

**Snyder Fire District
4531 Main Street
Snyder, NY 14226**



**Specifications and Bidding Instructions
Quantity of eighty (80)
Structural Firefighting Helmets**

**Firefighting Helmet Specifications
Snyder Fire District
Snyder, New York**

Purpose:

Bidders are to submit a sealed bid for a total of eighty (80) Traditional Style Structural Firefighting Helmets.

Bid Instructions:

All bids shall be sealed and delivered to Secretary James Koeppel, 4531 Main Street., Snyder, New York 14226 on or before 5:00 p.m. eastern standard time, July 19, 2022. Bid shall be plainly marked on the outside "BID FOR FIREFIGHTING HELMETS" and shall also be plainly marked with the name of the bidder.

Bids will be opened and read publicly at a meeting of the Board of Fire Commissioners of the Snyder Fire District on Tuesday July 19, 2022 at 7:30 p.m. eastern standard time at 4531 Main Street, Snyder, New York 14226.

All bids must conform to section 103-A of the New York State General Municipal Law.

A Non-Collusion bidding certificate (**blank copy attached**) must be included with all bids pursuant to section 103-D of the New York State General Municipal Law.

All bids must include a detailed explanation of the Helmet Manufacturer's factory warranty.

The Snyder Fire District Board of Fire Commissioners reserves the right to waive any informalities if it deems proper and in the best interest of the Snyder Fire District.

The Snyder Fire District is exempt from Erie County Sales Tax, New York State Sales Tax and Excise Tax.

Shipment must be made complete. No partial shipments shall be accepted. Payment will be made upon acceptance of the helmets by the Snyder Fire District.

Note:

All exceptions to these specifications shall be noted on a separate sheet of paper and shall reference the page number and item number or section to which the exception is taken.

Quantity: Seventy-six (76) color black.
Two (2) color red.
Two (2) color yellow.

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SCOPE

The purpose of the helmet is to provide thermal, impact, and eye protection during structural fire fighting operations where there is a threat of fire or when certain physical hazards are likely to be encountered, such as non-fire related rescue operations, emergency medical operations, and victim extrication.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

CERTIFICATIONS AND STANDARDS

All helmets produced shall meet or exceed the criteria set forth in the current edition of NFPA 1971 STANDARD ON PROTECTIVE ENSEMBLES FOR STRUCTURAL FIRE FIGHTING AND PROXIMITY FIRE FIGHTING CURRENT EDITION, NFPA 1851 SELECTION, CARE AND MAINTENANCE OF STRUCTURAL FIRE FIGHTING PROTECTIVE ENSEMBLES, NFPA 1500 FIRE DEPARTMENT OCCUPATIONAL SAFETY AND HEALTH PROGRAM, and/or the requirements of CAL-OSHA.

All components used in the construction of garments shall be third party tested, certified, and listed for compliance to NFPA 1971. The label of the third party tester shall denote certification. Copies of the certification shall accompany bid proposal upon request.

The manufacturer shall be registered to ISO 9001 Quality System to assure meeting or exceeding satisfactory levels of quality.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

HELMET ASSEMBLY

The helmet shall be assembled with the safety, comfort, and protection of the firefighter in mind. For the purpose of reducing neck fatigue and/or strain, the weight of the helmet shall be equal to or less than 55 ounces when weighed without eye protection and I.D. front. All other specified required components, accessories, and attachments must be in place for weight comparison.

The helmet shall have a liner consisting of an advanced light-weight thermoplastic and a 1/4" layer of K-flex material for enhanced thermal protection in the event of extreme heat situations.

The helmet impact cap shall be constructed with an inner shell consisting of a high temperature lexan mounting ring and coupled with an ABS dome. The dome insert is then over molded with urethane foam for added impact strength. The impact cap shall be affixed to the inside of the helmet shell by way of hook and loop and chinstrap brackets. Separable foam impact caps leave the firefighter at risk of severe injury should it become exposed during a fall or impact. The use of a separable foam impact cap shall not be acceptable.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

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SHELL

The helmet shell shall be constructed with a high quality, fiberglass reinforced, mineral filled, polyester thermoset, sheet molded compound, (SMC) material to ensure adequate coverage and protection. The shell shall be molded with a high pressure, high heat molding process that enables the SMC to evenly flow and crosslink without introducing brittleness or stress to the product.

The shell shall be through color molded to extend the wearlife of the helmet. Shell color shall be black for a quantity of seventy-six (76), red for a quantity of two (2) and yellow for a quantity of two (2).

Design: The shell shall be traditional in shape measuring 14.8" from front to back, 11.73" from side to side. The design includes a protective side brim with an upward angle for channeling water. The brim measurements shall be a minimum width of 1.05" on each side and front with a minimum of 2.65" at the rear. The design shall require the dome to be kept low for better balance, and a lower center of gravity resulting in a reduction of neck fatigue. The dome shall be no more than 6" in height when measured from the top surface of the helmet brim.

Edge Trim: The welting shall consist of a self-locking, fire resistant material for ease of inspection or replacement in the field. The welt shall be black in color. Adhesives or glue shall not be accepted.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

SUSPENSION SYSTEM

The suspension system shall have an adjustable five-point assembly designed to maintain the proper clearance between the wearer's head and the dome of the helmet. The entire suspension and headband assembly shall have easy removal, repair, and replacement capabilities by trained department personnel in the field. The ease of suspension and headband adjustment shall enable each individual fire fighter to tailor the ride and balance of the helmet to their specific needs for comfort and performance.

