts in the field (most of whom are firefighters) and an inside marketing team of more than 20, Total Fire Group is here when you need us. Whether you need a presentation at your department, quick lab work, or help with specifications, Total Fire Group is always ready to serve you. Our team of dedicated professionals offers you immediate access to answer your questions and provide you with any and all information at our disposal.

### Selection

Morning Pride customers also benefit from our unparalleled selection of full line helmet products. Today's modern fire service can now meet all of their operational needs from our selection of Structural, Proximity, Technical Rescue, Wildland, and EMS helmets. Dozens of choices and options in eye face protection, trim packages, ear covers and shrouds, leather fronts, and even hearing protection (on some models) let you customize your helmets to meet your specific needs and desires.

### Delivery

Inventory depth allows Total Fire Group to fill most orders very quickly. To keep pace with demand, we manufacture thousands of shells per run for each model, and do so on a frequent basis for maximum availability and selection. We stock literally hundreds of thousands of parts to ensure quick turnaround, even on highly customized specifications, and use our state-of-the-art garment cutting and sewing facility to support sub-components, like ear covers and shrouds, in most any fabric or color you could want.

### Warranty

Morning Pride offers the best warranty in the business. Morning Pride shall guarantee the helmets to be free from any defects in material or workmanship for the life of the product. In addition, Morning Pride guarantees composite shells for 5 years and thermoplastic shells for 3 years from the date of delivery, should it wear out or be damaged during normal fire fighting and/or training activities. This warranty excludes helmets or parts that are "lost" due to acts of nature or negligence.

Additionally, we now offer a 5-Year Wear Life Warranty on major components of the helmet, including free repairs if NFPA 1851 required Advanced Cleanings and Inspections are done at approved facilities. For further details, including clarifications and limitations, please see pages 14-15.



## Certification

Morning Pride helmet models are tested and certified to NFPA performance requirements (and other standards where applicable) by the Underwriters Laboratories Inc.



Certified Models

## Firefighter Managed and Operated

Total Fire Group is managed and operated by an active member of the fire service, and a large percentage of our staff are firefighters/EMS/first responders. As a result, we have a special dedication to the total satisfaction of our customers. We feel that this dedication, which reflects itself in every phase of our operation, is the reason that we have risen to market dominance. Firefighters have always been best at taking care of firefighters, and Total Fire Group is proud to continue that great tradition.



**Bill Grilliot**  
President, CEO



**Jack Reilly**  
VP Metro Accounts  
and FDNY Operations



**Barry Borkowski**  
VP Canadian  
Operations



**Jim Walter**  
VP Technical  
Marketing



**Bob Morgan**  
VP Olathe  
Production



**John Price**  
Director Metro  
Accounts, Special  
Projects



**Doug Sloan**  
Senior Director of  
Special Projects  
Metro Accounts



**Bobby West**  
Field Customer Service  
and FDNY Operations



**Will Grilliot**  
VP Dayton  
Production



**Stephanie Pressley**  
Olathe  
Customer Service



**Patrick Murty**  
Midwest U.S.  
Senior Regional Director



**Brian Blinn**  
Senior Sales Director  
Western U.S. Regions



**Keith McDonald**  
Central U.S.  
Regional Director



**Greg Neff**  
Purchasing Manager



**Teri Hyre**  
Conference and  
Exhibit Coordinator



**Doug Topliffe**  
Canadian Customer  
Service Manager



**Dave Gallagher**  
Thermal Imaging  
Technical Rep



**Jeff Gallagher**  
Thermal Imaging  
Technical Rep



**Scott Sanders**  
Thermal Imaging  
Technical Rep



**Rich Higgins**  
Regional Marketing  
Specialist

## State-of-the-Art Manufacturing Facilities

### Shell Production

FYR-Glass Structural, Proximity and Heavy Duty Technical Rescue shells are produced on 100-ton presses at over 1,000 psi, providing the most durable, molded true color throughout shells, Thermo-FYR (Lightweight Technical Rescue and Wildland) and Poly-Med EMS shells are injection molded by skilled

operators running our specially chosen formulas on state-of-the-art equipment.



### Specially Automated Processes

Wherever and whenever possible, automated processes were adapted or created to increase production efficiency and quality. We utilize automatic ribbon cutting machines for cutting webbing, chinstraps and edge beading; custom built drilling jigs; a computer-operated cutting table for ear covers, shrouds and helmet covers; custom-built electronic welding of EMS overhead strap assemblies, and automated edge beading operation. At Morning Pride we invest in the technology to bring you the superior products you deserve and expect for decades to come.

### Skilled Assemblers and Support Crew

Automated processes are fine, but when it comes down to the final assembly of your Morning Pride helmet, there is no substitute for the hands of a skilled and properly trained assembler. At our Dayton campus, each helmet is built to its own set of specific instructions and each helmet is provided with an individualized serial number and barcode for proper tracking in the factory and in the field. Helmet manufacturing support staff keeps each helmet's selected parts flowing into and out of the assembly operation through final inspection and packaging, where each box is individually labeled, then processed straight to shipping each day.



### ISO 9001:2000 Quality Assurance

When it comes to manufacturing, the international standard of Quality Assurance is ISO 9001:2000, which is also an NFPA requirement. Morning Pride meets, and is third party registered to ISO 9001: 2000. Combined with separate third party certification to NFPA 1971, 1951 and 1977 performance requirements by UL, Morning Pride provides a continuous cycle of quality assurance from the moment the first part is made until you open the box and put the helmet to use.

## Morning Pride Helmet Bloodborne Pathogen Resistant Interface Capability (BPR)

A requirement in protective gear is for systems that provide protection against bloodborne pathogens (like the HIV and Hepatitis B viruses). As the detailed discussion in the Total Fire Group Reference Guide suggests, the OSHA Bloodborne Pathogen Standard seems to REQUIRE just such protection for firefighters and EMS workers. Total Fire Group was the first company to offer a full line of interface-capable and certified bloodborne pathogen resistant fire fighting helmets (with other BPR components). Total Fire Group is also the first company to offer interface-capable and certified systems. At the time this catalog was printed, we were the ONLY company offering this interface level of protection for the fire service.

### Morning Pride BPR Tested as Actually Worn

Meets OSHA intent for full body protection.

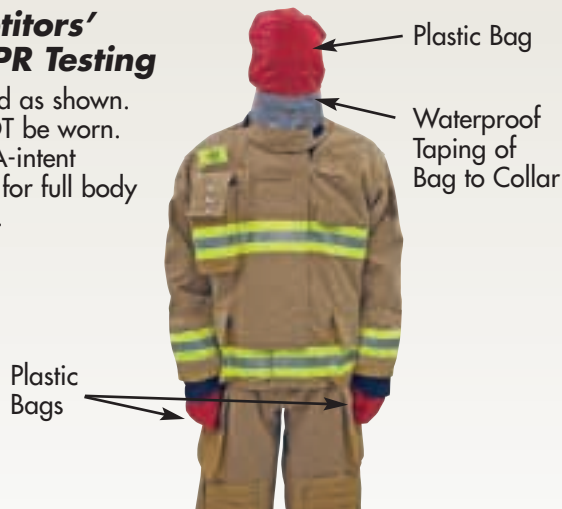
All Morning Pride helmets offer bloodborne pathogen resistant interface capabilities (when worn with other BPR elements) as defined by NFPA 1971 Viral Penetration Resistance Test and shower test protocols, without taping or plastic bags (see picture at right) but as worn.



**As We Test**

### Competitors' Non-BPR Testing

Only tested as shown.  
Could NOT be worn.  
Not OSHA-intent  
compliant for full body  
protection.



**As Our Competitors Test**

## BPR Required Features

### For Ben 2 Plus, Lite Force Plus, EMS and Technical Rescue Helmets

Outfitting your Morning Pride helmet to provide BPR capability couldn't be easier. Specially constructed ear covers with NFPA certified moisture barrier material and proper wraparound faceshield protection must be utilized with appropriate interface-capable coat collars. Helmets with goggles or EZ-Flips cannot be certified as interface capable.



**BPR**



**HDO (Head Only)**

## Multiple End User Contracts

Many times, personal protective gear is available to departments without going to bid, no matter what the dollar value or the quantity. Throughout the country, Total Fire Group and its distributors often participate in what would be classified as Multiple End User Contracts. Generally, these types of contracts fall into the following categories:

1. Statewide Contracts: In some parts of the country, the state government will arrange for bids for certain firefighters' PPE items. There are contracts that include a "Good, Better or Best" type of product selection, or a "discount from manufacturer's retail," allowing access to entire product lines. MA, MS, NJ, NY, OH and PA currently have full statewide contracts, while other states have only certain items available.
2. Add-on Contracts: In every state we have researched, there is a provision in the law that allows one political subdivision within the state, often including state agencies, to purchase off of any other political subdivision's legally awarded bids. Often our products' bid will include a discount from retail that allows the department that adds-on (commonly called piggybacking) to select the brand and model that suits them best.
3. General Services Administration (GSA) Municipal Use: Although mostly a military/federal convenience, civilian departments may also qualify to purchase through the GSA system. If you are interested, we will research it for your fire department.
4. Military Customers: Total Fire Group works with key and/or prime vendors to maintain full service GSA and Preferred Vendor programs for military customers.

Contact your Total Fire Group regional team for more information on the four items above or to discuss how we may assist your department in any other way.



## Total Fire Group Advanced Protective Tracking System Proven Superior to Other Programs...

Most or all Total Fire Group products in this catalog are automatically barcoded during manufacturing to allow use of the Advanced Protective Tracking (APT) program.

**APT – Designed to simplify the NFPA 1851 reporting and tracking requirements**

### APT programming is essentially free to our customers...

The APT program is essentially a free service (please see the price list for details) offered to Total Fire Group customers allowing them to effectively track their PPE inventory (or any other asset). Unlike competitive tracking programs, it is not a profit center for Total Fire Group. Many departments with mature tracking systems and departments using tracking systems from for-profit providers have switched to APT, either for free, or for a few hundred dollars to purchase needed computer equipment. In other cases, APT has filled gaps left by competitive systems. Even more importantly, almost every department that has compared the various tracking systems now on the market has **STRONGLY** preferred the flexibility and firefighter friendliness of the APT system (even ignoring the cost advantage).

This hugely expensive program is offered for disk out-of-pocket cost to our customers because it highlights, inarguably, comparative brand product life cycles and hence comparative life cycle cost effectiveness of these brands. The high quality levels, superior construction and design excellence of our products have always allowed us to offer better life cycle value. The precise recordkeeping allowed by the APT program allows us to prove those advantages. We are eager to see all fire departments effectively track the life cycle comparative costs of our products versus the competition. Hence, our decision to provide this program at essentially no out-of-pocket cost to our customers.

### Why are departments turning to asset management systems like APT now?

There are a number of reasons that fire departments today are moving quickly to asset tracking systems:

#1-NFPA 1851, 2008 edition, imposes significant recordkeeping responsibilities on fire departments. APT makes NFPA 1851 compliance foolproof and almost effortless.

In early 2001, in response to numerous studies showing that improperly cleaned and maintained PPE may be contributing to firefighter injuries and illnesses, NFPA first issued NFPA 1851 on *Selection, Care and Maintenance of Structural Fire Fighting Protective Ensembles*. It was re-issued in June 2007 as NFPA 1851 *Standard on Selection, Care and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting*, 2008 Edition. This document requires departments to implement standardized routine, advanced and specialized procedures for inspections, cleanings and repairs. All repairs, cleanings and inspections must occur at specified intervals (usually annually) and those events must be recorded in some type of tracking system (to ensure they have indeed occurred). Specifically, NFPA 1851 requires the following information be recorded for all PPE elements (individual coats, pants, gloves, hoods, boots, and helmets):

1. Person to whom protective element is issued (or re-issued)
2. Date of issue(s)
3. Manufacturer
4. Model name, number or design
5. ID #, lot #, or serial number
6. Month and year of manufacture
7. Dates and findings of inspections
8. Dates cleaned or decontaminated
9. Reason for cleaning/decontamination
10. Who cleaned/decontaminated
11. Dates of repair
12. Who performed the repairs
13. Description of the repairs
14. The person authorizing serviceability
15. Date of retirement
16. Date and method of disposal

While keeping this detail of information would be prohibitively burdensome and expensive in a manual or self administered system, a properly designed asset tracking system like APT makes the process easy, convenient and reliable.

And, of course, with proper recordkeeping, the proper care of PPE elements occur and the challenge to firefighter health and safety, which has been identified in improperly cleaned or maintained PPE, is minimized, so the goal of NFPA 1851 is certainly a worthwhile one.

#2-PPE is a huge investment for today's fire departments and must, legally, be accounted for properly. Many municipalities have implemented mayoral decrees or executive orders requiring barcoding and effective tracking systems.

APT is extremely flexible with an easily accessible interactive database that can be easily used to generate any municipally required reporting, as well as the NFPA 1851 reporting.

#3-We live in an increasingly litigious society. In the tragic event of an injury, the detailed life history of the PPE elements often become critical information.

Again because of APT's flexibility and easily accessible interactive database, the program can be custom queried to provide almost any life cycle information that is needed in a particular situation.



#4-With more comprehensive information, more informed PPE decisions can be made and justified.

To guide proper and informed department decisions, APT allows the easy, irrefutable and well-presented accumulation of tremendous amounts of detailed data on any key PPE element issue. For instance, during the budget process, APT could be queried to determine how many helmets are older than 5 years of age to approximate budget required for replacement funding. As another example, if the department is considering adding a particular or different reinforcement to some PPE element, APT could be queried to determine repair costs in that particular helmet area over the last year or two (to help determine if the change was needed or justifiable).

## Why is APT better than the other tracking programs on the market today?

- We have already established that APT is not a profit center for Total Fire Group. Instead, it is offered essentially free of charge to allow departments to isolate FOR THEMSELVES the durability and life cycle cost advantages of the Total Fire Group product lines.
- Since APT is not a profit center for us, there are no hidden programming keys which departments must buy to enable them to customize the programs for their needs. Other leading fire service tracking programs have been full of such keys, which effectively means that all new report generation or refinement comes with hefty fees to pay for vendor-supplied programming. APT is Microsoft Access based and is completely open to fire department programming (many, if not most, departments have individuals with Access background or can easily arrange courses. Total Fire Group will also help familiarize department personnel with easy programming changes).
- APT programming support is also available through Total Fire Group at extremely nominal, if any, charges. Programming support is provided at no charge on the basic (i.e. non-customized) APT start-up for all Total Fire Group customers allowing NFPA 1851 compliance. Our programmers can access your equipment via our Virtual On-Site Support through the internet or can talk you through the process. For more advanced program customizations, our programmers can help at their lower-than-market cost, out-of-pocket hourly fee (see our price list for details). Even the more advanced customization charges are often waived when larger ticket per item Total Fire Group products are used by the department. In contrast, every support service on major competitive tracking programs are PER FEE (and the fees are large and add up quickly).
- APT utilizes the Uniform & Textile Service Association's recommended interleaved 2 of 5 barcode symbology, while major competitive tracking programs on the market utilize a far more problematical 2-dimensional barcode symbology. The 2-dimensional barcode systems were developed primarily for clean environments where database memory is not immediately available (for example, personnel accountability programs). The interleaved 2 of 5 barcode system is preferred by essentially all major industrial cleaners because it offers the following strong advantages:



A variety of customized reports are available through APT.

- It is exceptionally readable. All APT product barcodes are printed on high heat material, placed on the inside of the product and not exposed to direct flames.
- It is functional even with heavy soiling. This, of course, is a key advantage for fire service protective equipment that is often heavily soiled on the fireground. The problem is so pressing **with the 2-dimensional barcoding, used in major competitive systems, the products must be re-barcoded with every major event** (for example, cleaning, repairs, inspection, etc.). So clean barcodes are being constantly re-applied (with the expense and hassle that implies) to assure continued readability. In contrast, the interleaved 2 of 5 symbology utilized in APT is a one-time barcode application that remains readable throughout the life of the product.
- It can be read with the most cost effective and durable scanners on the market. Total Fire Group can assist any department in acquiring or locating a convenient source for such a scanner. In contrast, **the 2-dimensional barcode systems utilized in major competitive systems, require far more fragile scanners that are typically far more expensive and far less purchase accessible.**
- Most industrial cleaners now use APT as well as interleaved 2 of 5 symbology. In contrast, the 2-dimensional barcodes used in major competitive tracking systems are less likely to be readable by their systems. Industrial cleaners must actually ignore the competitive 2-dimensional barcodes and re-barcode (at the expense and time implied) to interface with their systems. All the fire service cleaners we are currently aware of are presently qualified and utilizing APT, having adopted APT as the industry standard.

APT Continues...



Table of  
Contents

Contact Us



# MORNING PRIDE HELMET UNIQUE ADVANTAGES

APT Continued...

- APT uses a completely interactive and flexible database that allows almost unlimited custom tuning for reports and queries. The program will respond to multi-level discriminators (for example, number of members in Battalion 46 with helmets older than 3 years, with repair costs exceeding some dollar figure in the last year). This data manipulation allows exceptionally customizable reporting with a minimum of actual programming time. **In contrast, major competitive programs require extensive programming, and have used hidden keys discussed previously, for anything but the most basic reporting or queries.**

## The Levels of APT

There are basically four levels of usage for the APT Barcoding system. A department can begin at one level and eventually progress upward to another level of APT, since each ensuing level includes and builds upon the previous levels:

**Level #1 Tracking** – Visual use of the permanent, human-readable sizing and serial numbering.

**Level #2 Tracking** – Level #1 tracking **plus** APT program used on new PPE product (that comes from factory with APT barcode installed).

**Level #3 Tracking** – Level #2 tracking **plus** barcode retrofit capabilities for existing department stock (so that existing stock can be tracked in the same database as the new stock arriving barcoded).

**Level #4 Tracking** – Level #3 tracking **plus** programming to allow “hooks” into other existing commercial asset management programs, such as those designed specifically for personnel management or rolling stock.

Each of the levels of APT is discussed in more detail in the paragraphs that follow.

### Level #1 Tracking

**Visual use of the permanent, human readable serial numbering**

The standard barcode label will allow much easier human read of serial numbers. It will allow auto read and list print out with over-the-counter barcode readers and simple barcode list programs available through any good office supply store (with this approach, only the barcoded product is purchased from Total Fire Group).

### Level #2 Tracking

**Level #1 tracking plus APT program used on new PPE product (that comes from factory with APT barcode installed)**

For departments wishing to manage a new (factory barcoded) stock of protective product, we offer the comprehensive Total Fire Group tracking program.

## How does APT work?

This program is provided as a CD with complete documentation on disk. Specifications are available to allow automated import of personnel information for the start-up base or as new hires or transfers are made. If you can provide this personnel data in appropriate form, we will even input it for you. Contact your Total Fire Group Inside

Marketing Associate for further information (go to our website [www.totalfiregroup.com](http://www.totalfiregroup.com) (click on Contact Us, then your region on the map). Once the personnel data is auto input, the member's file is accessed and a barcode reader scan of the new product “assigns” it to him or her. The reader scan ensures that only completely accurate product serial numbering and sizing is recorded in the member's file (as opposed to human input where errors can and do occur). At every future event in the product's life (cleaning, repairs, condemnation, etc.), the event is picked from a screen menu and the barcode label is scanned with a barcode reader to automatically and accurately update the history of that product. Unlike some other systems, you do NOT need to re-barcode label the product after each event. The history is maintained on the interactive database, not on the product itself.

## What kind of information will APT allow me to generate?

The tracking program allows for the creation of a completely interactive database to allow easy management information generation. These are the kinds of questions that APT can easily answer for you:

### Which garments (and who they are assigned to) have not been cleaned within the last six months?

This inquiry would allow you (with a keystroke) to isolate any garments that have not been cleaned at least semi-annually as required by both NFPA 1500 Fire Department OSHA Program and NFPA 1851 on cleaning and care.

### Which helmets (and who they are assigned to) are older than 5 (or 6 or 7 or whatever) years of age?

This would allow you (again with a keystroke) to estimate the cost of replacing helmets of a certain age within your department.

### What is the history of a particular boot pair (serial number, date of issue, members assigned to it, number/date of repairs, number/date of cleanings, date retired, etc.)?

This type of information would be important in the event of an injury.

### What is the total inventory of product assigned to a particular member?

This would ensure that, at retirement or termination, all department resources are recovered.

### What are the quantity of products condemned for wear in a given period?

This would allow you to determine the durability and stage in wear life of your helmets.

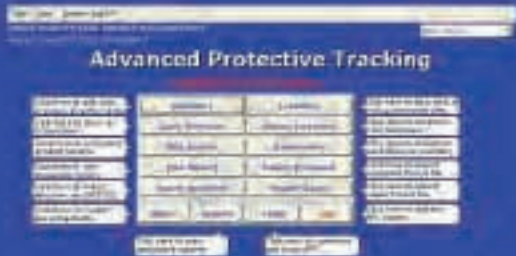
### How are garments made in May of 2004 holding up?

This type of inquiry would be used if you note premature wear or some other problem on a particular garment (or a particular shipment, or new type of material, etc.) and would be used to both highlight problems, suggest causes and hence fixes.

### What is our total inventory of protective products?

This would allow you a full record for insurance and inventory purposes.

- Any of these reports can be generated department-wide or by sub-department units (divisions, battalions, etc.) to show comparative performance.



Main Menu: Enjoy a user-friendly interface accompanied by powerful PPE management tools.



Personnel Detail Screen: Easily view detailed personnel information and the inventory issued to them.



Inventory Detail Screen: Always have the answers about your PPE at your fingertips.

**Note: APT has been designed to interface seamlessly with the full management Total PPE type programs discussed in the Total Fire Group Reference Guide available from our Customer Service Department and on our website [www.totalfiregroup.com](http://www.totalfiregroup.com).**

- You can also quickly make lists of products (for instance, garments being shipped for repair or held in a loaner pool, etc.) by simply reading their barcodes and asking for a list printout.
- There are extensive note fields to allow retention of unique information in each record.
- Department-specific inventory curves can be created based on item sizes to assist in ordering replacement stock.

