SYSTEM HARDENING:

As simple as building a stronger **wood** structure.

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WOOD
VS
FIBERGLASS

Playing with Fire

FIRE TESTING OF LOADED WOOD AND FIBERGLASS ARMS

WOOD ARM EXPERIENCE

RESILIENCE:

The property of a material that enables it to resume it's original shape after being stressed.

Here is a wood crossarm under load after **10 minutes** of sustained heat panel application. Self extinguished after 40 minutes.

SYNONYMS

- Strength
- Toughness
- Resistance

FIBERGLASS MELTS BEFORE WOOD BURNS

FIBERGLASS ARM CLAIM

SELF-EXTINGUISHING:

The ability of a material to cease burning once a source of flame has been removed.

Here is a fiberglass crossarm under load after **4 minutes** of sustained heat panel application.

ANTONYMS

- Failing
- Melting
- Bending

The fire tests cited in one FG arm supplier's technical information are tests that are used in parts for appliances, not your powerline.

WOOD HAS BEEN USED AND ABUSED FOR DECADES AND IS PROVEN TO LAST

- Do not buy into the claims of self-extinguishing, strong or long lasting.
- Being "self-extinguishing" does not matter if it melts.
- Anything can be made to hold any load. That's what engineers do.

All of the claims of service life are merely projections and accelerated testing, not actual field usage over decades.

The ASTM states in G151 for accelerated testing: "Even though it is tempting, calculation of an acceleration factor relating x hours of a laboratory accelerated test to months or years of exterior exposure IS NOT recommended."