



1

---

---

---

---

---

---

---

---



2

---

---

---

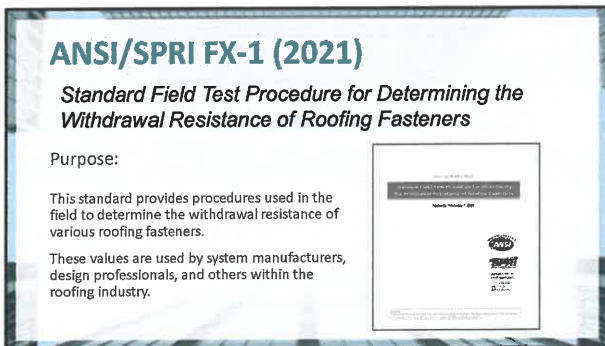
---

---

---

---

---



3

---

---

---

---

---

---

---

---

## Number of Tests

- Perform a minimum of 10 pull tests for up to 50,000 ft<sup>2</sup> of roof area.
  - Perform an additional five pull tests for each additional 50,000 ft<sup>2</sup> or portion thereof.
- For a single building, each roof section with a different height or deck type shall be considered a separate test area.
- Tests shall be conducted in the corners, perimeter, and field of the roof.

Fastener Tests	
Square Footage	Pull Tests
< 50,000	10
50,000 - 100,000	15
100,000 - 150,000	20
150,000 - 200,000	25
200,000 - 250,000	30
250,000 - 300,000	35
300,000 - 350,000	40
350,000 - 400,000	45
400,000 - 450,000	50
450,000 - 500,000	55
500,000 - 550,000	60
550,000 - 600,000	65
600,000 - 650,000	70
650,000 - 700,000	75
700,000 - 750,000	80

7

---

---

---

---

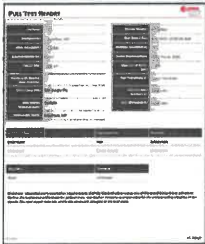
---

---

---

---

## Pull Test Report – Cover Page



- Job name and basic details
- Existing and proposed assembly details
- Personnel present for test
- System manufacturer
- Fasteners tested
- Deck Type

8

---

---

---

---

---

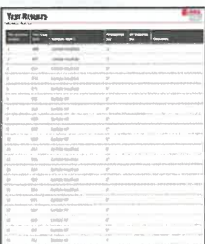
---

---

---

## Pull Test Report – Results Table

- Test location numbers corresponding with roof map
- Pull values in lbf
- Fasteners tested
- Depth of penetration
- Pre-drill diameter (if applicable)
- Comments
  - Joists
  - Laps in steel decking
  - Other unusual conditions



9

---

---

---

---

---


---

---

---

### Equipment and Personnel

- A pullout tester with an electric or hydraulic load cell.
  - The pull tester and gauge used for FX-1 can also be used for IA-1.
- An attachment plate to connect the test sample to the pullout tester
- A "quadpod" or similar stand to provide clearance
- The individual performing the test shall be trained in the proper use of the equipment.



13

---

---

---

---

---

---

---

---

### Procedure

- 1) The test sample shall include the following components of the proposed new roof assembly:
  - Substrate (bare deck or existing roof system)
  - Vapor barrier
  - First layer of insulation or coverboard
  - Attachment plate
- 2) Sample size shall be either 24in x 24 in OR 12in x 12in.
  - The insulation adhesive shall be applied according to the manufacturer's specifications
  - Application of ribbon applied adhesive shall be applied symmetrical to the centerline.

14

---

---

---

---

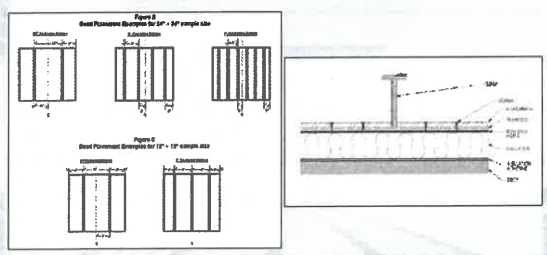
---

---

---

---

### Procedure



15

---

---

---

---

---

---

---

---

## Number of Tests

- Perform a minimum of four pull tests for up to 50,000 ft<sup>2</sup> of roof area.
- Perform an additional two pull tests for each additional 50,000 ft<sup>2</sup> or portion thereof.
- For a single building, each roof section with a different height or deck type shall be considered a separate test area.
- Tests shall be conducted in the corners, perimeter, and field of the roof.

Adhesive Tests	
Square Footage	Pull Tests
< 50,000	4
50,000 - 100,000	6
100,000 - 150,000	8
150,000 - 200,000	10
200,000 - 250,000	12
250,000 - 300,000	14
300,000 - 350,000	16
350,000 - 400,000	18
400,000 - 450,000	20
450,000 - 500,000	22
500,000 - 550,000	24
550,000 - 600,000	26
600,000 - 650,000	28
650,000 - 700,000	30
700,000 - 750,000	32

19

---

---

---

---

---

---

---

---

## Pull Test Report - Results

### Test Results

Test No.	Test Location	Adhesive	Result
1	Field	Adhesive	Pass
2	Field	Adhesive	Pass
3	Field	Adhesive	Pass
4	Field	Adhesive	Pass
5	Field	Adhesive	Pass
6	Field	Adhesive	Pass
7	Field	Adhesive	Pass
8	Field	Adhesive	Pass
9	Field	Adhesive	Pass
10	Field	Adhesive	Pass

### Photo of Failed Test

20

---

---

---

---

---

---

---

---