#### **What hardware do I need to use Level #2 APT?**

- Pentium III or AMD Athlar Computer or above (laptop recommended for portability)
- 256 MB RAM minimum, 512 MB recommended
- 50 MB Hard Drive space for system installation
- Up to 500 MB Hard Drive space for data, depending on number of assets tracked
- Windows 2000 or higher
- CD-ROM Drive
- Printer for Reports
- High speed internet connection for Virtual On-Site Support

### **Level #3 Tracking**

**Level #2 tracking plus barcode retrofit capabilities for existing department stock (so that existing stock can be tracked in the same database as the new stock arriving barcoded).**

A retrofit kit is also available to create and apply barcode labels for existing, older products not barcoded at the factory. This kit includes a printer, label printing software, labels, ribbons and equipment needed to apply the labels. Please call for a quote. Again, we will only assess the out-of-pocket cost, and departments will have the option of buying the products direct from their computer supply house or through us. Technical barcode retrofit experts will be available for telephone consultation during normal business hours for departments considering this approach.

An alternative approach is to return product for factory barcode retrofit (please contact our Customer Service Department to schedule such services). A more expensive alternative is to request a quote to have a Total Fire Group team travel to your city and barcode existing stock. Again, we will only assess out-of-pocket costs, but because of the high cost of traveling, this approach is usually only cost effective for larger departments.

### **Level #4 Tracking**

**Level #3 tracking plus programming to allow “hooks” into other existing commercial asset management programs, such as those designed specifically for personnel management or rolling stock.**

APT has been designed with “hooks” into existing commercial asset management programs for other fire department assets (trucks, tools, etc.). The software has user-defined fields to allow for such information as condition code, last inspection date, next inspection due date, etc. Also available are portable data terminals to conduct inventories of assets at remote locations and upload the information into the master database. Please call to describe your exact needs so we can provide a custom quote.

### **APT Training and Support Resources Expanded**

As predicted, APT has become the industry standard. We now offer these value-added benefits:

- A comprehensive, easy-to-use, self implementing User Guide
- Virtual On-Site Support
- APT programmers have scheduled office hours for calls
- APT programmers attend all major trade shows for consultation and training
- A full-time program administrator for larger in-department APT programs
- Individualized, on-site department visits by APT programmers
- Travel or specialized/customized programming support provided at cost

For details, contact the Regional Director or Inside Marketing Associate for your area.



**Table of Contents**

**Contact Us**



## NFPA 1851, 2008 Edition Support Services

### The 2008 Edition of NFPA 1851 changes the education, maintenance and care requirements for Protective Ensembles for Structural and Proximity Fire Fighting

The 2008 edition of NFPA 1851, Selection, Care, and Maintenance of Protective Ensembles for Structural and Proximity Fire Fighting is now in effect.

Whether you were familiar with the earlier 2001 edition care document or not, you will need to familiarize yourself with this 2008 edition document. While it may initially appear to impose significant new requirements, please bear in mind that:

- We offer extensive support materials and services, at no- or low-charge, to assist our customers with complying and understanding the document.
  - Compliance to the document should significantly improve firefighter health and safety since effective cleaning and care should minimize firefighter contact with the toxins that are found at almost every fire.
- So, while a new challenge, most feel the benefits well warrant the attention required.



### NFPA 1851 Courses

*Note: Classes can be taught in sequence or in combination for some time savings. Your dealer or our staff will assist you in arranging efficient class organization.*

Course No	PPE Element	Approx Hrs	Course Description – Details Follow by Class
1851-CL-101*	Clothing	2	Basic Introduction of 1851 Clothing Requirements
1851-CL-102*		2	Clothing Plan, Record Keeping & Routine Cleaning and Inspection
1851-CL-201**		1	Advanced Clothing Inspection
1851-CL-202**		1	Advanced Clothing Cleaning
1851-CL-301**		8	Basic Clothing Repairs – Pre-requisite Stitching Skills
1851-CL-401**		16	Advanced Clothing Repairs – Pre-requisite Stitching Skills
1851-HT-101*	Helmets	1	Basic Introduction of 1851 Helmet Requirements
1851-HT-102*		1	Helmet Plan, Record Keeping & Routine Cleaning and Inspection
1851-HT-201**		1/2	Advanced Helmet Inspection
1851-HT-202**		1/2	Advanced Helmet Cleaning
1851-HT-301**		1/2	Helmet Repair
1851-GL-101*	Gloves	1	Basic Introduction of 1851 Glove Requirements
1851-GL-102*		1	Glove Plan, Record Keeping & Routine Cleaning and Inspection
1851-GL-201**		1/2	Advanced Glove Inspection
1851-GL-202**		1/2	Advanced Glove Cleaning
1851-GL-301**		1/2	Glove Repair – Pre-requisite Stitching Skills
1851-HD-101*	Hoods	1	Basic Introduction of 1851 Hood Requirements
1851-HD-102*		1	Hood Plan, Record Keeping & Routine Cleaning and Inspection
1851-HD-201**		1/2	Advanced Hoods Inspection
1851-HD-202**		1/2	Advanced Hood Cleaning
1851-HD-301**		1/2	Hood Repair – Pre-requisite Stitching Skills
1851-BT-101*	Boots	1	Basic Introduction of 1851 Boot Requirements
1851-BT-102*		1	Boot Plan, Record Keeping & Routine Cleaning and Inspection
1851-BT-201**		1/2	Advanced Boot Inspection
1851-BT-201**		1/2	Advanced Boot Cleaning
1851-BT-301**		1/2	Boot Repair

\*Topics for All Firefighters

\*\*Topics for, at Least, PPE Managers

## What does NFPA 1851 specifically impose?

- Routine cleaning and inspection after every soiling/use
- Advanced cleaning and inspection at least annually (very precise definitions apply of what operations/testing is required)
- Detailed record keeping
- Specialized cleaning when required (again, very precise definitions apply of what is required)
- Manufacturer training on all NFPA 1851 issues or training by an Independent Service Provider (ISP) trained and approved by the manufacturer
- Mandatory retirement of all 10-year-old or older PPE (Personal Protective Equipment which includes coats, pants, suspenders, helmets, gloves, hoods and boots)

See the Total Fire Group Reference Guide for full details on these NFPA 1851 requirements, here we describe the classes and other services available to help you meet the detailed NFPA 1851 requirements (not what the requirements themselves are). One important note. Unlike most NFPA Standards which are grandfathered, NFPA 1851 requirements apply to ALL your Structural and Proximity PPE regardless of age (new OR OLD PPE products are covered).

### Some Key Points:

1. ALL 1851 advanced inspections, cleanings, basic repairs and advanced repairs training must be provided by the element manufacturer and/or an Independent Service Provider (ISP) trained by the manufacturer. We cannot train ISPs and fire departments on other manufacturers' PPE and only Total Fire Group can train/approve training on our PPE. Other manufacturers or ISPs not listed on our website as approved, are flatly incorrect if they report themselves as approved/capable of providing NFPA 1851 training on our products. WE ASK YOU TO REPORT ANY SUCH REPRESENTATIONS TO US IMMEDIATELY. Contact your dealer or our Customer Service Department to set up any requested training from us. The chart of classes that Total Fire Group will be offering is shown on the page to the left.

This training is typically done in Dayton, OH, but local training can be arranged if a sufficiently large group can be assembled. While manufacturer provided training is free from Total Fire Group, there may be costs charged by ISPs trained and approved by us. End users may find local training by an ISP more economical even with a charge, since travel expenses are hence avoided. Our website will list all approved ISPs. If an ISP is not on our website, contact us for guidance before utilizing their services. Similarly, we are working with ISPs that plan to offer interactive, web-based instruction on these topics. ISPs approved by Total Fire Group can train **ONLY** end users, **NOT** other ISPs (without specific approval by Total Fire Group).

2. The first training necessary for all fighters is a general overview of the 2008 edition NFPA 1851 document. We teach these topics in our 101 level of classes for each element we manufacture. We also offer an NFPA 1851 DVD which also addresses these topics. However, we cannot be sure that requesting a copy of this DVD means it has been reviewed and understood. Therefore, while the DVD will assist you in gaining a general overview of the 2008 edition NFPA 1851 document, its requirements and organization, for Total Fire Group to officially approve your training, you must complete a class with us or an approved ISP. The DVD, however, is a great introduction to the topics that will be covered in a 101 level class.



3. Similarly, routine inspections and cleanings are required to be done by the firefighter after each use. Also, each fire department (or "organization" in NFPA terminology) is required to have a clothing plan and do necessary record keeping. We teach these topics, and provide sample examples, in our 102 level of classes for each element we manufacture. The DVD, discussed above, will also address these topics but we cannot be sure that requesting a copy of this DVD means it has been reviewed and understood. Therefore, while this DVD will assist you in routine inspection procedures, routine cleaning procedures, basic clothing plan issues and basic record keeping requirements of the 2008 edition NFPA 1851 document, for Total Fire Group to officially approve your training, you must complete a class with us or an approved ISP. The DVD, however, is a great introduction to the topics that will be covered in a 102 level class.
4. More advanced classes for program managers are also typically done in a classroom setting. Contact us to make arrangements. The DVD, as part of the general 2008 edition overview, does provide a general discussion of these more advanced topics (Advanced Inspection, Advanced Cleaning, Repairs, etc.) BUT, **ONLY AS AN OVERVIEW.** These complex topics also **MUST** be handled in more advanced classroom settings for an effective understanding.
5. The Document requires that advanced (not basic) clothing repairs only be done by an ISP or a fire department (organization) that has been verified by a third party lab, as well as trained by the manufacturer. We can assist fire departments or ISPs that wish to pursue that third party lab certification.

CONTACT YOUR DEALER, REGIONAL DIRECTOR OR OUR CUSTOMER SERVICE DEPARTMENT FOR DETAILS ON THE NFPA 1851, 2008 EDITION OVERVIEW DVD. THIS DVD AND SUPPORTING MATERIALS ARE PROVIDED AT ONLY OUR DUPLICATION COST.

NFPA 1851 Support Services  
continues. 9

NFPA 1851 Support Services continued...

### What NFPA 1851 compliance and training support does Total Fire Group offer?

#### 1 – NFPA 1851, 2008 Edition Overview

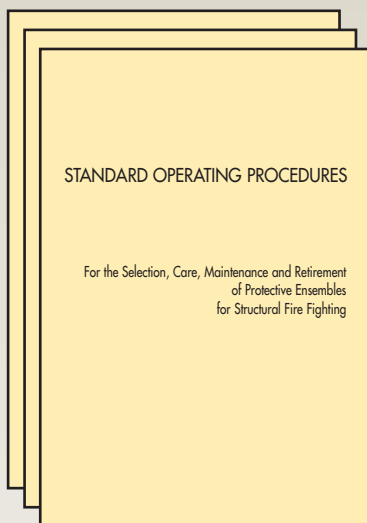
The overview DVD discussed previously is a great aid to NFPA 1851 understanding. Again contact your dealer or our Customer Service Department to request a copy (provided at our minor duplication cost).

#### 2 – Curriculum of Classes

The curriculum of classes previously presented will completely equip you for NFPA 1851 compliance. Again, contact your dealer or our Customer Service Department to arrange this no-charge training.

#### 3 – Draft SOPs as Required by the Standard

Our experts have prepared draft, template SOPs required by the Standard. Fire departments can use these templates and edit them for their particular policies. These SOPs are distributed during the relevant classroom work. Copies can also be requested through your dealer or by contacting our Customer Service Department.



#### 4 –Routine Inspection and Cleaning Checklist

Line firefighters provide the first line of NFPA 1851 compliance. They are required to do Routine Inspection and cleaning (as simple as hose line flushing) after every use/soiling. We provide a card that can be hung at the gear storage area to remind firefighters to perform these vital functions with EVERY use/soiling. These cards are provided free to Total Fire Group customers (in reasonable quantities). Please contact your dealer or our Customer Service Department to receive your copies.

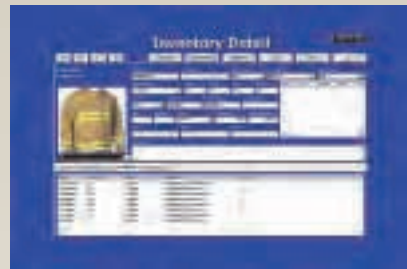
#### 5 – NFPA 1851 Reminder Posters

These posters remind the firefighters to routinely review their Routine Inspection and Cleaning and Inspection Checklist cards and other warnings/use information.

These posters are provided free to Total Fire Group customers (in reasonable quantities). Please contact your dealer or our Customer Service Department director to receive your copies.

#### 6 – Advanced Protective Tracking System

This state-of-the-art bar code tracking system is discussed in some detail in this catalog. APT allows full NFPA 1851 record keeping compliance with little or no cost, utilizing readily available equipment.



#### 7 –Total Fire Group Cleaning and Care Facility in Dayton – within 6-Day Normal Turnaround Time

We have had, and will continue to have, a nationwide network of trained partner ISPs. And in early 2008 (after our expansion is complete), we will have an onsite, state-of-the-art PPE Cleaning & Repair Facility in Dayton.

This facility will:

- Do inspection, cleaning, and repair work for customers.
- Train dealers and other firms that we approve as Independent Service Providers (ISPs) to the extent they wish and require, at no charge to them.
- Train customers to the extent they wish and require, at no charge to them.

Until the facility is up and running in early 2008, our Repair Department will handle all inspections and repairs, and excess quantity cleaning/drying will be done at an offsite facility. When construction is finished, all operations will be at our #1 Innovation Court headquarters facility. With that minor accommodation, we are ready to offer this program NOW.

The 2008 edition of NFPA 1851 now covers required care and maintenance for both Structural and Proximity PPE products. We are working with Gentex (manufacturers of the aluminized Pbi™ that is used in Proximity garment shells, gloves, and Proximity helmet covers) to develop an aluminized care program and will advise the details when available. As a result, this new Dayton facility will initially deal with ONLY Structural PPE products certified to NFPA 1971 (until our discussions with Gentex clarify appropriate Proximity cleaning procedures).



The Total Fire Group Cleaning and Care facility will offer NFPA 1851 required advanced inspections, advanced cleanings, minor repairs and major repairs on NFPA 1971 Protective Ensembles for Structural and Proximity Fire Fighting (clothing, boots, helmets, hoods and gloves).

It will also offer advanced cleaning and repair for clothing and equipment to various other NFPA Standards which NFPA 1851 does not cover (but we will follow general NFPA 1851 advanced clothing and inspection protocols as much as possible):

- NFPA 1999 – Protective Clothing for Emergency Medical Operations
- NFPA 1992 – Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies
- NFPA 1951 – Protective Ensembles for Technical Rescue Incidents
- NFPA 1977 – Protective Clothing and Equipment for Wildland Firefighting
- NFPA 1975 – Station/Work Uniforms for Fire and Emergency Services
- Products multi-certified to any of the Standards (and or NFPA 1971– Protective Ensembles for Structural and Proximity Fire Fighting, noted above.

Specialized cleaning, where practical, will also be quoted per event and would include the following types of exposures (this is consistent with how essentially all other care providers handle these exposures):

- |   |                     |                         |
|---|---------------------|-------------------------|
| • CBRN  | • Asbestos          | • Biohazards like blood |
| • Paint   | • Diesel fuel       | and other body fluids   |
| • Oil   | • Animal fats       | • Hydraulic fluid       |
| • Wax   | • Tire fire residue |                         |
| • Any other exposure requiring MSDS sheet consultations |                     |                         |

We will also be glad to quote any other required PPE support, cleaning or repair programs upon request.

#### General Notes

Products must be scheduled for cleaning and repair. Scheduled work, not requiring repairs, will be done and shipped within 6 work days of receipt in our Dayton facility. Products returned unscheduled for cleaning and repair will be scheduled around the work that has been scheduled. Total Fire Group PPE Cleaning & Repair Facility staff



#### PPE Cleaning & Repair Facility

will contact the returning customer and advise that scheduled date (customer may accept that date or reschedule for another time – all freight back and forth is at customer expense).

We cannot work, per OSHA regulations, on gear that is not cleaned. PPE must be cleaned before return to us, or by us (that cleaning will be billed), before repairs can be done.

As noted earlier, specialized cleaning and resulting repair (per NFPA 1851, this is required when PPE is exposed to hazardous materials and/or biohazards) will be available upon a special quotation basis. Different pricing and turnaround periods will apply. There are some contaminants that are impossible to remove, and no representations otherwise are made. Customers with specialized cleaning needs should contact Total Fire Group PPE Cleaning & Repair Facility staff. They will prepare quotes for recoverable situations and/or assist the fire department at no charge in seeking insurance reimbursement when cleaning/repair is not feasible or advisable.

All cleaning and billable repairs will not be started without a valid Purchase Order and credit approval. Returns to customers can only be made freight collect on products returned due to lack of Purchase Order. Purchase Order should accompany returned gear to prevent delays in processing.

Laundrying can, and will, change the appearance of PPE (in particular, black shells can lose “blackness” and take on a charcoal or dark green cast). This is an unavoidable consequence of laundrying (whoever does it) and as such is not warrantable.

Departments who wish us to work on non-Total Fire Group products should contact Total Fire Group PPE Cleaning & Repair staff for further discussion.

NFPA 1851 Support Services continued...

## 8 – 5-Year Wear Life Warranty on NFPA 1971 Clothing and Helmets, Free Repairs and Loaners during that Period

### 5-Year Wear Life Warranty for Clothing and Free Loaners During Free Repair

Our new facility/program allows us to offer the 5-Year Wear Life Warranty on our Structural clothing (with the exception of moisture barrier replacements, and we are in discussion with moisture barrier manufacturers on potential advanced warranties). This would include NO-CHARGE REPAIRS (or replacement of non-moisture barrier layers at our discretion) for the first 5 years of the garment life, to ensure 5 years of continued serviceability, and even NO-CHARGE LOANER GARMENTS during any required repairs.

Customers wishing to gain the 5-Year Wear Clothing Life Warranty (again, excluding moisture barrier replacement) and free loaner garments would be required to have the following Cleaning and Care Services performed each year:

1. NFPA 1851 required Advanced Cleaning and Advanced Inspection once a year at our Dayton facility or at the facility of an approved ISP 5-Year Wear-life Warranty Partner. Services provided will include NFPA 1851 tracking, spot treatment as necessary, pre-soaks as necessary, Advanced Inspection Puddle or Hydrostatic Water Pressure Test as required/preferable, Advanced Inspection Light Test or complete Liner Inspection as required/preferable

– PLUS –

2. Additional Advanced Cleaning (machine wash and dry without pre-soaks, spot treatment or Advanced Inspections) once a year (6 months after Advanced Cleaning and Advanced Inspection above). A cursory inspection will also occur at this time to isolate developing problems. This will let us see the garment every 6 months, and correct developing problems before they became major, far more expensive problems. This is the only extra charge, above and beyond NFPA 1851 REQUIREMENTS in point 1 above, to get the 5-Year Wear Life Warranty and free repairs, free loaners, etc.

While it is true that the new 2008 edition document only requires *once-annual* cleaning, the 2001 edition document required *semi-annual* cleaning. There are compelling reasons for customers to consider the *second* annual clothing cleaning required in point 2 above:

- to gain the 5-Year Wear Life Clothing Warranty and NO-CHARGE REPAIRS for 5 years (again, the only exception is moisture barrier required replacement unless the moisture barrier manufacturers step up to the plate on some guarantee)
- to get 2 cleanings and inspections a year, as per 2001 edition requirements. This will isolate and encourage fixes more frequently and will increase safety and comfort (a year is a long time to use a non-cleaned garment)
- to gain FREE LOANERS during required repairs

In spite of the increased inspection/requirements in the new 2008 edition, our pricing is in line with most previous 2001 edition quotes from other vendors even with 1 additional cleaning. In fact, your dealer can provide an Excel spreadsheet on our 2008 edition PPE program that shows some of our best clothing will run you roughly \$5 per week per set and with this Care Program roughly \$8.50 per week in total (for the gear itself, repairs, loaners, 1851 compliance, etc.).

### For Total Fire Group non-clothing NFPA 1971 Structural PPE Elements

Cleaning and inspection for NFPA 1971 helmets, hoods, boots, and gloves will also be offered, subject to the terms and conditions noted below.

Product	Wear Life Warranty Availability
Helmets	5 years at no extra charge if annual cleanings are done (even with only one yearly cleaning). Heat and abrasion damage to eye protection (EZ-Flips, faceshields, goggles, etc.) are unavoidable in the hostile fire fighting environment and as such are <u>NOT</u> covered under the warranty.
Hoods	Hoods are a disposable item and use can vary widely, so wear-life warranties are not offered (but Lifetime Warranty against defects in material or workmanship always apply on all Total Fire Group products).
Boots	Boots are an item where use can vary widely and most repairs are not practical, so wear-life warranties are not offered. Lifetime Warranty against defects in material or workmanship always apply on all Total Fire Group products). Note: We will quote resoling of welted boot products upon request.
Gloves	Gloves are a disposable item and use can vary widely, so wear-life warranties are not offered (but Lifetime Warranty against defects in material or workmanship always apply on all Total Fire Group products).

## 5-Year Wear Life Warranty for Helmets and Free Loaners During Free Repair

This new facility/program also allows us to offer this 5-Year Wear Life Warranty Program (with the exception of eye protection products) on Structural helmets. This would include NO-CHARGE REPAIRS (or replacement of non-eye protection products at our discretion) for the first 5 years of the helmet life, to ensure 5 years of continued serviceability. Helmet repairs usually are made in 1 day of receipt, but loaners can be arranged if required.

To gain the 5-Year Wear Life Helmet Warranty, it is only necessary to have the NFPA 1851 required annual Advanced Cleaning and Advanced Inspection done at Total Fire Group (or at an approved ISP 5-Year Wear Life Warranty Partner). These is **NO** additional cleaning requirement for warranty coverage of helmets, since helmet damage does not tend to "continue" as clothing damage can (we still do recommended semi-annual advanced cleaning and care, but it is not a warranty condition).

