Hood Design Advantages and Mateials

American Firewear supplements traditional hood design with targeted protection for specific situations, and innovative features for comfort and durability.

Targeted Heat-Guard Hood: Extra Insulation Just Where You Need it

Helmet shroud insulation was increased by NFPA 1971, 2007 Edition, effectively doubling the TPP at the ears and back of head to a minimum of 40 – 20 for the shroud and an additional 20 for the hood worn beneath the shroud. Previously, the shroud had no significant thermal component. American Firewear's patented Heat-Guard technology boosts the TPP of the hood's face area only – the part that is not beneath the helmet shroud – to match that in the covered parts of the hood. This reduces the chance of facial areas being exposed to more heat than the wearer is aware of due to reduced sensitivity in the ear and neck areas beneath the helmet flaps.

Hood Turned inside out. Nomex® Fleece Backing the Eagle HTC™ Carbon Blend Visible

Comfort Top Hood Design

Advantages

1. The Comfort Top knit stretches in the opposite direction of the hood body so you have balanced multi-stretch fit. The difference is very noticeable and very positive.
2. The peaked look of some hoods along the top stitch line is gone. The Comfort Top hood pulls evenly around the circular top seam with no rubbing when wearing a helmet.

Patented and Patent Pending.

Notched Shoulders

Most American Firewear hoods feature notched shoulders to prevent roll under your turnout coat

Flatlock Seaming

American Firewear hoods feature true Flatlock seaming, which allows a helmet to fit properly on the head without uncomfortable pressure at the seam. Most competitors use a faux flatlock, which, while appearing similar, is not truly flat and can cause discomfort when beneath the helmet suspension.

Nomex® Lensing (2-layer wt., 16.5-17.0 oz)

Super Hoods feature an inner layer of 8 oz-per-square-yard Rib-Knit Nomex® Lenzing in a 20/80 Blend. By altering the fiber's performance, the Lenzing component of the fabric slows the thermal transmission efficiency (increases its TPP) while boosting its water-wicking ability and overall comfort.

TPP before/after wash: 26.4/33.9

100% Nomex® (2-layer wt., 16.5-17.0 oz)

To meet TPP requirements, Nomex® hoods (white in color) were beefed up to 8.25 - 8.5 ounce, 100% Nomex® knit. This material handles perspiration only moderately well and, while on the heavy side, is on the economical end of the scale.

TPP before/after wash: 22.1/26.7

P-84®/Lensing PFR Rayon/Kevlar® (2-layer wt. 17.0 oz)

Navy blue and pale yellow (natural). This 8.5 ounce knit is a blend of 40% P-84®, 55% PFR Rayon, 5% Kevlar®. This blend handles perspiration very well, is a step up in heat resistance, is slightly heavy, but the most economical choice.

TPP before/after wash: 22.2/24.2

Hood Models

Pbi™/Lenzing PFR Rayon (2-layer wt. 13.0 oz)

Bronze. The 6.5 ounce knit is a 20% Pbi®, 80% PFR Rayon blend. Yet another step up in heat resistance, it also handles perspiration extremely well and is often chosen as being the most comfortable of the materials. While a bit more expensive, it has been the choice for overall best insulation, heat resistance and comfort for over 15 years.

TPP before/after wash: 23.2/34.1

Basofil®/Nomex® Blend (2-layer wt. 16.0 - 17.0 oz)

40% Basofil® blended with 60% Nomex®, this material is an extremely good heat blocker, economically improving on 100% Nomex®. White.

TPP before/after wash...23.8/29.6

HTC™ Carbon Blend (2-layer wt. 13.5 oz)

Combining carbon fiber, Kevlar® and P-84®, this blend offers superior strength compared to other carbon blends on the market. Black.

TPP before/after wash: 24.3/28.5

Combinations:

Nomex®/Lenzing Inner Layer (8 oz. Rib-Knit, 20/80 Blend); Outer Layers of Traditional Materials

There are both comfort and price advantages associated with hoods utilizing Nomex/Lenzing against the skin and other materials to the outside. Nomex®/Lenzing readily pulls perspiration away from the skin, and presents a soft hand. Teamed with other materials offering specific benefits, such as high flame resistance, high temperature resistance, etc., the end results are quite pleasing.

