

Roofing Systems

COMPANY

IKO INDUSTRIES LTD
 IKO RESEARCH CENTRE
 40 HANSEN RD S
 BRAMPTON, ON L6W 3H4 Canada

R16377

"IKOTerm", "IKOTerm 25 PSI", "IKOTerm III", "IKOTerm III 25 PSI", "IKOTerm Tapered", "IKOTerm Tapered 25 PSI", "IKOTerm III Tapered", "IKOTerm III Tapered 20 PSI", "IKOTerm-A", or "IKOTerm-A 25 PSI", or "IKOTerm-A Tapered", or "IKOTerm-A Tapered 25 PSI", or "IKOTerm-A III", or "IKOTerm-A III 25 PSI", or "IKOTerm-A III Tapered", or "IKOTerm-A III Tapered 20 PSI", or "IKOTerm-A CoverShield", or "CRCTerm", or "ShieldBase", or "ShieldBase 180 Sanded" and "CoverShield" insulation may be used wherever polyisocyanurate insulation is specified.

"IKOTerm ShieldPlus" insulation may be used wherever polyisocyanurate insulation is specified (limited to modified bitumen systems).

"IKO Cold Gold Adhesive" may be used wherever hot roofing asphalt is specified.

The following acceptable alternate membranes and base/ply sheets can be used in lieu of membranes and base/ply sheets listed, in any Classified roof covering system:

Membrane Listed:	Acceptable Alternative:
"Modiflex MP-250 Cap"	"Modiflex MP-HD Cap"
"ArmourCool Granular TP"	"ArmourCool Granular TP-HD"
"ArmourCool Granular MP"	"ArmourCool Granular MP-HD"
"Torchflex TP-250 Cap"	"Torchflex TP-HD Cap"
"Modiflex MP-180-SS-Base"	"Modiflex HD-SS Base"
"Modiflex MP-180-FS-Base"	"Modiflex HD-FS Base"
"Fast-N-Stick-180-Base"	"Fast-N-Stick-HD Base"
"Prevent MP-250 Cap"	"Prevent MP-HD Cap"
"Prevent TP-250 Cap"	"Prevent TP-HD Cap"
"ArmourCool Granular Prevent MP"	"ArmourCool Granular Prevent MP-HD"
"ArmourCool Granular Prevent TP"	"ArmourCool Granular Prevent TP-HD"
"Prevent Premium MP-250 Cap"	"Prevent Premium MP-HD Cap"
"Prevent Premium TP-250 Cap"	"Prevent Premium TP-HD Cap"
"ArmourCool Granular Prevent Premium MP"	"ArmourCool Granular Prevent Premium MP-HD"

"ArmourCool Granular Prevent Premium TP"	"ArmourCool Granular Prevent Premium TP-HD"
"Armourbond 180"	"Armourbond 180 HD"
"Armourbond Flash"	"Armourbond Flash HD"
"Armourbond Flash Sand"	"Armourbond Flash Sand HD"
"Armourvent"	
"Modiflex MP-180-Cap"	
"Modiflex MP-250-Cap"	
"Modiflex MP-HD-Cap"	
"ArmourCool Granular TP"	
"ArmourCool Granular TP-HD"	
"ArmourCool Granular MP"	
"ArmourCool Granular MP-HD"	
"Torchflex TP-180-Cap"	
"Torchflex TP-250-Cap"	
"Torchflex TP-250-Cap/5 mm"	
"Torchflex TP-HD-Cap"	
"Armourplast Granular APP"	
"Prevent MP180CAP"	
"ArmourCool Granular Prevent MP"	
"Prevent MP250CAP"	
"ArmourCool Granular Prevent MP-HD"	
"Prevent MP-HD-Cap"	
"ArmourCool Granular Prevent TP"	
"ArmourCool Granular Prevent TP"	
"Prevent TP180CAP"	
"ArmourCool Granular Prevent TP-HD"	
"ArmourCool Granular Prevent TP-HD"	
"Prevent TP250CAP"	
"Prevent TP250CAP/5 mm"	
"Prevent TP250CAP/5 mm"	"Prevent TP-HD Cap/5 mm"
"Prevent TP-HD-Cap"	
"Prevent Premium MP180CAP"	

"ArmourCool Granular Prevent Premium MP"	
"Prevent Premium MP250CAP"	
"ArmourCool Granular Prevent Premium MP-HD"	
"Prevent Premium MP-HD-Cap"	
"ArmourCool Granular Prevent Premium TP"	
"Prevent Premium TP180CAP"	
"ArmourCool Granular Prevent Premium TP-HD"	
"Prevent Premium TP250CAP"	
"Prevent Premium TP-HD-Cap"	
"Torchflex TP-HD-Cap"	"Torchflex Ultra TP-HD-Cap"
"Torchflex TP-HD-FF-Base"	"Torchflex Ultra TP-HD-FF-Base"

Unless otherwise indicated, "Protectobase 180" can be used in lieu of the coverboard and base sheet combination of "Protectoboard" and either "Torchflex TP-180-FF-Base", "Torchflex TP-180-SF-Base", "Modiflex MP-180-FS-Base" or "Modiflex MP-180-SS-Base" in any applicable roofing system.

**ASPHALT FELT SYSTEMS (ORGANIC OR GLASS FIBER)
WITH HOT ROOFING ASPHALT**

Class A, B or C

Hot roofing asphalt: for use in asphalt organic or glass fiber felt roofing systems or Type "20 AM Heavy Duty Asphalt Saturated FeH".

Unless otherwise indicated, "Modi-Melt SEBS" can be used in lieu of hot roofing asphalt in any system.

Unless otherwise indicated, "Modiflex MF-95-SS-Base" or "Modiflex MP-180-SS-Base" can be used in addition to, or in lieu of, the first layer of Type G1 asphalt glass fiber felt in any of the following systems.

Asphalt organic fiber felts: Type 15, IKO No. 15 Asphalt Felt-Perforated for use in asphalt organic fiber felt roofing system.

Asphalt glass fiber felts: Type G1 (IKOGlass Type IV Ply Sheet, IKOGlass Type 6 Ply Sheet), or Type G2 ply sheet for use in asphalt glass fiber felt roofing systems.