### Clarifications of the clothing and helmet Extended 5-Year Wear Life Warranties discussed above

1. The extended warranties are dependent on continuous care, like a car warranty. For the Extended 5-year Wear Life Warranty to remain in effect, the fire department must have the clothing Advanced Cleaned at the Total Fire Group PPE Cleaning & Repair Facility in Dayton or at a Total Fire Group PPE Cleaning & Repair ISP Warranty Partner every 6 months and every other cleaning must also be accompanied with the required Advanced Inspection. Total Fire Group PPE Cleaning & Repair Facility will advise customers at their last ship to/bill to address one month before a cleaning is required but that is only a reminder, the responsibility for ensuring 6-month periodic advanced cleanings/required inspections rest with the customer (that is, failure to receive our post card does not change warranty terms if the garments have not been through the 6-month cleaning/inspection cycle). For helmets, only continuous annual cleanings are necessary to continue warranty coverage. If clothing is not semi-annually cleaned and helmets annually cleaned in Dayton or at a Warranty Partner, the extended 5-Year Wear Life Warranty is no longer in effect.
2. This extended warranty offer applies only to new garments, since only new garments will have been maintained as required from the start of their life cycle. For older garments or new garments that did not have the required 6-month advance cleanings, the warranty program is not available. Similarly, only new helmets can be covered, and only if the helmets have been cleaned annually since new at our Dayton facility or an ISP Partner.
3. This is an extended WEAR warranty on repairs, not a guarantee against unanticipated or unusual exposures, which would require specialized cleaning as well as resulting repairs which are NOT covered under this warranty. Specialized cleaning and resulting repair (per NFPA 1851, this is required when PPE is exposed to hazardous materials and/or biohazards) will be available upon a special quotation basis and again is **NOT** covered under this warranty. Different pricing and turnaround periods will apply. There are some contaminants that are impossible to remove, and no representations otherwise are made. Customers with specialized cleaning needs should contact Total Fire Group PPE Cleaning & Repair Facility staff. They will prepare quotes for recoverable situations and/or assist the fire department at no charge in seeking insurance reimbursement when cleaning/repair is not feasible or advisable.
4. Covered repairs will be the most economically feasible way to make the PPE fit for continued service (for instance, we will patch instead of replacing complete panels).
5. Moisture barrier replacement is specifically not included in the 5-Year Wear Life Warranty (this may be included



Again, specialized cleaning and repairs will be quoted per event as noted above, and is NOT covered under this warranty. This would include the following types of exposures (this is consistent with how essentially all other care providers handle these exposures):

• CBRN  
• Asbestos  
• Biohazards like blood and other body fluids  
• Paint  
• Diesel fuel  
• Oil  
• Hydraulic fluid  
• Animal fats  
• Wax  
• Tire fire residue  
• Any other exposure requiring MSDS sheet consultations

- CBRN
- Asbestos
- Biohazards like blood and other body fluids
- Paint
- Diesel fuel
- Oil
- Hydraulic fluid
- Animal fats
- Wax
- Tire fire residue
- Any other exposure requiring MSDS sheet consultations

## MORNING PRIDE HELMET UNIQUE ADVANTAGES

NFPA 1851 Support Services continued...

5-Year Wear Life Clarifications continued...

at a later date, as discussions with moisture barrier suppliers are continuing, we will advise if there are any changes). We will include minor pin hole patches under warranty, but any quantity required of such patches would indicate that the moisture barrier should be replaced and that will NOT be covered. The decision as to whether the number of pin hole leaks requiring patching is sufficient to suggest the moisture barrier must be replaced (hence outside of 5-Year Wear Life Warranty terms) must rest solely with the Total Fire Group PPE Cleaning & Repair Facility staff. If a fire department chooses to not replace a moisture barrier that Total Fire Group has indicated requires replacement, we will no longer do Cleaning and Care on the garment (doing so would encourage/facilitate use of an unsafe product), and the product immediately falls out of warranty coverage.

6. Similarly, we are specifically not including damage such as, but not limited to, abrasion or melting of eye protection products on helmets (faceshields, EZ-Flips and goggles) as this is characteristic of these products in the harsh fire environment.
7. Free (standard stock) loaners will be provided for any garments or helmets (upon request) that require repair that will delay them in Dayton (or at a 5-Year Wear Life Warranty Partner ISP) for more than 6 work days (again, if the return was scheduled). The customer will be responsible for freight out and back on loaners, and will be asked for a Purchase Order to cover both approximate loaner value and that freight when they request a no-charge loaner. Customers will be billed for any required repairs to loaners that are not due to regular use (that is, such as specialized cleaning requirements after return and/or embrittled material from high heat exposures that is too large to allow patching), but credited back for the loaner garment when returned (if that return occurs within 2 weeks of receipt back of fire department gear).
8. The 5-Year Wear Life Warranty should not be construed as a guarantee that the garments/helmets will always be restored to "like new" condition. Garments and helmets will wear and their condition will reflect that wear. The 5-year Extended Wear Warranty will, however, cover at no charge repairs needed to keep the garment in serviceable condition (as is currently paid out of pocket by fire departments).
9. The 5-Year Wear Life Warranty does not cover alterations due to garment reassignment or member weight gain/loss.
10. The 5-Year Wear Life Warranty is not available for gear used exclusively or primarily for training. Contact us to develop a specific program for any such gear.
11. The 5-Year Wear Life Warranty runs from the date of manufacture. Contact our Customer Service Department at time of first usage if that date is far later than the manufacturing date.

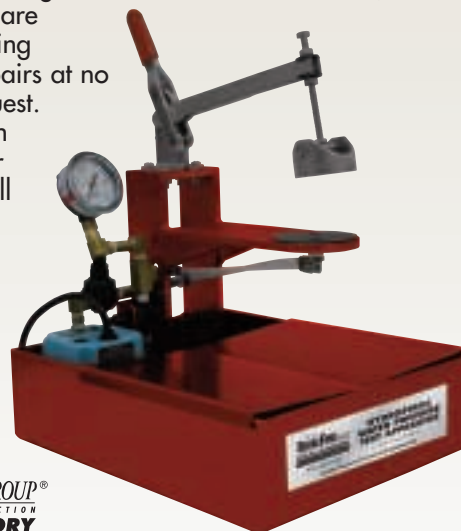
## 9 – Specialized Test Equipment

### Hydrostatic Water Pressure Test Stand (Patent Pending)

Total Fire Group's ISO 17025 Accredited Testing Laboratory has developed a test stand to facilitate the now required (after three years of service) moisture barrier Hydrostatic Water Pressure Test. This test stand offers these important advantages:

- Dual pressure regulators pre-set to balance each other to keep the testing pressure at the correct 1 psi (+.1 psi tolerance) during the test
- Automated test timing to ensure accurate testing time periods
- Detailed operator instruction manual
- Stand labeling to minimize common errors
- Slim profile arm to facilitate tubular garment area testing (arms, legs, etc)
- Self-draining garment protection tray to minimize garment water contact during testing
- The 15-second test can be used in lieu of the less strenuous, less reliable 3-minute Puddle Test at any point in a Morning Pride garment's life. The Hydrostatic Water Pressure Test is a better test of moisture barrier condition and is done in 1/12 the time of the Puddle Test (and each set is tested at a minimum of 5 spots for a total time savings of almost 14 minutes a set test time).

The test stand is available for purchase or daily rent. Purchased test stands will be calibrated and refurbished annually for a fee that includes a loaner stand during the rework period, if requested (to keep ISPs and fire departments in service during their test stand recalibration). Loaner test stands are also available during non-scheduled repairs at no charge, upon request. Again, freight both ways are customer responsibility on all stands including loaners.



**TOTAL FIRE GROUP®**  
ADVANCED PERSONAL PROTECTION  
**TESTING LABORATORY**  
Premium Test Equipment

← **Table of Contents**

**Contact Us** →

## NFPA 1851, 2008 Edition Requirements for Advanced Inspection of non-CBRN Clothing

Time in Service	Light and Puddle Test	Complete Liner Inspection and Hydrostatic Moisture Barrier Test <sup>1</sup>	Liner Replaced
up to 12 Months	Yes	No <sup>2</sup>	
≥ 12 Months but < 24 Months	Yes	No <sup>2</sup>	
≥ 24 Months but < 36 Months	Yes	No <sup>2</sup>	
≥ 36 Months but < 48 Months	Yes	Yes	<b>If Liner Replaced</b>
≥ 48 Months but < 60 Months	Yes	Yes	No Suter Test, but Puddle Test
≥ 60 Months but < 72 Months	Yes	Yes	Suter Test
≥ 72 Months but < 84 Months	Yes	Yes	Suter Test
≥ 84 Months but < 96 Months	Yes	Yes	Suter Test
≥ 96 Months but < 108 Months	Yes	Yes	Suter Test
≥ 108 Months but < 120 Months	Yes	Yes	Suter Test
≥ 120 Months	Yes	Yes	Suter Test
Note 1: Test Stand for moisture barrier test is available from Total Fire Group Lab (see facing page)			
Note 2: Morning Pride allows and recommends that the more strenuous complete liner inspection and hydrostatic moisture barrier Suter Test be done (even in first three years) instead of the less strenuous, less reliable and more time consuming Light and Puddle Test. It is not necessary to do the Light and Puddle Test (even in the first three years) if the liner Complete Inspection and Suter Test is done. Morning Pride's Liner Inspection Ports also make the complete liner inspection easy to do without garment disassembly and re-stitching.			

**Note:** CBRN cleaning and care protocols are not yet available and will differ from the non-CBRN protocols discussed in this catalog. The CBRN protocols will be developed and publicized when the CBRN products complete certification.

## NFPA 1851, 2008 Edition New Retirement Requirements for All Elements

<b>Structural Garments: Retired if ≥ 10 Years from Manufacture Date</b>
<b>Proximity Garments: Replace Shells at ≥ 5 Years – Retire Moisture Barrier and Thermal Liner if ≥ 10 Years from Manufacture Date</b>

**Note:** This catalog section discusses Structural PPE cleaning, care and warranties (as applicable) . The note here on Proximity retirement is provided as contrasting information only.

**Structural:** For Structural Fire Fighting Operations, our Ben 2 Plus Traditional and Lite Force Plus Modern helmets both offer you the most advanced FYR-Glass shell technology. Both helmets feature improved internal components, better fit and ride, a full choice of NFPA 1971, 2007 Edition and/or OSHA compliant eye protection systems, and dozens of custom options.

**Proximity:** For Proximity Fire Fighting Operations, the Lite Force Plus Modern and the Ben 2 Plus Traditional helmets provide all of the improved fit, ride, components and tough FYR-Glass shell all dressed out to meet NFPA 1971, 2007 Edition performance requirements for Proximity/ARFF operations. Our Proximity Plus helmets now offer the best possible fit for specialized military applications.

**Technical Rescue:** For Technical Rescue Incidents, our Rescue and Recovery and Utility offerings cover all the bases. The NFPA 1951, 2007 Edition certified Heavy Duty helmets are based on our Plus technology. They offer slimmer profiling for maneuvering in tight spaces. Our

Lightweight helmets are based on our Wildland fire helmet technology. A full line of eye, face, neck, and hearing protection options are available on our lightweight models.

**Wildland:** For Wildland Fire Fighting Operations, the new Wildland Front Brim and Full Brim helmets NFPA 1977, 2005 Edition. Both use our specially selected Thermo-FYR shells and are available with ear and eye protection for use when operating chainsaws. Various options are available for goggles, faceshields, and ear covers.

**EMS:** EMS: Certified to ANSI Z89.1-2003, Type 1, Class E. A trim package is also highly recommended. This helmet is for Emergency Medical Operations only, as this product uses a Poly-Med type shell that does not offer the added thermal resistance of FYR-Glass or Thermo-FYR. EMS options include goggles, trim, chinstraps, faceshields, hearing protection, and ear covers. Ultra lightweight and extremely affordable. NFPA 1999, 2008 edition certification is pending.

## STANDARD CONFIGURATIONS (if No Custom Details Provided)

Helmet Description Model Number	Shell Material	Shell Colors	Standard Ear Covers	Standard Chinstraps	Std. Eye/Face Protection	Standard Trim
<b>Ben 2 Plus Traditional</b> HT-BF2-BPR – HT-BF2-HDO	FYR-Glass	B, W, R Y, U, O, G	BPR = Yellow Nomex®/ Crosstech® PJ/FR Cotton HDO = Yellow Nomex®/FR Cotton	Nomex® Quick Release Postman Slide	Clear APEC Hi-Temp 4" x .150"	Reflexite® 8-Trapezoids Lime
<b>Lite Force Plus Modern</b> HT-LF2-BPR – HT-LF2-HDO	FYR-Glass	B, W, R Y, U, O, G	BPR = Yellow Nomex®/ Crosstech® PJ/FR Cotton HDO = Yellow Nomex®/FR Cotton	Nomex® Quick Release Postman Slide	Clear APEC Hi-Temp 4" x .110"	Reflexite® 5 – 1" x 4" Lime
<b>Proximity Plus Traditional</b> HT-BF2-PROX	FYR-Glass	*B, W, R Y, U, O, G	Aluminized Pbi® W.L. Gore Moisture Barrier, Thermal Liner	Nomex® Quick Release Postman Slide	Gold Coat 6" x .130"	—
<b>Proximity Plus Modern</b> HT-LF2-PROX	FYR-Glass	*B, W, R Y, U, O, G	Aluminized Pbi® W.L. Gore Moisture Barrier, Thermal Liner	Nomex® Quick Release Postman Slide	Gold Coat 6" x .130"	—
<b>Technical Rescue Recovery/ Utility Heavy Duty</b> HT-UHD	FYR-Glass	B, W, R Y, U, O, G	—	Nomex® Quick Release Postman Slide	—	Reflexite® 4 – 1" x 4" Lime
<b>Technical Rescue Recovery/ Utility Lightweight Front Brim – HT-US†</b>	Thermo-FYR	W, R, Y, U, O	—	Nomex® Quick Release	—	Reflexite® 4 – 1" x 4" Lime
<b>Technical Rescue Recovery/ Utility Lightweight Full Brim – HT-UF†</b>	Thermo-FYR	W, R, Y, U, O	—	Nomex® Quick Release	—	Reflexite® 4 – 1" x 4" Lime
<b>Wildland Front Brim</b> HT-WS	Thermo-FYR	W, R, Y, U, O	—	Nomex® Quick Release	—	Reflexite® 4 – 1" x 4" Lime
<b>Wildland Full Brim</b> HT-WF	Thermo-FYR	W, R, Y, U, O	—	Nomex® Quick Release	—	Reflexite® 4 – 1" x 4" Lime
<b>EMS</b> HT-ES	Poly-Med	W, R, Y, U, O	—	—	—	—

\*When no shell color is specified, we assume color matching is not an issue and will ship the shell color(s) of our choice.  
Available Shell Colors: B/Black, W/White, R/Red, Y/Yellow, U/Blue, O/Orange, G/Green

† Also Certified to NFPA 1977  
Wildland Standard



## Structural Style

**Ben 2 Plus Traditional**  
(Pages 47-52)



**Lite Force Plus Modern**  
(Pages 53-55)



Both  
Shown  
with  
Optional  
Leather  
Fronts

NFPA 1971, 2007 Edition

## Proximity Style

**Proximity Plus Modern**  
(Pages 56-57)  
NFPA 1971,  
2007 Edition



**Proximity Plus Traditional**  
(Page 45)  
NFPA 1971, 2007 Edition

## Technical Rescue and Recovery/Utility Style

**Lightweight Front Brim**  
(Pages 61-63)  
NFPA 1951, 2007 Edition



**Lightweight Full Brim**  
(Pages 61-63)  
NFPA 1951, 2007 Edition



Both Lightweight  
Helmets are  
Also Certified to  
NFPA 1977  
Wildland

**Heavy Duty**  
(Pages 58-60)



NFPA 1951, 2007 Edition

## Wildland Style

**Wildland Full Brim**  
(Pages 61-63)  
NFPA 1977, 2005 Edition



**Wildland Front Brim**  
(Pages 61-63)  
NFPA 1977, 2005 Edition

Note: Lightweight Technical Rescue and Recovery/Utility Helmets  
Also Certified to NFPA 1977 Wildland Standard.

## EMS Style



**EMS**  
(Pages 61-63)

ANSI Z89.1-2003, Type 1,  
Class E



Shown with Highly  
Recommended Options

**Unlike competitive EMS helmets and like all our helmets, NO Assembly Required on the Standard Product!**

**Unlike competitive Lightweight Technical Rescue and Recovery/Utility and Wildland Helmets, and Like All Our Helmets, NO Assembly Required on the Standard Products!**

# Absolutely the Best Protection for Your Head and Value for Your Dollar...

**ONLY MORNING PRIDE HAS FYR-GLASS SHELLS with all the other strong advantages they allow us to offer.**

## Advantage #1: Strongest Shell on the Market

*Despite what you may have been told, nothing out performs FYR-Glass shell material for strength and performance. More importantly, this strength gives us design options others simply just don't have! PLUS, they are the longest lasting, least expensive to maintain helmets on the market!*

We have heard that some departments are being told that a competitor's new traditional and new modern helmets are (and we paraphrase here) "being made from a Sheet Molded Compound (SMC) that is just like Morning Pride's FYR-Glass." This simply and categorically is not true!

To prove our point: First, we pinpoint three production conditions this competitor's new shells *do not meet*, thus making any claim of equality to a FYR-Glass shell false. Next, we demonstrate our performance advantages with findings we obtained by taking their products and comparing them under scientifically repeatable and measurable procedures to our FYR-Glass Ben 2 Plus helmet.

## What Makes FYR-Glass so Superior:

- A) *You must have Morning Pride's exact SMC formula including proper percentages and amounts of custom resins, additives, pigments and fiberglass strand size/length. This FYR-Glass formula is exclusive to Morning Pride and cannot be replicated by any other helmet manufacturer.*
- B) *To make FYR-Glass shells, you have to tool up brand new and very expensive molds that are able to withstand the extreme pressures of 1,000 psi and beyond. And, if you want to get all the benefits of the SMC material, you have to make and maintain these "Super Molds" and pay dearly to do so. Our investigation confirms to our satisfaction that the competitive manufacturer has not done this.*
- C) *During shell production, the molds must be evenly pre-heated to well in excess of 275° F (135° C) to optimize the FYR-Glass formula's unique properties. Once again, this requires very specialized custom molds. Our investigation confirms to our satisfaction that the competitive manufacturer has not done this.*

Bottom line, compared to FYR-Glass, substituting a lower performing SMC into a lower compression shell molding process *does not produce a shell of equal performance,*



*durability or quality.* If it did, why do they still need to use an impact cap? And why does the scroll work on their brim not have the same sharp, crisp, almost hand-carved appearance as the scroll work on our shells? The answer to these two questions is the same: "Because their shells are not made using the higher-performing FYR-Glass process and materials."

## So, Can We Demonstrate the Strength Advantage of FYR-Glass in the Laboratory?

Yes. In fact, there are many American Society for Testing and Materials (ASTM) methods for testing material strength, but usually they are performed on samples of quarter inch (.250") thick material prepared specifically for the lab tests. However, in the case of fire helmets, a lot more can come into play: size/shape; ridges; impact caps (if any); suspensions; etc.

So, we tested the traditional helmets as worn and completely assembled using the same third-party certified lab equipment that is used for our required NFPA follow-up testing in our ISO-17025 certified lab. This independently calibrated equipment is capable of accurately measuring the velocity of any object you wish to impact/strike the helmet with, and by knowing the object's weight, the force of impact can be easily calculated.

We combined this equipment's capability with a practical demonstration that has been used in the field now and again for the last 15-20 years, "The handheld screwdriver test." The screwdriver test has been such an effective demonstration of shell strength because the shaft is no bigger than the widest point of the tip so only the shell's strength will stop it or slow it down, unlike the cone shaped NFPA tip shown (see Photo 1), which gets wide so fast it instantly assists itself in slowing down.

