



TGFU.R15546 Roofing Systems

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Roofing Systems

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IB ROOF SYSTEMS

R15546

UNIT B
2877 CHAD DR
EUGENE, OR 97408 USA

SINGLE PLY MEMBRANE SYSTEMS

"IB" (CPA) is produced 40 to 80 mil thickness.

For non-combustible deck applications one of the following insulation attachments may be used. (1) mechanically fastened (2) hot mopping asphalt (3) "Instastick" deck adhesive (4) Ashland "Pliodeck" adhesive in accordance with the manufacturers recommendations.

Class A - Ballast

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

Incline: 2

Insulation: — Any UL Classified insulation, any thickness.
Membrane: — "IB" (CPA) or IB Single Ply
Surfacing: — River bottom stone (3/4 to 1-1/2 in. diam) at 1000 lbs/sq.

Class A - Fully Adhered

1. **Deck:** NC

Incline: 2

Insulation: — Any UL Classified HD wood fiber board, "IB Energy Board II", Atlas Roofing "ACFoam II" Firestone Building Products "Iso 95+GL" or "Iso 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max", any thickness, mechanically attached or hot mopped.
Membrane: — "IB" (CPA), adhered with Ashland Chemical "Pliobond 7500" bonding adhesive, at 1 gal/160 sq ft. The overlapping membrane joints are heat sealed.

2. **Deck:** NC

Incline: 2

Insulation: — "IB Energy Board II" or "IB Energy Board III", Johns Manville "ENRGY 2", Atlas Roofing "ACFoam II", "ACFoam III", Firestone Building Products "ISO 95+GL", any thickness.
Membrane: — "IB" (CPA), adhered with "IB Contact Adhesive" at 60 sq/ft/gal.

3. **Deck:** NC

Incline: 2

Insulation: — Any UL Classified EPS Composite (EPS/perlite, perlite side up or EPS/wood fiber, wood fiber side up) any thickness.
Barrier Board (Optional): — 1/4 in. (min) G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2-in Gypsum Board with all joints staggered 6 in. from the plywood joints, mechanically attached or adhered.
Membrane: — "IB" (CPA), adhered with Ashland Chemical "Pliobond 7500" bonding adhesive, at 1 gal/160 sq ft or "IB Contact Adhesive" at 1 gal/60 sq ft. The overlapping joints are heat-sealed.

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

Incline: Unlimited

Impact: 4

Insulation: — Any UL Classified insulation, any thickness:
Barrier Board: — 1/4 in. min G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2-in Gypsum Board with all joints staggered 6 in. from the plywood joints, mechanically attached or adhered.
Membrane: — "IB" (CPA) adhered with TACC "LA 432" adhesive at 1 gal/60 sq ft or "FA 636" adhesive at 1 gal/140 sq ft.

5. **Deck:** NC

Incline: 1

Insulation: — One of the following, any thickness:

1. Firestone Building Products "ISO 95+GL"
2. Johns Manville "ENRGY 3"

Membrane: — "IB Single Ply®", adhered with TACC "LA 432" adhesive at 1 gal/60 sq ft or "FA 636" adhesive at 1 gal/140 sq ft.

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

Incline: Unlimited

Impact: 4

Insulation: — Any UL Classified insulation, any thickness:

Barrier Board: — 1/4 in. min G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2-in Gypsum Board with all joints staggered 6 in. from the plywood joints, mechanically attached or adhered.

Membrane: — "IB Single Ply®", adhered with TACC "LA 432" adhesive at 1 gal/60 sq ft or "FA 636" adhesive at 1 gal/140 sq ft.

7. **Deck:** NC

Incline: 1-1/2

Insulation: — One of the following, any thickness:

1. Atlas Roofing "ACFoam II"
2. Atlas Roofing "ACFoam III"
3. "IB Energy Board II"
4. "IB Energy Board III"

Membrane: — "IB Single Ply®", adhered with TACC "LA 432", "LA432M" or Ashland "7008" adhesive at 1 gal/60 sq ft.

Class A - Mechanically Fastened

1. **Deck:** NC

Incline: 2

Insulation: — Glass fiber, Johns Manville "Fesco-Foam", perlite or HD Wood fiber Board, 3/4 to 4 in.

Membrane: — "IB" (CPA).

2. **Deck:** NC

Incline: 2

Insulating Concretes: — Cellular, gypsum vermiculite, perlite or structural, poured in place over deck.

Membrane: — "IB" (CPA).

3. **Deck:** NC

Incline: 2

Insulation: — Any UL Classified polystyrene, any thickness.