Class A

- 1. Deck: NC** **Incline: 3**
Insulation: — 3/4 in. minimum thick UL Classified perlite, polyisocyanurate, wood fiber or glass fiberboard roof insulation, any thickness, any combinations.
Membrane: — Five layers perforated Type 15 felt.
Surfacing: — 400 lbs. roofing gravel or crushed stone or 300 lbs. crushed slag per square of finished roof embedded in a flood coat of hot roofing asphalt at a minimum of 60 lbs. per square.
- 2. Deck: C-15/32** **Incline: 3**
Insulation: — 3/4 in. minimum thick UL Classified perlite, polyisocyanurate or glass fiberboard roof insulation, any thickness, any combinations. .
Membrane: — Three to five layers perforated Type 15 felt.
Surfacing: — 400 lbs. roofing gravel or crushed stone or 300 lbs. crushed slag per square of finished roof embedded in a flood coat of hot roofing asphalt at a minimum of 60 lbs. per square.
- 3. Deck: NC** **Incline: 3**
Insulation: — 3/4 in. minimum thick UL Classified perlite, polyisocyanurate, wood fiber or glass fiberboard roof insulation, any thickness, any combinations.
Membrane: — Three layers Type G1 or Type G2 asphalt glass fiber felts.
Surfacing: — 400 lbs. roofing gravel or crushed stone or 300 lbs. crushed slag per square of finished roof embedded in a flood coat of hot roofing asphalt at a minimum of 60 lbs. per square.
- 4. Deck: NC** **Incline: 3**
Vapor Barrier (Optional): — Not UL Classified loose-laid or adhered to the roof deck with either Type 2 or 3 hot mopping asphalt at a rate of 25 lbs per square or UL Classified vapor retarder adhesive.
Insulation: — 3/4 in. minimum thick UL Classified perlite, polyisocyanurate, wood fiber, glass fiber or EPS (covered with minimum 15/16 in. thick wood fiber or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" roof insulation, any thickness, any combination.
Membrane: — Three to five layers perforated Type 15 felt.
Surfacing: — 400 lbs. roofing gravel or crushed stone or 300 lbs. crushed slag per square of finished roof embedded in a flood coat of hot roofing asphalt at a minimum of 60 lbs. per square.
- 5. Deck: NC** **Incline: 3**
Vapor Barrier (Optional): — Not UL Classified loose-laid or adhered to the roof deck with either Type 2 or 3 hot mopping asphalt at a rate of 25 lbs per square or UL Classified vapor retarder adhesive.
Insulation: — 3/4 in. minimum thick UL Classified perlite, polyisocyanurate, wood fiber, glass fiber or EPS (covered with minimum 15/16 in. thick wood fiber or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" roof insulation, any thickness, any combination.
Membrane: — Three to five layers Type G1 or Type G2 asphalt glass fiber felts.
Surfacing: — 400 lbs. roofing gravel or crushed stone or 300 lbs. crushed slag per square of finished roof embedded in a flood coat of hot roofing asphalt at a minimum of 60 lbs. per square.
- 6. Deck: C** **Incline: 3**

Vapor Barrier (Optional): — Not UL Classified loose-laid or adhered to the roof deck with either Type 2 or 3 hot mopping asphalt at a rate of 25 lbs per square or UL Classified vapor retarder adhesive.

Insulation: — 3/4 in. minimum thick UL Classified perlite, polyisocyanurate, wood fiber or glass fiber roof insulation, any thickness, any combination.

Membrane: — Three to five layers Type G1 or Type G2 asphalt glass fiber felts.

Surfacing: — 400 lbs. roofing gravel or crushed stone or 300 lbs. crushed slag per square of finished roof embedded in a flood coat of hot roofing asphalt at a minimum of 60 lbs. per square.

SINGLE PLY MEMBRANE SYSTEMS

Unless otherwise indicated the use of a vapor retarder (not UL Classified) or ply sheet as a vapor retarder in a roofing assembly, either on combustible or noncombustible roof deck and beneath the roof insulation, is acceptable and will not change the existing Classification for the assembly. The vapor barrier may be viewed as optional in all Classified roofing systems.

Unless otherwise indicated, the use of "MVP" or "MVP Sand" as a vapor retarder beneath the roof insulation or barrier board in a roofing assembly, either on combustible or noncombustible roof deck, is acceptable and will not change the existing Classification for the assembly. The vapor barrier may be viewed as optional in all Classified roofing systems.

Unless otherwise indicated the roof insulation is mechanically fastened, adhered with hot roofing asphalt or UL Classified urethane insulation adhesive.

Unless otherwise indicated, "Modi-Melt SEBS" can be used in lieu of hot roofing asphalt in any system.

Unless otherwise indicated the Type G2 Modiflex Base Sheets may be mechanically fastened or applied with hot roofing asphalt.

Unless otherwise indicated the Type G2 Torchflex Base Sheets may be mechanically fastened or heat fused.

Unless otherwise indicated, Modiflex Cap Sheets are applied with hot roofing asphalt and Torchflex and Armourplast Cap Sheets are heat fused.

1 in. minimum tongue and groove board is a suitable alternate for 15/32 plywood decks with all joints blocked.

Polyisocyanurate and Polystyrene insulation can be used in any of the following insulated noncombustible systems when covered with a minimum thickness of 1/2 in. perlite or wood fiber board.

Unless otherwise indicated, these constructions may utilize any thickness of perlite, glass fiber, polyurethane, polyisocyanurate, combination polyisocyanurate/perlite or polyurethane/perlite insulation hot mopped or mechanically fastened. Wood fiber insulation is a suitable substitute on noncombustible decks only.

1/2 in. thick (minimum) gypsum board or 1/4 in. thick (minimum) Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" overlayment board may be used in any existing noncombustible deck Classification. When this is done, the resulting roofing system is acceptable for use over combustible (15/32 in. minimum) roof decks. The joints in the gypsum board

and overlayment board are offset 6 in. with the joints in the deck. Polystyrene insulation must be placed beneath the gypsum board and "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" .

Acceptable alternatives to the products specified in the Classification:

Product Specified	Acceptable Alternate
Georgia-Pacific Gypsum LLC DensDeck®	Georgia-Pacific Gypsum LLC DensDeck Prime®, DensDeck® Roofboard", "DensDeck Prime® Roofboard"
IKO "Protectoboard"	Hal "PERMA-BOARD"
"Roof-Fast-Base"	Hal Industries, Inc. "PERMA-BOARD", Western Louisville Fiberboard Inc "Western Louisville fiberboard"

Class A - Ballasted

1. Deck: 15/32

Incline: 2

Vapor Barrier (Optional): — Any vapor barrier or red rosin paper, not UL Classified.

