The information contained represents guidelines to address possible requirements as part of the building specification as listed under the Quality Insurance or Performance Article. Carlisle recommends that the building owner retain a design professional to verify that these guidelines are appropriate.

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, the specifier may consider the enclosed insulation pattern securements. **Note:** All insulation and underlayments shown are the minimum thickness required for the established rating.

**Insulation Patterns for boards 4’ x 4’ in size**

**Only FM 1-90 for:**
- 2" Polyiso HP-H/Insulbase or SecurShield
- 1/2" SecurShield HD Plus
- 5/8" Dens Deck Prime or Securock

**Only FM 1-90 for:**
- 1/2" Securock
- 1-1/2” Polyiso HP-H/Insulbase (base layer fastened only)
6 Insulation Fasteners & Plates

**FM 1-90 for:**

1/4” Dens Deck Prime

**FM 1-75 for:**

¼” Securock

8 Insulation Fasteners & Plates

**FM 1-90 for all except:**

1” Polyiso HP-H/Insulbase (recover only)
Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.

FM 1-150 for:
2” Polyiso HP-H/Insulbase (EPDM, TPO and FleeceBACK)

1/2” Securock (EPDM, TPO and FleeceBACK)

FM 1-135 for:
2” Polyiso HP-H/Insulbase (PVC)

FM 1-105 for:
1/2” Dens Deck Prime

FM 1-90 for:
1-1/2” Polyiso HP-H/Insulbase (Recover)
Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.
16 Insulation Fasteners & Plates

**FM I-285 for:**

1/2" Dens Deck Prime (FleeceBACK)

**FM 1-225 for:**

2” SecurShield

2” Polyiso HP-H/Insulbase (FleeceBACK)

1/2" Securock

**FM 1-195 for:**

2” Polyiso HP-H/Insulbase (EPDM and TPO)
Insulation Patterns for boards 4’ x 8’ in size

**FM 1-75 for:**

1/2” Securock (with InsulFAST fasteners and SecurFAST Plates)

**FM 1-90 for:**

5/8” Securock (with InsulFAST fasteners and SecurFAST Plates)

**FM 1-90 for:**

2” Polyiso HP-H/Insulbase or SecurShield
1/2” SecurShield HD Plus
5/8” Dens Deck Prime or Securock
3/8” or 1/2” Securock (with InsulFAST fasteners and SecurFAST Plates)

**FM 1-90 for:**

1/2” Securock
1-1/2” Polyiso HP-H/Insulbase (base layer fastened only)

References DR-05-17
10 Insulation Fasteners & Plates

**FM 1-90 for:**

1/4" Securock (with InsulFAST fasteners and SecurFAST Plates)

11 Insulation Fasteners & Plates

**FM 1-90 for:**

1-1/2" Polyiso HP-H/Insulbase
**References DR-05-17**

**Insulation Fasteners & Plates**

**FM 1-90 for:**

1/4” Dens Deck Prime

**FM 1-75 for:**

1/4” Securock

**FM 1-90 for all except:**

1” Polyiso HP-H/Insulbase (Recover Only)

**FM 1-105 for:**

7/16” OSB (EPDM)

**FM 1-150 for:**

7/16” OSB (TPO and FleeceBACK)

**FM-120 for:**

7/16” OSB (PVC)

Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.
Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.

**18 Insulation Fasteners & Plates**

FM 1-150 for:
- 2” Polyiso HP-H/Insulbase (EPDM, TPO and FleeceBACK)
- 1/2” Securock (EPDM, TPO and FleeceBACK)

FM 1-135 for:
- 2” Polyiso HP-H/Insulbase (PVC)

FM 1-105 for:
- 1/2” Dens Deck Prime

FM 1-90 for:
- 1” Polyiso HP-H/Insulbase (Recover)

21 Insulation Fasteners & Plates

Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.

20 Insulation Fasteners & Plates

Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.

24 Insulation Fasteners & Plates

Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.
Fastening pattern should only be used when required by FM for perimeter or corner enhancement or required by Carlisle for issuance of extended wind speed warranty.

**26 Insulation Fasteners & Plates**

2" SecurShield
1/2" Securock
2" Polyiso HP-H/Insulbase (FleeceBACK)

**28 Insulation Fasteners & Plates**

2" Polyiso HP-H/Insulbase (EPDM and TPO)

**30 Insulation Fasteners & Plates**

FM 1-225 for:
2" Polyiso HP-H/Insulbase (FleeceBACK)

**32 Insulation Fasteners & Plates**

FM 1-285 for:
1/2" Dens Deck Prime (FleeceBACK)