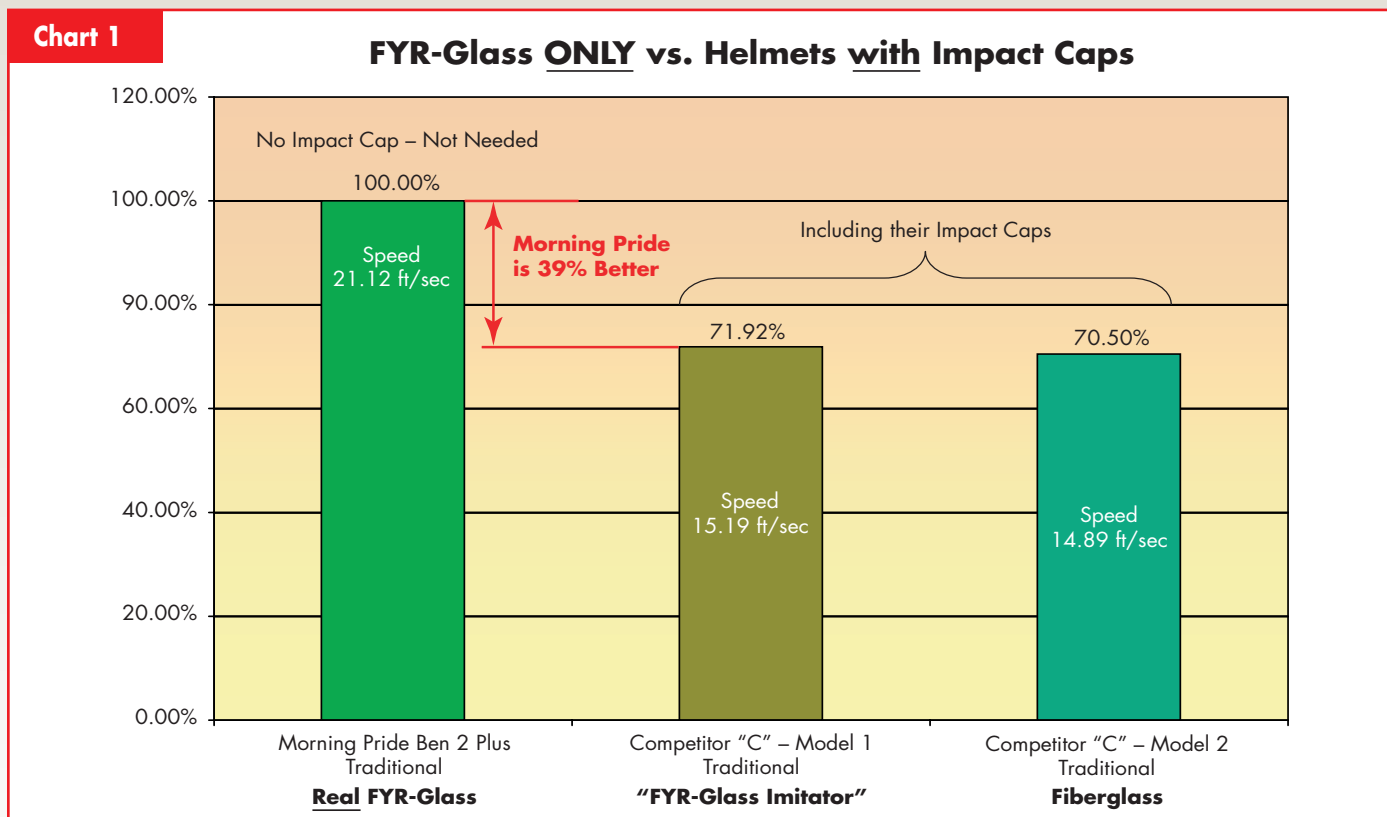
The entire Phillips Screwdriver Tip device only weighs .90839 kg (1.9818 lbs) which is quite a bit lighter than the 1.00 to 1.02 kg (2.2 to 2.244 lbs) required weight of the entire prescribed NFPA penetrator tip/device.



By varying the height at which the penetrator was dropped, we were able to measure the exact velocity needed to just barely penetrate the various shells to a depth at which the screwdriver's finned tip completely passed through the shell leaving a round hole. Drop tower Photos 2 and 3 clearly demonstrate the difference in height at which the penetrator's sled was raised to punch

the hole in the shells, and the FYR-Glass shell was the clear winner.

Using velocity and weight, we then calculated the force required to punch this hole in the shell and compare the results to determine which shell was stronger. Once again the FYR-Glass shell was the clear winner (see Chart 1).



Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...

Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

## Advantage #2: No Impact Cap Needed

Morning Pride helmets are rapidly taking market share and, it is extremely important to remember, there currently is NO, and NEVER has been, an NFPA requirement for an impact cap. There is only a requirement for a certain level of impact protection however you provide it – strong shell or weaker shell backed-up by interior impact cap.

Specifically, we do not need impact caps due to the superior strength of our advanced, proprietary FYR-Glass shell. So, competitors who need them due to their weaker shells have recast them as “thermal” impact caps even though they have been correctly referred to as “impact” caps for 20+ years. The LEAST insulative helmet offers 3x the insulation of a good turnout coat (please see Chart 3 for details).

Impact caps did not even exist until the first NFPA helmet standard was issued in the 1980s with increased impact requirements that no one at that time, including Morning Pride, could meet without the addition of an impact cap. In the years that preceded that NFPA helmet standard, essentially ALL firefighters fought fires in non-impact cap equipped helmets without any significant “insulation” issues, and those helmets were probably 3x more insulative than the garments of even today.

In the mid 1990s, Morning Pride developed a proprietary FYR-Glass technology that is as much as 6.5 times stronger than other commonly used fire helmet fiberglass shells and allowed us to offer the improved safety, rugged durability and improved comfort/balance of a non-impact cap equipped helmet.

FYR-Glass is a huge leap forward technologically. As a result, we have literally changed the landscape of the market, winning field test after field test and fire department after fire department. **Removing impact caps makes the helmet lighter, lower riding, less wobbly and far more comfortable.**

Our success has caused our competition, *those same competitors who manufactured non-impact cap helmets for decades*, to now “invent” an insulation problem with non-impact cap helmets and to “re-invent” the impact cap as an insulation cap.

At the time this was written (January 2006), a review of competitive literature shows that prior to 1996, competitors most frequently used the simple term “impact cap.”

### Competitive Literature Prior to 1996

#### THE GAINES IMPACT CAP

The ~~new~~ patented ~~new~~ liner dramatically increases the levels of protection when you need it most. Made of high temperature resistant rigid urethane foam. It is thicker at the sides for superior protection against side impact and penetration.

- Impact cap is held removable for periodic inspection of the foam's integrity
- Provides attachment of the ~~new~~ ratchet and liner, as well as a six-way

It is only after 1996 that their literature focused on “impact caps” adding insulation value. Now, their marketing literature calls them “thermal impact caps” but, their price list calls them only “impact caps.”

### Competitive Literature After 1996

- High-temperature foam cap increases thermal and impact protection.
- High-temperature impact cap liner resists distortion at high temperatures.

So, what changed since 1996 to cause this? In 1996 Morning Pride Ben 2s, without impact caps, won the evaluation and contract with FDNY for fire helmets and we’ve held it ever since, winning yet another competitive evaluation in the year 2000. Coincidence? We think not!

## The Ad that We Feel is Clearly Misleading

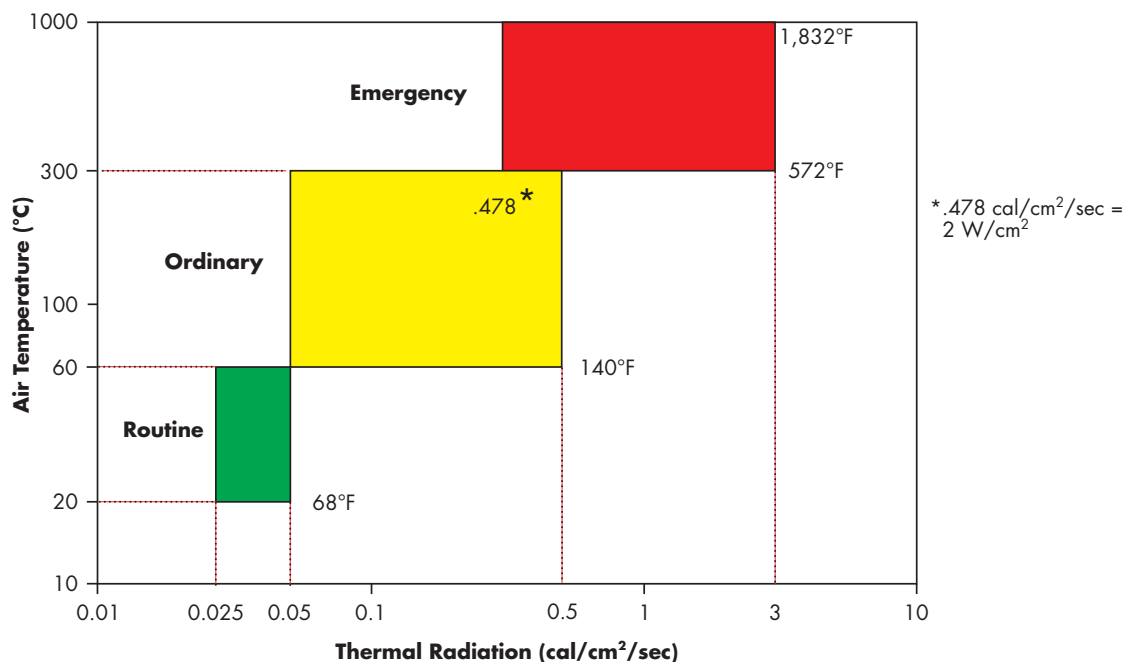
We have concerns that by creating a “false insulation” issue, competitors may be encouraging helmets that add insulation through the use of, in some cases, flammable impact caps. So, how is this ad misleading?

- 1) They fail to point out that the *air temperatures* they show of 113° F, 118° F and 152° F have nothing to do with 1st, 2nd and 3rd degree “sub-dermal” (interior skin) burn temperatures. We feel if you believe the way they present it in the ad, the entire population of southern Arizona would die of full body 1st/2nd degree burns in the summer, and you would die with full body 3rd degree burns taking a 190° F sauna for 15 minutes, both of which are NOT true!
- 2) They fail to mention that in NFPA Task Group testing, which they attended and observed during the Fall of 2002, at 500° F for 5 minutes in a forced air oven (187.5 cu ft/min) that all helmets did poorly because of the nature of the forced air test, and the helmets with impact caps, including their own, showed thermocouple temperatures at the headform of 130° F to 159° F.
- 3) Finally, they do not report field experiences by FDNY, Chicago and 1,000s of other fire departments using non-impact cap helmets, and operating in much higher temperatures for 5, 10 or 15+ minutes and they are not getting burned through their helmets (see Chart 2)!



**Chart 2**

## Range of Thermal Conditions on the Fireground



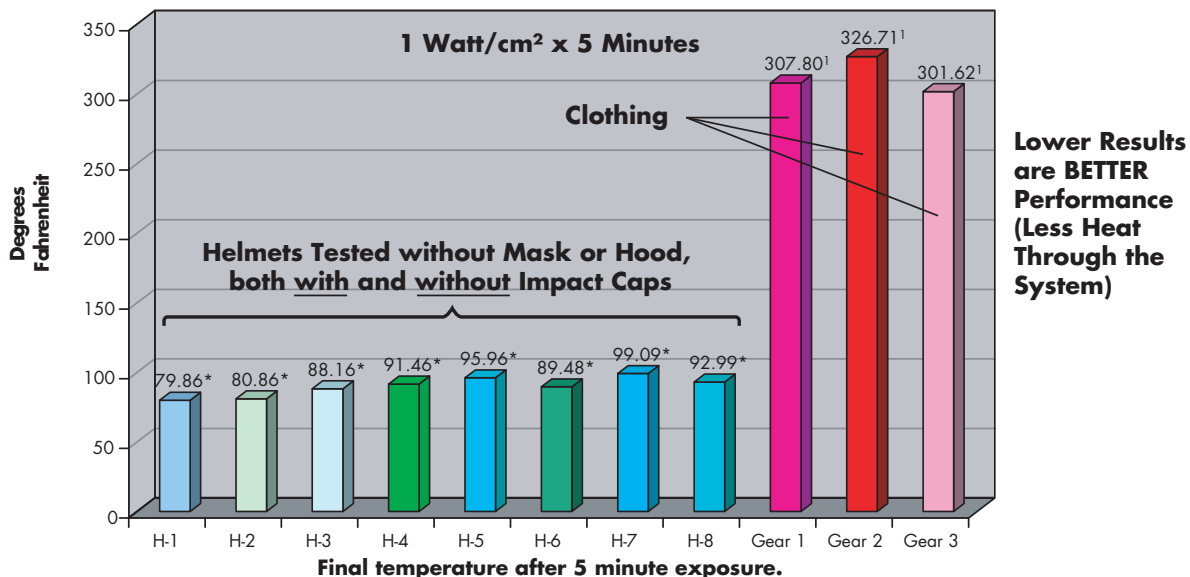
## What Does Radiant Heat Testing Prove?

Radiant Heat Testing proves that any helmet tests at least 3 times more insulative than turnout gear (see Chart 3). On top of that, almost every helmet competitor was present and witnessed the helmet Radiant Heat Tests in Chart 3 and know that what we are saying is true!

**Chart 3**

## Radiant Heat Comparison Helmets vs. Turnout Clothing (FDNY Composite)

The Worst Helmet, 99.09° F is 3x Better than the Best Clothing Test of 301.62° F



<sup>1</sup>Data from Intertek Testing Services, Report No. 3031425-001a, September 10, 2002

\*Data from Task Force on Helmets, Fall 2002

But, what if you want more than 3x your garment insulation in your helmet? Well, insulation is easy to add, but for firefighters, such insulation should be **completely, thermally stable** and when asked, we commonly recommend Kevlar® felt or similar flame resistant material.

Design Advantages – Structural,  
Proximity and Heavy Duty  
Technical Rescue  
Recovery/Utility Continue...



**Table of  
Contents**

**Contact Us**



Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### What Does Thermal Protective Performance (TPP) Testing Prove?

Not satisfied that both radiant and oven testing supports our view, we placed an inverted helmet atop a UL certified, NFPA specified, TPP machine with the copper calorimeter sensor placed at the top “wearer’s side” of the suspension and blasted it with 2 cal/cm<sup>2</sup>/sec (@1,800°F):

- 1) After a 17.5 second exposure = to 35 TPP in a garment, the sensor read an increase of 0 degrees F.
- 2) After an exposure of 70 seconds = to 140 TPP in a garment, the sensor read an increase of less than 11 (yes only 11) degrees F.

That’s right, a TPP exposure = to 140 TPP, *four times the NFPA minimum for garments that would completely destroy any turnout system*, and the increase in temperature at the wearer’s head is totally insignificant!



### What Does Flashover Testing Prove?

Finally, a full body flashover chamber was employed at North Carolina State University in Raleigh, and with the mannequin’s head wired with sensors, it was subjected to a full body, gas fired flashover of 2.0 Cal/cm<sup>2</sup>/sec for 10 full seconds. A Ben 2 Plus without an impact cap, and only a hood with no SCBA facepiece (sensors were not used on the face) was placed on the mannequin dressed in full turnouts.

- 1) Using state-of-the-art software, the percentage burn to the head was predicted at 0% for any kind of burn!

- 2) The test was such an anti-climax with 0% predicted burns to the head, while the turnout system showed severe thermal damage, that we believe all persons present, including helmet and turnout manufacturing competitors, agreed that no further testing was necessary and that even non-impact cap helmets do indeed provide far more than adequate insulation.



### What About the Rest of the Story?

While we have definitely answered the “false issue” of helmet insulation here, competitors have still failed to answer the “real issues” of swollen, detached and degraded impact caps seen in many helmets.

The following photos from actual fire department field events clearly define this “real issue.”

### Field Fire Evaluation – Texas

First, let us review some photos from a fire at a training facility of a major metro department in Texas that was conducted in part to compare helmets with and without impact caps.

**Swollen Impact Cap Photo 4** – As shown on this brand “C” helmet, the impact cap has swollen. It is relatively common for the high heat, fire fighting environment to cause the urethane impact cap to “swell” beyond the helmet shell. The now exposed urethane impact cap has deteriorated. Obviously, when this happens, the composition/consistency of the impact cap changes substantially so that even beyond flammability issues, there must also be a likely change in impact performance.

**Broken Tabs Photo 5** – When the impact cap swells, as this photo shows, the impact cap retaining tabs commonly break off. Also, please note that the meltable nylon suspension straps, which are exposed to the fire environment when impact caps are required in the helmet, are also stressed by the expanding foam.

**Glove Photo 5** – What is in the top of this Brand “C” helmet? That is a glove the TX instructor stuffed in the top to keep the heat off his head even though this helmet has a “thermal impact cap!”

In contrast, our non-impact cap helmets did not show ANY similar deterioration from this test because we do not use impact caps, exposed straps or fragile tabs.

In a training situation, the test can usually be stopped after the impact cap expands and the tabs break. However, during actual fires, the exposure often cannot be terminated.

**Photo 4 – Swollen Impact Cap – Texas**



**Photo 5 – Broken Tabs – Texas**



## Field Fire Evaluation – Ohio

It is important to note what can happen when fire fighting continues after the foam has expanded and the tabbing retention system has thus been compromised. The following photos are from another training facility fire in Ohio (again, conducted in part to compare the performance of helmets with and without impact caps).

**Expanded/Burnt Foam Photo 6** – This photo shows the condition of an impact cap that burst into flames after it unexpectedly **separated without warning** from the shell without sustaining any impact (we suspect, as shown on facing page, that a swelling impact cap broke the tabs necessary to hold the impact cap equipped helmet together).

**Molten Foam Photo 7** – This photo shows molten foam stuck to the same helmet shell as the shell separated, further supporting the theory that the breakaway was caused by the swelling of the impact cap which resulted in the tabs breaking.

In contrast, our non-impact cap helmets did not show ANY similar deterioration at this test.

**Photo 6 –Expanded/Burnt Foam – Ohio**



**Photo 7 – Molten Foam – Ohio**



Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...

Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### Florida Field Fire Evaluation...

The difference in performance between Morning Pride and a helmet requiring an impact cap is often very startling, but not just at training facilities. In actual fires, the Morning Pride family of helmets routinely demonstrates that non-impact cap equipped helmets are not only far more comfortable, they are also often a far safer alternative (than wearing potentially flammable impact caps and less thermally stable shells on your head).

**Florida Fire Department Helmets Photo 8** – This is a photo of a Florida fire department's helmets showing the relative condition of Morning Pride and Brand "B" competitive products after an actual fire. As shown, the FYR-Glass Morning Pride shell offers strong, high heat structural advantages, as well as the strength advantages that allow us to not require additional impact protection from a flammable impact cap. This fire department has removed all the competitive Brand "B" helmets from service and has since replaced them with Morning Pride helmets due to the superior stability and protection they offered during this event.

**Photo 8 – Florida Fire Department Helmets**



**These are just three examples out of many similar events, but they are valuable for three reasons:**

1. It was possible to take photos.
2. The fire department personnel were available and willing to document the accuracy of the photo information.
3. There were Morning Pride FYR-Glass helmets (not requiring impact caps) that performed without any similar degradation or problems during the same exposures.

As these photos clearly show, the addition of an impact cap to a helmet presents significant deterioration and structural integrity issues that could negatively impact on firefighter safety. Further, the addition of an impact cap makes the helmet more top heavy and ride high on the head. However, without the strength of our FYR-Glass shell, our competitors NEED an impact cap to meet NFPA impact performance requirements.

### Advantage #3: High Heat Performance

We were criticized by the competition when we first published the Fire Department provided photos below on the left as they claimed differing trim responses indicated differing heat loading. So, we headed back into the lab and exposed each shell to a radiant exposure of 2 W/cm<sup>2</sup> for 2 minutes (or .478 cal/cm<sup>2</sup>/sec\*, an upper ordinary exposure – see Chart 2) to see which shells resist heat better (shown on the right below).

**Brand "C"**



Note the blistered finish of the Brand "C" shell after only 2 minutes. Is this just a "salty" appearance, or a safety issue?

**Brand "B"**



The Brand "B" shell blistered even more after the same 2 minute exposure. If the finish then peels away, is this acceptable?

**Morning Pride**



The "FYR-Glass" shell was virtually unaffected after the exact same exposure that ruined the other shell finishes. No damage, no question, no problem!

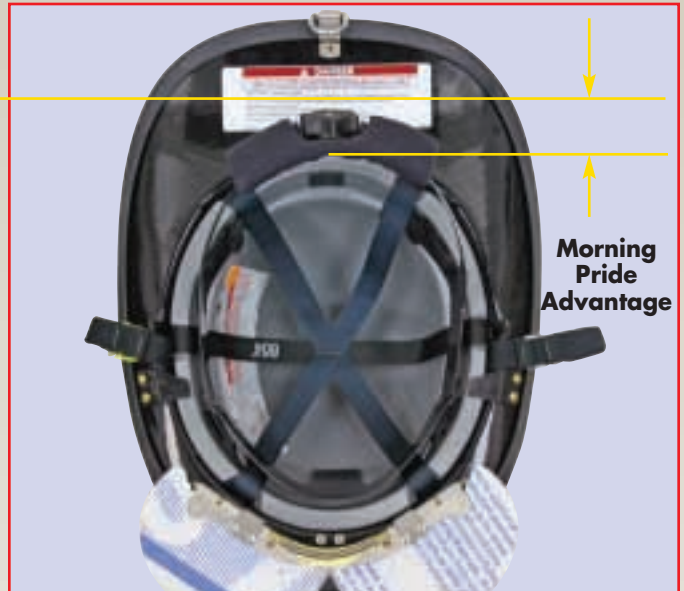
## **Advantage #4: Best Range of Available Sizes, Most Adjustable Headband**

No need for small, medium or large headband sizes. Our improved 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 for a full inch depth difference at the front and at the rear, make it possible to fit almost any head with just a few quick and easy adjustments. No tools needed.



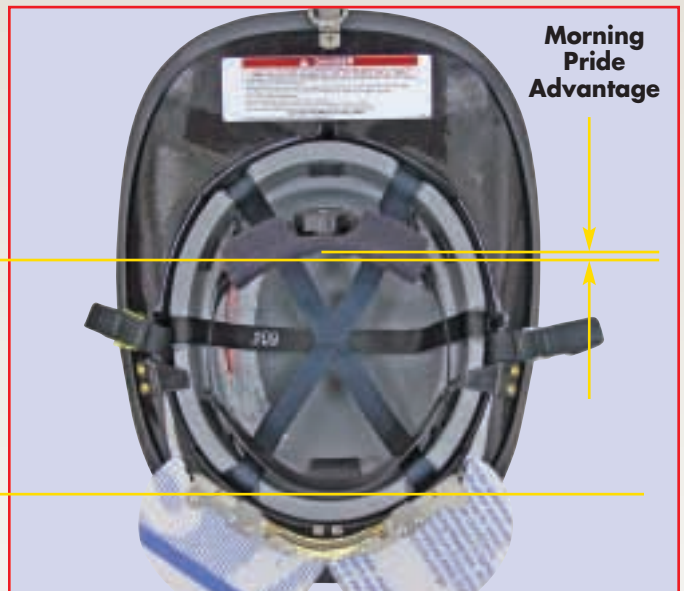
**Morning Pride Ben 2 Plus at  
Largest Headband Size**



**Competitor "C" at Largest Headband Size**



**Morning Pride Ben 2 Plus at Smallest  
Headband Size**



**Competitor "C" at Smallest Headband Size**

*Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...*



**Table of  
Contents**

**Contact Us**



## DESIGN ADVANTAGES – STRUCTURAL, PROXIMITY AND HEAVY DUTY TECHNICAL RESCUE RECOVERY/UTILITY

Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### Advantage #5: Lowest Ride, Better Fit, Lowest Center of Gravity

Our improved 8-point suspension and wider interior (plus .9 cm in diameter versus original Ben 2), coupled with the lowest center-of-gravity on the market because our shell is so strong it does NOT need a separate impact cap, provides superior ride and fit.



