

WARRANTY INSPECTION PROCEDURES

FINAL INSPECTIONS

1. Call Contractor ahead of inspection for him to have copies or originals of **all** the NCFI Daily Spray Foam Checklists for ENDURATECH Premier Roofing Systems. Bring these back with you.
2. Note in your notebook the following items:
 - a. Date
 - b. Contractor's company name
 - c. Project name
 - d. Roof section name (if different from Project Name)
 - e. Weather conditions and if it has rained recently, when
3. Draw a sketch of the roof. As you observe various items on the roof, note the location on this sketch.
4. Do a walk-around. As you do this, jot notes on the sketch and TAKE PICTURES. Look for the following items:
 - a. Foam Covering: Is the foam completely covered with either gravel or coating?
 - b. Ponding: Is there any standing water? If so:
 - i. How deep is it?
 - ii. How large an area is it?
 - iii. How recently did it rain?
 - iv. Is the pond currently draining?
 - c. Drains: Are the drains open and operating properly?
 - d. Flashings: Are flashings foamed up high enough onto the vertical penetrations? (Should be about six inches.) Are transitions from vertical to horizontal smooth and do they allow drainage away from the penetration?
 - e. Edges and Parapets: Are foam terminations at metal edges and parapets solid and free of gaps, splits, and seams?
 - f. Blisters/Looseness: (Inspect with your feet as well as your eyes) Are there any signs of foam blisters or looseness in the substrate?
5. Pictures:
 - a. Overall shots: Take several showing the general appearance and condition of the roof.
 - b. Flashing details: Take a picture of every type of detail the contractor has sprayed.
 - c. Edge details: Take picture of roof edges, parapets, high walls, expansion joints, etc. where contractor has terminated his foam.

- d. Any thing else: Any items or areas that you think might be good or questionable workmanship.

6. Slit Samples

- a. Foam Slit Samples: Using a knife with a blade at least 2 inches long, cut down to the substrate to which foam has been applied. Samples must meet NCFI specifications for thickness.

Measure foam thickness.

Remove slit sample and visually examine it for cell structure, secure knit lines, sun burnt layers, and ½-inch minimum pass thickness. Caulk the resulting hole in the foam.

- i. Take two (2) foam slit samples for the first 10,000 sq. ft. of roof area and one (1) additional foam slit sample for every additional 10,000 sq. ft.
 - ii. Place the slit samples in a plastic bag labeled with date, contractor company name, and job/roof section name.
- b. Coating Slit Samples: Using a sharp utility knife, make a cut into the coated foam perpendicular to the coated foam surface; this cut should be about ½- to ¾-inch deep and about 1 ½ inches long. Cut two end cuts perpendicular to the first cut, and an angled cut parallel with the first cut to free the slit sample. Take 4 slit samples for the first 10,000 sq ft of roof area and 2 additional slit samples for every additional 10,000 sq ft.

Measure the coating thickness using an optical comparator. Note the average thickness and the minimum thickness.

The required average thickness and minimum thickness varies with the ENDURATECH specification used and the Warranty Type. Coating thickness must meet the minimum dry film thickness for desired specification and warranty.

- i. Take a minimum of four (4) coating slit samples per roof
- ii. Place the coating slit samples in a plastic bag and label with date, contractor name, and job/roof section name.

