

INVITATION TO BID

(This is not an order.)

Buver: Gregory Hart

ghart@clevelandohio.gov

1 of 2

Requestor: Jacqueline Rose

216-664-6837

216-664-7076

jrose@city.cleveland.oh.us

CITY OF CLEVELAND

Division of Purchases & Supplies 601 Lakeside Avenue Room 128 Cleveland, OH 44114

Procurement Folder	RFB No.	RFB Description		
150319	RFB 6003 202400000000669	Traditional Fire Helmets		
RFB Closing Date/Time		Department/Division	Public Bid Opening Date/Time	
November 14, 2024 3:00 PM		6003	November 14, 2024 3:00 PM	

SCHEDULE OF EVENTS

Event Description			Event Date	
Group/ Line#	Commodity Description	Item Quantity/ UOM	Service Dates	Catalog Discount
1 / 1	Cairns 1836 Traditional Fire Helmets	40.00000 / EA		

SEE SPECS ATTACHED

Ship To:		Vendor Response			
Safety Fire Storeroom		Unit Price	Extension	n	Delivery Days
Safety Fire Storeroom 1645 Superior Ave.		\$	s		Day(s)
Cleveland, OH 447	114		1		
Vendor Response Vendor Total Amount for Items		Vendor Total Amount	for Services	Pay	ment Discount Offer

Vendor Response	Vendor Total Amount for Items	Vendor Total Amount for Services	Payment	Discount Offer
	\$	\$	%	Day(s)

TERMS OF DELIVERY

- Price quoted shall be F.O.B. delivered to the place designated on purchase order. No other terms will be acceptable.
- Delivery quoted must be stated in terms of work days after receipt of the order.
- All charges for shipping must be included within the Unit Price for each item quote unless otherwise designated by a separate line with a specified dollar amount inclusive of all shipping charges.
- No freight charges will be considered nor processed for payment unless apart of the original quote submitted prior to bid award.

BIDDER AGREES TO COMPLY WITH ALL TERMS AND CONDITIONS BELOW AND ON REVERSE SIDE OF THIS BID

Shipping/Freight Charges

ALL CHARGES FOR SHIPPING MUST BE INCLUDED WITHIN THE UNIT PRICE OF EACH QUOTE UNLESS OTHERWISE DESIGNATED BY A SEPARATE LINE ITEM WITH A SPECIFIED DOLLAR AMOUNT INCLUSIVE OF ALL SHIPPING CHARGES.

NO FREIGHT CHARGES WILL BE CONSIDERED NOR PROCESSED FOR PAYMENT UNLESS APART OF THE ORIGINAL QUOTE SUBMITTED PRIOR TO BID AWARD.

Call Buyer Only

Bidders must address all questions to the Buyer (See Above.) Do NOT contact the "Requestor." Contract only the Buyer listed above.

No Price increase

This Purchase Order does not permit price increases.



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Missing information

It is each bidder's individual responsibility to determine for themselves, in advance of bid submission, the accuracy and completeness of any and all information in an RFB. If a potential bidder does not notify the Division of Purchases and Supplies in advance of the bid opening date of any possible discrepancy then any such discrepancy or erratum cannot be the basis for a protest of award. Contact the Buyer immediately if there is a question of accuracy or completeness in these bid documents.

	1 ,	1	
BIDDER MUST COMPLETE & SIGN BELOW			
NAME OF THE FIRM:			
STREET ADDRESS:			
CVTV	CITA A TOP	AID CODE	
CITY:	STATE:	ZIP CODE:	
FED ID #/SSN #:			
FED ID π / SSIV π.			
PHONE NO.:	FAX NO.:		
EMAIL ADDRESS:			
PLEASE PRINT CONTACT NAME:			
AUTHORIZED SIGNATURE:	DATE:		
NOTHORIZED SIGNATURE.	Ditte.		
All bids and related documents must be enclosed in a	sealed envelope and marked with the RI	B number.	
DETUDNIBLE TO. Division of Boundaries & C. o. P.			
RETURN BID TO: Division of Purchases & Supplies			

601 Lakeside Ave Room 128, City Hall Cleveland, OH 44114 Effective Immediately: In accordance with Codified Ordinance 181.13 (I) the City shall receive competitive sealed bids through email. All City of Cleveland bids estimated to be less than 50K in value will be submitted and received electronically via email. All bids must be emailed to CityofClevelandbids@clevelandohio.gov. Upon receipt of your bid, you will receive a reply indicating your bid has been received.

