

CABLE SUSPENSION INSULATION SYSTEM GUIDE SPECIFICATIONS

Manufactured by:

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Section 07200 – Building Insulation

Part 1.00 – General

1.01 Description

A. Work included:

Building insulation required includes, but is not necessarily limited to:

1. Faced insulation plus back-fill insulation below the building roof, between and beneath the purlins.

1.02 Product Handling:

A. Protection:

1. Deliver all materials to the job site and store in a safe dry place with all labels intact and legible at time of installation.
2. Use all means necessary to protect building insulation materials before, during, and after installation and to protect the installed work and materials of all other trades.
3. Use all means necessary to protect flooring of building from damage by scaffolding or lifts.

Part 2.00 Products

2.01 Building insulation

A. General:

1. Insulation shall be Cable Suspension roof and wall insulation for metal buildings.
2. All required insulation hardware shall be provided as a part of both roof and wall insulation system.
3. The system shall have an installed R-value 19 at 75 degrees F mean temperature, summer design and a R-value 19 at 45 degrees F mean temperature, winter design. Insulation system shall be certified as tested in accordance with ASTM C236.

B. Roof:

1. Insulation for the roof shall meet the property requirements of Federal Specification HH-I-558B, and shall be in one or two layers:
 - a. The first insulation layer shall be metal building insulation having an R-value of 19 faced with Polypropylene/Nylon Scrim/Metalized Polyester (CBR-1TC). The composite product shall have a 20 flame spread rating and a 50 smoke development rating as tested in accordance with ASTM E96.
2. Attaching hardware for roof insulation shall include:
 - a. 1/4" Galvanized Aircraft Cable attachment to purlins or main frames (coordinated to 2' to 6' wide rolls of faced insulation);

Part 3.00 – Execution

3.01 General:

A. Inspection:

1. Prior to all work of this section, carefully inspect installed work of other trades and verify that such work is complete to the point where installation of Cable Suspension System may properly commence.
2. Verify that the Cable Suspension System may be installed in accordance with project drawings and manufacturer's recommendations.
3. Note number and location of structural elements that may pose special installation problems such as knee braces, cross bracing, ductwork, heater vents, skylights, windows and doors.

3.02 – Roof Insulation:

A. General:

1. Install roof insulation in accordance with Cable Suspension System installation instructions.
2. All facing seams shall be sealed by folding over the facing and stapling every 4" to ensure an integral vapor barrier. Any fabrication cuts in facing shall also be stapled.
3. Pull faced insulation tightly and clamp securely at eaves and floor to prevent wrinkles and allow no more than 4" of sag between rod tubes spaced 10' apart.

3.03 Wall Insulation:

A. General:

1. Install wall insulation in accordance with Cable Suspension and Wall Insulation systems installation instructions.
2. All facing seams shall be sealed by folding over the facing and stapling every 4" to ensure an integral vapor barrier. Any fabrication cuts in facing shall be stapled.
3. Pull faced insulation tightly and clamp securely at eaves and floor.
4. If wall is subject to abuse, install a protective wainscot over, or in place of, insulation boards.
5. Using corner angle, frame in window and door openings. Miter corners of framing.

4.00 Inspection:

- A. Upon completion of the installation, visually inspect the work and verify that it has been correctly installed. If knee braces were removed or loosened to facilitate installation make sure these are properly reinstalled.