

POLYGLASS[®]



Polyglass Hot Mop Low Slope Common Assemblies: HVHZ

Florida Product Approval: FL 1654-R37 HVHZ

Florida Product Approval: FL 1654-R39 HVHZ

Miami-Dade NOAs: 22-0706.08 (Wood Deck) and 23-1211.04 (Concrete Deck)

You can access the Florida Product Approval using the link above for quick reference.

Common assemblies used in HVHZ zones, Miami-Dade and Broward Counties

Building Envelope Associates' Engineer, Kelsey Archer, P.E., can assist with engineered calculations and other PE-stamped documents for permitting, for a fee.

Insulated Assemblies - Over Wood Deck

Mechanically Attached Insulation - Hot Mopped

Miami - Dade NOA: 22-0706.08, System D(1) on pages 45 & 46 of 65.

Class A Fire-Rated, UL #18

- Base Insulation: Min 2" Polytherm Iso, Prelim. Attached
- Top Insulation (optional): See approval
- Base Sheet: Elastobase V or Polyglass G2 base, mechanically fastened, 12" o.c. in 4" lap and 12" o.c. in 2 equally spaced staggered rows in center of sheet.
- Inter-Ply Sheet (Optional): Elastobase V, hot mopped
- Cap Sheet: Elastoflex S6 G, hot mopped
- MDP = -52.5 psf, may require enhancement by an Engineer

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

Incline: 1/2

Insulation (Optional): Polyisocyanurate (2-in thick minimum), Glass fiber (15/16-in thick minimum), perlite/polyisocyanurate composite, perlite/urethane composite (2-in thick minimum).

Base Sheet: One or more plies of “Duflex” or Polyflex”, heat fused or mechanically fastened; or one or more plies “Elastobase V”, “Elastovent”, “Elastoflex V”, “Elastoflex V HP”, or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): “One or more plies ”Duflex” or “Polyflex”, heat fused; or one or more plies “Elastobase V”, “Elastovent”, “Elastoflex V”, “Elastoflex V HP”, or “Elastoflex V-C” or Type G2, hot mopped or mechanically fastened.

Membrane: “Elastoflex S6 G”, “Elastoflex S6 G-C” or “Polyfresko G SBS” (modified bitumen), hot mopped.

Mechanically Attached Anchor Sheet - Hot Mopped

FL 1654-R39, HVHZ, System W-39 on Page 17 of 93.

Class A Fire-Rated, UL #18

- Insulation: Polytherm 2" Iso, Prelim. Attached
- Base Sheet: Elastobase V “sand/sand” or Polyglass G2 Base, mechanically fastened, 12" o.c. in 4" lap and 12" o.c. in 2 equally spaced staggered rows in center of sheet.
- Inter-Ply Sheet (Optional): Elastobase V “sand/sand”
- Cap Sheet: Elastoflex S6 G, hot mopped
- MDP = -75 psf, may require enhancement by an engineer

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

Incline: 1/2

Insulation (Optional): Polyisocyanurate (2-in thick minimum), Glass fiber (15/16-in thick minimum), perlite/polyisocyanurate composite, perlite/urethane composite (2-in thick minimum).

Base Sheet: One or more plies of “Duflex” or Polyflex”, heat fused or mechanically fastened; or one or more plies “Elastobase V”, “Elastovent”, “Elastoflex V”, “Elastoflex V HP”, or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): “One or more plies ”Duflex” or “Polyflex”, heat fused; or one or more plies “Elastobase V”, “Elastovent”, “Elastoflex V”, “Elastoflex V HP”, or “Elastoflex V-C” or Type G2, hot mopped or mechanically fastened.

Membrane: “Elastoflex S6 G”, “Elastoflex S6 G-C” or “Polyfresko G SBS” (modified bitumen), hot mopped.

Non-Insulated Assemblies - Over Wood Deck

Mechanically Attached Anchor Sheet - Hot Mopped

Miami-Dade NOA: 22.0706.08 System Type: E1 on page 49 of 65.

Class A Fire-Rated, UL #9

- Min. 19/32" Plywood deck
- Base Sheet: Polyglass G2 Base, mechanically fastened, 8" o.c. in 4" lap and 8" o.c. in 3, equally spaced, staggered rows.
- Inter-Ply Sheet: Elastobase V, hot mopped
- Cap Sheet: Elastoflex S6 FR, hot mopped
- MDP= -52.5 psf, may require enhancement by an Engineer or using Miami-Dade Prescriptive Enhancement Tables

9. Deck: C-15/32 **Incline:** 1/2

Base Sheet: One or more plies "Duflex" or "Polyflex", heat fused or mechanically fastened; or one or more plies, "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or Type G2, hot mopped or mechanically fastened.

Ply Sheet: One or more plies "Duflex" or "Polyflex", heat fused; or one or more plies, "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", "Elastoflex V-C" or Type G2, hot mopped or mechanically attached.