Bidder's Instructions

See enclosed Terms & Conditions. Read and follow all terms and conditions of the bid.

Bids must be submitted to CityofClevelandbids@clevelandohio.gov, the Document ID Number and Buyer's Name must be identified in the email subject line. Also clearly state the Document ID Number, Bid Description, Buyer's Name and Closing Date.

Bids received after the Closing Date, Closing Time and sent to any other email address not identified in the Bidders Instruction cannot be considered.

Northern Ireland Affidavit must be completed, signed and included with each bid.

The bid must be submitted to: CityofClevelandbids@Clevelandohio.Gov

Bids received after the Closing Date, Closing Time and sent to any other email address not identified in the Bidders Instruction cannot be considered.

☐ The Document ID Number and Buyers Name in	email subject line
☐ PDF File of Request For Bid Form	-
☐ Terms & Conditions.	
☐ Northern Ireland Affidavit.	

The bid documents must include:

Contact the Buyer immediately at the number on the Bid Form if you do not have all the required documents.

TERMS AND CONDITIONS

- 1. Acceptance of Purchase Order. This Purchase Order shall be effective when Seller executes it, otherwise indicates its acceptance, or delivers to the City of Cleveland any of the goods ordered herein or renders for the City any of the services ordered herein. If this Purchase Order has been issued by the City in response to an offer, then the issuance of this Purchase Order by the City shall constitute an acceptance of such offer subject to the express condition that the Seller assent to any additional or different terms contained herein. Any additional or different terms or conditions contained in any acknowledgement of the purchase by the Seller shall automatically be deemed objected to by the City and shall not be binding upon the City unless specifically accepted by the City in writing.
- 2. Entire Agreement. This order, the instructions to bidders, the Request for Bid, the Bid Schedule of Items, and any specification and/or other attachments, if any, incorporated hereby by reference, constitute the entire agreement between the parties and replaces and supersedes any prior or contemporaneous communications, representations, or agreements, whether oral or written with respect to such matter.
- 3. Indemnification. Seller shall indemnify, defend, and hold harmless the City, its officers, agents, and employees from all claims, demands, liabilities, losses, suits, cause of action, judgments, costs, and expenses, including attorneys' fees, arising, occurring, or allegedly arising or occurring from the personal injury, including death, property damage, including loss of use, or otherwise, to any person or the property of any person, including third parties and employees of any party, as a result of negligent or intentional act or omission of Seller or its agents, employees, subSellers or suppliers, in the furnishing of the goods covered by this PO, or because of any imperfection or defect in said goods, or based upon any claim of product liability of strict liability in tort, or because of the failure of such goods to be in accordance with the description of such goods as may appear in any catalog, analytical information report or other technical bulletin as is furnished or used by the City, or because of the failure of such goods to be produced in compliance with the requirements of this PO.
- 4. <u>Limit of Liability.</u> In no event shall the City be liable for anticipated profits, incidental or consequential damages, or penalties of any description. The City's liability on any claim arising out of or connected with or resulting from this contract or from the performance or breach thereof shall in no case exceed the price allocable to the goods or services or unit thereof which gives rise to the claim.
- 5. Remedies. The city's remedies shall be cumulative and remedies herein specified do not exclude any remedies allowed by law or in equity. Waiver of any breach shall not constitute waiver of any other breach of the same or any other provision. Acceptance of any items or payment therefore shall not waive any breach.
- 6. Default. Payment or acceptance of any items after the delivery date shall not constitute a waiver of the City's right to cancel this order with respect to subsequent deliveries. The City reserves the right to reasonable testing and inspection before payment or acceptance. The City's failure to inspect and accept or reject goods, materials, or articles shall not relieve Seller from liability for tender or delivery of nonconforming goods nor constitute a waiver of any of the City's rights or remedies for breach of contract. The City reserves the right to reject any or all items not in conformity with the specifications noted within this purchase order in any respect.
- 7. F.O.B. Destination. Freight terms are F.O.B. Destination, Freight Prepaid, unless otherwise approved in writing by the Commissioner of Purchases and Supplies.
