ALPHA WATER & POWER

Product Overview 2025

AWP ROK-ON

Game-Changing Innovation for Housing

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Company Name: Alpha Water & Power

THE CHALLENGE IN CONSTRUCTION

Climate change is causing a reassessment of traditional approaches to everything. Nowhere is it more urgently needed than in construction!

- Rising regulatory demands due to climate change (energy, fire safety, sustainability)
- Conventional building systems: complex, costly, resource-intensive
- Affordable housing crisis: immense demand vs. prohibitive costs



THE AFFORDABLE HOUSING CRISIS

How bad is the affordable housing crisis in the United States?



43% of U.S. households pay over 30% of income on housing (housing-cost burdened)



Construction cost increases exacerbate affordability challenges



Dramatic shortfall in supply of affordable housing units



Traditional materials are not keeping up with code requirements or climate realities.

WHY CURRENT MATERIALS FAIL

1. Combustible
2. Mold-prone
3. Inefficient insulation
4. Labor-intensive and slow to build
5. High carbon and material waste



AWP ROK-ON = Housing Innovation



- **FIREPROOF:** ASTM/UL certified, will not ignite
- **MOLD** & water-proof
- **ENERGY EFFICIENT:** Up to R-41 with typical cavity insulation
- **PREFAB-READY:** Built off-site, installed in half the time
- **CODE COMPLIANT:** Exceeds wildfire zone and energy standards
- **100% RECYCLABLE** with low carbon footprint

CURRENT STATE OF THE ART



- *R-20 Energy efficiency – R 16 effective R-Value.*
- *100% Combustible – easily burned in fire.*
- *Wood structure and sheathing can rot– promotes mold.*
- *Susceptible to insects / termites.*
- *Significant waste - adds to land-fills/carbon footprint.*
- *Difficult to construct with many layers. Built on-site.*
- *Labor intensive to build – multiple subs.*
- *Low cost.*

ROK-ON STATE OF THE ART



- ***150% better energy efficiency*** *R-30 – R 24 effective R-Value.*
- ***Totally non-combustible****. Will not burn. No off-gassing in fire.*
- ***Will not*** *rot or support mold. Better long-term maintenance.*
- ***Bug Proof****.*
- ***100 % recyclable.*** *Minimal waste. Low carbon footprint*
- ***Enables off-site construction****.*
- ***Easily prefabricated*** *– Lowers cost – increases productivity*
- *Low cost.*

Simulation of AWP ROK-ON Performance



AWP ROK-ON on left versus code compliant wood construction on right



While AWP ROK-ON could not ignite, the conventional side was engulfed in flame.



After 30 minutes, the conventional construction was totally gone!

LIFE and PROPERTY SAFETY

AWP ROK-ON meets the criteria for Wildlife Interface Zones.



AWP ROK-ON is fully tested to ASTM/UL standards dictated in the building codes for fire performance.



AWP ROK-ON has a non-combustible exterior.
It simply will not catch fire.

Build smarter, spend better.

The Economic Case

25% Reduction in building costs

30% Faster build time

50% Annual energy savings per unit

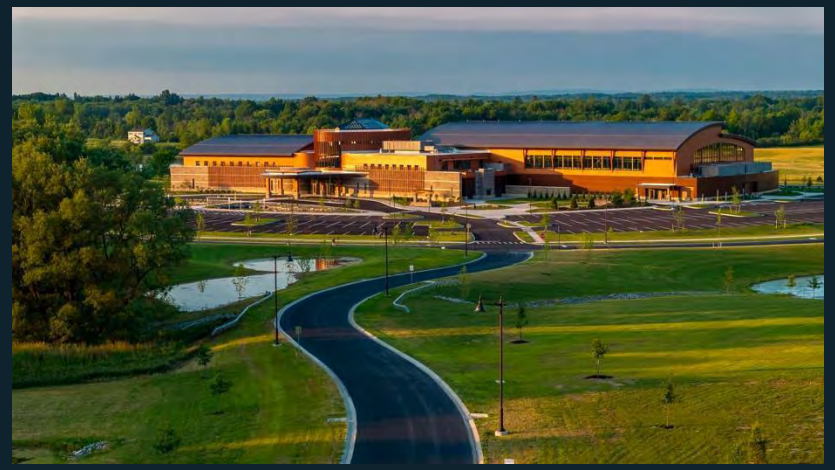
Insurance savings due to fire resistance

