

INSULFOAM UL ROOF LISTING UL 790 [Cont.]

Class A — Fully Adhered

Deck: NC
Incline: 1
Insulation: "Insulfoam EPS" Type "I", "II", "VIII", "IX" or "R-Gard", any thickness
Base Sheet: Soprema "EPS FLAM STICK", self-adhered.
Cap Sheet: Soprema "Sopralene Flam 180 FR+ Granular" or "Sopralene Flam 250 FR+ Granular" heat welded.

Deck: NC
Incline: 2
Insulation: "Insulfoam EPS" Type "I", "II", "VIII", "IX" or "R-Gard", any thickness
Base Sheet: Soprema "EPS FLAM STICK", self-adhered.
Cap Sheet: Soprema "Sopralene Flam 180 FR+ Granular" or "Sopralene Flam 250 FR+ Granular" heat welded.

Deck: C-15/32
Incline: 1
Barrier Board: 1/4 inch (min) GP Gypsum "Dens-Deck" Overlayment Board or 1/2 inch (min) gypsum board with 6 inch offset to plywood joints.
Insulation: "Insulfoam EPS" Type "I", "II", "VIII", "IX" or "R-Gard", any thickness
Base Sheet: Soprema "EPS FLAM STICK", self-adhered, Soprema "Sopralene Flam 180 FR+ Granular" or "Sopralene Flam 250 FR+ Granular" heat welded.

*Class A NON-COMBUSTIBLE.....SINGLE PLY-MODIFIED BITUMEN

Insulation: Insulfoam EPS, Insultaper, Tuffroof, Tuffroof Plus, R-Gard, Insulam, Insulvent, Insulbarrier any thickness any density.
EPS/woodfiber or EPS/perlite factory laminate or field applied.
Membrane: Any UL Classified Modified Bitumen
Surfacing: See membrane listing.

MAINTENANCE AND REPAIR

***CLASS A COMBUSTIBLE**
Existing Roof
System: Class A, B or C built-up smooth surface, Cap sheet or gravel surfaced, gravel may be removed.
Insulation: Insulfoam EPS, R-Gard or R-Gard Fanfold any density any thickness.
Membrane: Any UL Classified EPDM, CPE, CSPE, PVC, CR, NBP, EIP, EP, PIB, TPO or TPA.
Surfacing: River Bottom Stone (3/4" - 1-1/2" dia.) at 900 lbs./square

*CLASS A NON-COMBUSTIBLE

Existing Roof
System: Class A, B or C built-up smooth surface, Cap sheet or gravel surfaced, gravel may be removed.
Insulation: Insulfoam EPS, R-Gard or R-Gard Fanfold any density max. 1" thickness.
Membrane: Mechanically attached one of the following: A. Conklin "Hi-Crown" (CSPE) B. Burke "358" (CSPE) C. Stevens Hypalon D. Seaman Fibertite (EIP) E. Duro-Last (PVC)

*CLASS A, B OR C NON-COMBUSTIBLE

Existing Roof
System: Class A, B or C built-up smooth surface, Cap sheet or gravel surfaced (gravel maintained) to retain existing classification.
Insulation: Insulfoam EPS, R-Gard or R-Gard Fanfold any density max. 1" thickness.
Membrane: Mechanically attached one of the following: Any UL Classified CSPE, EIP, PVC, EPDM, TPO, TPA or CPA

**Contact Insulfoam representative or consult UL Roofing Material Guide for specific listing information.*

UL Roof Constructions:

Insulfoam EPS Roof Insulation's also qualify for the following UL Roof Constructions as specified in the UL Roofing Materials Guide.
 Const. No. 458, Const. No 419, Const. No. 374, Const. No. 237, Const. No. 219

Const. No. 411**Const. No. 412**
 **Insulbarrier Only

HOURLY P DESIGNS:

Insulfoam EPS roof insulation system also qualify for the following roof designs as specified in the UL Fire Resistance directory.

P211 P225 P230 P231 P232 P238 P246 P250 P251 P254 P255 P261
 P262 P410 P411 P508 P509 P510 P511 P513 P514 P515 P701 P710
 P711 P713 P715 P717 P801 P803 P814 P815 P817 P902 P909 P912
 P915 P919 P920 P921 P922 P923



