

TGFU.R16529 - Roofing Systems

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Roofing Systems

[See General Information for Roofing Systems](#)

ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION

R16529

8240 BYRON CENTER AVE SW
BYRON CENTER, MI 49315-8866 USA

ASPHALT FELT SYSTEMS WITH HOT ROOFING ASPHALT

Class A

1. **Deck:** NC

Incline: 3 (See note)

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, field covered with 1/2 in. min perlite or wood fiber.

Ply Sheet: — 3 to 5 plies Type 15, G1 or G2.

Surfacing: — Gravel or Type G3 mineral surfaced cap sheet.

Note: Incline is reduced to 1 in. when Type G3 mineral surfaced cap sheet is used as the surfacing.

2. **Deck:** C-15/32

Incline: 3 (See note)

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, field covered with 3/4 in. min perlite.

Ply Sheet: — 3 to 5 plies Type 15, G1 or G2.

Surfacing: — Gravel or Type G3 mineral surfaced cap sheet.

Note: Incline is reduced to 1 in. when Type G3 mineral surfaced cap sheet is used as the surfacing.

SINGLE PLY MEMBRANE SYSTEMS

Class A - Ballasted

Unless otherwise indicated, insulation may be loose laid or mechanically fastened; membrane may be loose laid, mechanically fastened or adhered in place.

1. **Deck:** C-15/32

Incline: 2

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, field covered with min 3/4 in. perlite.

Membrane: — Any UL Classified membrane system. Surfacing: River bottom stone (3/4 to 1-1/2 in. diam), 1000 lb/sq.

2. **Deck:** NC

Incline: 2

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Membrane: — Any UL Classified membrane system.

Surfacing: — River bottom stone (3/4 to 1-1/2 in. diam), 1000 lb/sq.

3. Deck: NC**Incline:** 2

Note: Deck must be one of the following: A.) Monolithic poured cementitious deck. B.) Steel covered with gypsum board or perlite board, 1/2 in. min. C.) Structural decks with all joints covered with Type 30 base sheet, extending 6 in. (min) on each side of joint. D.) Metal deck covered with cellular concrete, gypsum concrete, vermiculite concrete or perlite concrete.

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Membrane: — Any UL Classified membrane system.

Surfacing: — River bottom stone (3/4 in. to 1-1/2 in. diam), 1000 lb/sq.

Class A, B or C (See note) - Fully Adhered

Incline is reduced to 1 in. when Type G3 mineral surfaced cap sheet is used as the surfacing. Unless otherwise indicated, insulation is mechanically fastened in place.

1. Deck: NC**Incline:** See note

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, field covered with 1/2 in. min perlite or wood fiber.

Membrane: — Any UL Classified modified bitumen system suitable for use with any roof insulation.

Surfacing: — See note.

Note: Classification (A, B or C) will be the same as that for the original insulation/membrane roofing system. Maximum incline and surfacing shall be in accordance with the Classification established for the insulation/membrane roofing system. Base sheet (if any) shall be in accordance with the Classification established for the insulation/membrane roofing system

2. Deck: NC**Incline:** See note

Insulation: — EPS/perlite or EPS/wood fiber (perlite 3/4 in. min thickness or 1/2 in. min USG Interiors' "Micore MC 180", Huebert wood fiber, Georgia-Pacific Corp. "Strudi-Top", Wood Fiber Industries' "Structodeck", Celotex wood fiber, Temple-Inland "Fiber Base" or other wood fiber at 1 in. min thickness), any combination, any thickness of the following: "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", field covered with perlite or wood fiber, any thickness.

Membrane: — Any UL Classified EPDM, CPE, CSPE, PVE, CR, NBP or PIB membrane system suitable for use with any roof insulation.

Surfacing: — See note.

Note: Classification (A, B or C) will be the same as that for the original insulation/membrane roofing system. Maximum incline, attachment of membrane, and surfacing of membrane shall be in accordance with Classification established for membrane/insulation roofing system.

Class A, B or C (See note) - Mechanically Fastened**1. Deck:** NC**Incline:** See note

Insulation: — EPS/perlite or EPS/wood fiber (perlite 3/4 in. min thickness or 1/2 in. min USG Interiors' "Micore MC 180", Huebert wood fiber, Georgia-Pacific Corp. "Sturdi-Top", Wood Fiber Industries' "Structodeck", Celotex wood fiber, Temple-Inland "Fiber Base" or other wood fiber at 1 in. min thickness), any combination, any thickness of the following: "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", field covered with perlite or wood fiber.

Membrane: — Any UL Classified EPDM, CPE, CSPE, PVC, CR, NBP or PIB membrane system suitable for use with any roof insulation.

Surfacing: — See note.

Note: Classification (A, B or C) will be the same as that for the original insulation/membrane roofing system. Maximum incline, attachment of membrane, and surfacing of membrane shall be in accordance with Classification established for membrane/insulation roofing system.

Class A - Mechanically Fastened**1. Deck:** NC**Incline:** See note

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or Elk "VersaShield FB-1S".