Lower lifecycle maintenance (no mold, rot, termites)

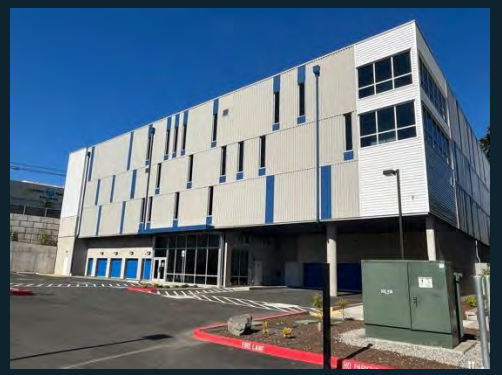
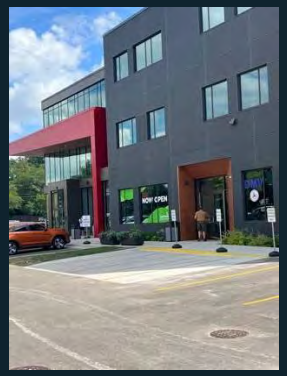


ROK-ON™
Building Systems

AWP ROK-ON products have already been installed on hundreds of buildings across North America.



AWP ROK-ON has met the due diligence of architects, specifiers, code officials, contractors and building owners across North America on substantial projects hospitals, residential towers, dorms, apartments, commercial and residential buildings up to 14 stories to date.

Prefabrication for Housing

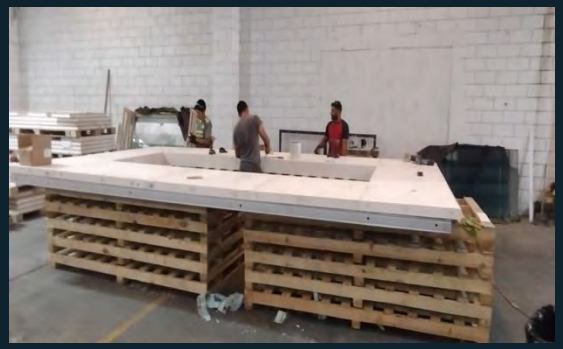


In a world where labor is hard to find, prefabrication is the answer to meet the extraordinary need for millions of homes.

AWP ROK-ON is perfectly suited for prefabrication. Significantly reduces labor, increases productivity (millions of homes needed), increases quality, and lowers costs.

AWP ROK-ON is unique in offering pre-cut parts which are easily installed on framing.

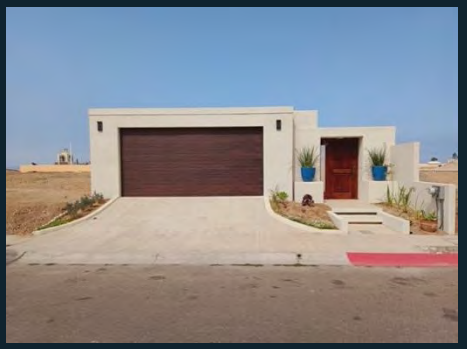






















Mother Nature is being Unkind!

AWP ROK-ON Checks Every Box!

- ✓ **Energy performance** - Exceeds Code requirements - Up to R-41 with typical cavity insulation.
- ✓ **Fire Performance** – Best in class – Will not catch fire. Lowers insurance costs. Combined with steel framing, it will meet he new realities of climate change.
- ✓ **Constructability** – Easily plugs into existing construction. No learning curve – It is simply screwed on to framing by normal tools and trades. Allows for widespread adoption.
- ✓ **Prefabrication –** Ideally suited for prefabrication. This is the only way to create the velocity to meet the needs as labor is in short supply.
- ✓ **Sustainable Construction** - Low carbon footprint. LEED® certified.
- ✓ **Affordability –** Will reduce monthly heating and cooling costs. Insurance rates reduced. Long term maintenance costs are decreased – no rot/mold. Directly contributes to a reduction in the overall cost of ownership.

Let's discuss how you can be part of our journey! Contact us today.

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