Slip Sheet: — Atlas Roofing "FR-50" or "IB Fire Sheet 50".

Membrane: — "IB" (CPA).

4. **Deck:** NC

Incline: 2

Slip Sheet (Optional): — Atlas Roofing "FR-10" or "IB Fire Sheet 10".

Insulation: — "IB Energy Board II", Atlas Roofing "ACFoam II" or "ACFoam Supreme", any thickness, hot mopped in place or mechanically fastened.

Membrane: — "IB" (CPA).

5. **Deck:** NC

Incline: 1

Insulation: — Any UL Classified polystyrene, any thickness.

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

Membrane: — "IB" (CPA).

6. **Deck:** NC

Incline: 3

Insulation: — Atlas Roofing "ACFoam II" or "ACF III", "IB Energy Board II", "IB Energy Board III", Firestone Building Products "ISO 95+GL" or "ISO 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max", any thickness.

Membrane: — "IB" (CPA).

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

Incline: 3

Barrier Board: — 1/4 in. (min) G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2 in. (min) gypsum board with all joints staggered a min of 6 in. from the plywood joints.

Insulation: — Atlas Roofing "ACFoam II" or "ACF III", "IB Energy Board II", "IB Energy Board III", Firestone Building Products "ISO 95+GL" or "ISO 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max", or "Thermarroof Plus", any thickness.

Membrane: — "IB" (CPA).

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

Incline: Unlimited

Insulation (Optional): — Any UL Classified, any thickness

Barrier Board: — 1/4 in. (min) G-P Gypsum DensDeck®, DensDeck Prime®, USG SECUROCK Glass-Mat Roof Board, CertainTeed Gypsum GlasRoc or 1/2-in Gypsum Board with all joints staggered a min of 6 in. from the plywood joints.

Membrane: — "IB" (CPA) or "IB Single Ply".

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

Incline: 1/2

Slip Sheet: — Two layers Atlas Roofing "FR-50" or "IB Single Ply".

Membrane: — "IB" (CPA) or "IB Single Ply".

10. **Deck:** NC

Incline: 1

Insulation: — Owens Corning Specialty Products "Foamular", any thickness.

Slip Sheet: — Atlas Roofing. "FR-10" or "FR-50", "IB Fire Sheet 10" or "IB Fire Sheet 50".

Membrane: — "IB" (CPA).

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

Incline: 1/2

Slip Sheet: — One layer Atlas Roofing "FR-10", or "FR-50", "IB Fire Sheet 10" or "IB Fire Sheet 50".

Insulation: — "IB Energy Board III" or Atlas Roofing "ACFoam III", 1.5 in. min thickness with all joints staggered 6 in. min. from plywood joints.

Membrane: — "IB" (CPA).

12. **Deck:** NC

Incline: 3

Insulation: —

1. Firestone Building Products "ISO 95+GL"
2. Johns Manville "ENRGY 2"
3. Rmax "Multi-Max FA"
4. Atlas Roofing "ACFoam II"
5. Atlas Roofing "ACFoam III"
6. Johns Manville "ISO 1"

7. "IB Energy Board II"

8. "IB Energy Board III"

Membrane: — "IB" (CPA).

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

Incline: 1/2

Slip Sheet: — Two layers Atlas Roofing "FR-50".

Insulation: — 1.5 in. min with all joints staggered 6 in. (min) from the plywood joints.

1. Firestone Building Products "ISO 95+GL"

2. Johns Manville "ENRGY-2"

3. Rmax "Multi-Max FA"

4. Atlas Roofing "ACFoam II"

5. Atlas Roofing "ACFoam III"

6. Johns Manville "ISO 1"

7. "IB Energy Board II"

8. "IB Energy Board III"

Membrane: — "IB" (CPA).

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

Incline: 1/2

Slip Sheet: — Two layers Atlas Roofing "FR-50" or "IB Fire Sheet 50".

Membrane: — "IB" (CPA).

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

Incline: 1/2

Slip Sheet: — One layer Atlas Roofing "FR-10" or "FR-50".

Insulation: — "ACFoam III" or "IB Energy Board III", 1.5 in. min thickness with all joints staggered 6 in. min from the plywood joints.

Membrane: — "IB" (CPA) or "IB Single Ply".

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

Incline: 3/4, See Note

Slip Sheet: — Two layers "FR-10," IB Fire Sheet 10 mechanically fastened.

Insulation (Optional): — Any UL Classified, any thickness (except EPS and wood fiberboard).