Membrane: "Elastoflex VG FR", "Elastoflex S6 G FR", "Polyfresko G SBS FR", "XtraFlex SBS POLY G", "XtraFlex SBS POLY G T", "XtraFlex SBS Glass G", "XtraFlex SBS Glass GT" or "Elastoshield TS G FR" (modified bitumen), hot mopped or heat fused.

Mechanically Attached Anchor Sheet - Hot Mopped

FL 1654-R39, HVHZ, System W-71 on Page 20 of 93.

Class A Fire-Rated, UL #9

- Min. 19/32" Plywood Deck
- Base Sheet: Elastobase V "sand/sand" or Polyglass G2 Base, mechanically fastened, 8" o.c. in 4" lap and 8" o.c. in three (3), equally spaced, staggered center rows.
- Inter-Ply Sheet: Elastobase V "sand/sand"
- Cap Sheet: Elastoflex S6 G FR, hot mopped
- MDP = -60 psf, may require enhancement by an engineer or using Miami-Dade Prescriptive Enhancement Tables)

9. Deck: C-15/32 **Incline:** 1/2

Base Sheet: One or more plies "Duflex" or "Polyflex", heat fused or mechanically fastened; or one or more plies, "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or Type G2, hot mopped or mechanically fastened.

Ply Sheet: One or more plies "Duflex" or "Polyflex", heat fused; or one or more plies, "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", "Elastoflex V-C" or Type G2, hot mopped or mechanically attached.

Membrane: "Elastoflex VG FR", "Elastoflex S6 G FR", "Polyfresko G SBS FR", "XtraFlex SBS POLY G", "XtraFlex SBS POLY G T", "XtraFlex SBS Glass G", "XtraFlex SBS Glass GT" or "Elastoshield TS G FR" (modified bitumen), hot mopped or heat fused.

Insulated Assemblies -Over Concrete Deck

1. Fully Adhered

FL 1654-R39, HVHZ, System C-29 on Page 50 of 93.

Class A Fire-Rated, UL #18

- Concrete deck: Primed with PG100
- Base Insulation: Min. 2" Polytherm Iso, hot mopped
- Top Insulation: Min. 1/4" Securock, hot mopped
- Base Sheet: Elastobase V "sand/sand"
- Ply Sheet (Optional): Elastobase V "sand/sand"
- Cap Sheet: Elastoflex S6 G, hot mopped
- MDP = -225 psf
- Any system listed for use over a combustible deck can be installed over a non-combustible deck and achieve the same classification.

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

Incline: 1/2

Insulation: Polyisocyanurate (2-in. thick minimum), Glass fiber (15/16-in. thick minimum), perlite/polyisocyanurate composite, perlite/urethane composite (2-in. thick minimum).

Base Sheet: One or more plies "Duflex" or "Polyflex", heat fused or mechanically fastened; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): One or more plies "Duflex" or "Polyflex", heat fused; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", "Elastoflex V-C" or Type G2, hot mopped or mechanically fastened.

Membrane: "Elastoflex S6 G", "Elastoflex S6 G-C" or "Polyfresko G SBS" (modified bitumen), hot mopped.

2. Fully Adhered

FL 1654-R39, HVHZ, System C-35 on Page 50 of 93.

Class A Fire-Rated, UL #18

- Concrete deck: Primed with PG100
- Base Insulation: Min. 2" Polytherm Iso, hot mopped
- Top Insulation: Min. 1/4" Densdeck Prime, hot mopped
- Base Sheet: Polyglass G2 Base, hot mopped
- Ply Sheet (Optional): Elastobase V "sand/sand"
- Cap Sheet: Elastoflex S6 G, hot mopped
- MDP = -480 psf
- Any system listed for use over a combustible deck can be installed over a non-combustible deck and achieve the same classification.

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

Incline: 1/2

Insulation: Polyisocyanurate (2-in. thick minimum), Glass fiber (15/16-in. thick minimum), perlite/polyisocyanurate composite, perlite/urethane composite (2-in. thick minimum).

Base Sheet: One or more plies "Duflex" or "Polyflex", heat fused or mechanically fastened; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): One or more plies "Duflex" or "Polyflex", heat fused; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", "Elastoflex V-C" or Type G2, hot mopped or mechanically fastened.

Membrane: "Elastoflex S6 G", "Elastoflex S6 G-C" or "Polyfresko G SBS" (modified bitumen), hot mopped. Any system listed for use over a combustible deck can be installed over a non-combustible deck and achieve the same classification.

3. Fully Adhered

Miami-Dade NOA: 23-1211.04, System Type: A(5) on Page 16 of 52

Class A Fire-Rated, UL #8

- Concrete deck: Primed with PG100
- Base Insulation (Optional): Min. 2" Polytherm Iso, hot mopped
- Top Insulation: Min. 1/4" Securock Gypsum-Fiber roof board, hot mopped
- Base Sheet: Elastobase V, hot mopped
- Ply Sheet (Optional): Elastobase V, hot mopped
- Cap Sheet: Elastoflex S6 G, hot mopped
- MDP = -225 psf

8. **Deck:** NC

Incline: 1/2

Insulation (Optional): Polyisocyanurate, urethane, perlite/polyisocyanurate composite, perlite/urethane composite, Glass fiber or wood fiberboard, phenolic or perlite, any thickness.