Suspension: The suspension shall consist of nylon webbing strategically positioned and sewn at six points. It is attached to the heat resistant thermoplastic liner, allowing optimum performance and fit.

The suspension shall have the LION® patented center of gravity feature including a foam crown pad that adjusts for specialized fit.

Headband: The headband assembly shall be rear ratchet style and adjustable to fit head sizes from extra small (5.5) to extra large (9.5). The headband shall be equipped with a center of gravity adjustment strap as well as four (4) tabs with three (3) height adjustments for maximum balance, fit, and interface with SCBA masks. The ratchet assembly shall be designed to ensure the ratchet sets below the occipital lobe to cradle the head and eliminate gaps between head and headband causing pressure points, premature exhaustion, or helmet fluctuation. The ratchet assembly shall be capable of fore and aft adjustment and replacement by trained department personnel. All headband components contacting the head of the fire fighter including front, sides, and ratchet

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band shall be padded and lined for increased comfort and headband durability.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ YES _____ NO

EYE PROTECTION

NFPA Compliant Flipdowns: The flipdowns shall be mounted through the front brim of the helmet with brass screws and nuts for ease of replacement or repair in the field. The lenses shall be quality polycarbonate material.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ YES _____ NO

CHINSTRAP ASSEMBLY

The chinstrap assembly shall be provided with a postman's slide adjustment buckle. The strap assembly shall be provided with a t buckle that will allow separation of the strap assembly for easier donning over a breathing apparatus face piece and quick release. These buckles shall mount into the strap so that no material comes in contact with the firefighter's face. The chinstrap shall include fire retardant hook and loop fasteners to store the loose end of the adjustment strap for added safety and better fit. The chinstrap assembly shall mount into the helmet shell assembly for ease of removal during repair or replacement by trained department personnel. Use of rivets for shell mounting the assembly shall not be acceptable. The chinstrap shall be constructed of flame resistant woven Nomex® for increased comfort of the firefighter.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ YES _____ NO

EAR AND NECK PROTECTION

An ear and neck protective system shall be assembled to the helmet in accordance with the NFPA 1971 standard, current edition.

Earflaps shall be constructed of 7.5 oz black Nomex® material sewn to two layers of heavyweight FR flannel. This assembly shall provide thermal protection for a distance not less than 6.5" when measured from the center underside of the brim to the hem of the assembly. The earflaps shall be completely removable without complete disassembly of the helmet for ease of cleaning, decontamination, and replacement in the field. This assembly shall completely cover the ratchet adjustment mechanism during use. For maintenance and appearance purposes, lighter color materials shall not be acceptable.

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_____ YES _____ NO

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D-RING AND BRACKET

D-ring hanger and bracket, composed of gold anodized aluminum, shall be attached to the rear brim of the helmet shell with a machine screw, lock washer, and acorn nut for ease of repair or replacement in the field. The D-ring shall be a minimum of 1.25" long x 1.5" wide. The use of rivets to attach this d-ring and bracket shall not be acceptable.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

LEATHER FRONT MOUNTING HARDWARE

The helmet shall be provided with a carved style brass eagle for the upper portion of the leather front holder. The hollow design reduces helmet weight and serves as a first line shock absorber during an impact. The upper portion of the front holder shall be attached to the front rib of the shell with two (2)-threaded rods and four (4) acorn nuts that permit field replacement or repair. The use of rivets for attachment shall not be acceptable.

The helmet shall be provided with a glass reinforced thermoplastic bracket for the lower portion of the front holder. Two (2) screws shall be inserted into the slots on the rear of the bracket and pulled into the recess and held with retainer washers to maintain stability for front attachment. The lower portion of the front holder shall be attached to the lower front crown of the shell by two (2) blind rivets. The use of bolts, screws, or other fasteners that may contact the firefighter's head shall not be acceptable.

A standard leather front shall be made available for sale with the helmet. The front shall be installed on helmet before shipment or sent as a separate item upon request.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

REFLECTIVE TRIM AND INFORMATION

The helmet shall have eight (8) tetrahedrons of reflective trim, measuring 2" in height and 2" at the base, positioned approximately .75" above the base rib of the dome. This trim is in accordance with the NFPA 1971 standard, current edition. The helmet shall have 3M Scotchlite™ as standard trim.

All helmets delivered shall be identified with an affixed lot number located inside the dome of the helmet. This number will be used for warranty, helmet assignment and maintenance record keeping purposes. The number shall be mechanically printed and be at least 3/16" high. The use of hand written numbers or stick on numbers shall not be accepted. All helmets shall be provided with a label listing the UL approval file number, NFPA required information, and maintenance guide is shipped with the helmet.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

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DELIVERY

Each order placed under this contract shall be delivered to the purchaser no later than forty-five (45) days after receipt of order.

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

COUNTRY OF ORIGIN

The Helmets shall be manufactured in the United States .

DOES YOUR HELMET MEET EVERY REQUIREMENT IN THIS SECTION?

_____ **YES** _____ **NO**

DRAFT

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CERTIFICATE OF NON-COLLUSION
SNYDER FIRE DISTRICT



TOWN OF AMHERST, COUNTY OF ERIE, STATE OF NEW YORK

AFFIDAVIT

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

- (1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
- (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor;
- (3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

FIRM OR CORPORATION NAME: _____

PRINCIPAL ADDRESS: _____
STREET
CITY STATE ZIP

SIGNATURE OF INDIVIDUAL, PARTNERS OR OFFICERS

SIGNATURE _____ TITLE _____

PRINT NAME _____

SIGNATURE _____ TITLE _____

PRINT NAME _____