Membrane: — Any UL Classified PVC, CPE, CSM, CSPE, EPDM, NBP, PIB, TPO, EIP or TRE membrane. (Note: Membrane must be currently Classified for use over the insulation used. Actual incline is determined by the maximum existing membrane/insulation Classification incline.)

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

Incline: 1-1/2

Slip Sheet: — Two layers GAF "VersaShield Underlayment" or "IB Fire Sheet - 2" .

Membrane: — "IB" (CPA).

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

Incline: 2

Slip Sheet: — Two layers GAF "VersaShield Underlayment".

Insulation: — Firestone Building Products "ISO 95+GL" or "ISO 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max", any thickness.

Membrane: — "IB" (CPA).

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

Incline: 2

Slip Sheet: — ; Two layers GAF "VersaShield Underlayment".

Insulation (Optional): —

1. Firestone Building Products "ISO 95+GL"

2. Johns Manville "ENRGY 2"

3. Rmax "Multi-Max FA"

4. Atlas Roofing "ACFoam II"

5. Atlas Roofing "ACFoam III"

6. Johns Manville "ISO 1"

7. "IB Energy Board II"

8. "IB Energy Board III"

Membrane: — "IB" (CPA).

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

Incline: 1/2

Slip Sheet: — Two layers Atlas Roofing "FR 50" or "IB Fire Sheet 50".

Insulation: — 1.5 in. min. with all joints staggered 6 in. (min.) from the plywood joints

1. Firestone Building Products "ISO 95+GL"

2. Johns Manville "ENRGY 2"

3. Rmax "Multi-Max FA"

4. Atlas Roofing "ACFoam II"

5. Atlas Roofing "ACFoam III"
6. Johns Manville "ISO 1"
7. "IB Energy Board II"
8. "IB Energy Board III"

Membrane: — "IB Single Ply".

21. **Deck:** NC

Incline: 2-1/2

Insulation: — One of the following, any thickness:

1. Atlas Roofing "AC Foam II"
2. Atlas Roofing "AC Foam III"
3. "IB Energy Board II"
4. "IB Energy Board III"

Membrane: — "IB Single Ply".

Class B - Mechanically Fastened

1. **Deck:** C-15/32 **Incline:** 3/4
Slip Sheet: — Atlas Roofing "FR-50" or "IB Fire Sheet 50".
Insulation: — "IB Energy Board II", Atlas Roofing "ACFoam II" or "ACFoam Supreme", 1.5 in. min thickness, offset 6 in. from joints in plywood, hot mopped or mechanically fastened.
Membrane: — "IB" (CPA).
2. **Deck:** C-15/32 **Incline:** 1/2
Slip Sheet: — One layer Atlas Roofing "FR-50" or "IB Fire Sheet 50".
Membrane: — "IB" (CPA) or "IB Single Ply".
3. **Deck:** C-15/32 **Incline:** 1/2
Slip Sheet: — One ply "FR-10,"IB Fire Sheet 10 mechanically fastened.
Membrane: — Any UL Classified TPO or CPA membrane. (Note: Actual incline is determined by the maximum existing membrane Classification incline, but cannot exceed 1/2:12.)
4. **Deck:** NC **Incline:** Unlimited
Insulation: — Any UL Classified insulation, any thickness.
Slip Sheet: — One ply Atlas Roofing "FR-50" or "IB Fire Sheet 50".
Membrane: — "IB (CPA) or "IB Single Ply".
5. **Deck:** C-15/32 **Incline:** 1
Slip Sheet: — Two layers Atlas Roofing "FR-50" or "IB Fire Sheet 50".
Membrane: — IB (CPA) or "IB Single Ply".
6. **Deck:** C-15/32 **Incline:** 1-1/2
Slip Sheet: — One layer GAF "VersaShield Underlayment".
Membrane: — "IB" (CPA).
7. **Deck:** C-15/32 **Incline:** 1-1/2
Slip Sheet: — One layer GAF "VersaShield Underlayment".
Insulation: — Firestone Building Products "ISO 95+GL" or "ISO 95+GW", Johns Manville "ENRGY 2A", Rmax "Multi-Max" or "Therमारooof Plus", any thickness.
Membrane: — "IB" (CPA).
8. **Deck:** C-15/32 **Incline:** 1-1/2
Slip Sheet: — One layer GAF "VersaShield Underlayment".
Insulation: —
 1. Firestone Building Products "ISO 95+GL"
 2. Johns Manville "ENRGY 2"
 3. Rmax "Multi-Max FA"
 4. Atlas Roofing "ACFoam II"
 5. Atlas Roofing "ACFoam III"
 6. Johns Manville "ISO 1"
 7. "IB Energy Board II"
 8. "IB Energy Board III"**Membrane:** — "IB" (CPA).
9. **Deck:** C-15/32 **Incline:** 1
Insulation: — Any UL Classified Polystyrene, min. ¾ inch.thick.
Slip Sheet: — Two layers GAF "VersaShield Underlayment".
Membrane: — "IB" (CPA).

