

FireSheath® WFS Net™ Mesh

FireSheath®
FIRE RETARDANT
COATING

Introducing FireSheath® WFS Net™, an innovative mesh designed to protect wood products in case of fire by forming a barrier of protection that stops the spread of flames. FireSheath® WFS Net™ is used in the protection of utility poles as well as railroad bridges and crossarms.

This new, easy-to-use product is an intumescent coated mesh that can be applied at any time to any type of wood products. Because it is painted on the wire mesh, product durability is improved and there is no need for cure time.

During Testing FireSheath® WFS Net™ protected posts were exposed to fire that exceeded 1000 degrees. FireSheath® WFS Net™ formed a noncombustible barrier of protection within 5 seconds by expanding 300x's that stopped the spread of the flames and insulating the wood surface.

Lonza Wood Protection and Genics have teamed to bring FireSheath® WFS Net™ to the market, making it available for both utilities and railroads.



At left, wrapped post before test; at right, wrapped post on fire



Post with FireSheath® WFS Net™ mesh removed after fire

FireSheath® WFS Net™ Crosstie Testing

Ties were stacked to create a saddle to mimic the dropping of hot metal between the bridge ties that could typically start a bridge fire. These tests were conducted by FP Innovations Lab in Canada. FireSheath® WFS Net™ is an intumescent coated wire mesh that can be easily applied without concerns about surface bonding and is mechanically attached to wood structures. During this test, the ties did not burn.



Railroad ties wrapped with FireSheath® WFS Net™ mesh before testing



Unwrapped railroad ties fully engulfed in flames during test; wrapped ties not burning



Wrapped ties cooling after fire; no visible signs of damage to ties wrapped with FireSheath® WFS Net™ mesh

Ready Reference chart for Pole/Piling Circumferences

Pole/Piling circumference in Inches and Feet	# Poles/Piling Wrapped with a 6' Protected Zone per Roll (3'x50')
60" — 5'	~5
45" — 3.75'	~6.5
35" — 2.9'	~8.6
30" — 2.5'	~10
15" — 1.25'	~20

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