EPS PRODUCT TESTING

Insulfoam Locations





INSULFOAM EPS PRODUCT TESTING

TEST	ASTM E108	ASTM E119	ASTM C518	ASTM C203	ASTM C2550
TEST NAME	SURFACE BURNING CHARACTERISTICS	FIRE TESTS OF BUILDING CONST. & MATERIALS	THERMAL TRANSMISSION (R-VALUE)	FLEXUAL STRENGTH	TRUENESS & SQUARENESS
CROSS REFERENCED TESTS	UBC 8-1 UL 723	UBC7-1 UL 263			
INSULFOAM TYPE I, VIII, II & IX EPS	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to 5"	ACCEPTABLE IN MANY UL DESIGNS FOUND IN THE UL FIRE RESISTANCE DIRECTORY	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	LENGTH ± 0.03 in/ft of length WIDTH ± 0.06 in/ft of width THICKNESS ± 0.06 in. SQUARENESS ± 0.06 in/ft of length or width
INSULFOAM PANEL CORE TYPE I EPS	FLAME SPREAD - 15 SMOKE DEVELOPED 150-325 INSULFOAM EPS 5" TO 12"	ACCEPTABLE IN MANY UL DESIGNS FOUND IN THE UL FIRE RESISTANCE DIRECTORY	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	LENGTH ± 0.03 in/ft of length WIDTH ± 0.06 in/ft of width THICKNESS ± 0.06 in. SQUARENESS ± 0.06 in/ft of length or width
INSULFOAM ROOF INSULATIONS IDS INSULTAPER TUFF ROOF INSULAM (nailbase) INSUL-BARRIER INSULTAPER-PLUS INSULVENT UNDERLAYMENTS INSUL-LAMINATES	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to 5"	ACCEPTABLE IN MANY UL DESIGNS FOUND IN THE UL FIRE RESISTANCE DIRECTORY	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	LENGTH ± 0.03 in/ft of length WIDTH ± 0.06 in/ft of width THICKNESS ± 0.06 in. SQUARENESS ± 0.06 in/ft of length or width
INSULFOAM IEG EIFS GRADE SINGLECOAT EPS ARCHITECTUAL SHAPES	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to 5"	ACCEPTABLE IN MANY UL DESIGNS FOUND IN THE UL FIRE RESISTANCE DIRECTORY	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	LENGTH ± 0.03 in/ft of length WIDTH ± 0.06 in/ft of width THICKNESS ± 0.06 in. SQUARENESS ± 0.06 in/ft of length or width
INSULFOAM R-GARD	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to 5"	ACCEPTABLE IN MANY UL DESIGNS FOUND IN THE UL FIRE RESISTANCE DIRECTORY	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	LENGTH ± 0.03 in/ft of length WIDTH ± 0.06 in/ft of width THICKNESS ± 0.06 in. SQUARENESS ± 0.06 in/ft of length or width
INSULFOAM INSULFILL	FLAME SPREAD - 15 SMOKE DEVELOPED 150-325 INSULFOAM EPS 5" TO 12"	NA	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	LENGTH ± 0.03 in/ft of length WIDTH ± 0.06 in/ft of width THICKNESS ± 0.06 in. SQUARENESS ± 0.06 in/ft of length or width

TEST	UL 790	UL 723	UL 1715	UL 1256	FM 4450
TEST NAME	FIRE RESISTANCE OF ROOF COVERINGS	SURFACE BURNING CHARACTERISTICS	CORNER ROOM BURN TEST	FIRE TESTS OF ROOF DECK CONSTRUCTION	ROOF COVERINGS CLASS1-FIRE WIND UPLIFT 1-60, 1-90
CROSS REFERENCED TESTS	UBC 15-2 ASTM E 108	UBC 8-1 ASTM E84	UBC 26-3	ANSI/UL 1256	UL 790 UL 580
INSULFOAM TYPE I, VIII, II & IX EPS	CLASS A COMBUSTIBLE & NONCOMBUSTIBLE DECKS ANY THICKNESS OR DENSITY	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to - 5"	PASS - 2" thickness any density.	UL CONST Nos. 458 219, 237, 374, 419	FM APPROVED CLASS 1, 1-60 & 1-90
INSULFOAM PANEL CORE TYPE I EPS	NA	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS 5" TO 12"	PASS - 2" thickness any density.	UL CONST Nos. 458 219, 237, 374, 419	NA
INSULFOAM ROOF INSULATIONS IDS INSULTAPER TUFF ROOF INSULAM (nailbase) INSUL-BARRIER INSULTAPER-PLUS INSULVENT UNDERLAYMENTS INSUL-LAMINATES	CLASS A COMBUSTIBLE & NONCOMBUSTIBLE DECKS ANY THICKNESS OR DENSITY. SEE UL ROOFING MATERIALS DIRECTORY	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to - 5"	NA	UL CONST Nos. 458 219, 237, 374, 419 *UL CONST Nos. 411 & 412 (INSUL-BARRIER)	FM APPROVED CLASS 1, 1-60 & 1-90
INSULFOAM IEG EIFS GRADE & ARCHITECTUAL SHAPES	NA	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to - 5"	NA	NA	NA
INSULFOAM R-GARD	CLASS A COMBUSTIBLE & NONCOMBUSTIBLE AND MAINTENANCE & REPAIR	FLAME SPREAD - 20 SMOKE DEVELOPED 150-300 INSULFOAM EPS ALL DENSITIES to - 5"	PASS - 1" thickness any density.	UL CONST Nos. 458 219, 237, 374, 419	NA
INSULFOAM INSULFILL	NA	FLAME SPREAD - 20 SMOKE DEVELOPED 150-325 INSULFOAM EPS 5" TO 12"	NA	NA	NA

