

Hail Damages to Roof Systems #4 Single Ply Membrane Roof Systems

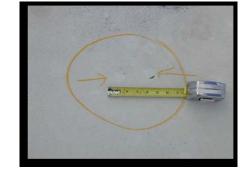
Hail is a natural destructive force that can cause severe damages to residential, commercial and industrial roof systems. Analysis and confirmation of "true" hail damages must be performed by personnel with both technical training and extensive field training expertise of the natural and physical natures of both hailstones and roof systems.

Large damaging hailstones can have devastating effects to single-ply membrane roof assemblies, sometimes without causing direct membrane damages.

Non-reinforced EPDM has great flexibility properties, while underlying insulating substrates, such as ISO-Board, have low impact ratings. This combination can result in damages to the underlying substrate without actually damaging the EPDM membrane.

If hailstones larger than 1.5" in diameter are recorded or suspected, probing of larger splash marks would be recommended to feel for underlying insulation damages.











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- damages even to HD type cover boards with higher impact rating.





very vulnerable to impact damages.

Thermo-Plastic single-ply membranes, especially aged and brittle PVC systems, can be



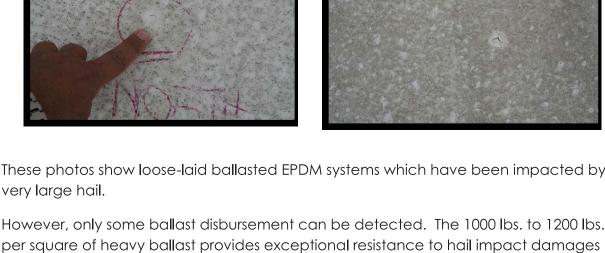


However, mere "splash-marks", in-and-of-themselves, on a roof system's surface does not necessarily indicate surface or membrane damages.

However, if large and dense hailstones of at least 1.5" or larger in diameter have been

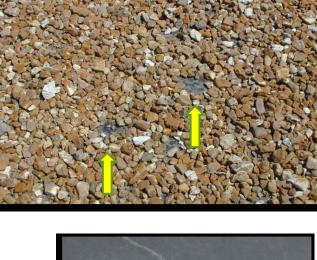
recorded, closer attention should be paid to the larger splash marks.





and lessens the direct impact force of ice projectiles.

However, if large and dense hailstones of at least 1.5" or larger in diameter have been recorded, closer attention should be paid to exposed areas and membrane flashings.







splash marks would be recommended to feel and inspect for membrane fractures

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