

Insulation Assemblies

#12 assembled to metal & plastic insulation plates
 #14 &15 assembled to plastic insulation plates
 For insulation attachment using pre-assembled #12 & #14 fasteners and plates

- Insulation assemblies, when installed with Stealth tools, increase productivity up to 30% and allow the contractor to install the roof assembly in a more ergonomically correct position versus standard installation methods.

- Screw and plate relationship is perpendicular every time, allowing for proper and quicker installations.
- Preassembled fasteners can be placed on the deck or loaded into the Stealth installation tools, giving the contractor the ability to use crew members in other areas of the roof project.

Application

#12 Phillips w/ Dekflat™ Plate

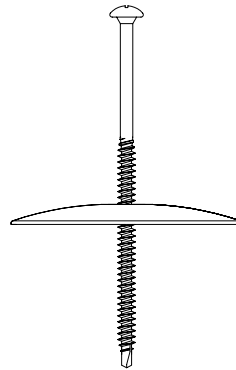
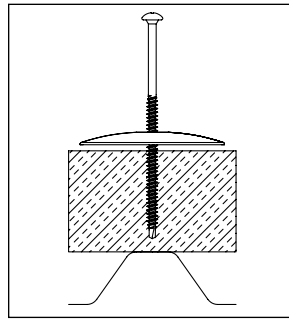
Mechanical attachment of insulation per manufacturers' requirements

Materials:

- Steel thickness from 22 ga (.028 in.) through 18 ga (.045 in.):
Min penetration: 3/4"
- Wood 2x (1-1/2" thick):
Min penetration: 1"

Use with:

- Stealth Shorty, Stealth 10, or Stealth 20 plastic installation tools
- Steel roof decks include all FM approved 18-20-22 ga



Head Drive: #3 Phillips
 Head Height: Max .118"
 Head Dia: Max .448"
 Thread Major Dia: .222"
 Shank Dia: .167"

Plate: 3" round Dekflat
 Material: Polypropylene

Strength (lbs ult.):

Tensile: 2410
 Torsional: 76 in-lbs min
 Shear: 1815

Pull-out (lbs avg.):

Steel 22 ga: 513
 Steel 20 ga: 695
 Steel 18 ga: 787
 2x dimensional lumber (1" penetration): 462
 3/4" FR Plywood: 575

#12 Phillips w/ Round Galvalume Plate

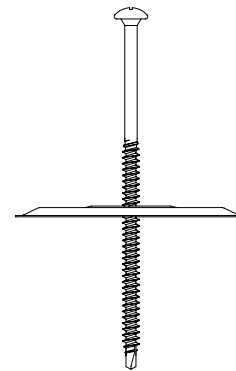
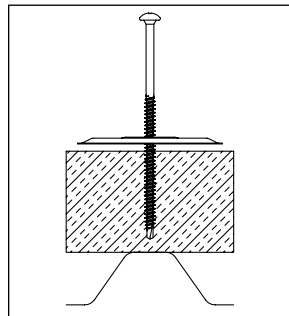
Mechanical attachment of insulation per manufacturers' requirements

Materials:

- Steel thickness from 22 ga (.028 in.) through 18 ga (.045 in.):
Min penetration: 3/4"
- Wood 2x (1-1/2" thick):
Min penetration: 1"

Use with:

- Stealth Shorty, Stealth 10, or Stealth 20 ELF installation tools
- Steel roof decks include all FM approved 18-20-22 ga



Head Drive: #3 Phillips
 Head Height: Max .118"
 Head Dia: Max .448"
 Thread Major Dia: .222"
 Shank Dia: .167"

Plate: 3" round Galvalume
 Material: AZ50 Galvalume

Strength (lbs ult.):

Tensile: 2410
 Torsional: 76 in-lbs min
 Shear: 1815

Pull-out (lbs avg.):

Steel 22 ga: 513
 Steel 20 ga: 695
 Steel 18 ga: 787
 2x dimensional lumber (1" penetration): 462
 3/4" FR Plywood: 575

#12 Hex w/ Round Galvalume Plate

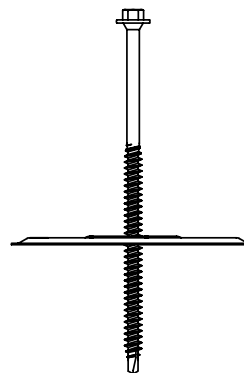
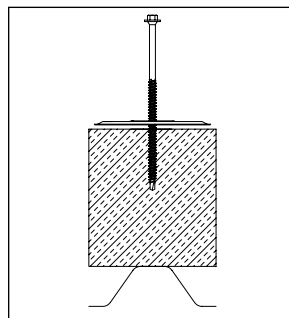
Mechanical attachment of insulation per manufacturers' requirements

Materials:

- Steel thickness from 22 ga (.028 in.) through 18 ga (.045 in.):
Min penetration: 3/4"
- Wood 2x (1-1/2" thick):
Min penetration: 1"

Use with:

- Stealth Shorty, Stealth 10, or Stealth 20 metal installation tools
- Steel roof decks include all FM approved 18-20-22 ga



Head Drive: 1/4" hex
 Head Height: Max .140"
 Head Major Dia.: Max .448"
 Thread Major Dia: .226"
 Shank Major Dia: .167"

Plate: 3" Round Galvalume
 Material: AZ50 Galvalume

Strength (lbs ult.):

Tensile: 2410
 Torsional: 76 in-lbs min
 Shear: 1815

Pull-out (lbs avg.):

Steel 22 ga: 513
 Steel 20 ga: 695
 Steel 18 ga: 787
 2x dimensional lumber (1" penetration): 462
 3/4" FR Plywood: 575

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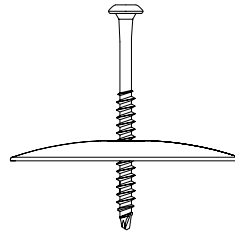
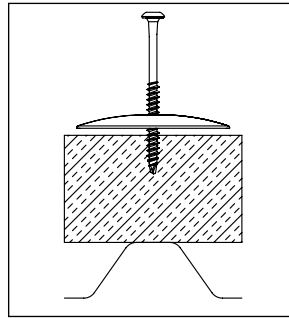
#12 assembled to metal & plastic insulation plates
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Insulation Assemblies

Application (continued)

#14 Phillips w/ Dekflat Plate
Mechanical attachment of insulation per manufacturers' requirements

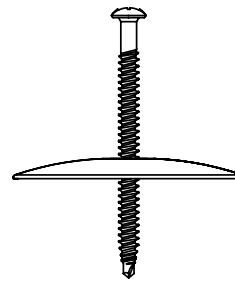
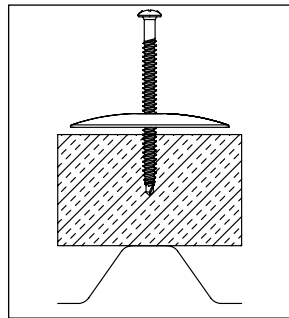
- Materials:
- Steel thickness from 22 ga (.028 in.) through 18 ga (.045 in.):
 Min penetration: 3/4"
 - Wood 2x (1-1/2" thick):
 Min penetration: 1"
 - Structural Concrete:
 Min penetration: 1"
- Use with:
- Stealth Shorty, Stealth 10, or Stealth 20 plastic installation tools



Head Drive: #3 Phillips
 Head Height: Max .118"
 Head Dia: Max .448"
 Thread Major Dia: .238"
 Shank Dia: .180"
 Plate: 3" round Dekflat
 Material: Polypropylene
Strength (lbs ult.):
 Tensile: 3600
 Min Torsional: 110 in-lbs min
 Shear: 2630
Pull-out (lbs avg.):
 Steel 22 ga: 540
 Steel 20 ga: 630
 Steel 18 ga: 900
 Concrete (4000 psi): 850
 Plywood (3/4" thick): 590
 Wood 2x (1" penetration): 605

#15 Phillips w/ Dekflat Plate
Mechanical attachment of insulation per manufacturers' requirements

- Materials:
- Steel thickness from 22 ga (.028 in.) through 18 ga (.045 in.):
 Min penetration: 3/4"
 - Wood 2x (1-1/2" thick):
 Min penetration: 1"
- Use with:
- Stealth Shorty, Stealth 10, or Stealth 20 plastic installation tools



Head Drive: Nom #3 Phillips
 Head Height: .130" max
 Head Dia.: .448" max
 Thread Major Dia: .263"
 Shank Dia: .204"
 Plate: 3" round Dekflat
 Material: Polypropylene
Strength (lbs ult.):
 Tensile: 4350
 Torsional: 130 in-lbs min
 Shear: 3700
Pull-out (lbs avg.):
 Steel 26 ga: 301
 Steel 24 ga: 453
 Steel 22 ga: 706
 Steel 20 ga: 898
 Steel 18 ga: 1140
 Plywood (3/4" thick): 703
 Wood 2x (1-1/2" penetration): 692

Notes

Dimensions are nominal inches unless noted. Steel roof decks include all FM-approved 18-20-22 ga. FM-approved wood decks include 3/4" F.R. plywood and 2x dimensional lumber. Structural concrete to be predrilled with standard 3/16" carbide drill bit to minimum 1/2" deeper than fastener penetration.

Selection

Length	Part No.	Steel	Wood	Concrete	Carton Wt. (lbs)	Carton Qty.	Skid Qty.
#12 Phillips Plastic							
1-5/8"	A8513-995U	Up to 7/8"	Up to 5/8"	N/A	20	500	13,500
2-1/4"	A8518-995U	Up to 1-1/2"	Up to 1-1/4"	N/A	22	500	13,500
2-7/8"	A8523-995U	Up to 2-1/8"	Up to 1-7/8"	N/A	12	250	9,000
3-1/4"	A8526-995U	1/2" to 2-1/2"	1/4" to 2-1/4"	N/A	13	250	9,000
3-3/4"	A8530-995U	1" to 3"	3/4" to 2-3/4"	N/A	14	250	9,000
4-1/2"	A8536-995U	1-3/4" to 3-3/4"	1-1/2" to 3-1/2"	N/A	15	250	6,750
5"	A8540-995U	2-1/4" to 4-1/4"	2" to 4"	N/A	16	250	6,750
6"	A8548-995U	3-1/4" to 5-1/4"	3" to 5"	N/A	17	250	6,750
7"	A8556-995U	4-1/4" to 6-1/4"	4" to 6"	N/A	15	200	5,400
8"	A8564-995U	5-1/4" to 7-1/4"	5" to 7"	N/A	17	200	5,400

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Length	Part No.	Steel	Wood	Concrete	Carton Wt. (lbs)	Carton Qty.	Skid Qty.
#12 Phillips Metal							
1-5/8"	A8513-995V	Up to 7/8"	Up to 5/8"	N/A	37	500	13,500
2-1/4"	A8518-995V	Up to 1-1/2"	Up to 1-1/4"	N/A	19	250	9,000
2-7/8"	A8523-995V	Up to 2-1/8"	Up to 1-7/8"	N/A	20	250	9,000
3-1/4"	A8526-995V	1/2" to 2-1/2"	1/4" to 2-1/4"	N/A	21	250	9,000
3-3/4"	A8530-995V	1" to 3"	3/4" to 2-3/4"	N/A	22	250	6,750
4-1/2"	A8536-995V	1-3/4" to 3-3/4"	1-1/2" to 3-1/2"	N/A	23	250	6,750
5"	A8540-995V	2-1/4" to 4-1/4"	2" to 4"	N/A	24	250	6,750
6"	A8548-995V	3-1/4" to 5-1/4"	3" to 5"	N/A	25	250	6,750
7"	A8556-995V	4-1/4" to 6-1/4"	4" to 6"	N/A	17	200	5,400
8"	A8564-995V	5-1/4" to 7-1/4"	5" to 7"	N/A	18	200	5,400
#12 Hex Metal							
1-5/8"	C7400-995V	Up to 7/8"	Up to 5/8"	N/A	37	500	13,500
2-1/4"	C7410-995V	Up to 1-1/2"	Up to 1-1/4"	N/A	19	250	9,000
2-7/8"	C7420-995V	Up to 2-1/8"	Up to 1-7/8"	N/A	20	250	9,000
3-1/4"	C7430-995V	1/2" to 2-1/2"	1/4" to 2-1/4"	N/A	21	250	9,000
3-3/4"	C7440-995V	1" to 3"	3/4" to 2-3/4"	N/A	22	250	6,750
4-1/2"	C7450-995V	1-3/4" to 3-3/4"	1-1/2" to 3-1/2"	N/A	23	250	6,750
5"	C7460-995V	2-1/4" to 4-1/4"	2" to 4"	N/A	24	250	6,750
6"	C7470-995V	3-1/4" to 5-1/4"	3" to 5"	N/A	25	250	6,750
7"	C7480-995V	4-1/4" to 6-1/4"	4" to 6"	N/A	17	200	5,400
8"	C7490-995V	5-1/4" to 7-1/4"	5" to 7"	N/A	18	200	5,400
#14 Phillips Plastic							
2"	A7216-999U	Up to 1-1/4"	Up to 1"	Up to 1"	23	500	13,500
3"	A7224-999U	Up to 2-1/4"	Up to 2"	1" to 2"	13	250	6,750
4"	A7232-999U	1-1/4" to 3-1/4"	1-1/4" to 3"	2" to 3"	15	250	6,750
5"	A7240-999U	1-1/4" to 4-1/4"	1-1/4" to 4"	3" to 4"	18	250	6,750
6"	A7248-999U	1-1/4" to 5-1/4"	1-1/4" to 5"	4" to 5"	21	250	6,750
7"	A7256-999U	3-1/4" to 6-1/4"	3-1/4" to 6"	5" to 6"	18	200	5,400
8"	A7264-999U	4-1/4" to 7-1/4"	4-1/4" to 7"	6" to 7"	20	200	5,400
9"	A7272-999U	5-1/4" to 8-1/4"	5-1/4" to 8"	7" to 8"	22	100	3,600
10"	A7280-999U	6-1/4" to 9-1/4"	6-1/4" to 9"	8" to 9"	24	100	3,600
11"	A7288-999U	7-1/4" to 10-1/4"	7-1/4" to 10"	9" to 10"	26	100	3,600
12"	A7296-999U	8-1/4" to 11-1/4"	8-1/4" to 11"	10" to 11"	28	100	3,600
#15 Phillips Plastic							
2"	C2010-932U	Up to 1-1/4"	Up to 1"	Up to 1"	24	500	13,500
3"	C2020-932U	Up to 2-1/4"	Up to 2"	1" to 2"	14	250	6,750
4"	C2030-932U	1-1/4" to 3-1/4"	1-1/4" to 3"	2" to 3"	16	250	6,750
5"	C2040-932U	1-1/4" to 4-1/4"	1-1/4" to 4"	3" to 4"	19	250	6,750
6"	C2050-932U	1-1/4" to 5-1/4"	1-1/4" to 5"	4" to 5"	22	250	6,750
7"	C2060-932U	3-1/4" to 6-1/4"	3-1/4" to 6"	5" to 6"	19	200	5,400
8"	C2070-932U	4-1/4" to 7-1/4"	4-1/4" to 7"	6" to 7"	21	200	5,400

Approvals

Dekfast fasteners and plates are Factory Mutual approved for attachment of insulation board to roof deck. Refer to FM Approval Guide and Supplements for current FM approved insulation fastening patterns. Dekfast fasteners exceed Factory Mutual corrosion-resistance Standard 4470.

Installation

For optimum results, all Dekfast preassembled fasteners must be installed with Stealth installation tools.

Options

