



UL Impact Ratings - SAMB

**MULE-HIDE PRODUCTS, CO., INC.
UNDERWRITERS LABORATORIES (UL)
TGFU.R13850
ROOFING SYSTEMS - SAMB
Revised July 2023**

The following Self-Adhering Modified Bitumen systems have a UL 2218A Class IV Impact Resistance Rating as listed.

Class A

- 33. Deck: NC Incline: 1 Impact: 4**
Base Sheet: — "Nail Base" mechanically fastened or "SA Base Sheet (FR)" self-adhered.
Ply Sheet (Optional): — "Nail Base" heat fused or mechanically fastened or "SA Base Sheet (FR)" self-adhered.
Membrane: — "SA-APP Cap Sheet (FR)", "SA-SBS Cap Sheet (FR)" self-adhered or "APP Torch G FR Premier" or "APP Torch G FR KoolCap" heat fused.
- 34. Deck: C-15/32 Incline: 2 Impact: 4**
Base Sheet: — "Nail Base" mechanically fastened or "SA Base Sheet (FR)" self-adhered.
Ply Sheet (Optional): — "SA Base Sheet (FR)" self-adhered.
Membrane: — "SA-APP Cap Sheet (FR)", "SA-SBS Cap Sheet (FR)" self-adhered or "APP Torch G FR Premier" heat fused.
- 48. Deck: NC Incline: 1 Impact: 4**
Insulation (Optional): — Polyisocyanurate, any thickness.
Barrier Board: — Minimum 1/2 in. thick gypsum board or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or "DensDeck DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK™ Roof Board Type FRX-G".
Base Sheet (Optional): — "SA Base Sheet - Low Temp", self-adhered.
Membrane: — "SA-APP Cap Sheet", self-adhered; or "APP Torch G FR Premier" heat fused.

The following Self-Adhering Modified Bitumen systems have a UL 2218A Class IV Impact Resistance Rating as listed.

Class B

3. **Deck:** C-15/32 **Incline:** 1-1/2 **Impact:** 4
Base Sheet: — Type G2 or "Nail Base" mechanically fastened.
Ply Sheet: — "AAPP Torch Base Premier", heat fused.
Membrane: — "APP Torch G FR Premier" or "APP Torch G FR KoolCap" (modified bitumen), heat fused.
4. **Deck:** 15/32 **Incline:** 1-1/2 **Impact:** 4
Insulation: — Glass fiber (15/16-in. thick minimum), mechanically fastened.
Base Sheet: — Type G2 base or "Nail Base" hot mopped or mechanically fastened.
Membrane: — "APP Torch G FR Premier" or "APP Torch G KoolCap" (modified bitumen) heat fused.
5. **Deck:** C-15/32 **Incline:** 1/2 **Impact:** 4
Base Sheet: — Type G2 mechanically fastened.
Membrane: — "APP Torch G Premier", "APP Torch G" heat fused.
6. **Deck:** NC **Incline:** 1 **Impact:** 4
Insulation (Optional): — Polyisocyanurate, any thickness.
Base Sheet (Optional): — "SA Base Sheet", "SA Base Sheet - Low Temp" or "Torch Base SA" self-adhered or "Nail Base" mechanically fastened.
Ply Sheet (Optional): — "APP Torch S Premier" heat fused
Membrane: — "SA-APP Cap Sheet", "SA-APP KoolCap G", "SA-SBS Cap Sheet - Low Temp" or "SA SBS Cap Sheet", self-adhered; or "APP Torch G Premier" heat fused.
7. **Deck:** C-15/32 **Incline:** 1 /2 **Impact:** 4
Insulation (Optional): — Polyisocyanurate, any thickness.
Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard", "DensDeck Prime® Roofboard", "DensDeck DuraGuard™ Roofboard" mechanically fastened.
Base Sheet: — "Nail Base" mechanically fastened.
Ply sheet (Optional): — "SA Base Sheet", "SA Base Sheet - Low Temp" or "Torch Base SA", self-adhered.
Membrane: — "SA-APP Cap Sheet", "SA SBS Cap Sheet" or "SA-SBS Cap Sheet - Low Temp", self-adhered; or "APP Torch G Premier" heat fused.

The following Self-Adhering Modified Bitumen systems have a UL 2218A Class IV Impact Resistance Rating as listed.

Class B

10. Deck: C-15/32 Incline: 2 Impact: 4

Insulation (Optional): — Polyisocyanurate, perlite, wood fiber or polyisocyanurate/perlite board, any thickness.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard", "DensDeck Prime® Roofboard", "DensDeck DuraGuard™ Roofboard" mechanically fastened with all joints staggered a minimum of 6-in. from the plywood joints.

Base Sheet: — "Nail Base" mechanically fastened or hot mopped.

Ply Sheet (Optional): — "Nail Base" mechanically fastened or hot mopped.

Membrane: — "SA APP Cap Sheet (FR)" or "SA-APP KoolCap G FR" or "SA SBS Cap Sheet (FR)" (self-adhered) or "APP Torch G FR Premier" or "APP Torch G FR KoolCap" heat fused or hot mopped.