- 8. Non-Assignment. Neither this contract, nor any interest herein, shall be assigned or subcontracted by the Seller except upon the prior written consent of the City.
- 9. Patent, Trademark or Copyright Infringement. Seller agrees to defend, entirely at its own expense, all claims, demands, and actions that may be asserted against the City for all alleged patent, trademark, and/or copyright infringement resulting from the use or resale of goods covered by the PO, and to indemnify and hold the City harmless against all costs, expenses, legal fees, and judgments related to such claims, demands, and actions.
- 10. Timing. Time is of the essence in this contract. Failure to deliver within the time specified shall entitle the City, in addition to any other rights or remedies, to cancel this order and purchase the goods elsewhere, in which event the Seller shall be responsible for any increase in cost.
- 11. Implied Warranty. In addition to its standard warranty, Seller warrants that all goods supplied will be free and clear of all liens and encumbrances, good and merchantable title being in the Seller. Upon receipt by Seller of payment, good and merchantable title will vest in the City. All goods will be free from any defects in design, materials or workmanship and will be of good and merchantable quality. All goods will conform to the City's specifications or the approved sample as the case may be, and will be fit for the known purposes for which purchased, and that Seller will not substitute anything without the City's written consent.
- 12. Change Orders. No changes in the PO, its prices, terms, conditions, length, or attachments are permitted, without the City's prior written approval.
- 13. Cancellation. The City shall have the right to cancel this order, or any undelivered portion of this order, without cause, and its liability for such cancellation shall be limited to Seller's actual cost for work and materials applicable solely to this order that have been expected when Seller receives notice of cancellation. The City may, at its option, cancel this order without liability to Seller (except for conforming shipments the City previously accepted) if Seller (a) ceases to exist, (b) becomes insolvent, (c) becomes the subject of bankruptcy or insolvency proceedings, or (d) commits a breach in the performance of any obligation under this agreement or of any other written agreement with the City of Cleveland.
- 14. Compliance with Laws. Seller shall comply with all federal, state, and local laws, ordinances, rules, and regulations in the manufacture and sale of the goods and performance of the services. Seller shall defend and hold the City harmless from any losses, damages, or costs arising from or caused in any way by Seller's actual or alleged violation of any federal, state, or local law, ordinance, rule or regulation.
- 15. Access to Records: Seller shall provide access to pertinent records relative to this contract/order for a period of three (3) years after the last receipt of payment is made under this contract/order, whichever occurs last.
- 16. Material Safety Data Sheets: Any substance delivered as a part of this order must be properly labeled in accordance with all applicable regulations and must be accompanied by a Material Safety Data sheet (MSDS).
- 17. Venue. Any dispute arising under this order not disposed of by agreement shall be decided by a court of competent jurisdiction in Cuyahoga County in the State of Ohio. Pending settlement on final decision of any dispute, Seller shall proceed diligently with the performance of this order in accordance with the City's direction. The Charter and Ordinance of the City of Cleveland shall govern.
- 18. Tax. Buyer is exempt from Federal and State taxes for tangible personal property. Sellers doing business with the Buyer may not be exempt from paying sales tax to their suppliers for materials to fulfill contractual obligations with the Buyer, nor shall any Seller be authorized to use the Buyer's Tax Exemption number in acquiring such materials, without the prior issuance of a signed Tax Exemption Certificate. A Tax Exemption Certificate is available upon written request.
- 19. Documentation. Seller shall clearly mark all documentation with the applicable valid PO number.
- 20. Payment Terms. Payment will be made in accordance with the terms on the face of this contract, or the Seller's invoice, whichever are more favorable to the City and payment date therefore shall be calculated from the receipt of invoice or receipt or final acceptance of the goods or services, whichever is later. All claims for money due or to become due from the City shall be subject to deduction or setoff by the City by reason of any counterclaim arising out of this or any other transaction with the Seller. The acceptance by the Seller of final payment shall operate as a full and complete release of the City. No payment for goods or services shall constitute acceptance of any defective or nonconforming goods or services by the city. Unless otherwise stated in the PO, the terms of payment shall be net 30 days from the receipt of a proper invoice. It shall be understood that the cash discount period, if any, to the City will date from receipt by the City of acceptable goods and invoice and not from date of invoice.
