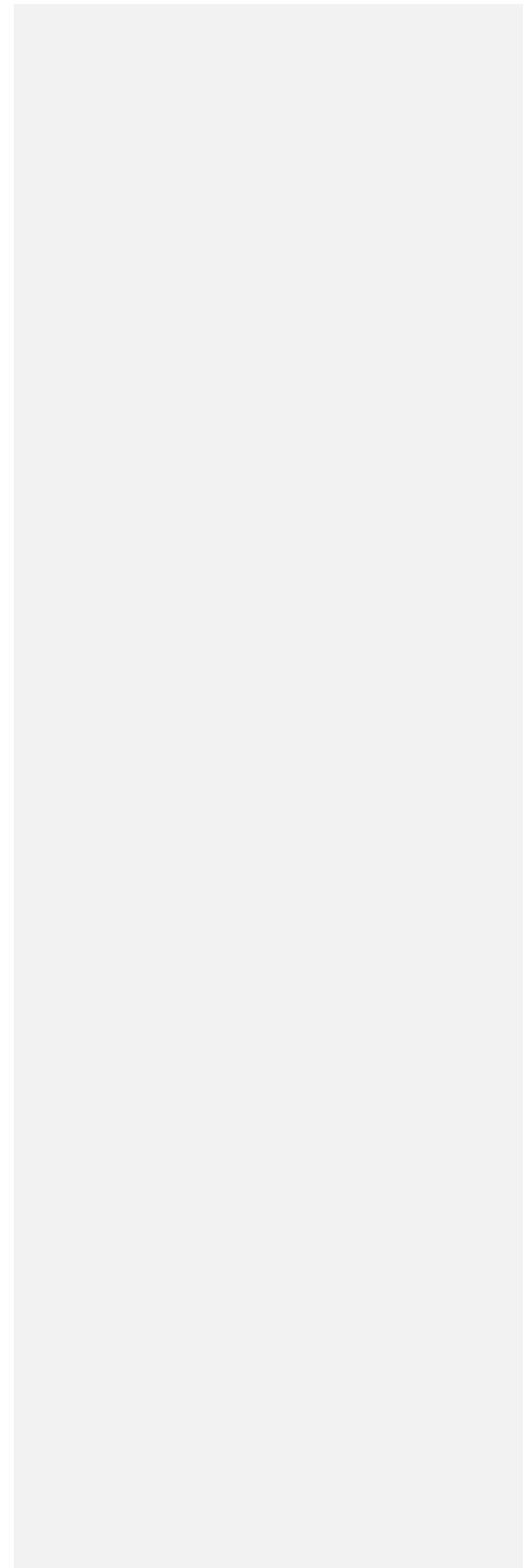


**APPENDIX I – FIRE CLASSIFICATION**

See attached ICC-ES Report ESR-2831 *Table 2 Adhered Roof Covering Systems* and *Table 3 Mechanically Fastened Roof Covering Systems*