The following are TPP results of combinations made up of Nomex®-Lenzing inners with various outers:

Outer Material Mated with Nomex®/Lenzing Inner Layer
Nomex®/Lenzing 8.0 oz TPP before/after wash: 26.4 / 33.9
P-84®/Lenzing 8.5 oz TPP before/after wash: 23.5 / 24.9
Pbi™/Lenzing 6.5 oz TPP before/after wash: 24.4 / 32.9

Heat-Guard Hood

Patented targeted Heat-Guard insulation front where the helmet ear covers do not contribute to insulation and MOST head burns occur. Insulation where you need it, and only where you need the extra protection.

Heat-Guard Models:

HD-VFDN-VC
Ventilated

HD-FDN-VC
Comfort Top

Reed Hoods (2002 Edition)

Another hood option is the Reed Hood, designed by the legendary Captain Clifford Reed. These hoods can be configured in almost any turnout coat composite layup. American Firewear offers Reed Hoods in two styles:

reed Hood Models:

HD-REED
Outer Shell – 7.5 oz. Pbi™
Moisture Barrier – Crosstech® on Nomex® Facecloth
Thermal Liner – Platinum Semi-slick light batt Aralite
TPP before / after wash: 40.2 / 44.1

HD-REED3
Outer Shell – 7.5 oz. Pbi™
Moisture Barrier – NONE
Thermal Liner – Platinum Semi-slick facecloth / heavy batt with extra thermal layer at crown
TPP before / after wash: 29.1 / 32.6

Hood Models

Innovation... American Firewear Structural Hoods

We asked professional firefighters:

Tell us about the hoods you've used. What did you like? What did you dislike? Was the head too small? Too large? Did you like the bib length, chest coverage, neck protection? We questioned every fit and function, each construction and stitch. Then we tweaked, improved, and completely updated our hoods to a level well beyond most expectations!

Raising The Bar – Three Standard Structural Hood Styles

When it comes to hoods, nobody knows your preferences better than you. That's why we offer three different bib configurations to go with our full-size, super-comfortable head section. Every style sets a New Standard In Performance by including:

- **Full-sized head** – Proportioned to fit virtually any fire fighter
- **Comfort Top design** – The only hoods that stretch in both front-to-back and top-to-bottom directions. Try it!
- **Our extremely popular "Natural Face" opening** – Stretches to over 17" yet returns instantly
- **Full Flatlock Seaming** – Not "faux" flatlock, but true, flat stitching – No bumps or ridges to snag or annoy
- **Fully bound at the hem**

Available Bibs:

- Shoulder-notched Rounded Bibs
- Shoulder-notched Wide Squared Bibs
- Straight-cut face & Chest Design

Choice of:

- Traditional Top or
- Ventilated Top

All styles independently certified as meeting the requirements of NFPA 1971, 2007 Edition

All styles are available in both Comfort Top and Ventilated configurations.

Material	Style 22007 Squared Front, Rear Bib with Shoulder Notches	Style FD Rounded Bib with Shoulder Notches	Style FC Face and Chest Only Full Drape
Nomex® 100%, 2-Layers	HD-300-22007FNF	HD-FDN	HD-FCN
Pbi™ Blend, 2-Layers	HD-300-22557FNF	HD-FDPBIR	HD-FCPBIR
HTC™ Carbon Blend, 2-Layers	HD-300-22667FNF	HD-FDHTC	HD-FCHTC
P-84® Blend (Natural), 2-Layers	HD-300-22887FNF	HD-FDP84N	HD-FCP84N
P-84® Blend (Navy), 2-Layers	HD-300-22887FNF-V	HD-FDP84V	HD-FCP84V
Basofil® Blend, 2-Layers	HD-300-22997FNF	HD-FDB	HD-FCB
Inner Basofil® Layer Outer P-84® (Natural)	HD-300-22989		
Nomex®/Lenzing, 2-Layers	HD-300-22227FNF	HD-FDNL	HD-FCNL
Inner Nomex®/Lenzing, Outer Pbi™	HD-300-22527FNF	HD-FDPBIRNL	HD-FCPBIRNL
Inner Nomex®/Lenzing, Outer P-84® (Natural)	HD-300-22827FNF	HD-FDP84NNL	HD-FCP84NNL
Inner Nomex®/Lenzing, Outer P-84® (Navy)	HD-300-22327FNF	HD-FDP84VNL	HD-FCP84VNL

Consult price list for additional information.