

## Hail Damage Cheat Sheet

НАА	6 Engineering	Definition	of Hail	Damage <sup>.</sup>
117 0 13	2 Engineooning	Dominition	orinan	Durnago.

Functional Damage For All Roofs is:

Reduction of water shedding capability

Reduction of expected long term life cycle of the roofing product.

Additionally, for Foam:

Fractures in coating

Fractures in coating accompanied by dents and/or fractures in SPF

National Weather Services' rating for hail size.					
Hail Size	NWS Classification	Other Notes:			
<1/4	Pea	"Severe" Hail is classifed as 1" or larger.			
1/2	Marble				
3/4	Dime	The most common size of hail is "Pea" size.			
1	Quarter				
1-3/4	Golf Ball	As hail increases in size, the severity of the impact increases exponentially.			
2-3/4	Baseball	For instance, a 1" hai stone has approximately 14 times the energy that 1/2"			
4-1/2	Softball	hail has.			

HAAG Entineering Threshold For Damage To Roofing Materials:					
Hail Size	Pitched Roof Material		Hail Size	Flat Roof Material	
1	Lightweight Shingles		1/2	Foam	
1-1/4	Heavy Weight Shingles		1	Single-Ply	
1-1/4	Wood Shakes		1-1/2	Modified	
1-1/2	Medium Shakes		2	EPDM Single-Ply	
1-1/2	Clay Tiles		2	Smooth Built-Up	
1-3/4	Concrete Tiles		2-1/2	Ballasted Roofs	
2-1/2	Metal Panels				

Collateral Inspections and Hail Size Correlation: The Best is an A/C Coil Impact - Impact/.8 = Size 2nd is Aluminum Flashings - Impact/.5 = Size Nothing Else Really Correlates.

Various sources, reports are used in these notes. This sheet is to be used as a cheat sheet only and information may have been changed since this sheet was drafted. Please verify all information as Max Consulting Services, LLC is not liable for the information contained herin.

## Additional Notes: