

Roofing & Building Enclosure Council of Sheet Metal, Air, Rail and Transportation

May 16, 2023 Hilton Garden Inn – Memphis, TX

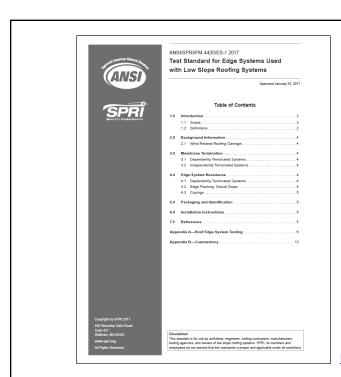
ES-1 (and GT-1) perimeter edge metal certification



Mark S. Graham

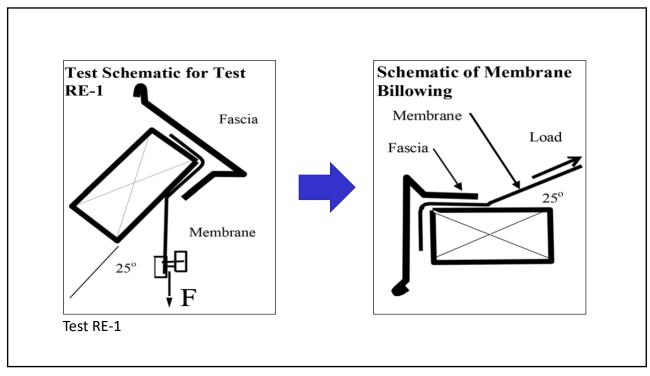
Vice President, Technical Services National Roofing Contractors Association Rosemont, Illinois

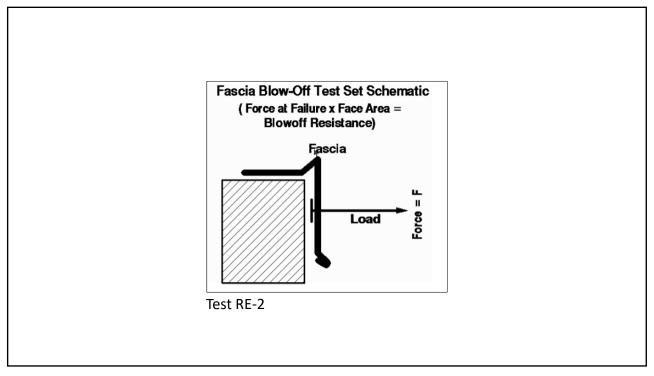
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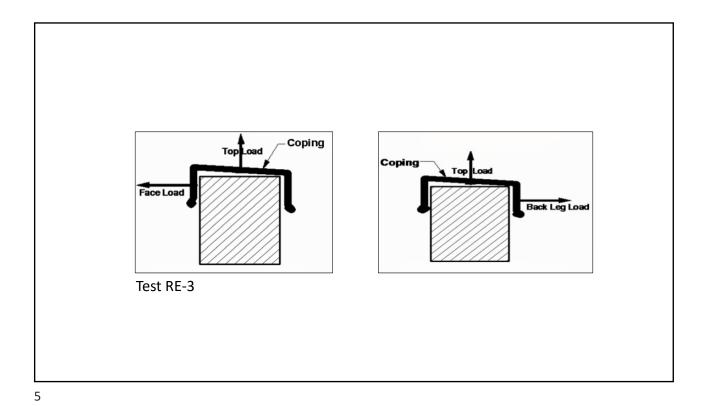


ANSI/SPRI/FM 4435/ES-1, "Test Standard for Edge Systems Used with Low Slope Roofing Systems"