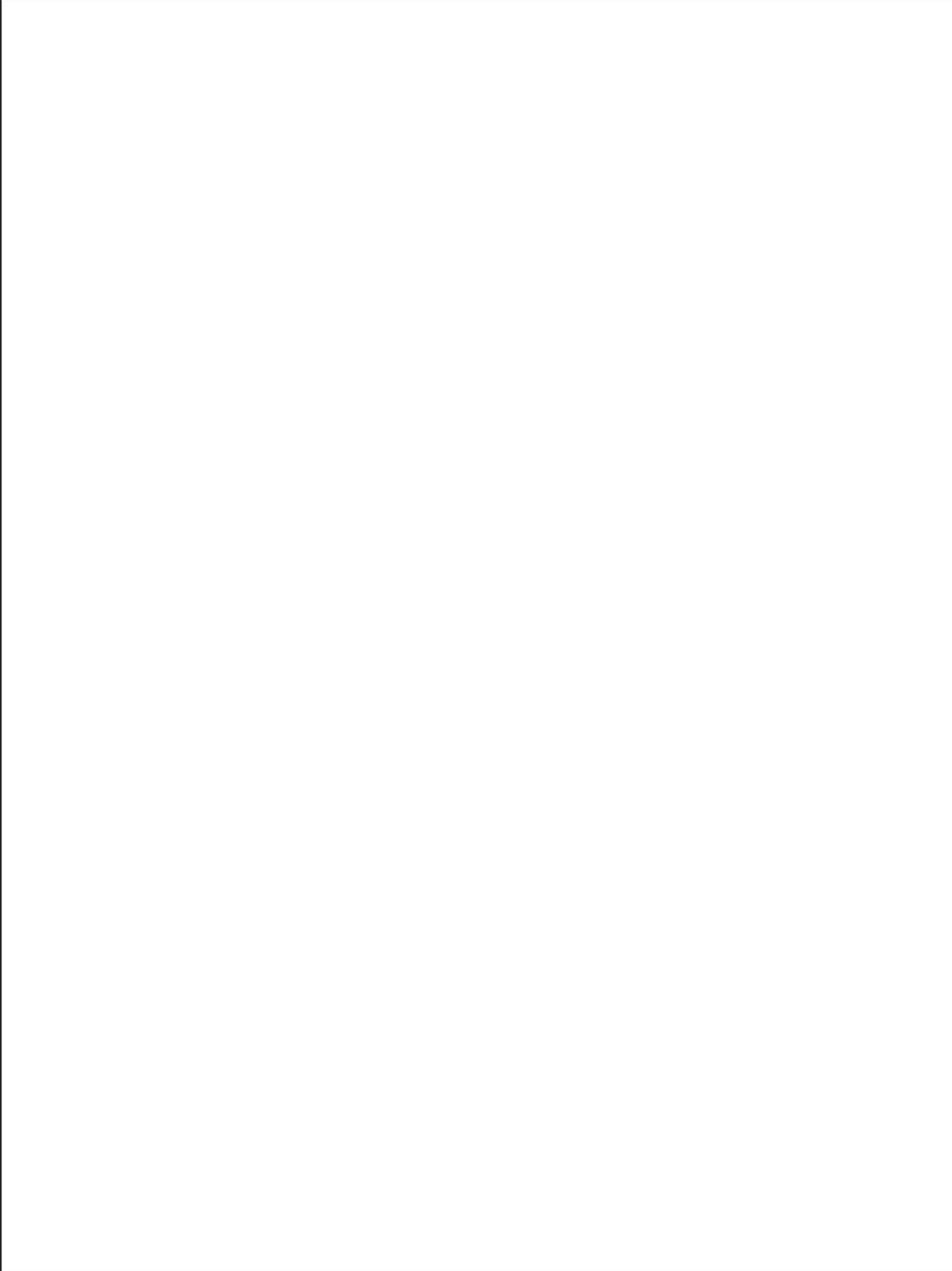
When you get back to the office, do the following:

7. Report: Fill out an inspection report form.
8. Label your photos:
 - a. Contractor's company name
 - b. Job/roof section name
 - c. Job city, state
 - d. Date photo was taken
 - e. Your name or initials
9. Turn into Mitch Clifton:
 - a. Inspection report
 - b. Daily Checksheets
 - c. Photos
 - d. Slit samples
 - e. Gravel sample

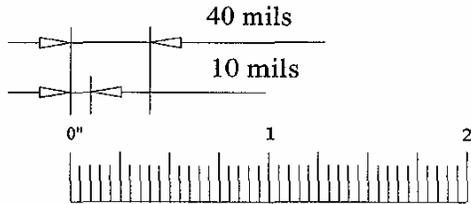
TOOL CHECKLIST

- Camera
- Notebook
- Coring tool
- Caulk
- Caulk gun
- Paper towels
- Ziplock bags
- Utility knife
- Jack knife
- Optical comparator
- Whisk broom
- Tape measure
- Putty knife
- Screwdriver

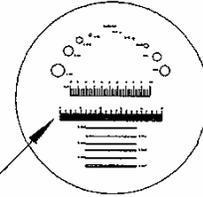
Sketch Area for Roof Diagram:



MEASURING COATING THICKNESS WITH THE OPTICAL COMPARATOR

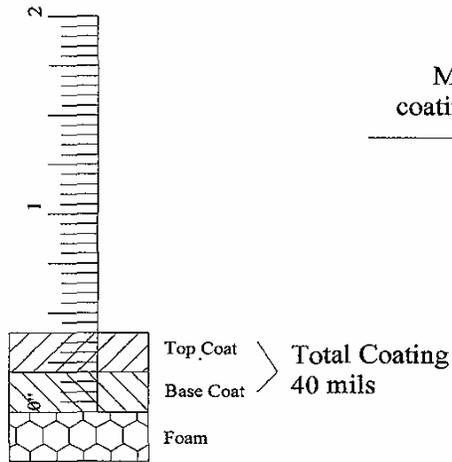
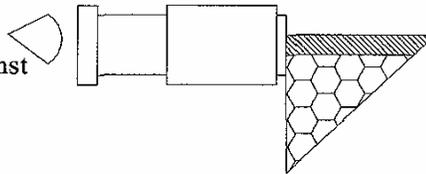


Use this scale



Each fine division on the scale equals 5 mils.

Focus the eyepiece and hold scale against sample.



Measure minimum coating thickness here

