

An engineered knitted mesh reinforcement system manufactured from continuous Basalt fiber. Designed to enhance the fire performance of NanoChar® - a 100% solids epoxy intumescent fire protect material, and other intumescent materials. Basalt fiber is similar to carbon fiber and fiberglass, but basalt has better mechanical properties than other types of fiberglass and is lower in cost than carbon fiber. IR-107™ is a patent pending, (PCT) reinforcement system.

### Features and Benefits of IR-107™

- High temperature resistance which increases the structural stability of the reinforcement system in fire protection applications - IR-107™ has been hydrocarbon and Jet fire tested to ISO 22899-1 with NanoChar®
- Open Knitted 3D construction: Allows Ease and speed of application, enhances "wetting- out" of viscous intumescent materials especially important at the over-lapping joint areas of the mesh reinforcement system.
- IR-107™ is additionally treated after the knitted construction process to further increase the compatibility with various resins systems. The additional treatment step increase the stiffness of the system for ease of handling without effecting the drapeability and the ability of the mesh to follow the contours of complex shapes or flange edges of columns or beams.
- Environmentally friendly, exhibits no health and safety risks
- Packaging: Rolls are available from 36 inches to 44 inches in widths; lengths can vary from 65 to 200 yards.



*IR-107™ jet fire testing*



*IR-107™ mesh flange edge*