



# UNDERWRITER LABORATORIES INC.

## CODE APPROVALS

### Single Ply Membrane Systems

#### Class A – Fully Adhered

##### 1. Deck: C-15/32 • Incline: 3

**Insulation:** Polyisocyanurate, glass fiber/foam composite, phenolic, perlite/foam composite, perlite or glass fiber, 3/4 to 4 in., any combination, hot mopped or mechanically fastened to deck.

**Ply or Base Sheet (optional):** One or more layers Type G1 ply sheet, Type G2 base sheet, Type 15 felt or base sheet, hot mopped or mechanically fastened.

**Membrane:** "Hyload 150 E" or "Hyload 250 E" (modified EIP coal tar), hot mopped in place or "Hyload Sam", "Hyload WS 75", "Hyload WS 90", "Kwik Ply White" or "Hypsam" self-adhering roofing membrane.

**Surfacing:** Gravel.

##### 2. Deck: C-15/32 • Incline: 3

**Base Sheet:** One layer Type G2 base sheet, nailed in place.

**Membrane:** "Hyload 150 E" or "Hyload 250 E" (modified EIP coal tar), hot mopped in place or "Hyload Sam", "Hyload WS 75", "Hyload WS 90", "Kwik Ply White" or "Hypsam" self-adhering roofing membrane.

**Surfacing:** Gravel.

##### 3. Deck: NC • Incline: 3

**Ply Sheet:** One layer Type G1 or G2 glass fiber ply sheet, hot mopped in place.

**Membrane:** "Hyload 150 E" or "Hyload 250 E" (modified EIP coal tar), hot mopped in place or "Hyload Sam", "Hyload WS 75", "Hyload WS 90", "Kwik Ply White" or "Hypsam" self-adhering roofing membrane.

**Surfacing:** Gravel.

##### 4. Deck: NC • Incline: 1/4

**Insulation:** One layer glass fiber/foam composite, phenolic, isocyanurate, perlite/foam composite, perlite, glass fiber or wood fiberboard, 3/4 to 4 in., any combination, hot mopped or mechanically attached.

**Ply or Base Sheet (optional):** One layer Type G1 ply sheet, Type G2 base sheet, Type 15 felt or base sheet, hot mopped or mechanically fastened.

**Membrane:** "Hyload SAM", "Hyload WS 90" or "Hypsam" self-adhering roofing membrane or "Hyload 150 E" or "Hyload 250 E" (modified EIP coal tar), hot mopped in place.

**Surfacing (optional):** Gravel.

##### 5. Deck: NC • Incline: 1/4

**Insulation:** One layer isocyanurate or glass fiber phenolic covered with one layer 1/2 in. wood fiberboard, perlite or fiberglass recover board; or one layer wood fiberboard, perlite, fiberglass, perlite/foam composite with perlite side up, 3/4 to 4 in., any combination, hot mopped or mechanically fastened in place.

**Ply or Base Sheet:** One layer Type G1, G2 or 15, hot mopped or mechanically fastened.

**Membrane:** "Kwik Ply White", "Alpsam" or "Alpsam WS".

**Surfacing (optional):** Gravel.

##### 6. Deck: C-15/32 • Incline: 1/4

**Insulation (optional):** One layer isocyanurate or glass fiber phenolic covered with one layer 1/2 in. wood fiberboard, perlite or fiberglass recover board, or one layer wood fiberboard, perlite fiberglass, perlite/foam composite with perlite side up, any thickness, any combination, hot mopped or mechanically fastened in place.

**Barrier Board:** Min 1/2 in. G-P Gypsum Dens-Deck® or gypsum board.

**Ply or Base Sheet (optional):** One layer Type G1, G2 or 15, hot mopped or mechanically fastened.

**Membrane:** "Kwik Ply White", "Alpsam", "Alpsam WS", "Hyload SAM", "Hyload WS 75", "Hyload WS 90", "Hyload 150 E", "Hyload 250 E" or "Kwik Ply Black".

##### 7. Deck: C-15/32 • Incline: 1/4

**Barrier Board:** 1/4 in. (min) G-P Gypsum Dens-Deck® or 1/2 in. (min) gypsum board with all joints staggered 6 in. (min) from the plywood joints.

**Membrane (one or two layers):** "Kwik Ply White", "Alpsam", "Alpsam WS", "Hyload WS 75", "Hyload WS 90", "Hyload 150 E", "Hyload 250 E", or "Kwik Ply Black".

##### 8. Deck: NC • Incline: 1-1/2

**Insulation:** Polyisocyanurate, wood fiber, fiberglass and perlite, any thickness, any combination.

**Barrier Board:** "Hyload HyGlass Recover Board" (1/8 in. or 3/16 in.) or Hal Industries "PERMA BOARD", mechanically fastened.