- 21. Insurance. Unless otherwise stated in the specifications, whenever labor is involved, the Seller shall procure and maintain insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the services, materials, equipment and/or supplies provided to the City. The insurer(s) must be licensed for business in the State of Ohio and maintain an A.M.Best rating of no less than A: VII or be an insurer approved by the City. The Seller shall submit all required insurance certificates to the City before commencing work. The City is to be added to each policy as an additional insured. The Seller shall notify the City in writing at least 30 days before it cancels or reduces its insurance policy or coverage and immediately upon the Company's receipt of notice from the carrier of any cancellation or reduction of the coverage or policy. Seller must demonstrate the following minimum insurance coverage in accordance with the estimated value limits: 1) Purchases less than \$50,000. General Liability Insurance, with a \$500,000 combined single limit. 2) Purchases \$50,000 and over: General Liability Insurance with bodily injury and property damage limits of \$1,000,000 for each occurrence with a \$2,000,000 general aggregate and \$2,000,000 products and completed operations aggregate. Automobile Liability Insurance must be in effect for any owned, hired and non-owned vehicle used in the performance of the work, with bodily injury limits of \$1,000,000 for each person and \$1,000,000 for each accident, and with property damage limits of \$1,000,000 for each accident; OR \$1,000,000 combined single limits, including bodily injury and property damage. The above limits are the minimum acceptable and do not infer or place a limit on the liability of the Seller. The Seller's insurance shall be primary and any insurance or self-insurance maintained by the City shall be excess for the City and not contribute with the coverage maintained by the Seller.
- 22. Workman's Compensation: Whenever labor is involved, the Seller shall subscribe to and comply with the Workmen's Compensation Laws of the State of Ohio and pay such premiums as may be required there under and to save the City harmless from any and all liability arising from or under said act. He shall also furnish a copy of the official certificate or receipt showing the payments herein referred to before commencing any work.
 - 3. Authority to Bind. All parties to this order agrees that the representatives named herein, including in all attachments, possess full and complete authority to bind said parties.
- 24. Inspection and Acceptance. No material received by the City pursuant to the purchase order issued under the terms and conditions of this bid document shall be deemed accepted until the City has had reasonable opportunity to inspect said material. All material which is discovered to be defective or which does not conform to any warranty of the Seller herein, upon initial inspection, or at any later time if the defects contained in the material were not reasonably ascertainable upon the initial inspection, may be returned at the Seller's expense for full credit or replacement. No goods returned as defective shall be replaced without written authorization from the Commissioner of Purchases and Supplies. Such return shall in no way affect the City's discount privileges. Such right to return, offered to the City arising from the City's receipt of defective goods, shall not exclude any other legal, equitable or contractual remedies the City may have therefore.
- 25. Non-appropriation of Funds. As with any other public entity, an Agreement, Contract, or issuance of Purchase Order by the City is contingent upon the legal availability of funding and the allocation of said funds. The City reserves the right to cancel any ongoing Agreement, Contract, or Purchase Order immediately, by giving written notice to the Seller, in the case of a failure by the appropriating body to appropriate funds or funding for the specific project, commodity or service.
- 26. Equal Opportunity. This Agreement is a "contract", and the Seller is a "contractor" within the meaning of Chapter 187 of the Codified Ordinances of Cleveland, Ohio 1976. During the term of this Purchase Order, the Seller shall comply with all terms, conditions and requirements imposed on a "contractor" in the Equal Opportunity Clause, Section 187.22(b) C.O., and herein made a part of this Agreement by reference. A complete copy of the Equal Opportunity Clause is available at the City of Cleveland website.