Insulation (Optional): — Polyisocyanurate, glass fiber, perlite, wood fiber, (polystyrene covered with wood fiberboard or perlite), any thickness, mechanically fastened or adhered with hot roofing asphalt.

Base Sheet: — Type G2, "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF-2.2", "Torchflex TF-95-SF-Base", "Modiflex MF-95-FS-Base", "Modiflex MF-95-SS-Base", "Fast-N-Stick-180-Base", "Torchflex TP-180-FF-Base", "Torchflex TP-180-SF-Base", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Modiflex MP-180-FS-Base", "Modiflex MP-180-FS-Base 3 mm", "Torchflex TP-180-SF-Base 3 mm", "Modiflex MP-180-FS-Base 3.5 mm", "Torchflex TP-180-SF-Base 3.5mm", "Modiflex MP-180-SS-Base", mechanically fastened, adhered with hot roofing asphalt or heat fused.

Membrane: — "Armourplast Granular APP", "Modiflex MP-250-Cap", "Modiflex MP-180-Cap", "ArmourCool Granular MP", "", "Torchflex TP-250-Cap", "Torchflex TP-250-Cap/5 mm", "Torchflex TP-180-Cap", "ArmourCool Granular TP", heat sealed or adhered with hot roofing asphalt.

Surfacing: — River bottom stone (1/2 to 2-1/2 in. diameter) at 900 lbs/sq minimum.

2. Deck: C-15/32

Incline: 2

Vapor Barrier (Optional): — Any vapor barrier or red rosin paper, not UL Classified.

Barrier Board: — 1/4 in. (minimum) Georgia-Pacific Gypsum LLC ""DensDeck® Roofboard" or "DensDeck Prime® Roofboard" with 6 in. offset joints from the plywood joints.

Insulation (Optional): — Polyisocyanurate, fiberglass, perlite, wood fiberboard, (polystyrene covered with perlite or wood fiberboard), any thickness.

Base Sheet (Optional): — Type G2 or "No. 25 Glass Base".

Ply Sheet: — Three or more plies Type 15 felt, Type G1 or Type G2, hot mopped.

Surfacing: — Hot roofing asphalt and gravel.

3. Deck: NC

Incline: 2

Vapor Barrier (Optional): — Any vapor barrier or red rosin paper, not UL Classified.

Insulation (Optional): — Polyisocyanurate, fiberglass, perlite wood fiberboard (polystyrene covered with wood fiberboard or perlite), any thickness.

Base Sheet (Optional): — Type G2 or "No. 25 Glass Base".

Ply Sheet: — Three or more plies Type 15, G1 or Type G2, hot mopped.

Surfacing: — Hot roofing asphalt and gravel.

4. Deck: NC **Incline: 2**

Vapor Barrier (Optional): — Any vapor barrier or red rosin paper, not UL Classified.

Insulation (Optional): — Polyisocyanurate, glass fiber, perlite, wood fiber, (polystyrene covered with wood fiberboard or perlite), any thickness, mechanically fastened or adhered with hot roofing asphalt.

Base Sheet: — Torchflex TF-95-FF-Base", "Torchflex TF-95-FF-2.2", "Torchflex TF-95-SF-Base", "Modiflex MF-95-FS-Base", "Modiflex MF-95-SS-Base", "Fast-N-Stick-180-Base", "Torchflex TP-180-FF-Base", "Torchflex TP-180-SF-Base", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Modiflex MP-180-FS-Base", "Modiflex MP-180-FS-Base 3 mm", "Torchflex TP-180-SF-Base 3 mm", "Modiflex MP-180-FS-Base 3.5 mm", "Torchflex TP-180-SF-Base 3.5mm", "Modiflex MP-180-SS-Base", mechanically fastened, adhered with hot roofing asphalt or heat fused.

Membrane: — "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF-2.2", "Torchflex TF-95-SF-Base", "Modiflex MF-95-FS-Base", "Modiflex MF-95-SS-Base", "Fast-N-Stick-180-Base", "Torchflex TP-180-FF-Base", "Torchflex TP-180-SF-Base", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Modiflex MP-180-FS-Base", "Modiflex MP-180-FS-Base 3 mm", "Torchflex TP-180-SF-Base 3 mm", "Modiflex MP-180-FS-Base 3.5 mm", "Torchflex TP-180-SF-Base 3.5mm", "Modiflex MP-180-SS-Base", mechanically fastened, adhered with hot roofing asphalt or heat fused.

Surfacing: — River bottom stone (1/2 to 2-1/2 in. diameter) at 900 lbs/sq minimum.

5. Deck: NC **Incline: 3**

Membrane: — Any UL Classified membrane, adhered with "Cold Gold Field Adhesive".

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

Class A - Fully Adhered

1. Deck: NC **Incline: 1/2**

Vapor Barrier (Optional): — Any vapor barrier or red rosin paper, not UL Classified.

Insulation (Optional): — Polyisocyanurate, glass fiber, perlite, wood fiber, (polystyrene covered with wood fiberboard or perlite) or rockwood, any thickness, any combination, mechanically fastened or adhered with hot roofing asphalt.

Base Sheet: — Type G2, "Torchflex TF-95-FF-Base", "Modiflex MF-95-FS Base Double Selvage 2.0", "Torchflex TF-95-FF-2.2", "Torchflex TF-95-SF-Base", "Modiflex MF-95-FS-Base", "Modiflex MF-95-SS-Base", "Torchflex TP-180-FF-Base", "Torchflex TP-180-SF-Base", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Modiflex MP-180-FS-Base", "Modiflex MP-180-FS-Base 3 mm", "Torchflex TP-180-SF-Base 3 mm", "Modiflex MP-180-FS-Base 3.5 mm", "Torchflex TP-180-SF-Base 3.5mm", "Modiflex MP-180-SS-Base", mechanically fastened, adhered with hot roofing asphalt or heat fused.

Membrane: — "Armourplast Granular APP", "Modiflex MP-250-Cap", "Modiflex MP-180-Cap", "ArmourCool Granular MP", "", "Torchflex TP-250-Cap", "Torchflex TP-250-Cap/5 mm", "Torchflex TP-180-Cap", "ArmourCool Granular TP", heat sealed or adhered with hot roofing asphalt.

