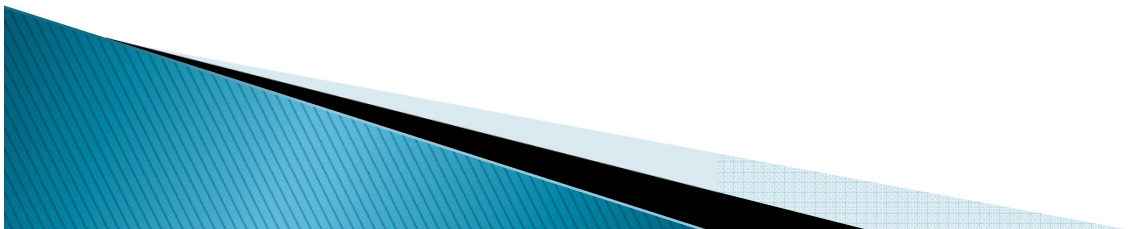


Wind/Hail Damage Losses

▶ What Documentation to expect:

- Weather Report – <http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwEvent~Storms>
- Collateral Damage – vent caps, siding, gutters, screens, A/C, awnings, etc.
- Roof – Material, Pitch, Layers, Height, Age, Condition
- Diagram – measurements, direction, calculations, test squares.
- Photographs – ridge view, each slope, collateral damage, pitch gauge, shingle thickness, test square close-up, hail damage close-up.



Weather Report

NCDC: Event Details

Page 1 of 1



NOAA Satellite and Information Service
National Environmental Satellite, Data, and Information Service (NESDIS)



National Climatic
Data Center
U.S. Department of Commerce



[DOC](#) > [NOAA](#) > [NESDIS](#) > [NCDC](#)

Search Field:

Event Record Details

Event: **Hail**
Begin Date: **27 Feb 2011, 20:56:00 PM CST**
Begin Location: **1 Mile North of Normal**
Begin **40°31'N / 89°00'W**
LAT/LON:
End Date: **27 Feb 2011, 20:57:00 PM CST**
End Location: **Not Known**
Magnitude: **1.00 inches**
Fatalities: **0**
Injuries: **0**
Property **\$ 0.0K**
Damage:
Crop Damage: **\$ 0.0K**

State: **Illinois**
[Map of Counties](#)
County: **McLean**

Description:

EPISODE NARRATIVE: An area of low pressure lifted from the Plains northeastward into central Illinois during the evening of February 27th. The airmass in the vicinity of the low was only weakly unstable, but it was highly sheared. The resulting thunderstorms produced large hail and gusty winds along and north of a Bearstown...to Bloomington-Normal line. Further south, additional thunderstorms developed along an advancing cold front during the pre-dawn hours of February 28th, producing damaging wind gusts along and south of I-70.

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HOW ARE WE DOING?
A LIGHT SURVEY

FIRST GOV
FIRST & FOREMOST GOVERNMENT SERVICE

[Disclaimer](#)

This page dynamically generated 07 Oct 2011 from:

<http://www4.ncdc.noaa.gov/cgi-win/wwwcgi.dll?wwEvent-storms>

Please send questions or comments about this system to Stuart.Hinson@noaa.gov

Please see the [NCDC Contact Page](#) if you have questions or comments.

