WHAT'S UNDER YOUR ROOF MATTERS: INSULATION AND DECKING



HOT TOPIC OCTOBER 2025 ISSUE



When people think about a roof, they often picture the top layer, like the visible membrane. But with flat roofing systems, especially highperformance solutions like Duro-Last, what's underneath matters just as much as what's on top.

At Alternative Roofing Systems, we specialize in flat commercial and industrial roofing, and we know from experience that a successful roofing system starts from the ground up, literally. The insulation and decking beneath your Duro-Last membrane are critical components that affect not only the performance of your roof but also your building's energy efficiency and long-term maintenance costs.

ARE CRITICAL IN FLAT ROOING

WHY INSULATION & DECKING

In any flat roofing system, the insulation and decking form the foundation that supports the membrane and affects how the roof handles moisture, temperature, and load. A highperformance membrane like Duro-Last needs a stable, wellprepared base to deliver on its promise of longevity, watertight protection, and energy efficiency.

Energy loss through

Ignoring or compromising

on these layers can lead to:

- thermal bridging Premature roof failure
 - Increased long-term
- repair costs

ENERGY CODE REQUIREMENTS (WSEC-R2021) In addition to performance considerations, commercial and

MEETING WASHINGTON STATE

Washington State Energy Code (WSEC) - R2021. Under this code, most commercial and multifamily buildings require a minimum of R-38 continuous roof insulation for new construction and major reroofing projects. This means your flat roofing system needs to be designed with adequate insulation thickness and material selection to

low-slope roofs in Washington State must comply with the

meet or exceed R-38, which helps: Lower heating and cooling costs • Improve occupant comfort

- Ensure code compliance and avoid costly rework
- At Alternative Roofing Systems, we stay current on code changes and ensure every Duro-Last roof we install is

Support sustainable building practices

select insulation options, such as Polyiso or tapered systems, that maximize performance while maintaining compliance. INSULATION:

designed to meet or exceed WSEC standards. We help you

In Washington State, the WSEC-R2021 requires most

Insulation plays a critical role in the performance and efficiency

of any flat roof system. For Duro-Last installations, it ensures a

smooth surface, improves thermal resistance, and supports

standards. This means selecting the right insulation, and enough of it, is non-negotiable. Common options include: • Polyiso: High R-value per inch and widely used with Duro-Last

• EPS: Budget-friendly, with lower R-value than Polyiso.

commercial and multifamily flat roofs to meet R-38 insulation

without excessive material buildup.

code compliance.

systems.

insulation strategy for both performance and code compliance.

DECKING:

Your roof is only as strong as the surface it's built on. Roof

decking provides the structural base for insulation and

• Tapered systems: Improve drainage while helping meet R-38

At Alternative Roofing Systems, we'll guide you to the best

We work with all standard decking types, including: Steel deck (common in commercial buildings)

 Wood (plywood/OSB) Concrete

structurally sound and suitable for Duro-Last attachment. If repairs or replacement are needed, we'll handle that too - so

membrane attachment.

your new roof has the support it needs for long-term performance.

DURO-LAST®

Before installation, we evaluate your existing deck to ensure it's

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