Surfacing: — Hot roofing asphalt and gravel.

2. **Deck:** NC **Incline:** 1-1/2

Vapor Barrier (Optional): — Not UL Classified or Armourgard Vapor Retardant loose-laid or adhered to the roof deck with either Type 2 or 3 hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Insulation (Optional): — Perlite, wood fiberboard, fiberglass or polyisocyanurate, any thickness.

Coverboard (Optional): — 1/8 in. or 3/16 in. thick "Protectoboard", Hal Industries, Inc. "PERMA-BOARD" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or any combination.

Base Sheet: — One or more plies Type G1 or Type G2, hot mopped or mechanically fastened, or one ply of "Fast-N-Stick-180-Base", "Modiflex MP-180-SS-Base" or "Modiflex MF-95-SS-Base", "Modiflex MP-180-FS-Base" or Modiflex MF-95-FS-Base", hot mopped or mechanically fastened, or one ply of "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF-2.2", "Torchflex TF-95-SF-Base", or "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", or "Torchflex TP-180-FF-Base", "Torchflex TP-180-SF-Base", heat fused or mechanically fastened.

Ply Sheet (Optional): — One ply "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF-2.2", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", or "Torchflex TP-180-FF-Base", heat fused, or one ply of "Modiflex MP-180-FS-Base" or "Modiflex MF-95-FS-Base", "Torchflex TP-180-SF-Base", hot mopped.

Membrane: — "Armourplast Granular APP", heat fused.

Surfacing: — Karnak "97AF" at 1-1/2 gal/sq.

3. **Deleted.**

4. **Deleted.**

5. **Deck:** NC **Incline:** 1/2

Vapor Barrier (Optional): — Not UL Classified, Red Rosin, vapor retarder.

Insulation (Optional): — 1.5 in. (minimum) polyisocyanurate with 7/16 in. (minimum) coverboard of wood fiber, perlite or fiberglass or 1/8 in. or 3/16 in. thick "Protectoboard", Hal Industries, Inc. "PERMA-BOARD" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or any combination.

Base Sheet: — One or more plies Type G2 ply sheet, hot mopped or mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1 hot mopped or "Armourplast Classic", heat fused.

Membrane: — "Armourplast Granular APP", heat fused

6. **Deleted.**

7. **Deck:** NC **Incline:** 1/4

Vapor Barrier (Optional): — Not UL Classified, loose-laid or adhered to the roof deck with either hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Insulation (Optional): — Polyisocyanurate, perlite, fiberglass, wood fiber or polystyrene (covered with wood fiber or perlite), any thickness, any combination, mechanically attached or hot asphalt attached.

Coverboard (Optional): — 1/8 in. or 3/16 in. thick "Protectoboard" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or any combination.

Base Sheet: — One ply Type G1 or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1 or G2, hot mopped.

Membrane: — One or more plies of the membranes referenced in the table shown above .

8. Deck: NC **Incline:** 1/4

Vapor Barrier (Optional): — Not UL Classified, loose-laid or adhered to the roof deck with either hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Insulation (Optional): — Polyisocyanurate, perlite, fiberglass, wood fiber or polystyrene (covered with wood fiber or perlite), any thickness, any combination, mechanically attached or hot asphalt attached.

Coverboard (Optional): — 1/8 in. or 3/16 in. thick "Protectoboard" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or any combination.

Base Sheet: — One or more plies Type G1 or Type G2, or one ply of "Fast-N-Stick-180-Base", "Modiflex MP-180-SS-Base" or Modiflex MF-95-SS-Base", "Modiflex MP-180-FS-Base" or Modiflex MF-95-FS-Base", hot mopped or mechanically fastened, or "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF-2.2", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TP-180-FF-Base", heat fused or mechanically fastened.

Ply Sheet (Optional): — One ply "Modiflex MP-180-SS-Base", "Modiflex MP-180-FS-Base", "Modiflex MF-95-SS-Base", "Modiflex MF-95-FS-Base", hot mopped or "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF 2.2", "Torchflex TF-95-SF-base", "Torchflex TP-180-SF-Base", "Torchflex TP-180-FF-Base", heat fused.

Membrane: — One or more plies of the membranes referenced in the table shown above. or more plies of the membranes referenced in the table shown above.

9. Deck: NC **Incline:** 1/4

Vapor Barrier (Optional): — Not UL Classified, loose-laid or adhered to the roof deck with either hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Insulation (Optional): — Polyisocyanurate, perlite, fiberglass, wood fiber or polystyrene (covered with wood fiber or perlite), any thickness, any combination, mechanically attached or hot asphalt attached.

Coverboard (Optional): — 1/8 in. or 3/16 in. thick "Protectoboard" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or any combination.

Base Sheet: — One ply "Modiflex MP-180-SS-Base", "Modiflex MP-180-FS-Base", "Modiflex MF-95-SS-Base", "Modiflex MF-95-FS-Base", or "Fast-N-Stick-180-Base", hot mopped or mechanically fastened or "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF 2.2", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", "Torchflex TP-180-FF-Base", heat fused or mechanically fastened.

Membrane: — One or more plies of the membranes referenced in the table shown above.

10. Deck: NC **Incline:** 1-1/2

Vapor Barrier (Optional): — Not UL Classified, loose-laid or adhered to the roof deck with either hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Insulation (Optional): — Polyisocyanurate, perlite, fiberglass, wood fiber or polystyrene (covered with wood fiber or perlite), any thickness, any combination, mechanically attached or hot asphalt attached.

Coverboard (Optional): — 1/8 in. or 3/16 in. thick "Protectoboard" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or any combination.

Base Sheet: — One ply Type G1 or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1 or Type G2, hot mopped.

Membrane: — One or more plies of the membranes referenced in the table shown above.

11. **Deck:** NC

Incline: 1-1/2

Vapor Barrier (Optional): — Not UL Classified, loose-laid or adhered to the roof deck with either hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Insulation (Optional): — Polyisocyanurate, perlite, fiberglass, wood fiber or polystyrene (covered with wood fiber or perlite), any thickness, any combination, mechanically attached or hot asphalt attached.

Coverboard (Optional): — 1/8 in. or 3/16 in. thick "Protectoboard" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or any combination.