**Morning Pride  
Ben 2 Plus  
8-Point Suspension**

**Competitor "C"  
6-Point Suspension**

### Advantage #6: More Comfortable, Easier to Replace Suspension:

The Morning Pride Headliner cradles your head in comfort while it cushions overhead straps away from your hair and head. Plus the suspension can be replaced by itself, quickly, easily and without tools, unlike suspensions/headbands that are integral to the impact cap that are very expensive to replace.



**Morning Pride**  
2007 Retail Cost:  
\$61.24  
(including ear  
covers)  
To replace chinstrap  
only: \$21.35



**Competitor "C"**  
2007 Retail Cost:  
\$85.05  
(including ear  
covers)  
To replace chinstrap  
only: \$38.85

### Advantage #7: Protected Suspension Straps

Internally located suspension straps cannot be affected by external heat or flame. Morning Pride helmets are one of the only helmet lines on the market without externally exposed nylon suspension straps.



**Morning Pride FYR-Glass Helmet  
All Straps PROTECTED**



**Competitor "C" All Nylon Straps EXPOSED**

## **Advantage #8: Rugged and Dependable, Stays Together When You Need Protection the Most**

Helmet assembly points are engineered to remain together even under the most severe punishment unlike some suspension impact caps that are held in place with hook and loop!



**Morning Pride  
Hardware Assembly**

**Competitor "C"  
Hook and Loop  
Assembly**

This fireground photo shows firefighters bravely doing their jobs – SAVING LIVES. However, it also shows a firefighter wearing just the impact cap of his helmet...the outer shell has somehow gotten detached. This is a real safety concern for the firefighter who may not have had any idea his shell was missing and, even if he did, he was far too busy saving a life to do anything about it. Without the shell, the exposed impact cap provides only a fraction of the helmet's designed and required protection. These impact caps, we believe, are an outdated technology that we once used ourselves. Today there are newer shells on the market, ours included, that are so strong that they do not require extra impact caps and also feature fully integrated shells that will not accidentally come apart when head protection is needed the most...at a fire/rescue scene. This is a critical safety issue for all firefighters to consider as they write helmet specifications. Whatever brand helmet you buy, specify shells strong enough to NOT require an extra impact cap or that may accidentally detach to avoid this type of safety issue.

Photo courtesy of John Strickler and reprinted from *The Mercury*, Pottstown, PA, 12/17/04



*Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...*



**Table of  
Contents**

**Contact Us**



## DESIGN ADVANTAGES – STRUCTURAL, PROXIMITY AND HEAVY DUTY TECHNICAL RESCUE AND RECOVERY/UTILITY

Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### Advantage #9: Ear Covers Securely Attached

Ear covers won't fall out or be "accidentally" misplaced as they are securely installed using Nomex® webbing looped over the suspension tabs, yet can be easily removed, without tools, for cleaning.



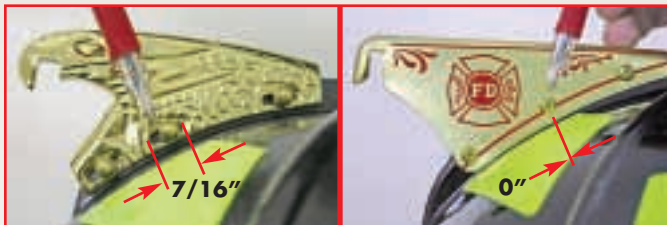
**Morning Pride Ben 2 Plus  
Ear Covers Secured with Webbing Loops**



**Competitor "C" Ear Covers Attachment**

### Advantage #10: The Only Adjustable Eagle Front Holder...More Durable Too

Mounting slots allow Eagle to move fore and aft to fit any brand/style of front. Easy to replace, if needed, because its solid lightweight construction doesn't crush the first time you drop it.



**Morning Pride – After  
One Waist-high Drop**

**Competitor "C" – After  
ONE Waist-high Drop**

### Advantage #11: Larger Hang-up Loop

Actually large enough to fit over a peg and on all Morning Pride Structural/Proximity helmets, NOT just a model or two.



**Morning Pride**



**Competitor "C"**

### Advantage #12: Leather Headband/Ratchet Option

Add the same quality leather used in Royal Air Force (RAF) fighter pilot helmet linings to your brow cover and ratchet cover for a feel and grip other materials just can't provide.



### **Advantage #13: Perfect Air Mask Fit**

Automatic interface with your SCBA mask with no extra manual steps required by the user. Fits, looks and wears the same with or without an airmask. Just try on ours versus theirs with your mask to see for yourself!



### **Advantage #14: Goggle Garage Option**

Protects from debris and radiant heat.



### **Advantage #15: Helmet Weight**

The only thing competitors can say about helmet weight is that they offer "some of the lightest helmets available on the market." They even go so far as challenging you to weigh comparably equipped helmets...and that's exactly what we want you to do, compare for yourself. When you do and try them on, we know the Morning Pride FYR-Glass helmet wears/feels lighter regardless of an ounce or two difference because of our lower center of gravity! Why? NO IMPACT CAP NECESSARY!

### **Advantage #16: Built In Goggle Retention**

Every suspension ring is "goggle ready" without adding any extra retaining parts.



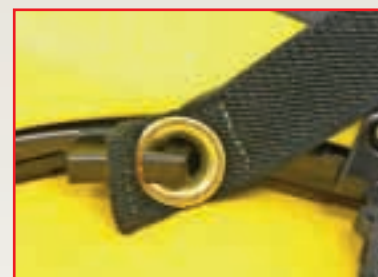
Built-in Goggle Retention System



Shown with Goggle Straps Secured to Suspension Ring

### **Advantage #17: EZ Quick Attach Goggle Attachment** (Patent Pending)

Morning Pride helmets have always featured a goggle retention strap system as a standard no-charge feature. This allowed goggles on an elastic headband to be added to helmets in the field easily.



Increasingly, customers have expressed a wish to also be able to add quick adjust goggles easily to existing helmets in the field. Quick Attach Goggles do not have the full elastic band connecting one side of the goggle to the other side of the goggle; instead, they have a shorter elastic strap with an attachment piece that goes on a post on the helmet.

We modified the goggle retention strap system to also accommodate quick attach goggles in the field, as well.

It is IMPORTANT that the end of the Quick Attach strap be twisted when installed as shown to prevent slipping off the post.

*Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...*

Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### **What is the Berry Amendment, and how is it different from made in North America?**

The Berry Amendment covers military purchases and requires that ALL textiles and specialized metals used in the product be American made. While the requirements are clear, the interpretations of the regulations vary from purchasing authority to purchasing authority since clear regulations have yet to be determined. For instance, all Total Fire Group products are made in our OH, AL, IL and PA factories, but approved steel toes for our fire boots are no longer made in the US. For that reason, some military purchasers would not consider those boots Berry compliant. To address military needs, we have stockpiled a decade's worth of US made steel toes (to allow us time to develop our own US made steel toes).

You may rest assured (that with the exception of some American Firewear products that there were contractual commitments on (when American Firewear joined Total Fire Group), and are clearly labeled as "imported" in the American Firewear catalog; all Total Fire Group products are North American made. If you also require Berry Amendment clarifications/certifications; contact our military sales desk and we will email you a complete file of all products. We offer a huge variety of Berry certified products in all categories.

### **The importance of "Made in North America"?**

First responders depend on their PPE for their safety, even for their lives. You NEED a manufacturer whose assets are accessible to you, so you have leverage to encourage only the highest of continuing quality levels. An importer often has a telephone, with assets protected by borders. In the event of a product problem, they have literally nothing at risk (except the telephone). We feel this means an importer can be tempted to cut corners, certainly some of the imported products we have dissected have showed some shocking issues (polyester linings, mixed materials, etc.). Remember, certification means that the products the certifying lab looked at were judged compliant... but we have all seen the news recently about shocking substitutions made by foreign firms over time (lead in toys, etc.). If you are considering an imported product, talk to our lab personnel to see if they have done any testing on the product. We are always glad to allow you to witness any re-testing you want at our ISO 17025 lab. This is not the first attempt of foreign firms to enter the emergency services traditionally first responders have resisted their entry for the reasons noted above, and we are confident this wave of foreign products will also be gone soon.

### **Advantage #18: EZ Change Chinstrap Replacement and/or Upgrade**

(Patent Pending)

Previously, ours and other helmet brands required the unscrewing of the chinstrap mounting plate to change or repair chinstrap parts. You can still do that, but there is a far simpler way. The EZ Change Chinstrap Replacement is now standard.

The chinstrap webbing clips into slots on the suspension ring as shown above. A notch on the tab holds the chinstrap firmly in place.



This means a regular two-point chinstrap helmet like this one, can be quickly and easily changed into a four-point chinstrap system in the field.



## Advantage #19:

**When it Comes to Field Test Wins, Patents Issued, Department Conversions and Research Grants...OUR LEAD CONTINUES TO GROW (No One Even Comes Close)!**

**If Someone Tells You We Lost a Field Test, well, we just don't lose field tests very often.** So, when a city recently advised us that we had finished last in a field test, we thanked them and asked for our helmets back. We politely explained that examining helmets returned from the field helps us design better products, and since they had decided on another brand, the field test units no longer were of value to them.

Well guess what? The "field tested" helmets were essentially pristine. As these photos show, they had not seen the field in any appreciable way.



**NO Sweat on Headband!**

**NO Heat Damage Whatsoever!**

**NOT Even Fingerprints or Scratches on the Eye Shields.**

## The Retractable VISOR "Eyewear," a Few Comments (a Competitive Offering) and Our Better Alternative



A few comments on this competitive offering...

- There are four lens options with clear and amber NFPA-compliant lenses. Yet, two of the options will not meet NFPA so why would you even offer them? The non-compliant options would be the dark smoked lens (shown above) and mirrored smoked lens, neither of which will pass light transmission requirements.

### What it is...

- At best it is basically a non-field tested version of flip down eye shields.

### What it isn't...

- Despite claims of "...protection from dust, dirt, and grit," this simply is not the case, because it is not the type of protection firefighters have come to expect with "real" goggles. It does not have a true face seal around the eyes (see photo with finger below).



Continued...

## DESIGN ADVANTAGES – STRUCTURAL, PROXIMITY AND HEAVY DUTY TECHNICAL RESCUE RECOVERY/UTILITY

Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### Issues we've seen after a few minutes with one...

#### Is it compatible with glasses?

NO. At least not if you have a larger head and wear even a medium size frame.



#### Is it easy to deploy?

No, in our opinion, it is not easy with gloved hands, and it does take two hands, unlike traditional flip downs which are easily operated with one finger.



Note that when their retractable visor loosens up enough to operate with one hand, on our sample it just fell down during common head movements.



#### Is it comfortable on small heads?

No, because if you're not careful, it will slam down on the bridge of your nose when it's deployed. Or, you have to tilt the helmet back to keep it off your nose.



#### Is it comfortable on a big head?

No, because it always digs into your nose and cheeks when deployed. **Visor fogged repeatedly during photography!**



Remember, this is not a soft "true" seal like you get with goggles. Rather, it's a hard plastic lens. Note dent in bridge of nose after just a few minutes, *not the hours that you may have to wear them.*



#### Are there any other changes?

Yes, the ear covers are mounted between the shell and impact cap at the rear, so to re-install them *properly* you have to remove the impact cap – or we were able to jam them almost into proper position with a screwdriver.



Also the ear covers now gap at the sides of the shell to allow for the Visor mechanism



## **A Better Alternative to a Retractable Visor... Morning Pride Helmets NOW Available with NFPA 1971, 2007 Edition CERTIFIED EZ-Flips!**

**Patent Pending**

### **Morning Pride EZ-Flips Offer these Strong Advantages:**

- No fogging problems
- Works perfectly with glasses
- No nose dig
- No accidental creeping down the face
- No ear cover interface problems
- Easy to deploy with a single finger of a gloved hand
- Perfect position, perfectly out of the way or perfectly deployed...no adjustments needed
- Visually and operationally identical to previous non-certified EZ-Flips
- Only from Morning Pride



**Available on Both  
the Ben 2 Plus  
Traditional and  
Lite Force Plus  
Modern Style  
Helmets**

*Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...*



**Table of  
Contents**

**Contact Us**



Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### Competitor “C” Imitation FYR-Glass...a Few Comparative Comments

**History** – Back in the early 1990s, the Competitor “C” plastic traditional helmet was challenged with the improvements in testing and performance requirements being done at NFPA. At the same time these same new requirements, as well as a couple major lawsuits, were forcing upgrades to leather helmets. Bottom line was that leather took a huge jump in price and weight, plus due to having to add an impact cap and test every size, the number of sizes had to be cut back to small, medium and large, versus the dozen or so “hat sizes.”

Simultaneously, competitors like Competitor “B” and Morning Pride, made it known that they were poised to enter the traditional helmet market too. Competitor “C’s” first reaction to that was to introduce the Kevlar® traditional shell. In our opinion, that helmet had two reinforced fiberglass major problems: it was expensive and the paint easily chipped off the Kevlar® composite and developed soft spots (just like the modern Kevlar® shell helmet did).

Facing competition from the original Morning Pride Ben Franklin 1, soon after, Competitor “B” introduced their composite traditional. The Kevlar® traditional shell was way over priced versus either of the other helmets, and you could beat on the Ben 1 with a steel rod while doing no damage.

To address these issues, Competitor “C” used the Kevlar® shell mold and substituted their regular old low compression molded fiberglass formula and introduced their fiberglass traditional helmet. In our opinion, that helmet also had some growing pains right away: all the base shells were white then primed/painted so that the shells (the ridges in particular) chipped extensively, revealing the

white shell underneath; cracking at the brim interface points; and edge beading problems.

In response, we believe Competitor “C” first tweaked the mold to thicken the shell at the cracking points. Then they added dye to the base fiberglass to at least try and get the shell closer to the color it would be painted. But, in head-to-head competition with the new FYR-Glass Ben 2 with true color throughout and seriously tougher shell, Competitor “C” just kept losing. They lost, among many departments: New York City, Chicago, Houston, Memphis and thousands of others.

In a final effort, they sourced out a cheaper Sheet Molded Compound (SMC) that they could use in their low compression molds. It had color throughout, but was and is NOT FYR-Glass by any means (see pages 10, 11 and 12 on how the two are made and the difference in final material strength, etc.)

The Competitor “C” SMC traditional was still hobbled by many of the same things that plagued the Kevlar® and fiberglass shells:

- 1) the low pressure SMC is still a weaker shell (easily fails the screw driver demo);
- 2) exposed flammable nylon suspension straps to the fire environment;
- 3) swelling impact caps;
- 4) shell release happening at the wrong time;
- 5) higher center of gravity with the impact cap;
- 6) crushing and expensive to replace eagles;
- 7) difficult to adjust suspensions;
- 8) more expensive parts and more frequent repairs that increase lifespan costs;

The following pictures illustrate some of the cosmetic differences that many fire departments have reported to us that are a sore spot with them, and are often given as reasons they chose the Ben 2 over the fiberglass and SMC shells.

**Front View  
Competitor “C”**



**Competitor “C” – Looks too “Squat” and they don’t Like the Look of the Little Black “Hot Dog” Face shield Brackets**

**Morning  
Pride**



**Ben 2 – Shape Looks Like Leather But, without Leather’s Excessive Weight and Offering Improvements in Strength (See FDNY Photo on the Right)**

**Back View  
Competitor "C"**



**Competitor "C" – Again, Wide and Squat Look**

**Morning  
Pride**



**Ben 2 – Designed with a More Leather Look and Shape but, at Much Lighter Weight**

**Competitor "C"**



**Competitor "C" – Shell and Colors are Now too Dull as Opposed to the Previous Kevlar® and Fiberglass that were too Shiny**

**Morning  
Pride**



**Ben 2 – Like Baby Bear's Porridge...the Color and Shine are Just Right!**

*Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...*



**Table of  
Contents**

**Contact Us**



Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...

### Competitor "C" Plastic Helmet...a Few Comparative Comments

#### History:

The Competitor "C" plastic traditional was one of the early injected molded thermoplastic traditional helmets. For awhile, the Competitor "B" transformed post-war cellulose/fiberglass composites to a plastic also. While other traditional plastic helmets had only front to rear ridge(s), Competitor "C" modeled itself after a leather helmet with the 8 ridges. The 8-ridge design won out and the other two designs disappeared while still in the pre-NFPA era.

The plastic traditional survived the initial introduction of NFPA. That is until such time as the Standard removed the mysterious "Black Ball" used to shield the thermocouple inside the test oven, and soon after third party independent testing was required. One week, under old self testing tests, the plastic traditional was a "certified" NFPA product and a week later, "poof," it wasn't! Initially they had upgraded from plain polycarbonate (Lexan) to PPC, and then to Ultem...each plastic having progressively higher heat resistance. But when third party testing was required, the plastic traditional faded into the past.

#### The "Backdraft Effect"

Then along came Ron Howard and his movie crew and they made the movie *Backdraft*, a period piece featuring the plastic traditional in a leading role. Regardless of what you think about the realism of the movie's fireground scenes, interest in that old helmet skyrocketed. Rumors began almost immediately that Competitor "C" was going to "Bring the ol' Gal Back", but time passed and the rumors subsided.

#### After 9/11...

All of us in the fire service can attest to the increase in traditional helmets sales immediately following the tragic events of that day, which has continued ever since.

So the new parent company of Competitor "C" (who ironically had been knocked out of the helmet market by Competitor "C" and others) decided they could "Fix" the plastic traditional and make it pass NFPA.

#### How'd they do that?

Those who remember the original plastic traditional know that it had a 4 point suspension, a plastic dome and sometimes they put a Styrofoam "Donut Ring" glued up inside. Basically, in our opinion, it was a hard hat with a little thicker shell and a big brim on the back. Due to the lack of sophisticated suspension or testing or performance, it sat way low on the head and looked pretty cool back in the day before full SCBA and hood use (and NFPA performance requirements).

So, as the title of this section says..."How'd they do that?" First they had to put in an impact cap, keep the upgrade to Ultem, shallow up the suspension and, just as important as all the others combined, *create an oversized edge beading they could use to hide a steel hoop inside*. Huh? Yes, a steel hoop inside so when the back of the brim goes to melt and sag down (failure at 1 5/8" droop in NFPA) that the front of the brim is yanked up as a counter balance. Now, I know what you are thinking...the author is full of it...but to the contrary, check out these two photos:



## Comparing Against the New Plastic Traditional Helmet

Early on, the Competitor "C" tradeshow and field demonstrations for the resurrected plastic traditional was to fill the competitive helmet and our Ben 2 Plus with water, then pour the different amounts into equal sized clear containers to show how much less water their helmet would hold compared to a Ben 2. "Surprise, Surprise, Surprise," the plastic traditional held less water than any other helmet...no kidding, Sherlock...it has an impact cap taking up

a huge amount of space that displaced the water and it is a very tiny helmet to begin with, in fact it almost has a "toy-like" appearance. How "toy-like," you ask? Check these pics:

### Selling Point #1 – Fit and Appearance

As the previous photos clearly show, and easily demonstrated in the field if you can have them wear each for just a moment... being so far up on the head makes the new plastic traditional a bit wobbly for those of us with average or larger sized heads.

**Competitor  
"C"**



**Plastic Traditional  
Right Out of the Box**

**Competitor "C"**



**Dome so Small the Eagle has to  
Angle Way Up**

**Morning  
Pride**



**Ben 2 Plus Right Out of  
the Box**

**Morning Pride**



**Ben 2 Plus Designed to be Equivalent Size  
as a Medium Sized Leather Helmet  
(But without Leather's Weight and Superior to  
Leather Strength)**

*Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continue...*



**Table of  
Contents**

**Contact Us**

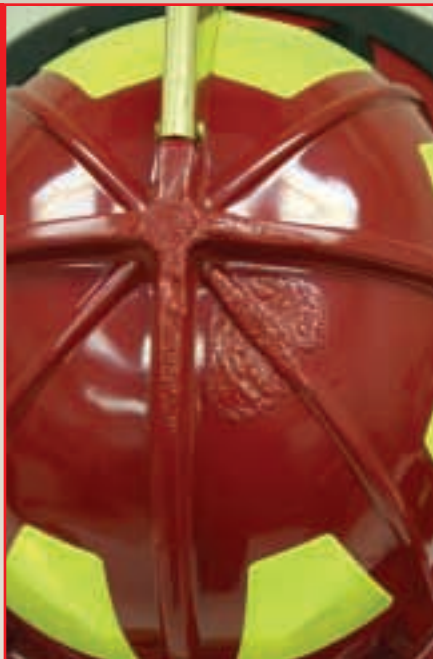


*Design Advantages – Structural, Proximity and Heavy Duty Technical Rescue Recovery/Utility Continued...*

### **Selling Point #2 – Heat Resistance**

Plastic is plastic. It just does not stand up to the heat the way fiberglass or any other composite will. Photos compared to FYR-Glass:

**Plastic  
Traditional at  
2 Watts/  
square cm for  
2 Minutes –  
Blistered**



**Ben 2 Plus at  
2 Watts/  
square cm for  
2 Minutes –  
Nothing**



**Plastic Traditional in Oven at 500° F  
for 5 Minutes...Note Waffled Brim**



**Ben 2 Plus in Oven at 500° F  
for 5 Minutes – Nothing**



**BOTTOM LINE ON THE NEW PLASTIC TRADITIONAL:**

- It does NOT "Fit" Like the Original
- It does NOT "Sit" Like the Original
- It is NOT "Lightweight" Like the Original
- But, it Sure Still "Melts" Like the Original!



