**FM 1-90**

FULLY ADHERED SINGLE PLY MEMBRANE SYSTEMS
BUILT-UP ROOFING MEMBRANE SYSTEMS
MODIFIED BITUMEN MEMBRANE SYSTEMS
MECHANICALLY ATTACHED SINGLE PLY MEMBRANE SYSTEMS

For insulation thicknesses ¼” H-Shield HD only (field attachment only)*

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**Hunter Panels Products**

- H-Shield HD

**Deck Types**

- Steel – 22 Gauge Minimum
- Gypsum
- Structural Concrete
- Cementitous Wood Fiber

<table>
<thead>
<tr>
<th>4’x8’</th>
<th>1 Fastener per 2 sq ft</th>
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<tr>
<td>4’x4’</td>
<td>1 Fastener per 2 sq ft</td>
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*For Factory Mutual insured or FM Compliant projects and perimeter and corner attachments, please refer to FM Global Property Loss Prevention Data Sheets or FM’s RoofNav website at www.RoofNav.com.

When FM 1-90 guidelines are not required, wind uplift calculations should be done to determine whether a more appropriate uplift pressure (1-60 or 1-75) is better suited for that specific building and geographical location per ANCE/SPRI Wind design standard practice for roofing assemblies. See www.Spri.org. This will permit prescriptive enhancements to be allowed in place of installing systems that have been tested to the pressures specified in the FM Global Loss Prevention Data Sheet 1-29.

**Hunter Panels Fastening Guide Requirements**

This applies to any single layer of H-Shield polyiso manufactured by Hunter Panels or a top layer fastened through a second layer of insulation.

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888.746.1114
HunterPanels.com

**ATTACHMENT DETAILS**

**INSULATION/ COVER BOARD**

**FASTENER & PLATE**

**CENTER LINE**

**NOTES:**

1. WHEN ENHANCED INSULATION FASTENING IS REQUIRED AS PRESCRIBED IN FACTORY MUTUAL LOSS PREVENTION DATA SHEET 1-29, ANSI/SPRI WD-1, OR MIAMI-DADE COUNTY, REFER TO CARLISLE’S DESIGN REFERENCE DR-05-11.

2. FOR CRITERIA ON INSULATION FASTENERS AND PLATES, REFER TO CARLISLE SPECIFICATIONS.

3. IF A WIND SPEED WARRANTY GREATER THAN 55 MPH OR A WARRANTY TERM GREATER THAN 20-YEARS IS SPECIFIED, ADDITIONAL FASTENING MAY BE REQUIRED, REFER TO CARLISLE SPECIFICATIONS.