Base Sheet: — One or more plies Type G1 or Type G2, or one ply of "Fast-N-Stick-180-Base", "Modiflex MP-180-SS-Base" or Modiflex MF-95-SS-Base", "Modiflex MP-180-FS-Base" or Modiflex MF-95-FS-Base", hot mopped or mechanically fastened, or "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF-2.2", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TP-180-FF-Base", heat fused or mechanically fastened.

Ply Sheet (Optional): — One ply "Modiflex MP-180-SS-Base", "Modiflex MP-180-FS-Base", "Modiflex MF-95-SS-Base", "Modiflex MF-95-FS-Base", or "Fast-N-Stick-180-Base", hot mopped or "Torchflex TF-95-FF-Base", "Torchflex TF-95-FF 2.2", "Torchflex TP-180-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", heat fused.

Membrane: — One or more plies of the membranes referenced in the table shown above.

12. **Deleted.**

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

Incline: 2-1/2

Base Sheet: — "Modiflex MP-180-SS-Base", "Modiflex MF-95-SS-Base", "Modiflex MP-180-FS-Base", "Modiflex MF-95-FS-Base", or "Fast-N-Stick-180-Base", hot-mopped or mechanically fastened, or "Torchflex TF-95-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TP-180-FF-Base", heat-fused or mechanically fastened.

Membrane: — "Prevent Premium MP250 CAP", "Prevent Premium MP180CAP", "ArmourCool Granular Prevent Premium MP", "Prevent Premium TP250CAP", "Prevent Premium TP180CAP", "ArmourCool Granular Prevent Premium TP" or "Prevent Premium ArmourCool Granular" hot-mopped or heat-fused.

14. **Deck:** NC

Incline: 2-1/2

Insulation (Optional): — Polyisocyanurate, glass fiber, perlite, wood fiber, any thickness.

Base Sheet: — "Modiflex MP-180-SS-Base", "Modiflex MF-95-SS-Base", "Modiflex MP-180-FS-Base", "Modiflex MF-95-FS-Base", or "Fast-N-Stick-180-Base", hot-mopped or mechanically fastened, or "Torchflex TF-95-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TP-180-FF-Base", heat-fused or mechanically fastened.

Membrane: — "Prevent Premium MP250CAP", "Prevent Premium MP180CAP", "ArmourCool Granular Prevent Premium MP", "Prevent Premium TP250CAP", "Prevent Premium TP180CAP", "ArmourCool Granular Prevent Premium TP" or "Prevent Premium ArmourCool Granular" hot-mopped or heat-fused.

15. **Deck:** NC

Incline: 1-1/2

Insulation (Optional): — Polyisocyanurate, glass fiber, perlite, wood fiber, any thickness.

Base Sheet: — "Modiflex MP-180-SS-Base", "Modiflex MF-95-SS-Base", "Modiflex MP-180-FS-Base", "Modiflex MF-95-FS-Base", or "Fast-N-Stick-180-Base", hot-mopped or mechanically fastened, or "Torchflex TF-95-FF-Base", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TP-180-FF-Base", heat-fused or mechanically fastened.

Membrane: — "Prevent MP250CAP", "Prevent MP180CAP", "ArmourCool Granular Prevent MP", "Prevent TP250CAP", "Prevent TP250CAP/5 mm", "Prevent TP180CAP", or "ArmourCool Granular Prevent TP" hot-mopped or heat-fused.

Class B - Fully Adhered

1. **Deleted.**

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

Incline: 1/2

Vapor Barrier (Optional): — Not UL Classified or Armourgard Vapor Retardant loose-laid or adhered to the roof deck with hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Coverboard (Optional): — 1/8 in. or 3/16 in. thick IKO Protectoboard.

Base Sheet: — Type G2, mechanically fastened.

Ply Sheet: — Type G2, hot mopped.

Membrane: — "Armourplast Granular APP", heat fused.

Surfacing: — Karnak "97AF" at 1-1/2 gal/sq.

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

Incline: 1/2

Vapor Barrier (Optional): — Not UL Classified, Red Rosin, vapor retarder.

Insulation (Optional): — 1.5 in. (minimum) polyisocyanurate with 7/16 in. (minimum) coverboard of wood fiber, perlite or fiberglass or 1/8 in. or 3/16 in. thick "Protectoboard", Hal Industries, Inc. "PERMA-BOARD" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or any combination.

Base Sheet: — One or more plies Type G2 ply sheet, hot mopped or mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1 hot mopped or "Armourplast Classic", heat fused.

Membrane: — "Armourplast Granular APP", heat fused.

Surfacing: — "Karnak No. 97AF" at the rate of 1 gal/sq.

4. **Deleted.**

5. **Deleted.**

6. **Deleted.**

7. **Deleted.**

8. **Deleted.**

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

Incline: 2-1/2

Base Sheet: — "Modiflex MP-180-SS-Base", "Modiflex MF-95-SS-Base", "Modiflex MP-180-FS", "Modiflex MF-95-FS", or "Fast-N-Stick-180-Base", hot-mopped or mechanically fastened, or "Torchflex TF-95-FF", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TP-180-FF-Base", heat-fused or mechanically fastened.

Membrane: — "Prevent Premium MP250 CAP", "Prevent Premium MP180CAP", "ArmourCool Granular Prevent Premium MP", "Prevent Premium TP250CAP", "Prevent Premium TP180CAP", "ArmourCool Granular Prevent Premium TP" or "Prevent Premium ArmourCool Granular" hot-mopped or heat-fused.

10. **Deck:** NC

Incline: 2-1/2

Insulation (Optional): — Polyisocyanurate, glass fiber, perlite, wood fiber, any thickness.

Base Sheet: — "Modiflex MP-180-SS-Base", "Modiflex MF-95-SS-Base", "Modiflex MP-180-FS", "Modiflex MF-95-FS", or "Fast-N-Stick-180-Base", hot-mopped or mechanically fastened, or "Torchflex TF-95-FF", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TP-180-FF-Base", heat-fused or mechanically fastened.

Membrane: — "Prevent Premium MP250CAP", "Prevent Premium MP180CAP", "ArmourCool Granular Prevent Premium MP", "Prevent Premium TP250CAP", "Prevent Premium TP180CAP", "ArmourCool Granular Prevent Premium TP" or "Prevent Premium ArmourCool Granular" hot-mopped or heat-fused.

