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The Committee on Evaluation has reviewed the data submitted for compliance with the *Standard Building Code* and submits to the Building Official or other authority having jurisdiction the following report. The Committee on Evaluation, SBCCI PST & ESI and its staff are not responsible for any errors or omissions to any documents, calculations, drawings, specifications, tests or summaries prepared and submitted by the design professional or preparer of record that are listed in the Substantiating Data Section of this report. Portions of this report were previously included in SBCCI Evaluation Reports #8663, #86210, and #9009, and PST & ESI Evaluation Report #9309.
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REPORT NO.: 9595

EXPIRES: See current EVALUATION REPORT INDEX

CATEGORY: INSULATION

SUBMITTED BY:

FIRESTONE BUILDING PRODUCTS COMPANY
525 CONGRESSIONAL BOULEVARD
CARMEL, INDIANA 46032

1. PRODUCT TRADE NAME

"ISO 95+" Composite, "ISO 95+" Flat or Tapered, Firestone Nailbase, Firestone ISO-R

2. SCOPE OF EVALUATION

Compliance with Section 2603 of the *Standard Building Code*

3. USES

Roof and wall insulation

4. DESCRIPTION

4.1 Insulations

"ISO 95+" Composite is designed for use over steel deck construction. It consists of a foam core integrally bonded to perlite board on one side and foil glass, felt skins or non-asphaltic fiberglass on the other. On other than steel deck construction, composite roof insulation can be installed with the perlite board up to serve as a moderate moisture sink in helping to prevent blistering with B.U.R. systems. Board sizes are 4' x 4' and 4' x 8' with other sizes available upon request.

"ISO 95+" Flat or Tapered is a non-composite designed for use

over steel deck construction. "ISO 95+" consists of a foam core integrally bonded to foil glass and/or non-asphaltic fiberglass for singly-ply membrane applications and asphalt coated glass mat and non-asphaltic fiberglass may be used with B.U.R. applications. Perlite or fiberboard may be used on the top side with the previous facers to serve as a moderate moisture sink in helping to prevent blistering with B.U.R. systems. Board sizes are 4' x 4' and 4' x 8' with other sizes available upon request. Tapered "ISO 95+" is used to create a sloped roof for positive drainage. Board sizes are 4' x 4' with slopes ranging from 1/16" to 3/8" per foot. Other sizes are available for accommodating special requirements.

Firestone Nailbase is a non-structural nail base insulation panel consisting of foam core with facers of glass, foil, non-asphaltic fiberglass or felt on one side and waferboard or plywood on the other, all bonded in the manufacturing process. Board sizes are 4' x 4' and 4' x 8' with other sizes available upon request.

Firestone ISO-R is a non-structural foam sheathing faced with foil or kraft skins. Used primarily in residential construction on roofs and walls. Board sizes are 2' x 8' and 4' x 8'.

4.2 Foam Plastic Core

The foam plastic core material has a nominal density of 2 pound per cubic foot foam in each type of insulation described in this report, and it exhibits the following characteristics when tested in accordance with ASTM E 84 (UL 723) at a thickness of 4 inches:

The core material demonstrated a flamespread of 25 or less and a smoke developed rating of 450 or less.

The foil faced boards demonstrated a flamespread of 35 or less and a smoke developed rating of 450 or less.

5. INSTALLATION

5.1 Rigid Roof Insulation

"ISO 95+" composite, "ISO 95+" Flat or Tapered, Firestone Nailbase, and Firestone ISO-R shall be installed according to manufacturer's instructions, as a portion of an approved roof covering assembly. The foam plastic insulation must be separated from the buildings by an approved thermal barrier, unless it is used in UL Construction Numbers 120 and 123.

5.2 Rigid Wall Insulation

Firestone ISO-R is intended for use on walls and ceilings in residential construction. Foam plastic insulation shall be installed according to the manufacturer's instructions and must be separated from the building's interior by an approved thermal barrier.

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6. SUBSTANTIATING DATA

- 6.1 Manufacturer's descriptive literature and installation instructions.
- 6.2 Underwriters Laboratories Inc. test report, dated May 27, 1993, File R9516, Project 92NK21444, signed by Judith Marzullo and R.K. Laymon.
- 6.3 Room Corner Test Report by United States Testing Company, Inc., #EN85-0098-2, dated May 21, 1986 signed by R. S. Smith, M.S., P.E.

7. CODE REFERENCES

Standard Building Code - 1994 Edition

Section 103.7	Alternate Materials and Methods
Section 803	Restriction on Interior Finishes
Section 2603	Foam Plastics Insulation

8. COMMITTEE FINDINGS

The Committee on Evaluation in review of the data submitted finds that, in their opinion, "ISO 95+" composite, "ISO 95+" Flat or Tapered, Firestone Nailbase, Firestone ISO-R conform with or are suitable alternates to that specified in the *Standard Building Code* or Supplements thereto.

9. LIMITATIONS

- 9.1 This Evaluation Report and the installation instructions, when required by the building official, shall be submitted at the time of permit application.
- 9.2 All Firestone Building Products Co.'s insulations described in this report shall be installed with an approved 15 minute thermal barrier separating the insulation from the building interior.

9.3 When using Firestone Building Products Co.'s Insulations on exterior walls, as an insulating sheathing, adequate bracing must be provided in compliance with Section 2308.2.

9.4 In exterior wall applications, Firestone Building Products Co.'s insulations shall not be used as a nailing base for siding. All nailing should be made through the sheathing into the studs.

9.5 Firestone Building Products Co.'s Foam Plastic Insulations addressed in this report shall not be used where constant temperatures will exceed 170° F.

9.6 Firestone Building Products Co.'s Rigid Roof Insulation Boards shall not be left exposed to the weather.

9.7 Firestone Building Products Co.'s foam plastic insulation boards shall not be used in fire rated assemblies unless its performance has been established by approved tests.

10. IDENTIFICATION

All Firestone Building Products Co.'s Insulations addressed by this report shall be plainly marked with the Firestone Building Products Co. trademark and the type of insulation, together with the SBCCI Public Safety Testing and Evaluation Services Inc. Seal, and the number of this report for field identification.

11. PERIOD OF ISSUANCE

SEE CURRENT EVALUATION REPORT INDEX FOR STATUS OF THIS EVALUATION REPORT.

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