MAINTENANCE AND REPAIR SYSTEMS

Class A

- Deck:** NC **Incline:** 2
Existing Roof System: — Class A BUR covered with:
Membrane: — "IB" (CPA), mechanically fastened with metal screws and discs per manufacturer's instructions.
- Deck:** NC **Incline:** 1/4
Existing Roof System: — Class A, B or C BUR covered with:
Insulation: — 1 in. phenolic, covered with Johns Manville 1/2 in. "Retrofit Board".
Membrane: — "IB" (CPA), mechanically fastened.
- Deck:** NC **Incline:** 1/2
Existing Roof System: — Class A, B or C built up system, smooth surface, cap sheet or gravel surfaced, gravel may be removed.
Insulation: — Insulfoam "R-TECH" Type "I", "VIII", "II", "IX" or "FanFold" 1 in. max thickness.
Membrane: — "IB" (CPA), mechanically fastened.
- Deck:** C-15/32 **Incline:** 1/2
Existing Roof System: — Class A, B or C built up system, smooth surface or gravel surfaced, gravel may be removed.
Insulation: — Insulfoam "R-TECH" Type "I", "VIII", "II", "IX" or "FanFold" any thickness.
Membrane: — "IB" (CPA).
Surfacing: — River bottom stone (3/4 in. to 1-1/2 in. diam) at 900 lbs per sq.

Class A, B or C

- Deck:** C-15/32 **Incline:** 1/2
Existing Roof System — Class A, B or C to retain existing Classification, BUR covered with gravel maintained at 400 lbs/sq.
Separation Sheet: — Amocor P14, PB4 or PB6.
Membrane: — "IB" (CPA), mechanically attached.
- Deck:** C-15/32 **Incline:** Unlimited
Existing Roof System: — Class A to retain existing Classification, Insulated or Uninsulated cap sheet or smooth surfaced roof.
Insulation (Optional): — Polyisocyanurate, any thickness.
Barrier Board: — 1/2 gypsum board.
Membrane: — "IB" (CPA), mechanically attached.
- Deck:** C-15/32 **Incline:** 1-1/2
Existing Roof System: — Any Class A, B or C built-up roof system.
Slip Sheet: — One layer GAF "VersaShield Underlayment", mechanically fastened.
Roof Covering: — "IB" (CPA), mechanically attached.
- Deck:** NC **Incline:** 1/2
Existing Roof System: — Class A, B or C built up systems, smooth surfaced, cap sheet or gravel surfaced (gravel maintained) to retain the existing Classification.
Insulation: — "R-TECH" Type "I", "VIII", "II", "IX" or "FanFold" or "Insulfoam" Type "I", "VIII", "II", "IX", 1 in. max thickness
Membrane: — "IB" (CPA), mechanically fastened.
Surfacing: — River bottom stone (3/4 in. to 1-1/2 in. diam) at 900 lbs per sq.
- Deck:** C-15/32 **Incline:** 1/2
Existing Roof System: — Class A, B or C built up systems, smooth surfaced, cap sheet or gravel surfaced (gravel maintained) to retain the existing Classification.
Insulation: — "R-TECH" Type "I", "VIII", "II", "IX" "FanFold" or "Insulfoam" Type "I", "VIII", "II", "IX", 1 in. max thickness
Membrane: — "IB" (CPA), mechanically fastened.
Surfacing: — River bottom stone (3/4 in. to 1-1/2 in. diam) at 900 lbs per sq.
- Deck:** C-15/32 **Incline:** 1-1/2, See Note
Existing Roof System: — Any Class A, B or C built-up roof system to maintain existing classification.
Slip Sheet: — One layer "FR-10," IB Fire Sheet 10 mechanically fastened.
Roof Covering: — Any BUR system or CPE, CSM, CSPE, EPDM, NBP, PIB, PVC, TPO, EIP or TRE membrane system. "IB Single Ply".

Note: Classification (A, B or C) and maximum incline will be the same as that of the Classified Roofing System (TGFU) currently limited to noncombustible deck, but not to exceed 1-1/2 in. slope.

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