Class C - Fully Adhered

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

Incline: 3

Vapor Retarder (Optional): — Not UL Classified, Red Rosin, vapor retarder or Armourgard Vapour Retardant loose-laid or adhered to the roof deck with either Type 2 or 3 hot mopping asphalt at a rate of 25 lbs. per square or UL Classified vapor retarder adhesive.

Barrier Board (Optional): — Gypsum board, any thickness.

Insulation (Optional): — Polyisocyanurate, wood fiber, perlite, rockwool or polystyrene, any thickness, any combinations.

Coverboard (Optional): — — "Protectoboard" 1/8 in. or 3/16 in., Hal Industries, Inc. "PERMA BOARD", Western Louiseville Fiberboard Inc "Western Louiseville fiberboard", minimum 7/16 inch thick or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or "DensDeck Prime® Roofboard", or hot mopped or mechanically fastened.

Base Sheet: — One or more plies Type G1 or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1, hot mopped.

Membrane: — "", "Modiflex MP-180-Cap", "ArmourCool Granular MP" or "Modiflex MP-250-Cap", hot mopped or "Torchflex TP-250-Cap", "Torchflex TP-250-Cap/5 mm", "Torchflex TP-180-Cap", "ArmourCool Granular TP", heat fused.

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

Incline: 3

Vapor Barrier (Optional): — Not UL Classified, Red Rosin, vapor retarder or "Armourgard Vapour Retardant" loose-laid or adhered to the roof deck with either Type 2 or 3, hot mopping asphalt at a rate of 25-lbs./100-ft.² or UL Classified vapor retarder adhesive.

Barrier Board (Optional): — Gypsum board, any thickness.

Insulation: — Polyisocyanurate, wood fiber, perlite, rockwool or polystyrene, any thickness, any combinations.

Coverboard (Optional): — "Protectoboard" 1/8 in. or 3/16 in., Hal Industries, Inc. "PERMA BOARD", Western Louiseville Fiberboard Inc "Western Louiseville fiberboard", minimum 7/16

in.thick or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC. "DensDeck® Roofboard", "DensDeck Prime® Roofboard" , hot mopped or mechanically fastened.

Base Sheet (Optional): — One or more plies Type G1 or Type G2, hot mopped or mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1, hot mopped.

Membrane: — "", "Modiflex MP-180-CAP", "ArmourCool Granular MP", "Modiflex MP-250-Cap", hot mopped or "Torchflex TP-250-Cap", "Torchflex TP-250-Cap/5 mm", "Torchflex TP-180-Cap", "ArmourCool Granular TP", heat fused.

3. **Deck:** NC **Incline:** 1

Membrane: — "Roof-Fast Cap" self-adhered

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

Membrane: — "ArmourStick HD Cap", self-adhered.

5. **Deleted.**

6. **Deck:** NC **Incline:** 3

Vapor Barrier (Optional): — Not UL Classified loose-laid or adhered to the roof deck with either Type 2, 3 or 4, hot mopping asphalt at a rate of 25-lbs./100-ft.² UL Classified vapor retarder adhesive.

Barrier Board (Optional): — Gypsum board, any thickness.

Insulation: — Polyisocyanurate with kraft/glass or foil facer, perlite, fiberglass, polyurethane or wood fiber, mechanically fastened or adhered with hot asphalt, any thickness, any combination.

Coverboard (Optional): — "Protectoboard", Hal Industries, Inc. "PERMA-BOARD" or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" with the option to tape the joints between the boards, minimum 7/16 in. wood fiber, or minimum 3/4 in. perlite adhered with hot asphalt or mechanically fastened.

Base Sheet: — One ply "Modiflex MP-180-SS-Base", "Modiflex MP-180-FS-Base", "Modiflex MF-95-2.2", "Modiflex MF-95-FS-Base", "Modiflex MF-95-SS-Base", or "Fast-N-Stick-180-Base", hot mopped or mechanically fastened with "Torchflex TP-180-FF-Base", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", "Torchflex TF-95-FF-Base", heat fused, "Armorbond 180", "Armourbond Flash Sand", "Armorbond Flash", "Armourvent" or "ArmourStick HD Base"s, self-adhered.

Ply Sheet (Optional): — One ply "Modiflex MP-180-FS-Base", "Modiflex MF-95-2.2" or "Modiflex MF-95-FS-Base", hot mopped or "Torchflex TP-180-FF-Base", "Torchflex TP-HD-FF-Base", "Torchflex Ultra TP-HD-FF-Base", "Torchflex TF-95-SF-Base", "Torchflex TP-180-SF-Base", or "Torchflex TF-95-FF-Base" heat fused.

Membrane: — One ply "Torchflex TP-180-Cap", "ArmourCool Granular TP", or "Torchflex TP-250-Cap" heat fused to the base or ply sheet.

7. **Deck:** C 15/32 **Incline:** 3

Vapor Barrier (Optional): — Not UL Classified loose-laid or adhered to the roof deck with hot mopping asphalt at a rate of 25-lbs./100-ft.² or UL Classified vapor retarder adhesive or red rosin.

Barrier Board (Optional): — Gypsum board, any thickness.

Insulation (Optional): — Polyisocyanurate, wood fiberboard, rockwool, perlite or polystyrene (covered with wood fiber or perlite), 1/8 in. or 3/16 in. "Protectoboard" or Hal Industries, Inc. "PERMA-BOARD", any thickness, any combination, mechanically attached or adhered.

Overlayment (Optional): — 7/16 in. minimum wood fiber, 1/8 in. or 3/16 in. "Protectoboard" or Hal Industries, Inc. "PERMA-BOARD" hot mopped, urethane adhesive adhered, or mechanically fastened.

Base Sheet: — One or more plies "Fast-N-Stick-180-Base", "Modiflex MF-95-FS Base", "Modiflex MF-95-SS Base", "Modiflex MP-180-SS-Base", "Modiflex MP-180-FS-Base", Type G1 or Type G2 cold adhesive applied with Karnak 81AF SBS Cold Adhesive, Monsey-Bakor MBA Gold Adhesive, Henry Company #403 Cold-Ap Spray Grade Adhesive, or Henry Company #902 Permanent Bond Adhesive at a full coverage rate of one and one-half gallons per one hundred square feet or spot attached at a rate of sixty spots per one hundred square feet, with spots being four inches to six inches in diameter, for the first layer and either cold adhesive or heat fused for successive layers. As an option to the above, the first ply of base sheet may be mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G2 cold adhesive applied or heat fused.

