



Enhancing Roof Substrate Material Performance

Issue:

Roof substrate and insulation materials insufficiently restrained within a roof system may experience some dimensional change or shifting under certain in-service conditions. The result may be cupping, curling, or rafting that can be a concern with respect to drainage, thermal efficiency, membrane damage, and aesthetics.

Remedy:

Commonly, roof system components are planned and designed for attachment solely to meet wind uplift requirements. Beyond attachment to resist wind uplift, supplemental securement of substrate materials and/or insulation boards will make them more resistant to cupping, curling, or rafting. Review areas of the substrate or insulation that may be free to move. Supplemental attachment options include fasteners, ballasting schemes, and adhesives.

Contact the roofing system supplier to confirm that your Company's additional attachment scheme does not compromise system requirements and warranty prerequisites.

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