Subject: Submission of NORTHERN IRELAND FAIR EMPLOYMENT PRACTICES DISCLOSURE

Each bidder and/or appropriate parties should complete the <u>DISCLOSURE</u> and submit it with the bid, if possible. If not submitted with the bid, it must be completed and submitted to the Commissioner of Purchases and Supplies prior to any contract being awarded by the City. If a bidder or appropriate parties fail to complete and submit it, they shall not be eligible for a contract award.

NORTHERN IRELAND FAIR EMPLOYMENT PRACTICES DISCLOSURE

INSTRUCTIONS: Pursuant to Codified Ordinance Sec. 181.36, the information requested on this page must be supplied by all Contractors and any Subcontractors having more than a fifty percent (50%) interest in the proposed contract prior to any contract being awarded by the City of Cleveland. Any Contractor or Subcontractor who is deemed to have made a false statement shall be declared to have acted in default of its contract and shall be subject to the remedies for default contained in its contract. For failure to cure such a default, the Contractor or Subcontractor shall be automatically excluded from bidding for the supply of any goods or services for use by the City for a period of two years.

CHECK WHICHEVER IS APPLICABLE:

- A. () The undersigned or any controlling shareholder,* subsidiary, or parent corporation of the undersigned is NOT ENGAGED IN ANY BUSINESS OR TRADING FOR PROFIT IN NORTHERN IRELAND. (If paragraph A. is checked, proceed to the signature line.)
- B. () The undersigned or any controlling shareholder,* subsidiary, or parent corporation IS ENGAGED IN ANY BUSINESS OR TRADING FOR PROFIT IN NORTHERN IRELAND. (If paragraph B. is checked, please either check the stipulation contained in paragraph C. or attach documentation that shows that the undersigned has complied with the stipulation contained in paragraph C.
- C. () The undersigned and all enterprises identified in paragraph B. are TAKING LAWFUL AND GOOD FAITH STEPS TO ENGAGE IN FAIR EMPLOYMENT PRACTICES WHICH ARE RELEVANT TO THE STANDARDS EMBODIED IN THE "MacBRIDE PRINCIPALS FOR FAIR EMPLOYMENT IN NORTHERN IRELAND." A copy of the MacBride Principles can be obtained from the Office of the Commissioner of Purchases and Supplies. In lieu of checking this paragraph, the undersigned must attach documentation which the undersigned believes shows compliance with the stipulation contained in this paragraph C.

Name	e of Contractor or Subcontractor
By:	
Title:	

*"Controlling shareholder" means any shareholder owning more than fifty percent (50%) of the stock in the corporation or more than twenty-five percent (25%) of the stock in the corporation if no other shareholder owns a larger share of stock in the corporation.

CAIRNS 1836 Traditional Fire Helmet SPECIFICATIONS/DESCRIPTIONS OF PRODUCTS AND/OR SERVICES

CAIRNS 1836 Traditional Fire Helmet COLOR (VARIOUS)

QTY <u>40</u>	BLACK UNIT PRICE	TOTAL COST	PART NUMBER BBA0ABEAAA0	
QTY <u>X</u>	YELLOW UNIT PRICE	TOTAL COST	PART NUMBER BYAOABEAAAO	
Q ТҮ <u>Х</u>	RED UNIT PRICE	TOTAL COST	PART NUMBER BRAOABEAAAO	
QTY <u>X</u>	WHITE UNIT PRICE	TOTAL COST	PART NUMBER BWA0ABEAAA0	
		Product Type		
Structu	ral Firefighting Helmet			
		Product Model(s)		
MSA Ca	irns® 1836 Traditional Fire Helr	met		
		Purpose		
To supply a uniform, standard product specification for a fiberglass composite structural fire helmet.				
		Scope		
The scope of this product specification encompasses the performance criteria, design, construction, and materials deemed necessary for helmets utilized for structural firefighting.				

Performance Criteria/Standards

environmental effects to the firefighter's head while providing the specifying authority with what are, in

General

Helmets manufactured in accordance with this specification are designed to mitigate adverse

their opinion, essential requirements.

The MSA Cairns® 1836 Traditional Fire Helmet shall meet the requirements of the current edition of NFPA 1971-2018, Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting.

All eye/face protection sold as part of the original helmet assembly shall be compliant with the impact requirements of the current editions of ANSI/ISEA Z87.1 and NFPA 1971-2018, Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting.

Performance Verification Data Requirement

Response to this specification shall include a complete and current edition of NFPA 1971, Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting, including a test report from a recognized, accredited test facility detailing all performance data for the helmet(s), and compliant helmet components included in the original assembly. Certificates of conformance and/or letters of certification alone shall not be acceptable. Component testing is not acceptable. Certification testing is conducted every year to a random lot size, as per NFPA requirements.

Manufacturer's Warranty

MSA warrants MSA Cairns® Fire Helmets to be free from defects in materials and/or faulty workmanship for a period of ten (10) years from the date of manufacture by MSA. For warranty details, please see 10-Year Warranty and Terms of Sale (ID 3600-72-MC). All warranty documents can be found on the MSA website (MSAsafety.com).

Helmet Shell

The MSA Cairns® 1836 Traditional Fire Helmet shall have a classic American Fire Service style helmet shell, comprising a crown, with four (4) major ribs (front, back, left, and right sides), and four minor ribs equidistant between each major rib, and a brim that has a short front visor continuing around the sides to a large rear watershed area. The upper surface of the watershed shall have a textured finish with ivy scroll on the back of the watershed brim. The underside of the brim shall have drill guides for the various eye/face protection that can be attached to the shell.