Membrane: — One ply "Modiflex MP-180-Cap", "ArmourCool Granular MP", "Modiflex MP-250-Cap", cold adhesive applied or "Torchflex TP-180-Cap", "ArmourCool Granular TP", "Torchflex TP-250-Cap".

8. Deck: NC

Incline: 1

Vapor Barrier (Optional): — Not UL Classified loose-laid or adhered to the roof deck with hot asphalt at 25 lbs/ft² or UL Classified retarder adhesive or red rosin paper.

Barrier Board (Optional): — Gypsum board, any thickness.

Insulation: — Polyisocyanurate, woodfiber board, rockwool, perlite, polystyrene/wood fiberboard or polystyrene/perlite, 1/8 in. or 3/16 in. thick "Protectoboard" or Hal Industries, Inc. "PERMA-BOARD", any thickness, any combination, mechanically fastened or fully adhered.

Overlayment: — 1/8 in. or 3/16 in. thick "Protectoboard" or Hal Industries, Inc. "PERMA-BOARD" (asphalt primed), 1/4 in. minimum or minimum 1/4 in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" (asphalt primed) or "DensDeck Prime®" hot mopped, urethane insulation adhesive or mechanically fastened. Base Sheet: — One ply "Roof-Fast-Base" self-adhered.

Base Sheet: — One ply "Roof-Fast-95-Base" self-adhered.

Membrane: — "ArmourStick HD Cap", self-adhered.

9. Deck: C-15/32

Incline: 1

Base Sheet: — One ply "Roof-Fast-Base" self-adhered.

Membrane: — "ArmourStick HD Cap", self-adhered.

Class A - Fully Adhered (TPO)

"IKO Innovi TPO" may be primed with "InnoviPrime TPO Primer" or "InnoviPrime TPO Primer LVOC" and may be covered with "InnoviFlash TPO Seam Tape", "InnoviFlash TPO Cover Tape", "InnoviFlash YELLOW TPO SAFETY STRIP", or "InnoviFlash TPO Reinforced Perimeter Strip (RPS)". The TPO membrane joint edges are sealed with a nominal 1/4 in (6.4 mm) bead of "InnoviSeal TPO General Purpose Sealant".

1. Deck: C-15/32

Incline: 1-1/2

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

Barrier Board: — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. "SECUROCK® Glass-Mat Roof

Board "(Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — "IKO Innovi TPO" 45 - 80 mils, adhered with "InnoviBond Membrane Adhesive", at an application rate 40 - 60 sq. ft./gal. or "InnoviBond Water Based Bonding Adhesive" at an application rate of 100 - 120 sq. ft./gal.

2. Deck: NC **Incline: 1-1/2**

Barrier Board (Optional): — — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. "SECUROCK® Gypsum-Fiber Roof Board" (Type FRX-G), or "SECUROCK® Glass-Mat Roof Board "(Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — "IKO Innovi TPO" 45 - 80 mils, adhered with "InnoviBond Membrane Adhesive", at an application rate 40 - 60 sq. ft./gal. or "InnoviBond Water Based Bonding Adhesive" at an application rate of 100 - 120 sq. ft./gal.

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

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

Barrier Board: — — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. "SECUROCK® Glass-Mat Roof Board "(Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — "IKO Innovi TPO" 45 - 80 mils, adhered with "InnoviBond Membrane Adhesive LVOC", at an application rate 40 - 60 sq. ft./gal.

4. Deck: NC **Incline: 1**

Barrier Board (Optional): — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. "SECUROCK® Gypsum-Fiber Roof Board" (Type FRX-G), or "SECUROCK® Glass-Mat Roof Board "(Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — "IKO Innovi TPO" 45 - 80 mils, adhered with "InnoviBond Membrane Adhesive LVOC", at an application rate 40 - 60 sq. ft./gal.

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

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

Barrier Board: — — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. "SECUROCK® Glass-Mat Roof Board "(Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — "IKO Innovi TPO" 45 - 80 mils, adhered with "InnoviBond Membrane Adhesive SPR" at an application rate 1000 ft²/45 lb. canister.

6. Deck: NC **Incline: 2**

Barrier Board (Optional): — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. "SECUROCK® Gypsum-Fiber Roof Board" (Type FRX-G), or "SECUROCK® Glass-Mat Roof Board "(Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — "IKO Innovi TPO" 45 - 80 mils, adhered with "InnoviBond Membrane Adhesive SPR" at an application rate 1000 ft²/45 lb. canister.

7. Deck: NC

Incline: 1/8

Insulation (Optional): — Min. 1/2 in. "IKOTerm CoverShield" over "IKOTerm", "IKOTerm III", "IKOTerm III Tapered 20 PSI", or "IKOTerm Tapered", or "IKOTerm-A", or "IKOTerm-A 25 PSI", or "IKOTerm-A Tapered", or "IKOTerm-A Tapered 25 PSI", or "IKOTerm-A III", "IKOTerm-A III 25 PSI", or "IKOTerm-A III Tapered", or "IKOTerm-A III Tapered 20 PSI", or "IKOTerm-A CoverShield" mechanically fastened, any thickness.

Membrane: — "IKO Innovati TPO" 45 - 80 mils, adhered with: "InnoviBond Membrane Adhesive" or "InnoviBond Membrane Adhesive LVOC" at an application rate 40 - 60 sq. ft./gal., or "InnoviBond Water Based Bonding Adhesive" at an application rate of 100 - 120 sq. ft./gal., or "InnoviBond Membrane Adhesive SPR" at an application rate 1000 ft²/45 lb. canister.

8. Deck: NC

Incline: 1/8

Insulation (Optional): — "IKOTerm", "IKOTerm III", "IKOTerm III Tapered 20 PSI", or "IKOTerm Tapered", or "IKOTerm-A", or "IKOTerm-A 25 PSI", or "IKOTerm-A Tapered", or "IKOTerm-A Tapered 25 PSI", or "IKOTerm-A III", "IKOTerm-A III 25 PSI", or "IKOTerm-A III Tapered", or "IKOTerm-A III Tapered 20 PSI", or "IKOTerm-A CoverShield" mechanically fastened, any thickness.