TEST	ASTM C165	ASTM C303	ASTM E96	ASTM C272	ASTM D2863
TEST NAME	COMPRESSIVE RESISTANCE	DENSITY	WATER VAPOR TRANSMISSION	WATER ABSORPTION	OXYGEN INDEX
CROSS REFERENCED TESTS	UBC 8-1 UL 723	UBC7-1 UL 263			
INSULFOAM TYPE I, VIII, II & IX EPS	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578
INSULFOAM PANEL CORE TYPE I EPS	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578
INSULFOAM ROOF INSULATIONS IDS INSULTAPER TUFF ROOF INSULAM (nailbase) INSUL-BARRIER INSULTAPER-PLUS INSULVENT UNDERLAYMENTS INSUL-LAMINATES	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578
INSULFOAM IEG EIFS GRADE SINGLECOAT EPS ARCHITECTUAL SHAPES	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578
INSULFOAM R-GARD	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	0.05 GRAINS/HR•FT	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578
INSULFOAM INSULFILL	STRESS STRAIN CURVES AVAILABLE	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578	TESTED VALUES MEET OR EXCEED VALUES LISTED IN ASTM C578

Abbreviations: UL = Underwriters Laboratories Inc. UBC = Uniform Building Code
ASTM = American Society of Testing and Materials FM = Factory Mutual Research Corporation
NA = Not Applicable

UL listings can be found in the UL Roofing Materials Guide and the UL Fire Resistance Directory.

INSULFOAM UL ROOF LISTING UL 790

***CLASS A COMBUSTIBLE DECK SINGLE PLY-BALLASTED**
Insulation: Insulfoam EPS, Insultaper, Tuffroof, Tuffroof Plus, R-Gard, Insulam, Insulvent, Insulbarrier any thickness any density.
 EPS/woodfiber or EPS/perlite factory laminate or field applied. Insulation joints offset 6" from deck joints.
Membrane: Any UL Classified membrane system
Surfacing: River bottom stone — 1000lb/sq.

***CLASS A COMBUSTIBLE SINGLE PLY-ADHERED**
Insulation: Insulfoam EPS, Insultaper, R-Gard, Insulbarrier any thickness any density.
Barrier Board: 1/2" gypsum board or 1/4" DensDek
Membrane: Any UL Classified EPDM, CPE, CSPE, PVC, CR, NBP, EIP EP, PIB, TPO or TPA.
Surfacing: See membrane listing.

***CLASS A COMBUSTIBLE SINGLE PLY-MECHANICALLY ATTACHED**
Insulation: Insulfoam EPS, Insultaper, R-Gard, Insulbarrier any thickness any density.
Barrier Board: 1/2" gypsum board or 1/4" DensDek
Membrane: Any UL Classified EPDM, CPE, CSPE, PVC, CR, NBP, EIP, EP, PIB, TPO or TPA.
Surfacing: See membrane listing.

***Class A NON-COMBUSTIBLE SINGLE PLY-ADHERED**
Insulation: Insulfoam EPS, Insultaper, Tuffroof, Tuffroof Plus, R-Gard, Insulam, Insulvent, Insulbarrier any thickness any density.
 EPS/woodfiber or EPS/perlite factory laminate or field applied.
Membrane: Any UL Classified EPDM, CPE, CSPE, PVC, CR, NBP, EIP, EP, PIB, TPO or TPA.
Surfacing: See membrane listing.

***CLASS A NON-COMBUSTIBLE SINGLE PLY-BALLASTED**
Insulation: Insulfoam EPS, Insultaper, Tuffroof, Tuffroof Plus, R-Gard, Insulam, Insulvent, Insulbarrier any thickness any density.
Membrane: Any UL Classified membrane system
Surfacing: River bottom stone — 1000lb/sq.

***CLASS A NON-COMBUSTIBLE SINGLE PLY-MECHANICALLY ATTACHED**
Insulation: Insulfoam EPS, Insultaper, Tuffroof, Tuffroof Plus, R-Gard, Insulam, Insulvent, Insulbarrier any thickness any density.
 EPS/woodfiber or EPS/perlite factory laminate or field applied.
Membrane: Any UL Classified EPDM, CPE, CSPE, PVC, CR, NBP, EIP EP, PIB, TPO or TPA.
Surfacing: See membrane listing.

***CLASS A NON-COMBUSTIBLE SINGLE PLY-MECHANICALLY ATTACHED**
Insulation: Insulfoam EPS, Insultaper, R-Gard, Insulbarrier any thickness any density.
Slip Sheet: Secure-Ply
Membrane: Any UL Classified EPDM, CPE, CSPE, PVC, CR, NBP, EIP, EP, PIB, TPO or TPA.
Surfacing: See membrane listing.

***CLASS A COMBUSTIBLE OR NON-COMBUSTIBLE BUR MEMBRANE**
Insulation: Insulfoam EPS, Insultaper, Tuffroof, Tuffroof Plus, R-Gard, Insulam, Insulvent, Insulbarrier any thickness any density.
 EPS/woodfiber or EPS/perlite factory laminate or field applied.
Membrane: 3-5 plys UL Classified —
Surfacing: A. 400 lbs. roofing gravel/square
 B. G1 or G2 (fiberglass) stone/square
 C. 300 lbs. crushed slag/square
 D. Type G3 Mineral Surface Cap Sheet