**Table of  
Contents**

**Contact Us**

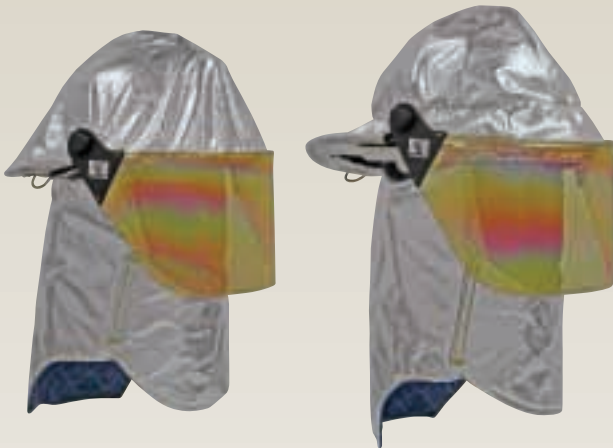


## **Specialized Helmet Outer Covers, Shrouds and Faceshields**

Unfortunately, less than informed and/or unscrupulous companies are now offering Proximity components (i.e. helmet outer covers, shrouds, etc.) and claim that they can be used "on any brand of helmet." NFPA Standards directly disagree! Use of non-original equipment components will void your certification on any brand NFPA helmet! Only original equipment components can be used on any brand helmets to maintain their safety, certification and insurance liability coverage. NO EXCEPTIONS (see NFPA 1971, 2007 Edition)

### **Standard Shroud Style**

NFPA 1971, 2007 Edition certified Lite Force Plus and Ben 2 Plus. Available in Standard and J-Fire configurations. Helmet shrouds now include breathable W.L. Gore moisture barrier and thermal liner. Gold-coated, six-inch faceshields and helmet outer covers are standard.



**Lite Force Plus Modern Ben 2 Plus Traditional**

### **J-Fire Shroud Style**

Specialized Military J-Fire Proximity equipment available ONLY through GSA. Contact our Customer Service Department.



**J-Fire Style**

**Note:** On all Proximity helmets, underlying shell color must be specified. When no underlying shell color is specified, we assume color matching is not an issue and will ship the underlying shell color(s) of our choice. Underlying shell color is not exterior visible since aluminized shroud/ear covers completely cover the shell.

### **Combo Shroud Style – Patented**

#### **Superior Design and Significant Improvements:**

- Increased head and neck mobility
- Far more room for telecommunication devices
- Much cooler with better internal air circulation



**Available for both Traditional and Modern (shown) Helmets**

### **Flannel Protective Faceshield Cover**

Protect your gold-coated faceshield investment during storage or transport with this inexpensive option.



**Traditional Proximity Model shown with optional Flannel Protective Faceshield Cover**

**Note: See Page 57 for Important Information on Cleaning and Care of Aluminized Products.**

**Optional Face Protection Visors:** Visor brackets are available for front brim and full brim models. Both use the same face-shield or mesh screens. No tools are required for installation.

1

**Optional Hearing Protection:** Muffs can be used by themselves or in conjunction with visor brackets, on all front brim and full brim models. No tools are required for installation.

2

**Ear Covers For Every Purpose:** None of these helmet models are required to have ear covers. Choices of optional ear covers and materials are described on page 59.

3

**The Best Choice of Goggles:** Select from Paulson or ESS brand goggles with Pbi®/Nomex® elastic straps. Choose Wildland (NFPA 1977) style, or the higher performance of Structural (NFPA 1971) so they can be used on all your fire helmets.

4

**Headlamp Retention Clips:** Specially designed clips hold headlamps securely to Technical Rescue Recovery/Utility and Wildland helmets.

5

**Stay-On Goggle Clips:** Uniquely designed internal retaining clips keep goggles on helmets if goggles slip over top of dome.

6

**More Comfortable:** Specially made headliner cradles your head in comfort while it cushions overhead straps away from your hair and head.

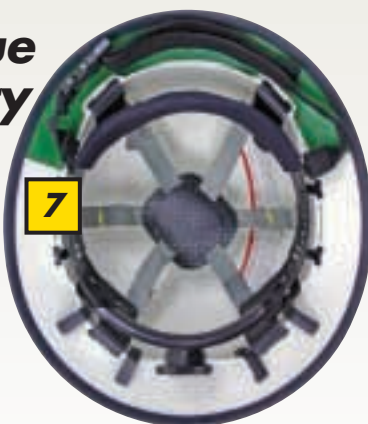
7

**Leather Headband/Ratchet Option:** Add the same quality leather used in RAF fighter pilot helmet linings to your brow cover and ratchet cover for a feel and grip other materials just can't provide. Shown on page 58.



## Lightweight Technical Rescue Recovery/Utility and Wildland

Six point suspensions, two-way front and rear headband depth adjustment with separate rear width adjustment provide for proper fit and comfort on Full Brim and Front Brim helmets. Optional leather headband/ratchet cover also available.



**EMS** Automatically threaded and electronically welded overhead diagonal straps give the EMS (4 point) suspension superior performance at an economical price. Four-way headband depth adjustment front and rear provide for proper fit and comfort. Uses standard hard hat style ratchet.

Optional leather headband/ ratchet cover available.



Table of Contents

Contact Us



## Quick Delivery Program for Stock Helmets

### Quick Delivery Stock Helmet Program

Due to continued strong growth in both the Ben 2 Plus and Lite Force Plus helmets, we have expanded our helmet manufacturing facility. This expansion allows us the extra space needed to offer a Quick Delivery Stock Helmet Program with 1 Week Shipping.

Helmets included in our Quick Delivery Stock Helmet Program:

<b><u>Model</u></b>	<b><u>Color</u></b>	<b><u>Configuration</u></b>
HDO Ben 2 Plus with Faceshield	Black	Standard
HDO Ben 2 Plus with Faceshield	Yellow	Standard
HDO Ben 2 Plus with NFPA Certified EZ-Flips	Black	Standard
HDO Ben 2 Plus with NFPA Certified EZ-Flips	Yellow	Standard
HDO Lite Force Plus with Faceshield	Black	Standard
HDO Lite Force Plus with Faceshield	Yellow	Standard

#### HDO Ben 2 Plus Standard Configuration:

- Black or Yellow Shell
- 4" x .150" APEC Faceshield or NFPA Certified EZ-Flips
- Nomex® Quick Release Chinstrap with Postman Slide
- Yellow Nomex®/2-Layer FR Cotton HDO Ear Covers
- 8 Reflexite® Lime Trapezoids
- NFPA 1971, 2007 Edition Certified
- Lifetime Warranty

#### HDO Lite Force Plus Standard Configuration:

- Black or Yellow Shell
- 4" x .110" APEC Faceshield
- Nomex® Quick Release Chinstrap with Postman Slide
- Yellow Nomex®/2-Layer FR Cotton HDO Ear Covers
- 5 Reflexite® 1" x 4" Lime Bars
- NFPA 1971, 2007 Edition Certified
- Lifetime Warranty

There will be no up-charge for helmets purchased from the Quick Delivery Stock Helmet Program.



#### IMPORTANT NOTES:

- All orders must be submitted on the Quick Delivery Order Forms. Electronic Word forms online at: [www.totalfiregroup.com](http://www.totalfiregroup.com) and click on catalogs.
- Quick Delivery Helmet Fronts should always be ordered separately from helmets.
- Freight is FOB Factory

**Stock Helmets SHIPPED within 1 Week of Receiving Helmet Order.**

**Completed Quick Delivery Order Forms MUST Accompany each Stock Helmet Order.**

## Quick Delivery Program for Stock Fronts

### Quick Delivery Front Program:

By dramatically increasing on-hand inventories of our most popular and versatile fronts, and by providing a streamlined order processing system, we can now ship the following fronts in 1 Week after receipt of a completed Quick Delivery Traditional or Modern Front Program Order Form.

Fronts included in our Quick Delivery Front Program:

#### Traditional Front Configuration:

- Choices of Leather Colors: Black, White or Red
- Choices of Background Color of Cut-outs: Black, Silver/White or Red
- Top Arched Wording: Can Specify up to 15 Black, Silver/White or Red Characters/Spaces
- Bottom Cut-out Wording: Can Specify up to 16 Black, Silver/White or Red Characters/Spaces
- Inserts: Can Specify up to Three 1¾" Numerals, or One 2" Reflective Circular Rank Insignia

#### Modern Front Configuration:

- Choices of Leather Colors: Black, White or Red
- Top Arched Wording: Can Specify up to 15 Black, Silver/White or Red Characters/Spaces
- Center Wording: Can Specify up to Three 1¾" Numerals or One 1¾" Reflective Circular Rank Insignia
- Optional Extra Charge Bottom Wording: Can Specify up to 15 Black, Silver/White or Red Characters/Spaces (Center Numerals Must be Smaller)

#### IMPORTANT NOTES:

- All orders *must* be submitted on the Quick Delivery Order Forms. Electronic Word forms online at: [www.totalfiregroup.com](http://www.totalfiregroup.com) and click on catalogs.
- Quick Delivery Helmet Fronts should always be ordered separately from helmets.
- Freight is FOB Factory



**Traditional  
Leather  
L.A. County  
Front HF-LACO**



**Traditional  
Leather  
L.A. County  
Passport Front  
HF-PS15**



**Hook and Hoop®  
Insert HF-PS8**



**Modern Leather  
Passport/  
Accountability  
Front - HF-PS2**

**Stock Fronts SHIPPED within 1 Week of Receiving Helmet Order.**

**Completed Quick Delivery Order Forms MUST accompany each Stock Front Order.**

## Tired of Waiting for Helmets? Expanded Manufacturing Capabilities Mean Morning Pride Helmets Often Ship in Days!

#### Other reasons to consider Morning Pride Helmets:

- 30-day delivery or less on almost all other helmet orders
- Major metro field test wins and references including FDNY, Houston, Denver, Jacksonville, Memphis, etc.
- The ONLY NFPA certified EZ-Flips in the industry (patented and patent pending)
- Shells that are demonstrably 6.5 times stronger than competitive products
- Morning Pride shell strength means we can bring the helmet way down on the head for the lower ride most often preferred in the field.



**A shell so strong, the top heaviness and weight of an impact cap is no longer needed!**

## Structural/Proximity and Heavy Duty Technical Rescue Recovery/Utility Shell Discussion

### FYR-Glass Shell Technology Products

The shells on the Ben 2 Plus, Lite Force Plus, Proximity Plus and Heavy Duty Technical Rescue Recovery/Utility are all made from our special formula FYR-Glass composite material. This super tough shell material has been proven for years in field use to resist cracking, chipping and peeling (even on helmet ridges) better than conventional fiberglass composites, painting or coating methods, and even Kevlar® reinforced shells.

The key to this durability success is using 100-ton presses to apply over 1,000 psi of pressure while heating the mold to very high temperatures. This process compresses the layers of fibers and exclusive resins to the point where they fuse into an extremely strong, yet shock dissipating, composite. While the molds are an incredible expense, our investment in your safety and the products' superior durability make it more than worthwhile.

#### FYR-Glass vs Conventional Compression Molded Fiberglass

Property	ASTM Test No. <sup>1</sup>	Morning Pride FYR-Glass <sup>2</sup>	Conventional Compression Molded Fiberglass <sup>3</sup>	FYR-Glass Advantage
Impact Test, Izod	D-256	35 foot-lbs/inch	12 foot-lbs/inch	2.91 to 1
Flexural Strength Before Breaking	D-790	78,000 psi	18,000 psi	4.33 to 1
Deflection Temperature Under Load	D-648	572° F 300° C	396° F 202° C	1.49 to 1
Tensile Strength	D-638	52,000 psi	8,000 psi	6.50 to 1

<sup>1</sup>All ASTM test methods run on .250 inch samples as required.

<sup>2</sup>Morning Pride exclusive material not available to competitive manufacturers.

<sup>3</sup>Material data provided by a manufacturer of conventional compression molded fiberglass.



Shown with *highly recommended* options

## Lightweight Technical Rescue Recovery/Utility and Wildland Shell Discussion

### Thermo-FYR Injection Molded Shell Technology

The shells on the Lightweight Technical Rescue Recovery/Utility and Wildland helmets are all made from our specially engineered Thermo-FYR, high temperature thermoplastic. This specially engineered thermoplastic material provides the ideal characteristics needed for Technical Rescue Recovery/Utility Incidents and Wildland fire fighting.

## EMS Shell Discussion

### Poly-Med Injection Molded Shell Technology

The shells on the EMS helmets (which meet ANSI Z891-2003, Type 1, Class E) are all made from our specially engineered Poly-Med injection moldable, high density plastic. This specially engineered thermoplastic material provides the ideal characteristics needed by today's deeply involved EMS personnel.



### New Edition of NFPA 1971 Now in Effect...

The 2007 edition of NFPA 1971 became effective in August of 2006. Included in this new edition are a number of changes that will have a significant impact on structural fire fighting helmets. For quick reference, listed below are changes made to the Standard and the impact on the Morning Pride Helmet line.

#### General changes to the 2007 Edition Standard of NFPA 1971...

- The NFPA standard is now formatted with separate chapters on terminology and certification. Labeling requirements now appear in Chapter 5, Design Criteria in Chapter 6, Performance Criteria in Chapter 7, and Test Methods in Chapter 8. References are now located at the front of the document in Chapter 2.
- One significant technical change is the merger of NFPA 1976 covering Proximity Fire Fighting Protective Ensembles with NFPA 1971 for Structural Fire Fighting Protective Ensembles. The merger takes advantage of the fact that many of the requirements between the two types of ensembles are identical. The requirements in the Standard are now organized with one section which applies to both types of helmets, another section on requirements specific to Structural fire fighting helmets and a last section on requirements specific to Proximity fire fighting helmets.
- A CBRN (Chemical/Biological/Radiological/Nuclear) option has been added to the Standard for both Structural and Proximity fire fighting ensembles. The CBRN option is for demonstrating protection against chemical, biological, radiological and nuclear particulate agents that could be released during a terrorism incident. The option includes a series of design, performance and labeling criteria in addition to base requirements of the 1971, 2007 edition Standard. In order to be compliant to this option, the manufacturer must specify a full ensemble including garment, hood, gloves, footwear and SCBA, excluding the helmet which is not integral to the CBRN protective ensemble. Only a full ensemble can be certified, and the certification of individual components is not permitted under the CBRN option.

#### Helmet Changes

- Helmets must still be supplied with faceshields or goggles, but goggles are no longer required to be attached to the helmet. We will continue to ship goggles attached to the helmet, and the customer can disengage them in the field if desired.
- Flame resistance testing of the helmets will now include the application of the flame inside the brim at the goggle attachment points. This testing will provide an evaluation of helmet components not previously evaluated.

While we will require no design adjustments, we feel it is likely that some brands may require adjustments.

- The ear covers provided with helmets must now meet a thermal protective performance (TPP) requirement of 20 or more. Previously, there was no insulation requirement for this part of the helmet. This insulation is consistent with the minimum TPP requirement for hoods and wristlets, and will result in more robust ear covers on some brands.

For a complete discussion on how the 2007 edition of NFPA 1971 (Structural and then Proximity firefighter clothing and equipment) will impact ALL elements of our product lines, please see the Total Fire Group Reference Guide.

**Note:** Once we have refined our product offerings, we will issue updated literature that allows easy specifications of these options on CBRN and non-CBRN gear.



## Project HEROES® and the NFPA 1971, 2007 Edition CBRN Option...

Project HEROES® is a Department of Homeland Security (DHS) contract administered by the International Association of Fire Fighters (the IAFF) to design bunker gear of the future. The Project Team also includes the International Association of Fire Chiefs (the IAFC), the National Institute of Occupational Safety and Health, (NIOSH), International Personnel Protection, Inc., Morning Pride Manufacturing, Total Fire Group, University of Massachusetts and University of Arkansas. The full Project HEROES® design concept will feature a new moisture barrier and numerous new design concepts.

One goal of the Project HEROES® work was to design bunker gear that provides passive protection against unanticipated exposure to Weapons of Mass Destruction (WMD) agents (other goals include a self-cooling system and improved interface area burn protection). Another goal was to create a certified protective ensemble that is as indistinguishable as possible from current structural fire fighting gear but still offers improved CBRN protection, while improving thermal protection, comfort and functionality during routine structural fire fighting.

All prime entry points for these WMD agents were addressed and may also offer more effective interface areas for standard structural fire fighting by creating a barrier to the types of heat and liquids that may be encountered in normal structural fire-fighting. Many fire departments have had burns in many of these areas. Burns can occur rapidly when even mildly heated water and/or air touches bare skin. While the full Project HEROES® design concept is not yet ready for field test, the integrated boot and pant concept is. As of the date of this catalog, FDNY is conducting a pilot program which will allow them to consider whether such an integrated system offers advantages, and it will also prove helpful to the Project HEROES® full design project as it will be the first field use of a Project HEROES® design feature. With FDNY input, the full Project HEROES® field test is scheduled to be completed toward the middle of the year.

Helmets, however, are not affected by the addition of the CBRN option because they are not integral to the CBRN protective ensemble, and no changes are needed to any products on the market.

### Project Team



International  
Personnel  
Protection, Inc.

**Integrated Hood**

**Facepiece Mate**

**Insulating Cooling System**

**Front Closure Interface**

**Magnet Mate Gloves**

**Coat-Pant Interface**

**Collapsible Fly**

**Integrated Boots and Pants**



## Ben 2 Plus

NFPA 1971,  
2007 Edition  
Certified



### Standard Models:

**HT-BF2-BPR** – Bloodborne Pathogen Resistance  
Requires Moisture Barrier-backed  
Ear Covers and Faceshield

**HT-BF2-HDO** – Head Only Protection

## How to Build Your Helmet:

### Step 1: Specify Basic Assembly:

Includes 8-point Padded Ratchet Suspension and Hang-up Loop

### Step 2: Choose Required Components:

- Chinstrap Choice
- Ear Cover Choice
- Eye and Face Protection Choices – must include faceshield or goggles to meet NFPA
- Headband/Ratchet Cover Choice
- Retroreflective Trim Pattern/Package Choice
- Traditional Eagle Front Holder Choice

### Step 3: Select Options:

- Optional Accessories
- Optional Fronts
- Auxiliary Helmet Products (See Page 64)

Shell Colors: B–Black, W–White, R–Red, Y–Yellow,  
O–Orange, U–Blue, G–Green

Visit [www.totalfiregroup.com](http://www.totalfiregroup.com) and Click on Catalogs for Our Helmet and Front Specifying Worksheets.

## REQUIRED COMPONENTS

### Chinstrap Choices



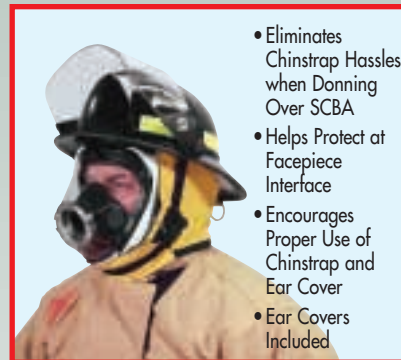
Nomex® Postman Slide and  
Quick Release  
**HP-CDB-2007**



Nomex® Milwaukee Chinstrap  
**HP-CMW-2007**



Nomex® 4-Point with  
Quick Release  
**HP-CN4-2007**



- Eliminates Chinstrap Hassles when Donning Over SCBA
- Helps Protect at Facepiece Interface
- Encourages Proper Use of Chinstrap and Ear Cover
- Ear Covers Included

Maskmate™ – 1½" Hook and Loop  
Quick Closure  
Nomex® – **HP-CMM-2007**  
Pbi® – **HP-CMM1-2007**

### Ear Cover Choices



**Standard BPR Configuration**  
Yellow Nomex®/Crosstech® PJ/FR Cotton  
**HP-F40-2007**

**Standard HDO Configuration**  
Yellow Nomex®/2-Layers FR cotton  
**HP-F50-2007**

Black Pbi®/2-Layers FR Cotton  
(FDNY Spec Optional Material Choice)  
**HP-F52B-2007**

Other Outer Shells, Moisture Barriers and Colors Available



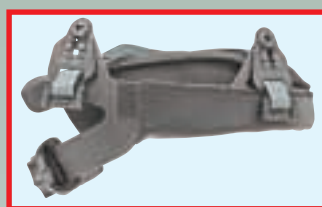
Canadian Style Ear Cover  
**HP-F60-2007**

## REQUIRED COMPONENTS

### Eye and Face Protection Choices

<b>STANDARD</b> 	 Amber Tint Higher Temp Resistance Polyarylate Material				
4" x .150" APEC Faceshield <b>HP-E150</b>	4" x .150" DURA-Shield <b>HP-E150DS</b>	Paulson NFPA 1971 Goggles <b>HP-E30</b>	ESS NFPA 1971 Goggles <b>HP-E20</b>	ESS NFPA 1971 Quick Attach Goggles – <b>HP-E22</b>	NFPA 1971 EZ-Flips <b>HP-EEZNFPA</b> EZ-Flips – <b>HP-EEZ</b>

### Headband/Ratchet Cover Choices



**STANDARD** Headband/Ratchet Cover – **HP-R01**  
Leather Headband/Ratchet Cover – **HP-RLR**

### Retroreflective Trim Pattern/Package Choices

<b>STANDARD</b> 			
Trapezoids (8) Reflexite® Lime – <b>HL-BRTL</b>	Trapezoids (8) GLO-Flex® Yellow – <b>HL-BGT</b>	Trapezoids (8) 3M™ Scotchlite™ Lime – <b>HL-BSTL</b>	Trapezoids (8) 3M™ Scotchlite™ 2-Tone Lime – <b>HL-BTTL</b> Orange – <b>HL-BTTO</b>

**Custom Packages:** If you desire something else, our Customer Service Department will evaluate whether it is compliant to standards and work up a cost for you. If a trim item must be special ordered, you will be advised as to any delays that might occur.