The shell material shall be a fiberglass composite, consisting of a high-temperature, flame and chipresistant "through-colored" thermoset resin, reinforced with 1-inch and 2-inch chopped fiberglass, compression-molded to form a one-piece shell.

Painted Helmet Colors

The exterior of the shell shall be completely coated with a color pigmented, high gloss, abrasion, high heat, and chemical-resistant paint finish.

The shell color and matched paint finish shall be available in the standard colors of white, red, black, and yellow. Orange, blue, green, and pink painted finishes shall be available over a white composite shell.

The shell shall have black or white, high-temperature, flame-resistant, flexible edge trim made of thermoplastic rubber (TPR) with an aluminum core. The edge trim is secured around the entire brim of the helmet by crimping the aluminum core. The edge-trim is secured at the mating ends and clamped by the stainless steel helmet hanger clip, with integrated barbs, at the edge of the rear brim.

The shell shall have a helmet hanger comprised of a stainless steel helmet hanger and a stainless steel wire formed loop. The helmet hanger shall be attached to the center rear of the brim by a brass rivet.

Weights/Dimensions

Depending on helmet configuration, weight may vary; ranging from 53.6 oz. (1.5 kg)* to 63.0 oz. (1.8 kg).

*Base Cairns® 1836 Fire Helmet comprised of the following components:

Unpainted shell with edge trim and helmet hanger, retro-reflective trim, 6-inch front holder, and front bracket with screws. The impact cap liner system is fitted with a headband, suspension, standard cushion liner, standard chinstrap with Quick-Release buckle and postman slide, yellow

Nomex Earlap, and Defender® integrated visor.

Shell Dimensions

The shell dimensions (with edge-trim) shall be 15.3 inches length, 11.8-inches width, and a crown depth** of 5.78 inches.

**The maximum height from the bottom of the side of the shell adjacent to the chin strap location to the top of the shell is: 5.78 inches.

The shell shall have a nominal wall thickness of 0.075 inches in the crown and 0.085 inches on the brim.

Front Holder

The helmet shell shall be furnished with a crushable brass front-piece holder designed to absorb impact that shall be attached to the main rib on the shell front, and positioned to capture the top of standard 6-inch fire department identification shields (i.e., leather front piece).

The front holder shall be a carved brass eagle, silk-screened brass eagle.

The shell shall have a thermoplastic, front-piece dovetail mounting bracket affixed to the front center of the shell with a single screw attachment. The bracket shall provide for positioning and retention of 6-inch front pieces.

Impact Cap Assembly

The impact cap energy-absorption system is designed to help provide increased thermal, acceleration, attenuation, and impact protection.

The impact cap assembly shall be an impact-resistant polymer liner covered by a semi-rigid open cell, high temperature, energy absorbing urethane foam cap that covers the entire inner crown of the helmet. This impact cap assembly is held into the helmet shell by the shell release tabs and corresponding brackets. The impact cap assembly is removable for cleaning, inspection, and replacement.

Helmet Suspension

The MSA Cairns® 1836 Traditional Fire Helmet suspension shall consist of a six-way head suspension system, attached to the impact cap assembly.

The helmet suspension system comprises three (3) fixed 0.75-inch wide nylon straps mounted at six points on the impact liner and fastened at their intersection to form the 6-way overhead strap assembly. The straps are attached to the impact cap assembly by means of location-specific rigid plastic clips that lock the straps into the impact cap assembly.

Shell Release System

The impact energy-absorption system, complete with suspension system and chinstrap assembly (as described under "Chinstraps") shall be retained to the helmet shell by means of two (2) thermoplastic shell release tabs. This design will enable the energy-absorption system to be released from the helmet shell when impacted from below the brim and leaving the energy-absorption assembly on the wearer's head for continued, limited, thermal, and impact protection.

Sizing Adjustment

The size of the headband may be adjusted to fit the wearer's head by means of a pivoting ratchet adjustment system. The headband is attached to the sides of the impact cap liner by five (5) flexible retention tabs.

The two rear ratchet arms shall have three (3) adjustable positions so that the angle of the ratchet may be set to accommodate the nape of the wearer's head. The headband height shall have three (3) adjustable positions to provide additional comfort to the wearer and maximize compatibility with the SCBA face piece.