Membrane: — "IKO Innovati TPO" 45 - 80 mils, adhered with: "InnoviBond Membrane Adhesive" at an application rate 40 - 60 sq. ft./gal., or "InnoviBond Water Based Bonding Adhesive" at an application rate of 100 - 120 sq. ft./gal., or "InnoviBond Membrane Adhesive SPR" at an application rate 1000 ft²/45 lb. canister.

9. Deck: C-15/32

Incline: 1/8

Insulation: — Min. 1-1/2 in. thick "IKOTerm III", mechanically fastened, all insulation joints must be staggered a minimum of 12-in. from the plywood deck joints.

Cover Board (Optional): — Min. 1/2 in. "IKOTerm CoverShield", mechanically fastened

Membrane: — "IKO Innovati TPO" 45 - 80 mils, adhered with: "InnoviBond Membrane Adhesive" or "InnoviBond Membrane Adhesive LVOC" at an application rate 40 - 60 sq. ft./gal., or "InnoviBond Water Based Bonding Adhesive" at an application rate of 100 - 120 sq. ft./gal., or "InnoviBond Membrane Adhesive SPR" at an application rate 1000 ft² /45 lb. canister.

Class B - Fully Adhered (TPO)

1. Deck: C-15/32

Incline: 1/4

Insulation: — Min. 1-1/2 in. thick "IKOTerm III", mechanically fastened, all insulation joints must be staggered a minimum of 12-in. from the plywood deck joints.

Cover Board (Optional): — Min. 1/2 in. "IKOTerm CoverShield", mechanically fastened

Membrane: — "IKO Innovati TPO" 45 - 80 mils, adhered with: "InnoviBond Membrane Adhesive" or "InnoviBond Membrane Adhesive LVOC" at an application rate 40 - 60 sq. ft./gal., or "InnoviBond Water Based Bonding Adhesive" at an application rate of 100 - 120 sq. ft./gal., or "InnoviBond Membrane Adhesive SPR" at an application rate 1000 ft² /45 lb. canister.

Class A - Mechanically Fastened (TPO)

"IKO Innovi TPO" may be primed with "InnoviPrime TPO Primer" or "InnoviPrime TPO Primer LVOC" and may be covered with "InnoviFlash TPO Seam Tape", "InnoviFlash TPO Cover Tape", "InnoviFlash YELLOW TPO SAFETY STRIP", or "InnoviFlash TPO Reinforced Perimeter Strip (RPS)". The TPO membrane joint edges are sealed with a nominal 1/4 in (6.4 mm) bead of "InnoviSeal TPO General Purpose Sealant".

1. Deck: NC

Incline: 1/2

Insulation (Optional): — "IKOTerm", "IKOTerm III", "IKOTerm III Tapered 20 PSI", or "IKOTerm Tapered", or "IKOTerm-A", or "IKOTerm-A 25 PSI", or "IKOTerm-A Tapered", or "IKOTerm-A Tapered 25 PSI", or "IKOTerm-A III", "IKOTerm-A III 25 PSI", or "IKOTerm-A III Tapered", or "IKOTerm-A III Tapered 20 PSI", or "IKOTerm-A CoverShield" mechanically fastened, any thickness.

Membrane: — "IKO Innovi TPO" 45 - 80 mils, mechanically fastened

2. Deck: NC

Incline: 3/4

Insulation (Optional): — Min. 1/2 in. "IKOTerm CoverShield" over "IKOTerm", "IKOTerm III", "IKOTerm III Tapered 20 PSI", or "IKOTerm Tapered", or "IKOTerm-A", or "IKOTerm-A 25 PSI", or "IKOTerm-A Tapered", or "IKOTerm-A Tapered 25 PSI", or "IKOTerm-A III", "IKOTerm-A III 25 PSI", or "IKOTerm-A III Tapered", or "IKOTerm-A III Tapered 20 PSI", or "IKOTerm-A CoverShield" mechanically fastened, any thickness.

Membrane: — "IKO Innovi TPO" 45 - 80 mils, mechanically fastened

3. Deck: C-15/32

Incline: 3

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

Barrier Board: — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. "SECUROCK® Glass-Mat Roof Board" (Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — "IKO Innovi TPO" 45 - 80 mils, mechanically fastened

4. Deck: NC

Incline: 3

Barrier Board (Optional): — — Min. 1/4-in. thick Georgia-Pacific Gypsum Corp. "DensDeck® Roofboard", , or "DensDeck Prime® Roofboard", or United States Gypsum Co. ""SECUROCK® Gypsum-Fiber Roof Board" (Type FRX-G), or SECUROCK® Glass-Mat Roof Board "(Type SGMRX), or "SECUROCK® Coated Glass Mat Roof Board" (Type SGMRX), or National Gypsum "DEXcell Glass Mat Roof Board", or "DEXcell FA Glass Mat Roof Board".

Membrane: — : "IKO Innovi TPO" 45 - 80 mils, mechanically fastened

5. Deck: C-15/32

Incline: 1/2

Insulation: — Min. 1-1/2 in. thick "IKOTerm III", mechanically fastened, all insulation joints must be staggered a minimum of 12-in. from the plywood deck joints.

Cover Board (Optional): — Min. 1/2 in. "IKOTerm CoverShield", mechanically fastened.

Membrane: — "IKO Innovi TPO" 45 - 80 mils, mechanically fastened or induction bonded plates.

6. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — "IKOTerm", "IKOTerm III", or "IKOTerm Tapered" mechanically fastened, any thickness.

Cover Board: — Min. 1/2 in. "IKOTherm CoverShield", mechanically fastened, all insulation joints must be staggered a minimum of 12-in. from the plywood deck joints.

Membrane: — "IKO Innovi TPO" 45 - 80 mils, mechanically fastened or induction bonded plates.

Class A, B or C (See Note)

1. **Deck:** NC (See Note 1)

Incline: See Note 1

Insulation: — Any UL Classified, any thickness, adhered with "IKO Millennium Adhesive".

Membrane: — Any UL Classified modified bitumen system, BUR system or CPE, CSM, CSPE, EPDM, NBP, PIB, PVC, TPO or TRE membrane system suitable for use with any roof insulation.

Note 1: Classification (A, B or C) and maximum incline will be the same as that of the Classified Roof covering System (TGFU) currently limited to noncombustible roof deck.

Last Updated on 2024-11-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

YOUR QUESTIONS, ANSWERED.

UL LLC ©2024.