Membrane: — Any UL Classified CPE, CSPE, PVC, NBP, TPA, or EIP.

Note: Maximum incline is determined by any existing insulation/membrane Classification, but cannot exceed 1:12.

2. Deck: NC**Incline:** See note

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or Elk "VersaShield FB-1S".

Membrane: — Any UL Classified TPO or PIB.

Note: Maximum incline is determined by any existing insulation/membrane Classification, but cannot exceed 1/2:12.

3. **Deck:** NC

Incline: See note

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or Elk "VersaShield FB-1S".

Membrane: — Any UL Classified EPDM.

Note: Maximum incline is determined by any existing insulation/membrane Classification, but cannot exceed 1/4:12.

4. **Deck:** NC

Incline: 1

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or "FR-11".

Membrane: — HPG Roofing Systems "SR 50", "SR 60" or "SR 80".

5. **Deck:** NC

Incline: 1

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or "FR-11".

Membrane: — Seal-Dry/USA System "3000", "5000" or "7000" (PVC).

6. **Deck:** NC

Incline: 3

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or "FR-11".

Membrane: — JPS Elastomerics "Hi-Tuff" (CSM).

7. **Deck:** NC

Incline: 2

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or "FR-11".

Membrane: — Sarnafil "S327" or "G410".

8. **Deck:** NC

Incline: 1/4

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or "FR-11".

Membrane: — Cooley "C3" (TPA).

9. **Deck:** NC

Incline: 3

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or "FR-11".

Membrane: — Duro-Last "Duro-Last" (PVC).

10. **Deck:** NC

Incline: 3

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness.

Slip Sheet: — Atlas "FR-10" or "FR-11".

Membrane: — Bond Cote Roofing Systems "Bond Cote".

11. **Deleted.**

- 12. Deleted.
- 13. Deleted.
- 14. Deleted.

Class B - Mechanically Fastened

1. **Deck:** C-15/32

Incline: See Note

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", minimum 3/4" thick.

Slip Sheet: — Two layers of Elk "VersaShield FB-1S".

Membrane: — Any UL Classified membrane.

Note: Maximum incline is determined by any existing insulation/membrane Classification, but cannot exceed 1/2:12.

MAINTENANCE AND REPAIR SYSTEMS

Class A

1. **Deck:** NC

Incline: 1

Existing Roof System: — Class A, B or C built-up system, smooth surface, cap sheet or gravel surfaced, gravel to be maintained at 400 lb/sq.

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, 1 in. max.

Slip Sheet: — Atlas Roofing "FR-10" or "FR-11".

Membrane: — HPG Roofing Systems "SR-50", "SR-60", "SR-80", mechanically fastened.

2. **Deck:** NC

Incline: 1/4

Existing Roof System: — Class A, B or C built-up system, smooth surface, cap sheet or gravel surfaced, gravel to be maintained at 400 lb/sq.

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, 1 in. max.

Slip Sheet: — Atlas Roofing "FR-10" or "FR-11".

Membrane: — Cooley "C3" (TPA) or Firestone "Ultraply 78+", mechanically fastened.

3. **Deck:** NC

Incline: 3

Existing Roof System: — Class A, B or C built-up system, smooth surface, cap sheet or gravel surfaced, gravel to be maintained at 400 lb/sq.

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, 1 in. max.

Slip Sheet: — Atlas Roofing "FR-10" or "FR-11".

Membrane: — JPS Elastomerics, "Hi-Tuff" (CSM), mechanically fastened.

4. **Deck:** NC

Incline: 1

Existing Roof System: — Class A, B or C built-up system, smooth surface, cap sheet or gravel surfaced, gravel to be maintained at 400 lb/sq.

Insulation: — "ATLAS OEM", "ATLAS MOLDED PRODUCTS", "THERMALSTAR TAPERED", "THERMALSTAR FLUTE FILL", THERMALSTAR INSULATION BOARD", "THERMALSTAR GPS", any thickness, 1 in. max.

Slip Sheet: — Atlas Roofing "FR-10" or "FR-11".

Membrane: — Sarnafil "G410", "G410 Felt" or "S327", "S327 Felt", mechanically fastened.

Class A, B or C

1. **Deck:** NC

Incline: 1/2

Existing Deck: — Class A, B or C built up system, smooth surface, cap sheet or gravel surfaced, gravel may be removed.

Barrier Board (if gravel is removed): — 1/2 in. gypsum board.

Insulation: — "ThermalStar LRi Laminated Insulation", "ThermalStar TAPERED", "ThermalStar Flute Fill", "THERMALSTAR GPS", "ThermalStar Insulation Board", "Atlas OEM", or "Atlas Molded Products", 1/2 in. thick maximum mechanically fastened.

Membrane: — Duro-Last(PVC), IB Roof "IB Single Ply", Sika Sarnafil "Sikaplan 45", "Sikaplan 60" or "Sikaplan 80" PVC, mechanically fastened.

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