The headband and energy-absorption system shall fully accommodate a head size range of 53/8 to 83/8, adjustable in 1/8-inch increments.

Comfort Liner

The MSA Cairns® 1836 Traditional Fire Helmet shall have a removable comfort liner, consisting of a one-piece headband with crown cushion, and a separate ratchet pad. Both components made of a flexible open-cell foam laminate system, comprised of a soft black flame-resistant jersey-knit material against the user's head backed by a soft unbroken loop material. The comfort liner is secured to the headband via locationspecific slot and tab attachments with secondary hook and loops supports. The ratchet pad is secured via hook and loop fasteners.

The comfort liner and ratchet pad are machine-washable and both can easily be upgraded to a deluxe leather-lined version.

Chinstraps

The chinstrap shall be constructed of three (3) pieces (or sections) of 3/4-inch wide, spun-Nomex webbing, which are connected by a hightemperature, durable thermoplastic Quick-Release (QR) buckle on the left side of the helmet, and by an optional cast zinc postman slide buckle on the right side of the helmet. The middle section shall be a minimum of 23 inches in length and the total length of the chinstrap shall be

35 inches at full extension, end to end. All chinstraps are removable and washable.

Additional chinstrap options:

- Extended-length chinstrap with QR buckle and postman slide.
- Shorter-center chinstrap with QR buckle and postman slide.
- Extended-length chinstrap with postman slide and leather sheath.
- Four-point chinstrap with QR buckle and postman slide shall be available without requiring an alternate impact cap assembly.

Ear/Neck Protection

The MSA Cairns® 1836 Traditional Fire Helmet provides ear and neck protection via an earlap with an expanded opening to easily make ratchet adjustments.

The triple-layer earlap consists of a 7.5 oz./yd., black colored Nomex outer layer and two flame-resistant black flannel inner layers.

The earlap shall be secured via four (4) discrete Thermoplastic hooks located across the top of the earlap and enabling easy attachment to the energy-absorption system.

The earlap is machine-washable. The ear and neck protector shall be removable without Interfering with the overhead strap assembly in any way and without removing any part of the helmet suspension.

Retro-Reflective Trim

The MSA Cairns® 1836 Traditional Fire Helmet shall have eight (8) tetrahedron shaped pieces of retroreflective trim around the exterior crown of the helmet shell for maximum visibility.

• Color for Reflexite: Lime-Yellow.

Eye Protection

Defender® Integrated and Articulating Visor (internal) - Clear

The MSA Cairns® 1836 Traditional Fire Helmet shall have an integral visor that retracts between the helmet shell and impact cap. The visor shall be a wrap-around design meeting the minimum performance requirements set forth by NFPA 1971, latest revision. The lens, once deployed, shall be capable of articulation to and away from the face, helping to provide gap-free protection. The lens shall be coated with a scratch-resistant coating on both inner and outer surfaces to help protect it from abrasion. The lens shall be optically correct to eliminate distortion. The lens material shall be high-performance, impact-resistant plastic. The lens shall be able to be replaced within 15 seconds and without the use of tools (e.g. Allen wrench, screwdriver). The lens must be securely stowed without the use of spring-loaded mechanics or lever system

Berry Compliance

The Cairns® 1836 Traditional Fire Helmet is manufactured in the United States of America, country of origin US, and complies with the Berry Amendment FAR 252 225-7012 and Trade Agreement FAR 252 225-7021. Supplier shall acknowledge it has fully investigated the source of all elements and

components of the product described in accordance with the Berry Amendment and must supply a certificate to confirm such compliance.

Maintenance, Repair, and Retirement

The Cairns® 1836 Traditional Fire Helmet impact cap liner system shall have the ability to be completely disassembled and reassembled, for cleaning and advanced cleaning purposes, without requiring any special tools.

Proper maintenance, repair, and retirement of the helmet can be found in the MSA Cairns® 1836 Fire Helmet Operation and Instruction Manual on our web site (MSAsafety.com). Users should also refer to NFPA 1851 (current edition) regarding proper inspection, maintenance, repair schedules, and retirement requirements for structural firefighting helmets. Upon the customer's request, an MSA representative will conduct training explaining the proper maintenance, repair, and retirement of MSA Cairns® Fire Helmets.

Contact Information

For additional information on MSA Cairns® products,	, please contact MSA Customer Service at 1-877-
MSA-FIRE or visit us on MSAfire.com	

QTY	UNIT PRICE	COST

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