### Traditional Eagle Front Holder Choices



Golden Alloy Plating  
**HP-HAE**  
• Will Not Tarnish Like Brass  
• Forged Aluminum Alloy  
• Extremely Durable



Stamped Brass  
**HP-HSE**  
Less Durable but  
More Detailed

## OPTIONAL ACCESSORIES

**Faceshield Logo Decals**



**HP-EC**

**Goggle Garage**

Patent is Not  
Invalidated if  
Ordered  
Separately



**HP-GG**

**TAC Trim/  
Helmet Cover**



**HP-M200**

**Winter Liner  
Insert**



**HP-WLB**

**Fire-Warrior  
Mounting Kit**



**TI-MT-A-193-2**



**Table of  
Contents**

**Contact Us**



## OPTIONAL FDNY FRONTS

### FDNY Fronts

There are four separate FDNY (Fire Department New York City) fronts, all three layers: the three shown on this page and the Chief's Gold Leaf custom front on page 51. The choices of color combinations noted on leather frames, leather panel inserts, and retroreflective backgrounds/lettering are those of FDNY, and are supplied as reference only. Color denotes type of service as follows within FDNY:

Engine Company: Black      Marine Division: Green  
Ladder Company: Red      Squad: Yellow  
Rescue Company: Blue      Probationary: Orange

**Your department is not limited to these FDNY combinations, designations or uses\*** You may choose any style front with any color leather frame, leather color insert panel and retroreflective color background/lettering, or you may use the name of the department in the bottom cut-out panel, etc.

Your choices of colors per item are as follows:

**Leather Colors for Fronts, Frames, and Inserts:**  
Black, White, Red, Yellow, Blue, Orange, Green, Gold

**Reflective Colors for Cut-Outs, Reverse Numbers and Lettering:**  
Black, Silver/White, Red, Gold, Blue, Green, Yellow, Orange

### Assigned Officer Front HF-AOF

**1 Front** FDNY always white. Ordered separately.



**2 Reflective Background**  
FDNY designates service by the Retroreflective background color.

**3 Reflective Lettering**  
Ordered separately. Approximately 1/2" high. FDNY always uses white. HF-RBLS

**4 Heraldic Reflective Insignia** Ordered separately. FDNY uses them only on Assigned Officer Fronts as follows: HF-Hi

Captain Insignias	Lieutenant Insignias	Type of Service	Outline Color and Color
		Engine	Black/Gold
		Ladder	Red/Gold
		Rescue	Blue/Gold
		Marine	Green/Gold
		Squad	Yellow/Black

### Firefighter Front HF-FF

**5 Frame** FDNY uses black. Ordered separately.

**6 Reflective Bottom Numbers** Ordered separately. Approximately 1" high. FDNY always uses white I.D. numbers, but they are available in both letters and numbers. HF-RBLL

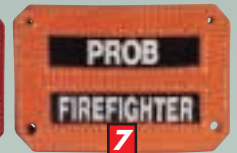
**7 Firefighter Panel Inserts** HF-Pi, HF-Pi2  
Ordered separately. Held in center opening by lower mounting nuts and at top by brass split brads. FDNY uses silver/white background (shows behind cut-out numbers or bar cut-outs) and leather panel color is designated by type of service. Other colors of leather and backgrounds are available.\*



Shown without Insert Panel



Example of Ladder Company Panel Insert HF-Pi



Special Probationary Insert - HF-Pi2

### Covering Officer Front HF-COF

**8 Frame** FDNY always uses white. Ordered separately.

**9 Reflective Bottom Lettering** HF-RBLS  
Ordered separately. FDNY always uses black on white retroreflective cut-out background.

**10 Covering Officer Inserts** HF-COPi  
Ordered separately. Held in center opening by lower mounting nuts and at top by brass split brads. FDNY uses white leather insert and background retroreflective color behind unit number cut-out designated by type of service. All colors of leather and retroreflective background colors available.\*



Shown with Example of Squad Panel Insert Installed



Example of Ladder Company Panel insert

**\* SPECIAL NOTE:** We only stock FDNY colors. Please call our Customer Service Department if you choose other than FDNY color combinations to check delivery.

## STRUCTURAL HELMETS – TRADITIONAL

Visit [www.totalfiregroup.com](http://www.totalfiregroup.com) and Click on Catalogs for Our Helmet and Front Specifying Worksheets.

### OPTIONAL TRADITIONAL LEATHER FRONTS

#### L.A. County Front

HF-LACO

Developed with the input of the L.A. County Fire Department, this 3-layer traditional leather front has retroreflective 3M™ Scotchlite™ background and lettering that provides increased visibility. Comes with top and bottom lettering (approx. 15 characters/spaces) and center 1¾" block style numbers (3). Can substitute retroreflective circle rank insignia in center (see page 64).

Note: More than 3 center characters will reduce size to 1". Large assortment of color combinations available.



#### Houston Front

HF-HSTN

Developed with the input of the Houston Fire Department, this 3-layer traditional leather front has retroreflective 3M™ Scotchlite™ background and lettering that provides increased visibility. Comes with top and bottom lettering (approx. 15 characters/spaces) and center 1¾" block style numbers (2). Can substitute retroreflective circle rank insignia in center (see page 64).

Note: More than 2 center characters will reduce size to 1". Large assortment of color combinations available.



#### Recognition Award Front

HF-CRA

Developed with the input of FDNY for their recognition awards, this 3-layer traditional leather front has retroreflective 3M™ Scotchlite™ background and lettering that provides increased visibility. Comes with top, center and bottom lettering (approx. 15 characters/spaces for each).

Note: Large assortment of color combinations available.



#### Memphis Front

HF-MEM (Front) HF-Pi3 or HF-Pi5 (Insert)

Developed with the input on the Memphis Fire Department, this 3-layer traditional leather front resembles the FDNY Covering officer front with the addition of an arched cut-out at the top. Has retroreflective 3M™ Scotchlite™ background and lettering that provides increased visibility. Comes with top and bottom lettering (approx. 8 top and 15 bottom characters/spaces). The insert is leather and comes with retroreflective or sewn 1¾" block style numbers (3).

Note: More than 3 center characters will reduce size to 1". Large assortment of color combinations available.



HF-Pi3



HF-Pi5

#### Field Comm Unit Front

HF-LFC

Developed with the input of FDNY as their field command unit front, this 3-layer traditional leather front has retroreflective 3M™ Scotchlite™ background and lettering that provides increased visibility. Comes with top, center and bottom lettering (approx. 15 characters/spaces for each).

Note: Large assortment of color combinations available.



See Page 64 for Auxiliary Helmet Products



## OPTIONAL TRADITIONAL LEATHER FRONTS

### Truck Lettered Front HF-TRK

One piece heavy gauge cowhide leather scrolled front with retro-reflective 3M™ Scotchlite™. This shield is a really affordable upgrade choice. Comes with top and bottom lettering (approx. 15 characters/spaces) and center 1 3/4" rounded numbers (3). Can sub Retroreflective Circle Rank Insignia in center (see page 64).



Note: More than 3 center characters will reduce size to 1". Large assortment of color combinations available.

### Basic Front

HF-BASIC

One piece heavy gauge cowhide leather front with garment style 3M™ Scotchlite™ title tape and 3 numbers. Can substitute garment style 2" Maltese Cross for center.



**Leather Colors:** Black, Red, White

**3M™ Scotchlite™ Colors:** Lime, Silver/Gray, Orange Red

## OPTIONAL CUSTOM LEATHER FRONTS

### Custom Fronts

Through our Customer Service Department we can assist you in designing a leather front to meet your own specific needs (see samples). When necessary, tooling charges must be billed separately or, on larger quantity orders, tooling charges can be included in the per unit price.

**NOTE:** Custom-designed and hand-painted fronts may require longer delivery.



Fort Worth  
HF-FWTH



Sacramento  
HF-SCRAM



Acting Batt Chief (Recessed)  
HF-ABCC



Acting Batt Chief (Raised)  
HF-ABCR



Arched Assigned Officer  
(Recessed) - HF-AAF



Field Comm Unit (Raised)  
HF-LFCR



Columbus - HF-COL  
\*Chicago - HF-CHi



Gold Leaf  
HF-GLD

\*Not Shown. Same as Columbus Front but without notch at top and top faceshield stopping caps.



Table of  
Contents

Contact Us



## STRUCTURAL HELMETS – TRADITIONAL

Visit [www.totalfiregroup.com](http://www.totalfiregroup.com) and Click on Catalogs for Our Helmet and Front Specifying Worksheets.

### OPTIONAL CUSTOM LEATHER FRONTS

#### Passport/Accountability Systems

To aid departments in identifying company assignments and individual firefighters, Morning Pride offers a number of Traditional Passport/Accountability systems. Permanently mounted front pieces offer hook and loop replaceable unit assignment marking for rapid, yet secure, swaps.

##### Passport Houston Front – HF-PS3

The frame features reflective lettering and backgrounds with hook and loop centers for inserts. The insert **HF-PS4** is leather with mating hook and loop sewn to back and will accommodate two 1½" numbers or up to four 1" numbers.



Hook and Loop Insert **HF-PS4**

##### Passport L.A. County Front – HF-PS15

The frame features retroreflective lettering and background with hook and loop center for inserts. See information on inserts to the right. Call our Customer Service Department for any additional information.



Leather Hook and Loop Insert with Up to 3 Sewn-On Numbers **HF-PS9**



Leather Hook and Loop Insert with Up to 3 retroreflective Numbers **HF-PS8**



Dual Magnetic/Hook and Loop **HF-PS10**



Magnetic Insert **HF-PS17**

**SPECIAL NOTE:** The choices when designing a helmet and/or garment accountability system are almost endless. Our Customer Service Department can be of assistance in coordinating currently available ideas and help custom design products to meet your needs.

#### Multi-Color Integral Option for Fronts

One-time set-up charge plus per piece price (**HF-ICD**) to silkscreen your artwork onto Truck Style 3M™ Scotchlite™. These logos (**HF-IC**) can then be applied to L.A. County, Houston, or Truck leather fronts at no extra charge. Can also be individually purchased.



### OPTIONAL FRONT ACCESSORIES

#### Metal Circular Rank Insignias HL-RIGT

Gold or silver tone, 1½" bugles/trumpets, and tools of trade rank insignias. These insignias may be used for the center numbers on L.A. County, Houston, and Truck lettered fronts. Tools of Trade and All Bugles available.



#### Stabilizer Brackets for Leather Fronts

**HF-BRNY** and **HF-BRLF** – Optional on all Ben 2 Plus helmets, this stabilizer bracket helps keep your leather front from curling under extreme temperature conditions. Contact our Customer Service Department to determine which part number works for your front.

Bracket as Used



How Bracket Fits on Front



Bracket as Installed on Helmet



Bracket Only



See Page 64 for Auxiliary Helmet Products



## Lite Force Plus

NFPA 1971,  
2007 Edition  
Certified



### Standard Models:

**HT-LF2-BPR** – Bloodborne Pathogen Resistant  
Requires Moisture Barrier-backed Ear  
Covers and Faceshield

**HT-LF2-HDO** – Head Only Protection

## How to Build Your Helmet:

### Step 1: Specify Basic Assembly:

Includes 8-point Padded Ratchet Suspension and  
Hang-up Loop

### Step 2: Choose Required Components:

- Chinstrap Choice
- Ear Cover Choice
- Eye and Face Protection Choices – must include  
faceshield or goggles to meet NFPA
- Headband/Ratchet Cover Choice
- Retroreflective Trim Pattern/Package Choice

### Step 3: Select Options:

- Optional Accessories
- Optional Fronts
- Auxiliary Helmet Products (See Page 64)

Shell Colors: B–Black, W–White, R–Red, Y–Yellow, O–Orange,  
U–Blue, G–Green

Visit [www.totalfiregroup.com](http://www.totalfiregroup.com) and Click on Catalogs for Our  
Helmet and Front Specifying Worksheets.

## REQUIRED COMPONENTS

### Chinstrap Choices

#### STANDARD



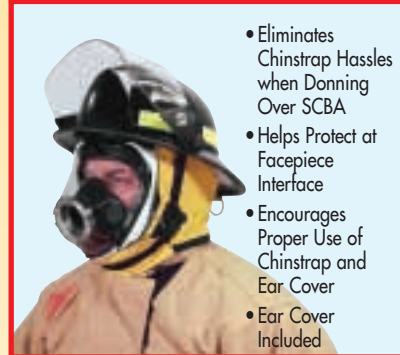
Nomex® Postman Slide and  
Quick Release  
**HP-CBD-2007**



Nomex®  
Milwaukee Chinstrap  
**HP-CMW-2007**



Nomex® 4-Point with  
Quick Release  
**HP-CN4-2007**



Maskmate™ – 1½" Hook and Loop  
Quick Closure  
Nomex® – **HP-CMM-2007**  
Pbi® – **HP-CMM1-2007**

- Eliminates  
Chinstrap Hassles  
when Donning  
Over SCBA
- Helps Protect at  
Facepiece  
Interface
- Encourages  
Proper Use of  
Chinstrap and  
Ear Cover
- Ear Cover  
Included

### Ear Cover Choices

#### STANDARD – HDO



**Standard BPR Configuration**  
Yellow Nomex®/Crosstech® PJ/FR Cotton  
**HP-F40-2007**

**Standard HDO Configuration**  
Yellow Nomex®/2-Layers FR Cotton  
**HP-F50-2007**

Other Outer Shells, Moisture Barriers and  
Colors Available



Canadian Style Ear Cover  
**HP-F60-2007**

## REQUIRED COMPONENTS

### Eye and Face Protection Choices

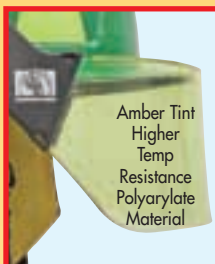
#### STANDARD



APEC Faceshields  
4" x .110" **HP-E110**  
4" x .150" **HP-E150**



APEC Faceshield  
6" x .130" **HP-E130**



4" x .150"  
DURA-Shield  
**HP-E150DS**



NFPA 1971EZ-Flips  
**HP-EEZNFPALF**



Paulson NFPA 1971  
Goggles  
**HP-E30**

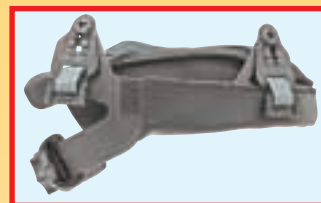


ESS NFPA 1971  
Goggles  
**HP-E20**



ESS NFPA 1971  
Quick Attach Goggles  
**HP-E22**

### Headband/ Ratchet Cover Choices



#### STANDARD

Headband/Ratchet Cover –  
**HP-R01**

Leather Headband/Ratchet  
Cover – **HP-RLR**

### Retroreflective Trim Pattern/Package Choices



1" x 4" Bars (5)

#### STANDARD – Reflexite®

Lime – **HL-LRBL**

GLO-Flex® Yellow – **HL-LGB**

3M™ Scotchlite™

Lime – **HL-LSBL**



Trapezoids (10)

Reflexite® Lime – **HL-LRTL**

GLO-Flex® Yellow – **HL-LGT**

3M™ Scotchlite™

Solid Lime – **HL-LSTL**

2-Tone Lime – **HL-LTTL**

2-Tone Orange – **HL-LTTO**



Parallelograms (3 Sets)

Reflexite® Lime – **HL-LRPL**

GLO-Flex® Yellow – **HL-LGP**

3M™ Scotchlite™

Lime – **HL-LSPL**

2-Tone Parallelograms

Lime – **HL-LTPL**

Orange – **HL-LTPO**

### Custom Packages

If you desire something else, our Customer Service Department will evaluate whether it is compliant to Standards and work up a cost for you. If a trim item must be special ordered, you will be advised as to any delays that might occur.

## OPTIONAL ACCESSORIES

### Faceshield Logo Decals



**HP-EC**

### Goggle Garage

Patent is Not Invalidated if  
Ordered Separately



**HP-GG**

### TAC Trim/ Helmet Cover



**HP-M100**

### Winter Liner Insert



**HP-WLL**

### Fire-Warrior Mounting Kit



**TI-MT-B-135-3**



## OPTIONAL MODERN FRONTS

### Passport/Accountability (Individual Passports) Leather Fronts

Full hook and loop hook is stitched to backside of the leather and the self-adhesive mating hook and loop is supplied. NO HOLES needed in the shell yet interchangeability is maintained.

**HF-PS2** is a retroreflective 3M™ Scotchlite™ (no more than 15 characters/spaces) and three 1 3/4" rounded numbers in center.

Note: If third line is desired, there would be an extra charge and center numbers would be 1". Large assortment of color combinations available.



HF-PS2



HF-DAYTON

### Multi-Color Integral Option for Front

One-time set-up charge plus per piece price (**HF-ICD**) to silkscreen your artwork onto Truck Style 3M™ Scotchlite™. These logos (**HF-IC**) can then be applied to the **HF-PS2** leather front at no extra charge. Can also be individually purchased.



Integral Customization  
HL-IC

### 3M™ Scotchlite™ Retroreflective Fronts

Lime and Silver/Gray 3M™ Scotchlite™ background. Star of Life screened with Blue ink; all others screened in Black. Officer fronts come with appropriate bugles/trumpets. All others with Maltese Cross/Tools of Trade. Customer installed option.

Titles/Ranks available on HF-SFRONT only:

Ambulance, Apparatus Operator, Assistant Chief, Battalion Chief, Battalion Commander, Captain, Chief, Chief Engineer, Deputy Chief, Division Chief, Driver, Emer. Med. Tech., EMT, EMT/Firefighter, Engineer, Fire Marshal, Fire/Police, Fire/Rescue, Firefighter, Firefighter/EMT, Firefighter/Paramedic, First Responder, Haz Mat, Inspector, Instructor, Lieutenant, Maint. Chief, Paramedic, Probie, Public Information, Rescue, Safety Officer, Technical Rescue Recovery, Training Officer

Custom screening on quantities of 50 or more. Tooling charges must be billed separately and may require longer delivery.



HF-SFRONT (3")



HF-SMCS (2")  
HF-SMCL (3")



HF-SOL2 (2")  
HF-SOL3 (3")

### Reflexite® Retroreflective Fronts

Stars of Life are Blue with White screening. Customer installed option.

HF-RSOL2 (2")  
HF-RSOL3 (3")



See Page 64 for Auxiliary Helmet Products

## Proximity Plus Traditional Proximity Plus Modern

NFPA 1971, 2007 Edition Certified



(See Price List for Helmet Specifying Worksheet)

**Standard Models: HT-BF2-PROX HT-LF2-PROX**

Both Models Inherently Provide Bloodborne Pathogen Resistant Level of Protection

### How to Build Your Helmet:

#### Step 1: Specify Basic Assembly:

Includes 8-point Padded Ratchet Suspension and Hang-Up Loop

#### Step 2: Choose Required Components:

- Chinstrap Choice
- Shroud Choice
- Headband/Ratchet Cover Choice

#### Step 3: Select Optional Accessories

Shell Colors: B-Black, W-White, R-Red, Y-Yellow, O-Orange, U-Blue, G-Green

**Note:** On all Proximity helmets, underlying shell color must be specified. Otherwise, we assume color matching is not an issue and will ship the underlying shell color(s) of our choice. Underlying shell color is not exterior visible since aluminized shroud/ear covers completely cover the shell.

## REQUIRED COMPONENTS

### Chinstrap Choices



Nomex® Postman Slide and Quick Release  
**HP-CDB-2007**



Nomex® Milwaukee Chinstrap  
**HP-CMW-2007**

### Shroud Choices



**HP-PEF-2007**



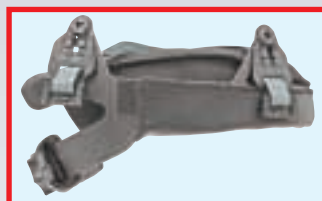
J-Fire **HP-PJFMIL**

Specialized Military J-Fire Proximity equipment available ONLY through GSA. Contact our Customer Service Department.

### Headband/Ratchet Cover Choices

**STANDARD** Headband/Ratchet Cover – **HP-R01**

Leather Headband/Ratchet Cover – **HP-RLR**



## OPTIONAL ACCESSORIES

### Faceshield Logo Decals



**HP-EC**

### Faceshield Cover



**HP-PFSC**

### Winter Liner Insert



**HP-WLB** Traditional  
**HP-WLL** Modern

### Fire-Warrior Mounting Kit



**TI-MT-A-193-2** Traditional  
**TI-MT-B-135-3** Modern

## Aluminized Products:

- **Cleaning and Care Instructions**
- **12-Month Cloth Warranty Limitations**

All manufacturers in the fire service use the Gentex #1098 aluminized knit Pbi™/Para-Aramid material for Proximity certified products (helmet shrouds, clothing, gloves, etc). Gentex is the only supplier of certified product in the market, and hence this information applies to ALL brands. We have seen (in our opinion) much more frequent delamination of these products (ours and other brands) of late. While we have seen this in both washed and unwashed products, Gentex feels cleaning is the issue and has provided us with the following cleaning instructions.

***The outer shell of Aluminized helmets contains a highly reflective surface and it is extremely important to keep this surface clean so that it may perform at peak efficiency.***

- Clean by gently rubbing the surface with a soft cloth or sponge and a mild soap
- Rinse thoroughly
- DO NOT MACHINE WASH
- Dry garment by hanging in a well ventilated, shaded area
- Use a fan to circulate the air if necessary
- Do not store garment wet or with any chemical contamination
- Do not clean with any compounds containing ammonia, chlorine, and other oxidizing or abrasive agents.

**Note:** These newer Cleaning Instructions supersede the FEMSA Official User Information Guide instructions. The NFPA 1851 Care document requires hanging storage of Aluminized helmet covers (non-folded).

Further, Gentex has advised that they normally limit their warranty to 12 months even if all Gentex instructions are followed and **COVER MATERIAL REPLACEMENT ONLY**, all other costs must be borne by the customer! Morning Pride will continue to warrant against defects in material or workmanship for the life of the product. But we cannot be responsible for what Gentex is classifying as normal for the #1098 material (i.e. delamination if not washed, dried and stored as above and a limited warranty period of 12 months regardless of care).