**HYLOAD**  
ROOFING SYSTEMS

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## 9. Deck: NC • Incline: 1

**Insulation:** Polyisocyanurate, any thickness.

**Base Sheet:** "HyBase SAM", self-adhered.

**Membrane:** "Hyload WS 75" or "Hyload WS 90", self-adhered.

## 10. Deck: C-15/32 • Incline: 1/4

**Insulation (optional):** Polyisocyanurate, wood fiber, fiberglass and perlite, any thickness, any combination, covered with "Hyload HyGlass Recover Board" (1/8 in. or 3/16 in.) or Hal Industries "PERMA-BOARD", mechanically fastened.

**Barrier Board:** 1/4 in. (min) G-P Gypsum Dens-Deck® mechanically fastened with all joints staggered 6 in. min from the plywood joints.

**Base Sheet :** "HyBase SAM", self-adhered.

**Membrane:** "Hyload WS 75" or "Hyload WS 90", self-adhered.

## 11. Deck: NC • Incline: 2

**Insulation:** Atlas Roofing "ACFoam III", any thickness

**Base Sheet:** "HyBase SAM", self-adhered.

**Membrane:** "Hyload WS 75" or "Hyload WS 90", self-adhered.

## 12. Deck: C-15/32 • Incline: 2

**Insulation:** Atlas Roofing "ACFoam III", any thickness.

**Barrier Board:** 1/4 in. (min) G-P Gypsum Dens-Deck®, mechanically fastened with all joints staggered 6 in. min from the plywood joints.

**Base Sheet:** "HyBase SAM", self-adhered.

**Membrane:** "Hyload WS 75" or "Hyload WS 90", self-adhered.

## Class B – Fully Adhered

### 1. Deck: C-15/32 • Incline: 1/2

**Insulation (optional):** One layer perlite of glass fiber, 3/4 in. thick min. mechanically fastened. **Barrier Board:** Min 1/2 in. G-P Gypsum Dens-Deck® or gypsum board.

**Ply or Base Sheet :** Two layers Type G2, hot mopped or mechanically fastened.

**Membrane:** "Hyload 150 E" or "Hyload 250 E" (modified EIP coal tar), hot mopped in place or "Hyload Sam", "Hyload WS 75", "Hyload WS 90", or "Kwik Ply Black" self-adhering roofing membrane.

## Class C – Fully Adhered

### 1. Deck: C-15/32 • Incline: 1/4

**Ply Sheet :** One or two layers Type G1 or G2 glass fiber ply sheet, mechanically fastened.

**Membrane:** One layer "Hyload SAM", "Hyload WS 75", "Hyload WS 90" or "Kwik Ply Black" self-adhering roofing membrane.

To achieve a Class A combustible deck rating for an existing noncombustible deck system, a min 1/4 in. G-P Gypsum Dens-Deck® must first be applied to the plywood deck.

## Maintenance and Repair Systems

These systems are intended for use over existing Class A, B or C systems (existing gravel may be removed).

### Class A

#### 1. Deck: NC • Incline: 1/2

**Insulation :** One layer isocyanurate, glass fiber/foam composite, perlite/foam composite, perlite, glass fiber phenolic or wood fiberboard, 3/4 to 4 in., hot mopped or mechanically fastened in place.

**Ply or Base Sheet (optional):** One layer Type G1 ply sheet, Type G2 base sheet, Type 15 felt or base sheet, hot mopped to insulation.

**Membrane:** "Hyload 150 E" or "Hyload 250 E" (modified EIP coal tar), hot mopped in place or "Hyload SAM", "Hyload WS 75", "Hyload WS 90", or "Kwik Ply Black" self-adhering roofing membrane.

#### 2. Deck: C-15/32 • Incline: 1/2

**Ply or Base Sheet:** Two or three layers Type G2, hot mopped or mechanically fastened.

**Membrane:** "Hyload 150 E" or "Hyload 250 E" (modified EIP coal tar), hot mopped in place or "Hyload SAM", "Hyload WS 75", "Hyload WS 90", or "Kwik Ply Black" self-adhering roofing membrane.

### Class A, B, or C

#### 1. Deck: C-15/32 • Incline: 1/2

**Existing Roof System:** Class A, B or C, mineral surfaced cap sheet to retain existing Classification, covered with:

**Membrane:** "Kwik Ply Black", "Hyload SAM:", "Hyload WS 75", "Hyload WS 90", "Kwik Ply White", "Alpsam" or "Alpsam WS", self-adhering roofing membrane.