Base Sheet: One or more plies "Duflex" or "Polyflex" heat fused or mechanically fastened; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or "Elastoflex V-C" hot mopped, mechanically fastened or heat fused; or one or more plies Type G2, hot mopped or mechanically fastened.

Membrane: "Elastoflex VG FR", "Elastoshield TS G FR", "Elastoflex S6 G FR", "XtraFlex SBS POLY G", "XtraFlex SBS POLY G T", "XtraFlex SBS Glass G", "XtraFlex SBS Glass GT" or "Polyfresko G SBS FR" (modified bitumen), hot mopped or heat fused.

4. Fully Adhered

Miami-Dade NOA: 23-1211.04, System Type: A(10) on Pages 22 to 23 of 52

Class A Fire-Rated, UL #8

- Concrete deck: Primed with PG100
- Base Insulation (Optional): Min. 1.5" Polytherm Iso, hot mopped
- Top Insulation: Min. 1/4" DensDeck Prime, hot mopped
- Base Sheet: Elastobase V, hot mopped
- Ply Sheet (Optional): Elastobase V, hot mopped
- Cap Sheet: Elastoflex S6 G, hot mopped
- MDP = -510 psf

8. Deck: NC

Incline: 1/2

Insulation (Optional): Polyisocyanurate, urethane, perlite/polyisocyanurate composite, perlite/urethane composite, Glass fiber or wood fiberboard, phenolic or perlite, any thickness.

Base Sheet: One or more plies "Duflex" or "Polyflex" heat fused or mechanically fastened; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or "Elastoflex V-C" hot mopped, mechanically fastened or heat fused; or one or more plies Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): One or more plies "Duflex" or "Polyflex", heat fused; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", "Elastoflex V-C" or Type G2, hot mopped or mechanically fastened.

Membrane: "Elastoflex VG FR", "Elastoshield TS G FR", "Elastoflex S6 G FR", "XtraFlex SBS POLY G", "XtraFlex SBS POLY G T", "XtraFlex SBS Glass G", "XtraFlex SBS Glass GT" or "Polyfresko G SBS FR" (modified bitumen), hot mopped or heat fused.

Non-Insulated Assemblies -Over Concrete Deck

1. Fully Adhered

FL 1654-R39, HVHZ, System C-148 on Page 64 of 93.

Class A Fire-Rated, UL #8

- Concrete deck*: Primed with PG100
 - **Concrete Deck shall have Structural Slope*
- Base Sheet: Elastobase V (sand/sand), hot mopped
- Ply Sheet (Optional): Elastobase V (sand/sand)
- Cap Sheet: Elastoflex S6 G, hot mopped
- MDP = -622.5 psf

8. Deck: NC

Incline: 1/2

Insulation (Optional): Polyisocyanurate, urethane, perlite/polyisocyanurate composite, perlite/urethane composite, Glass fiber or wood fiberboard, phenolic or perlite, any thickness.

Base Sheet: One or more plies "Duflex" or "Polyflex" heat fused or mechanically fastened; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or "Elastoflex V-C" hot mopped, mechanically fastened or heat fused; or one or more plies Type G2, hot mopped or mechanically fastened.

Membrane: "Elastoflex VG FR", "Elastoshield TS G FR", "Elastoflex S6 G FR", "XtraFlex SBS POLY G", "XtraFlex SBS POLY G T", "XtraFlex SBS Glass G", "XtraFlex SBS Glass GT" or "Polyfresko G SBS FR" (modified bitumen), hot mopped or heat fused

2. Fully Adhered

Miami-Dade NOA: 23-1211.04, System F(4) on page 51 of 52.

Class A Fire-Rated, UL #8

- Concrete deck*: Primed with PG100
 - **Concrete Deck shall have Structural Slope*
- Base Sheet: Elastobase V, hot mopped
- Ply Sheet (Optional): Elastobase V, hot mopped
- Cap Sheet: Elastoflex S6 G FR, hot mopped
- MDP = -622.5 psf

8. Deck: NC

Incline: 1/2

Insulation (Optional): Polyisocyanurate, urethane, perlite/polyisocyanurate composite, perlite/urethane composite, Glass fiber or wood fiberboard, phenolic or perlite, any thickness.

Base Sheet: One or more plies "Duflex" or "Polyflex" heat fused or mechanically fastened; or one or more plies "Elastobase V", "Elastovent", "Elastoflex V", "Elastoflex V HP", or "Elastoflex V-C" hot mopped, mechanically fastened or heat fused; or one or more plies Type G2, hot mopped or mechanically fastened.

Membrane: "Elastoflex VG FR", "Elastoshield TS G FR", "Elastoflex S6 G FR", "XtraFlex SBS POLY G", "XtraFlex SBS POLY G T", "XtraFlex SBS Glass G", "XtraFlex SBS Glass GT" or "Polyfresko G SBS FR" (modified bitumen), hot mopped or heat fused.