SYSTEM NO.	ROOF CLASS	DECK <sup>2</sup>	MAX. ROOF SLOPE	INSULATION <sup>1</sup>	BARRIER OR COVER BD./ BASE/PLY SHEET	MEMBRANE
1	A	Noncombustible	1/4:12	(Optional) UL-classified polyisocyanurate, any thickness	1/2-inch thick "ISOGARD HD"	UltraPly TPO
2	A	Noncombustible	1/4:12	(Optional) Min. 1-inch to max. 4-inch-thick Firestone "ISO 95 + GL"	---	UltraPly TPO
3	A	Combustible	2 1/2:12	1 1/2-inch-thick Firestone "ISO 95 + GL"	1/2-inch thick "DensDeck"	UltraPly TPO
4	A	Combustible	1/4:12	(Optional) Min. 1-inch to max. 4-inch-thick Firestone "ISO 95 + GL"	Min. 1-inch thick "ISOGARD HD"	UltraPly TPO
5	A	Combustible	1:12	(Optional) UL-classified foam plastic insulation, any thickness	Min. 1/4-inch thick "DensDeck", "DensDeck Prime" or "DensDeck DuraGuard"	UltraPly TPO XR
6	B	Combustible	1/4:12	(Optional) Min. 1-inch to max. 4-inch-thick Firestone "ISO 95 + GL"	1/2-inch thick "ISOGARD HD"	UltraPly TPO
7	B	Noncombustible	1:12	UL-classified foam plastic insulation, any thickness	Min. 7/16-inch thick APA-rated OSB	UltraPly TPO XR
8	B	Noncombustible	1:12	4-inch-thick Firestone "ISO 95 + GL"	Two plies, Type G2 "MB Base Sheet"	UltraPly TPO XR
9	B	Noncombustible	1:12	4-inch-thick Firestone "ISO 95 + GL"	Two plies, Type G2 "MB Base Sheet", 1 ply "APP 170", 1 ply "APP 180FR"	UltraPly TPO XR
10	Existing Class A, B or C system to retain existing classification.	Combustible	1/2:12	Existing Class A, B or C uninsulated BUR system (mineral surfaced cap sheet)	---	UltraPly TPO XR

For SI: 1 inch = 25.4 mm; 1 ft = 0.305 m; 1 psf = 47.88 Pa.

<sup>1</sup>All foam plastic insulation must be UL classified and limited to the maximum thickness in accordance with Section 5.4 of this report or the maximum thickness in accordance with this table, whichever is less.

<sup>2</sup>Wood deck must be minimum 5/32-inch-thick (11.9 mm) plywood. Steel deck must be minimum No. 22 gage galvanized steel [0.030 inch (0.76 mm)]. Concrete must have a minimum compressive strength ( $f_c$ ) of 2500 psi.

SYSTEM NO.	ROOF CLASS	DECK <sup>2</sup>	MAX. ROOF SLOPE	SLIP SHEET	INSULATION <sup>1</sup>	BARRIER OR COVER BD./ BASE/PLY SHEET	MEMBRANE
1	A	Combustible	5:12	---	1.5-inch-thick Firestone "ISO 95 + GL"	Min. 1/4-inch thick "DensDeck"	UltraPly TPO
2	A	Noncombustible	1:12	---	1.5-inch-thick ISO 95+GL	(Optional) 1/2-inch-thick ISOGARD HD	UltraPly TPO
3	A	Noncombustible	3/4:12	---	(Optional) UL-classified foam plastic insulation, any thickness.	1/2-inch thick "ISOGARD HD"	UltraPly TPO
4	A	Combustible	1:12	Two layers of GAF "VersaShield® Fire-Resistant Roof Deck Protection" or GAF "VersaShield® Solo™ Fire-Resistant Slip Sheet"	---	---	UltraPly TPO
5	B	Combustible	1/2:12	---	(Optional) Min. 1-inch to max. 4-inch-thick Firestone "ISO 95 + GL"	1/2-inch thick "ISOGARD HD"	UltraPly TPO
6	B	Combustible	1:12	One layer of GAF "VersaShield® Fire-Resistant Roof Deck Protection" or GAF "VersaShield® Solo™ Fire-Resistant Slip Sheet"	---	---	UltraPly TPO
7	B	Noncombustible	1:12	---	4-inch-thick Firestone "ISO 95 + GL"	One ply of MB Base Sheet, 1 ply of Type G3	UltraPly TPO XR

For SI: 1 inch = 25.4 mm; 1 ft = 0.305 m; 1 psf = 47.88 Pa.

<sup>1</sup>All foam plastic insulation must be UL classified and limited to the maximum thickness in accordance with Section 5.4 of this report or the maximum thickness in accordance with this table, whichever is less.

<sup>2</sup>Wood deck must be minimum 15/32-inch-thick (11.9 mm) plywood. Steel deck must be minimum No. 22 gage galvanized steel [0.030 inch (0.76 mm)]. Concrete must have a minimum compressive strength ( $f_c$ ) of 2500 psi.