<u>Link</u>



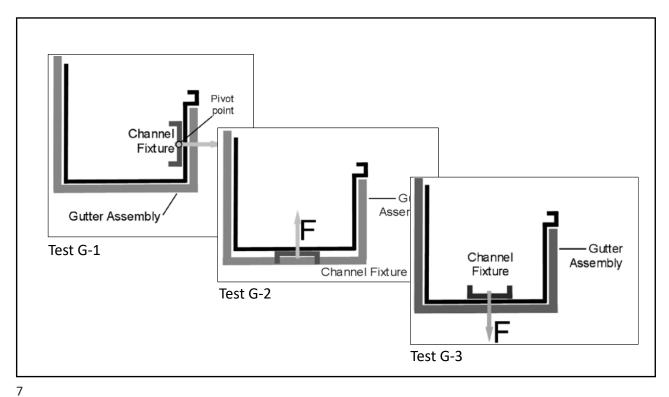


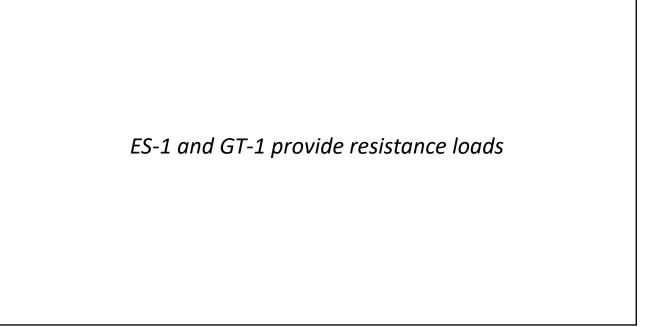


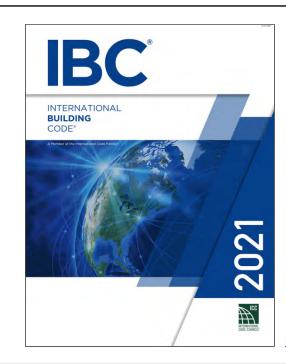
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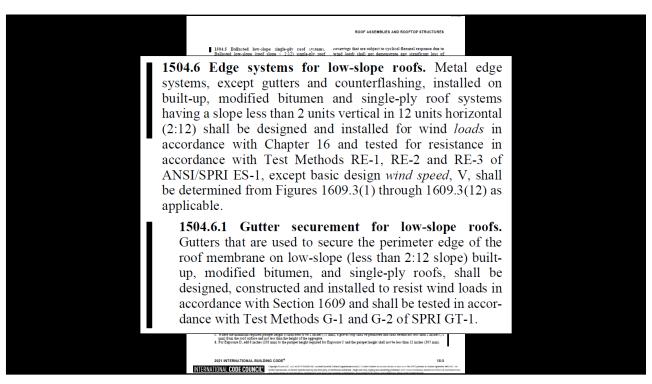


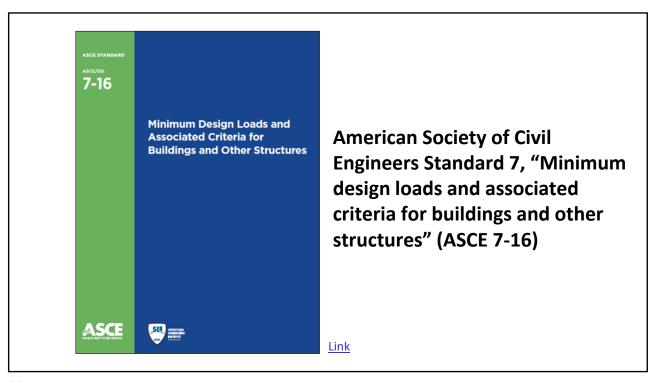


International Building Code, 2021 Edition

Link

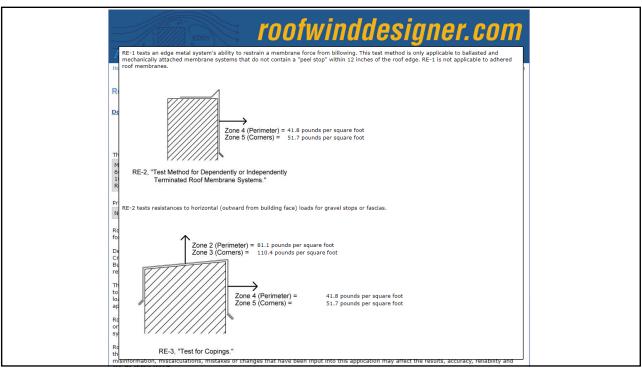
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ASCE 7-16 provides design wind loads





Fundamental concept

Tested resistance ≥ Design loads

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NRCA's ES-1 (and GT-1) testing and certifications

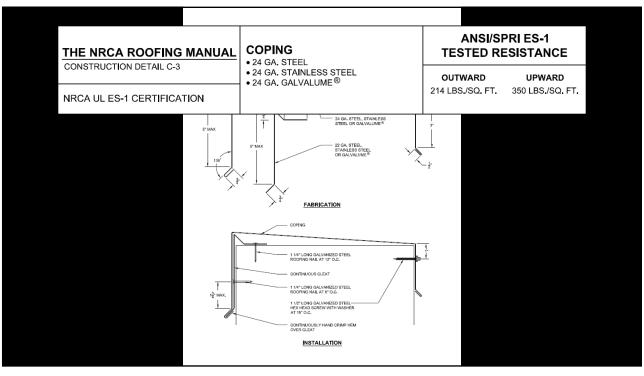
- NRCA has tested various fascia, gravel stop, coping and gutters
 - Accredited testing laboratory
- NRCA has obtained third-party certifications for compliance
 - UL Solutions
 - Intertek Testing Services, N.A.

UL and Intertek are recognized, code-approved testing and certification agencies

Steps to certification

- Execute NRCA's Authorized Fabricator Agreement
- Initial "factory" inspection
 - Orientation process
 - Verify capability
- Fabricate and install as tested

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Steps to certification

- Execute NRCA's Authorized Fabricator Agreement
- Initial "factory" inspection
 - Orientation
 - Verify capability
- Fabricate and install as tested
- Product labeling (NRCA-provided labels)
- Periodic factory "audits"
 - Verify production documentation... document label usage
 - Material verification... verify mill certificates

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What's the cost...

Why use the NRCA program?

- It's already established
- Testing costs spread over multiple users
- Certification costs spread over multiple users
- Use of NRCA brand... and UL or Intertek brand

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