Please contact our Customer Service Department for further assistance on this or any issue. We recognize that the cleaning procedures are somewhat cumbersome and the material warranty period is perhaps the shortest in the industry; but we have little option except to report the industry supplier's position. We will continue to pursue all related issues as aggressively as possible, and will advise of new developments.

DuPont™ and Kevlar® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company.



## Technical Rescue and Recovery/Utility Heavy Duty

NFPA 1951,  
2007 Edition Certified

See Pages 61-63  
for Lightweight  
Technical Rescue and  
Recovery/Utility  
Helmets

**Standard Model: HT-UHD**

(See Price List for Helmet Specifying Worksheet)



## How to Build Your Helmet:

### Step 1: Specify Basic Assembly:

Technical Rescue and Recovery/Utility Heavy Duty:  
Includes 8-point Ratchet Suspension

### Step 2: Choose Required Components:

- Chinstrap Choice
- Headband/Ratchet Choice
- Retroreflective Trim Pattern/Package

### Step 3: Select Options:

- Ear Cover Choice
- Eye and Face Protection Choice
- Optional Accessories
- Optional Fronts
- Auxiliary Helmet Products (See page 64)

Shell Colors: B-Black, W-White, R-Red, Y-Yellow, O-Orange,  
U-Blue, G-Green

## REQUIRED COMPONENTS

### Chinstrap Choices



Nomex® Postman Slide  
and Quick Release  
**HP-CDB-2007**

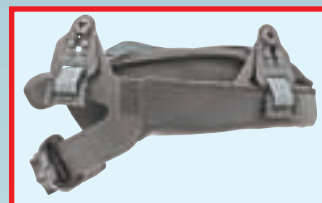


Nomex®  
Milwaukee Strap  
**HP-CMW-2007**



Nomex® 4-Point with  
Quick Release  
**HP-CN4-2007**

### Headband/Ratchet Cover Choices



**STANDARD** Headband/Ratchet Cover –  
**HP-R01**

Leather Headband/Ratchet  
Cover – **HP-RLR**

### Reflective Trim Pattern/Package Choices



**1" x 4" Bars (5)**

**STANDARD** – Reflexite®

Lime – **HL-URBL**

**GLO-Flex® Yellow – HL-UGB**

**3M™ Scotchlite™**

Lime – **HL-USBL**



**Trapezoids (10)**

**Reflexite® Lime – HL-LRTL**

**GLO-Flex® Yellow – HL-LGT**

**3M™ Scotchlite™**

Solid Lime – **HL-LSTL**

2-Tone Lime – **HL-LTTL**

2-Tone Orange – **HL-LTTO**



**Parallelograms (3 Sets)**

**Reflexite® Lime – HL-LRPL**

**GLO-Flex® Yellow – HL-LGP**

**3M™ Scotchlite™**

Lime – **HL-LSPL**

**2-Tone Parallelograms**

Lime – **HL-LTPL**

Orange – **HL-LTPO**

### Custom Packages

If you desire something else, our Customer Service Department will evaluate whether it is compliant to standards and work up a cost for you. If a trim item must be special ordered, you will be advised as to any delays that might occur.

## OPTIONAL ACCESSORIES

### Ear Cover Choices



Yellow Nomex®/Crosstech® PJ/FR Cotton  
**HP-F40-2007**

Yellow Nomex®/2-Layer FR Cotton  
**HP-F50-2007**

Other Outer Shells, Moisture Barriers and  
Colors Available



Canadian Style Ear Cover  
**HP-F60-2007**

### Eye and Face Protection Choices



APEC Faceshields  
4" x .110" **HP-E110**  
6" x .130" **HP-E130**  
4" x .150" **HP-E150**



4" x .150" DURA-shield  
**HP-E150DS**



Paulson Goggles for  
NFPA 1977\*  
**HP-E32**



ESS Goggles for  
NFPA 1977\*  
**HP-E25**



Includes  
2 Lens Tearoffs

ESS Goggles  
w/Padding for  
NFPA 1977\*  
**HP-E26**



NFPA 1971EZ-Flips  
**HP-EEZNFPALF**



ESS Quick Attach  
Goggles w/Padding for  
NFPA 1977\*  
**HP-E29**

\*Passes NFPA  
1977 Oven Test

### Optional Accessory Choices

#### Faceshield Logo Decals



**HP-EC**

#### Goggle Garage



**HP-GG**

#### Winter Liner Insert



**HP-WLL**

#### Fire-Warrior Mounting Kits



**TI-MT-B-135-3**

Patent is Not Invalidated if Ordered  
Separately.

# TECHNICAL RESCUE AND RECOVERY/UTILITY HELMETS – HEAVY DUTY

Visit [www.totalfiregroup.com](http://www.totalfiregroup.com) and Click on Catalogs for Our Helmet and Front Specifying Worksheets.

## OPTIONAL FRONTS

### Passport/Accountability (Individual Passports) Leather Fronts

Full hook and loop hook is stitched to backside of the leather and the self-adhesive mating hook and loop is supplied. NO HOLES needed in the shell yet interchangeability is maintained.

**HF-PS2** is a retroreflective 3M™ Scotchlite™ (no more than 15 characters/spaces) and three 1¾" rounded numbers in center.

Note: If third line is desired, there would be an extra charge and center numbers would be 1". Large assortment of color combinations available.

**HF-DAYTON** is a two-piece leather front with two sewn cut-outs. Non-reflective vinyl skewed lettering (no more than 15 characters/spaces on each line).



HF-PS2



HF-DAYTON

### Multi-Color Integral Option for Front

One-time set-up charge plus per piece price (**HF-ICD**) to silkscreen your artwork onto Truck Style 3M™ Scotchlite™. These logos (**HF-IC**) can then be applied to the **HF-PS2** leather front at no extra charge. Can also be individually purchased.



Integral Customization  
HL-IC

### 3M™ Scotchlite™ Retroreflective Fronts

Lime and Silver/Gray 3M™ Scotchlite™ background. Star of Life screened with Blue ink; all others screened in Black. Officer fronts come with appropriate bugles/trumpets. All others with Maltese Cross/Tools of Trade. Customer installed option.

Titles/Ranks available on HF-SFRONT:

Ambulance, Apparatus Operator, Assistant Chief, Battalion Chief, Battalion Commander, Captain, Chief, Chief Engineer, Deputy Chief, Division Chief, Driver, Emer. Med. Tech., EMT, EMT/Firefighter, Engineer, Fire Marshal, Fire/Police, Fire/Rescue, Firefighter, Firefighter/EMT, Firefighter/Paramedic, First Responder, Haz Mat, Inspector, Instructor, Lieutenant, Maint. Chief, Paramedic, Probie, Public Information, Rescue, Safety Officer, Student, Technical Rescue Recovery, Training Officer

Custom screening on quantities of 50 or more. Tooling charges must be billed separately and may require longer delivery.



HF-SFRONT (3")



HF-SMCS (2")  
HF-SMCL (3")



HF-SOL2 (2")  
HF-SOL3 (3")

### Reflexite® Retroreflective Fronts

Stars of Life are Blue with White screening. Customer installed option.

HF-RSOL2 (2")  
HF-RSOL3 (3")



See Page 64 for Auxiliary Helmet Products

## Technical Rescue and Recovery/Utility Front Brim

**Standard Model: HT-US**

NFPA 1951, 2007 Edition Certified  
NFPA 1977, 2005 Edition Certified



See Pages 58-60 for Heavy Duty Technical Rescue and Recovery/Utility Helmets

## Wildland Front Brim

**Standard Model: HT-WS**

NFPA 1977, 2005 Edition Certified



## Technical Rescue and Recovery/Utility Full Brim

**Standard Model: HT-UF**

NFPA 1951, 2007 Edition Certified  
NFPA 1977, 2005 Edition Certified



## Wildland Full Brim

**Standard Model: HT-WF**

NFPA 1977, 2005 Edition Certified



## EMS

**Standard Model: HT-ES**

ANSI Z89.1-2003, Type 1, Class E



Shown with highly recommended optional 6" x .060" Poly/Carb Visor

**Unlike competitive Lightweight Technical Rescue Recovery/Utility, Wildland and EMS helmets, and like all our helmets, NO Assembly Required on the Standard Product!**

## How to Build Your Helmet:

### Step 1: Specify Basic Assembly:

**Technical Rescue and Recovery/Utility Full or Front Brim:** Includes 6-point Ratchet Suspension, Goggle Clips, 3 Headlamp Retention Clips and 4 - 1" x 4" Lime Reflexite® Bars.

**Wildland Full or Front Brim:** Includes 6-point Ratchet Suspension, Goggle Clips, 3 Headlamp Retention Clips and 4 - 1" x 4" Lime Reflexite® Bars.

**EMS:** Includes 4-point Ratchet Suspension.

### Step 2: Select Required Components:

- Chinstrap Choice

### Step 3: Select Options (End User Installed):

- Chinstrap Choice (EMS ONLY)
- Ear/Hearing Protection Choice
- Ear Cover Choice
- Eye and Face Protection Choice
- Leather Headband/Ratchet Cover Choice
- Retroreflective Trim Pattern Choices (EMS Only)
- Winter Liner Choice
- Optional Fronts
- Auxiliary Helmet Products (See page 64)

Shell Colors: W-White, R-Red, Y-Yellow, O-Orange, U-Blue

Visit [www.totalfiregroup.com](http://www.totalfiregroup.com) and Click on Catalogs for Our Helmet and Front Specifying Worksheets.

## REQUIRED COMPONENTS

### Chinstrap Choices

Technical Rescue and Recovery/Utility and Wildland



Nomex® with Quick Release  
**HP-CL2**



Nomex® 4-Point with Quick Release  
**HP-CL4**



Polypropylene 2/4-Point with Quick Release  
**HP-CE4**

## OPTIONAL ACCESSORIES

### Chinstrap Choice

### Ear/Hearing Protection Choices



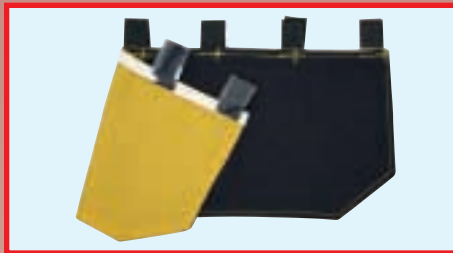
Front Brim Muffs  
**HP-M40**  
End-User Installed Option



Full Brim Muffs  
**HP-M45**  
End-User Installed Option

## OPTIONAL ACCESSORIES

### Ear Cover Choices



Yellow Nomex®/FR Cotton – **HP-F66**  
Other Outer Shells and Colors Available



Yellow  
Nomex®/FR  
Cotton  
NFA 1977  
Face/Neck  
Shroud  
**HP-F68**



EMS Only – Nylon/Crosstech® EMS  
**HP-F64**

### Eye and Face Protection Choices



Paulson Goggles for  
NFPA 1977\* – **HP-E32**



ESS Goggles for  
NFPA 1977\* – **HP-E25**



Includes  
2 Lens Tearoffs

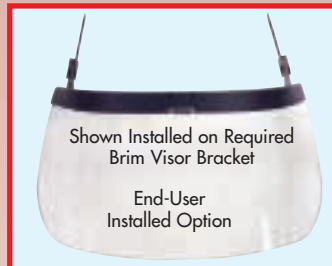
ESS Goggles w/Padding for  
NFPA 1977\* – **HP-E26**



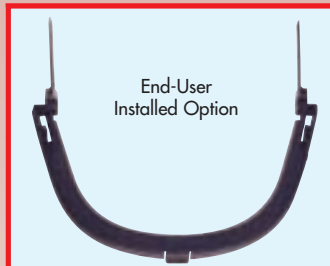
ESS Quick Attach Goggles  
w/Padding for NFPA 1977\*  
**HP-E28**



7" Mesh/Screen Visor for  
Front and Full Brim Helmets\*\*  
(Visor Bracket Required)  
**HP-E70†**



6" x .060" Poly/Carb Visor for  
Front and Full Brim Helmets  
(Visor Bracket Required)  
**HP-E75**



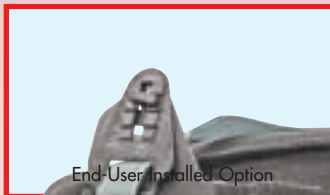
Visor Bracket for  
Front Brim – **HP-E76S**



Visor Bracket for  
Full Brim – **HP-E76F†**

### Leather Headband Cover Choice

**HP-RLR1**



End-User Installed Option

### Winter Liner Insert Choice

**HP-WLB**



### Retroreflective Trim Pattern Choice (EMS Only)

**HP-ERBL** EMS End-User Installed Trim Option



### Fire-Warrior Mounting Kits

**TI-MT-A-199-6**



\* Passes NFPA 1977 Oven Test. For Wildland helmets, there is no certification requirements for goggles.

\*\*Not bloodborne pathogen capable

† Not available on EMS helmets

## OPTIONAL FRONTS

### Passport/Accountability (Individual Passports) Leather Fronts

Full hook and loop hook is stitched to backside of the leather and the self-adhesive mating hook and loop is supplied. NO HOLES needed in the shell yet interchangeability is maintained.

**HF-PS2** is a retroreflective 3M™ Scotchlite™ (no more than 15 characters/spaces) and three 1¼" rounded numbers in center.

Note: If third line is desired, there would be an extra charge and center numbers would be 1". Large assortment of color combinations available.



HF-PS2



HF-DAYTON

### Multi-Color Integral Option for Front

One-time set-up charge plus per piece price (**HF-ICD**) to silkscreen your artwork onto Truck Style 3M™ Scotchlite™. These logos (**HF-IC**) can then be applied to the **HF-PS2** leather front at no extra charge. Can also be individually purchased.



Integral Customization  
HL-IC

### 3M™ Scotchlite™ Retroreflective Fronts

Lime and Silver/Gray 3M™ Scotchlite™ background. Star of Life screened with Blue ink; all others screened in Black. Officer fronts come with appropriate bugles/trumpets. All others with Maltese Cross/Tools of Trade. Customer installed option.

Titles/Ranks available on HF-SFRONT:

Ambulance, Apparatus Operator, Assistant Chief, Battalion Chief, Battalion Commander, Captain, Chief, Chief Engineer, Deputy Chief, Division Chief, Driver, Emer. Med. Tech., EMT, EMT/Firefighter, Engineer, Fire Marshal, Fire/Police, Fire/Rescue, Firefighter, Firefighter/EMT, Firefighter/Paramedic, First Responder, Haz Mat, Inspector, Instructor, Lieutenant, Maint. Chief, Paramedic, Probie, Public Information, Rescue, Safety Officer, Student, Training Officer, Technical Rescue Recovery

Custom screening on quantities of 50 or more. Tooling charges must be billed separately and may require longer delivery.



HF-SFRONT (3")



HF-SMCS (2")  
HF-SMCL (3")



HF-SOL2 (2")  
HF-SOL3 (3")

### Reflexite® Retroreflective Fronts

Stars of Life are Blue with White screening. Customer installed option.

HF-RSOL2 (2")  
HF-RSOL3 (3")



See Page 64 for Auxiliary Helmet Products

## Metal Circular Rank Insignias



Gold or silver tone, 1½" bugles/trumpets, and tools of trade rank insignias. These insignias may be used for the center numbers on Houston and Truck lettered fronts. Tools of Trade and All Bugles available. **HL-RIGT** (Gold) **HL-RIST** (Silver)

## Retroreflective Circular Rank Insignias



Screened art quality, 3M™ Scotchlite™ bugles/trumpets, and tools of trade rank insignias. Screening is white on black background; black screening on gold, red or silver/white backgrounds. All bugle ranks are available.

(Not Recommended to be Put on Helmet Shell)

1½" **HL-CRIS** 2" **HL-CRIL**

**Medic Star of Life** – Standard is silver background with blue screening.

## 3M™ Scotchlite™ Truck Style Art Quality Letter and Number Trim Products

(Type used to letter trucks)

Large color assortment available. Will use retroreflective if available in color choice. Not recommended to be put on helmet shell.

### Sizes Available:

1. 1½" regular letters and numbers
2. 1" regular letters and numbers
3. 1¼" cut corner numbers
4. 1¾" regular letters and numbers
5. 1¾" cut corner outlined numbers



## Reflexite® Retroreflective Flags

**HL-RUS** (3½")



## 3M™ Scotchlite™ Truck Style Retroreflective Flags



**HL-SUS**  
(2½")



**HL-SCAN**  
(2½")

## 3M™ Scotchlite™ Garment Style Letter and Number Trim Products

(Type sewn on garments)

**Colors Available:** Lime, Orange, Gray/Silver

**Sizes Available:** 2 inch and 3 inch

**C 4 9**

**HL-S2** - 2"

**T49**

**HL-S3** - 3"

## Arched and Straight Title Tapes

**3M™ Scotchlite™ Truck Style Art Quality - Approx. 3" Wide**

(Type used to letter trucks)

Large color assortment available. Will use retroreflective if available in color choice.

**Titles/Ranks Available:** Unlimited Titles/Ranks are available. 15 characters including spaces. Please specify when ordering.

**3M™ Scotchlite™ Garment Style - 7" and 4" Wide**

(Type sewn on garments)

### Colors Available:

Black screening on Lime, Orange or Silver/Gray

### Titles/Ranks Available:

Ambulance, Apparatus Operator, Assistant Chief, Battalion Chief, Battalion Commander, Captain, Chaplain, Chief, Chief Engineer, Deputy Chief, Division Chief, Driver, Emer. Med. Tech., EMT, EMT/Firefighter, Engineer, Explorer, Fire Marshal, Fire/Police, Fire/Rescue, Firefighter, Firefighter/EMT, Firefighter/Paramedic, First Responder, Haz Mat, Inspector, Instructor, Junior Firefighter, Lieutenant, Maint. Chief, Paramedic, Probie, Public Information, Rescue, Safety Officer, Student, Technical Rescue Recovery, Training Chief, Training Officer, Brigade Chief, Technical Rescue.

Minimum of 50 for Custom Orders Plus Screening Charge

**FIREFIGHTER**

**HL-TRTT**

**CHIEF**

**HL-TRTT**

**FIRE DEPT.**

**HL-TRST**

(Not Recommended to be Put on Helmet Shell)



**HL-STTL**

**CAPTAIN**

**HL-STTS**

## 3M™ Scotchlite™ Truck Style Flag

**HL-SAF**



All flags are self adhesive and are NOT factory installed. Call for the availability and pricing of other national flags.

## Morning Pride Proprietary Features...

- Bloodborne Pathogen Resistant Interface Capability (BPR)
- Advanced Protective Tracking System (APT)
- Four-Way Adjustable Headband Depth
- FYR-Glass Composite Shells
- Thermo-FYR Shells
- Maskmate Ear Cover Interface
- Goggle Garage
- Integral Multi-Color Fronts
- Self Locking Thumbwheels on Faceshield Brackets



*Morning Pride leads the way into the future of the fire service, while honoring the proud traditions of our shared history.*

**The following are registered trademarks of the noted firms and are used herein per their prior approval:**

3M™ and Scotchlite™ are trademarks of 3M™ company  
Crosstech® is a registered trademark of W.L. Gore & Co., Inc.

GLO-Flex® is a registered trademark of American Ingenuity

Kevlar® is a registered trademark of E.I. Dupont & Co.

Nomex® is a registered trademark of E.I. Dupont & Co.

Pbi® is a registered trademark of Performance Products, Inc.

Project HEROES® is a registered trademark of International Association of Fire Fighters

Reflexite® is a registered trademark of Reflexite Corp. Inc.

Xalt® is a registered trademark of Burlington

Performance Fabrics

Zahn Lock® is a registered trademark of Kedman

**The following are trademarks of Morning Pride Manufacturing, LLC:**

Ben 2 Plus

BPR

FYR-Glass

Lite Force Plus

Maskmate

Proximity Plus

Thermo-FYR™

## Total Fire Group Adheres to the Highest Ethical Standards...

We recognize our success is possible only because the fire service industry has come to respect Total Fire Group's commitment to the highest standards in business practices, product design and customer support. As sustaining members of the following organizations, Total Fire Group brands honor their applicable "Code of Ethics" scrupulously.



FEMSA – Fire Equipment  
Manufacturers & Suppliers Association



NFPA – National Fire Protection  
Association



ISFSI – International Society of  
Fire Service Instructors



FDSOA – Fire Department Safety  
Officers Association



IAFC – International Association of  
Fire Chiefs



NFIB – National Federation of  
Independent Businesses



NVFC – National Volunteer Fire Council



Total Fire Group  
Sponsors the IAFF  
Fire Fighters Burn  
Foundation

## TERMS AND CONDITIONS OF SALE

The following is made in lieu of all warranties, expressed or implied: Seller's and manufacturer's only obligation shall be to replace or repair such quantity of the product provided to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the inability to use the product. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith.

← **Table of  
Contents**

**Contact Us** →

# MORNING PRIDE HELMETS

**Project HEROES®**  
**The PPE of the**  
**Future**  
**AVAILABLE SOON!**

See Page 46.



**Now  
Available  
with  
NFA  
1971,  
2007  
Edition  
EZ-Flips**

**Fire Helmet  
Supplier to  
New York  
City Since  
1996**



**For More Information On  
MORNING PRIDE HELMETS  
and the Dealer Nearest You Contact:**

**TOTALFIREGROUP®**  
ADVANCED PERSONAL PROTECTION

**1-800-688-6148**

Phone: (937) 264-2662 • Fax: (937) 264-2677

#1 Innovation Court • P.O. Box 13616

Dayton, OH 45413-0616 • ISO 9001:2000



[info@totalfiregroup.com](mailto:info@totalfiregroup.com)

[www.totalfiregroup.com](http://www.totalfiregroup.com)

**2008 CATALOG**

Morning Pride Helmet Catalog – 2/1/08