Collateral Hail Damage



Vent
Cap



Wall
Cap



Vinyl Siding

Roof Documentation

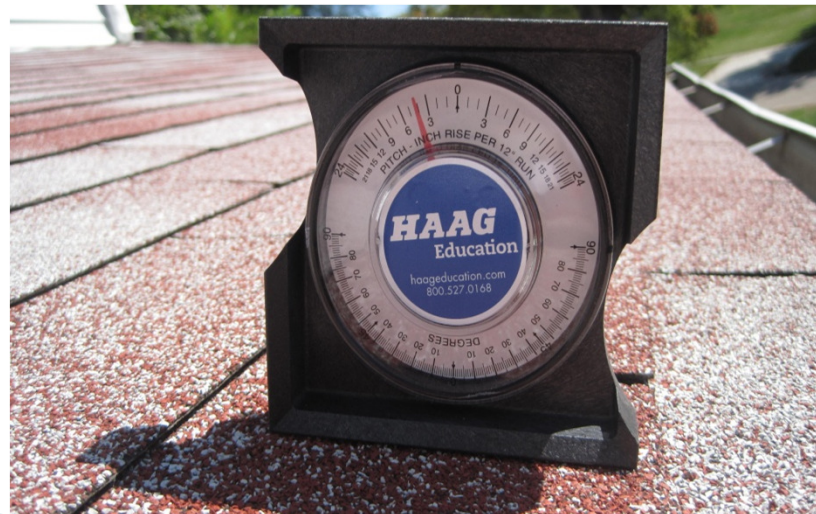


Roof Layers



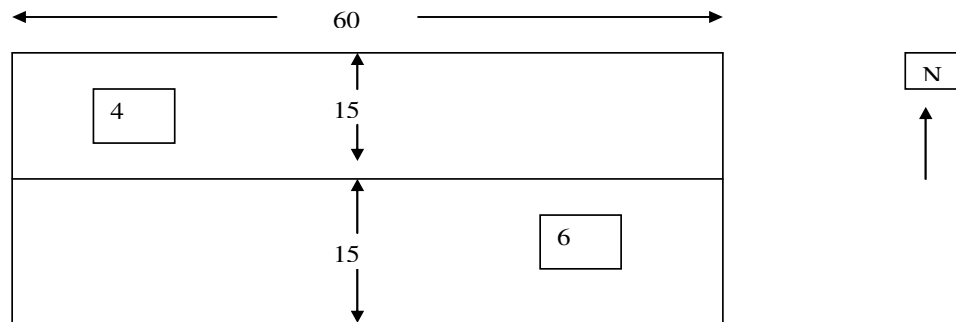
Shingle Thickness

Roof Pitch



Diagram

EXAMPLE



Roof – 1 layer 3tab shingles – 5-10 years old – Reparability Factors

- 0 to 5 years ---- reparability factor of .5
- 5 to 10 years --- reparability factor of 1.0
- 10 to 15 years --- reparability factor of 1.5
- 15 + years --- reparability factor of 2.0

Test Squares

= Average of 5 hits per square x RF of .5

$$5 \times .5 = 2.5$$

therefore to repair each square

$$5 \text{ (average hits per square)} + 2.5 = \underline{\underline{7.5 \text{ shingles per square}}}$$

Roof Calculations: Total

$$30 \times 60 =$$

1800 square feet

$$10\% \text{ waste} =$$

180 square feet

Total # squares

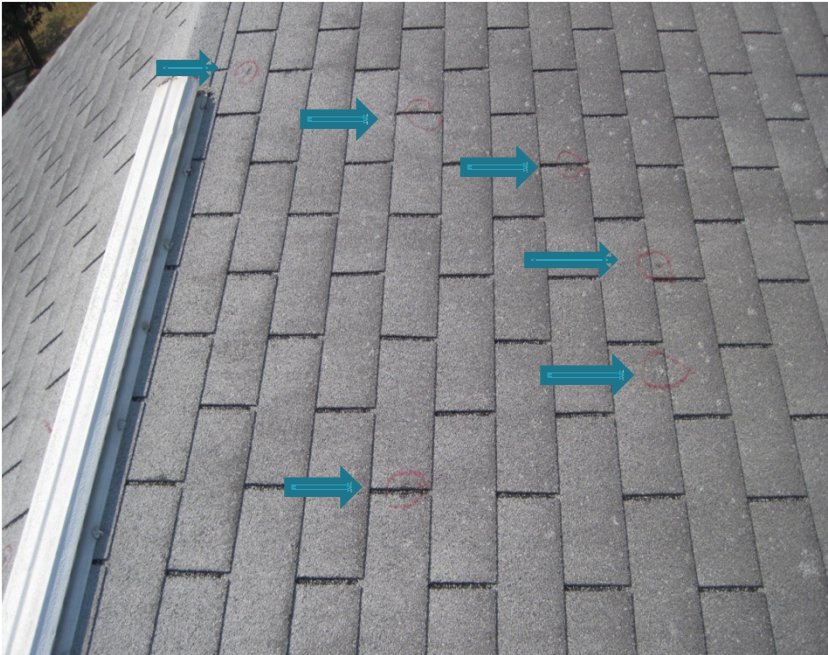
1980 which rounds to 19 squares as 3 tab is sold in bundles of 3 per square.

Roof Repair: Repair

18 squares x 7.5 shingles per square = 135 shingles to repair this roof.

135 x \$11.71 per shingle = \$1,580.85 cost to repair roof.

Test Squares



Overview of Test Square



Close up of hail damage in test square