



MECHANICALLY ATTACHED INSULATION, NO COVER BOARD, ADHERED MEMBRANE OVER STEEL DECK

FM CODE APPROVALS

Application Type	Assembly #	Deck Grade (KS) and Span length: "w" indicates "wide rib"	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Thickness	Insulation Securement	Insulation Securement Rate (Fastener #/ft ²)	Cover Board	Cover Board Securement	Cover Board Securement Rate (Fastener #/ft ²)	Membrane Securement	Membrane Securement Rate (FA or Ribbons:X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift (PSF)	External Fire (Class)	Hail Rating
N	219592-0-0	33 (22-16 ga./72")	-	-	-	(PE)	E3	1.5"-12"	UF	1:2.67	-	-	-	-	SA/ASSBA/LVOC	TPO/TPO SA	0.25	90	A	SH
N	254762-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:4	-	-	-	RSUA	12" OC/FA	TPO FB 100	0.50	90	A	SH
N	254765-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:2	-	-	-	RSUA	12" OC/FA	TPO FB	0.50	90	A	SH
N	361398-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:4	-	-	-	TPO WB	AD	TPO FB 115, 135	0.75	90	A	SH
N	361399-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:2	-	-	-	TPO WB	AD	TPO FB 115, 135	0.75	90	A	SH
N	372771-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:4	-	-	-	SA/ASSBA/LVOC/1168	AD	TPO/TPO R/TPO SA	0.25	90	A	SH
N	375143-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:4	-	-	-	RSUA	12" OC/FA	TPO FB	0.50	90	A	SH
N	391368-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CFG	2"-12"	UF	1:4	-	-	-	TPO WB	AD	TPO 115, 135	0.50	90	A	SH

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N	391369-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CFG	2"-12"	UF	1:4	-	-	-	ASSBA/ LVOC/ 1168	AD	TPO/ TPO R	1	90	A	SH
N	397041-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	1.5"-12"	UF	1:2.67	-	-	-	MBA	AD	TPO/TPO R	0.50	90	A	SH
N	397044-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-36"	UF	1:4	-	-	-	MBA	AD	TPO/TPO R	0.50	90	A	SH
N	410582-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	1.5"-12"	UF	1:2.67	-	-	-	HA	AD	TPO FB 150, 175	0.25	90	A	SH
N	410632-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:4	-	-	-	HA	AD	TPO FB 150, 175	0.25	90	A	SH
N	428989-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:4	-	-	-	TP UIAC/ T-P UIA	Splat	TPO FB 100	0.25	90	A	SH
N	428993-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	1.5"-2"	UF	1:2	-	-	-	TP UIAC/T-P UIA	Splat	TPO FB	0.25	90	A	SH
N	429005-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:4	-	-	-	TP UIAC/T-P UIA	Splat	TPO FB	0.25	90	A	SH

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N	429958-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 C1	1.5"-12"	UF	1:2.67	-	-	-	MBA/TPO WB	AD	TPO/TPO R	0.25	90	A	SH
N	429961-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 C1	2"-36"	UF	1:4	-	-	-	MBA	AD	TPO/TPO R	0.25	90	A	SH
N	429985-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 C1	2"-12"	UF	1:4	-	-	-	RSUA	12"/Splat	TPO FB 100	0.25	90	A	SH
N	429988-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 C1	1.5"-12"	UF	1:2	-	-	-	RSUA	12"/Splat	TPO FB	0.25	90	A	SH
N	429998-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 C1	2"-12"	UF	1:4	-	-	-	RUSA	12"/Splat	TPO FB 100	0.25	90	A	SH
N	450315-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-36"	UF	1:4	-	-	-	MBA/TPO WB	AD	TPO/TPO R	0.50	90	A	SH
N	509535-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:4	-	-	-	ASSBA	AD	TPO 115, 135	1	90	A	SH
N	509536-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:2	-	-	-	ASSBA	AD	TPO 115, 135	1	90	A	SH

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N	509541-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:4	-	-	-	ASSBA	AD	TPO 115, 135	1	90	A	SH
N	521157-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:4	-	-	-	ASSBA	AD	TPO	0.25	90	A	SH
N	521159-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:4	-	-	-	ASSBA	AD	TPO	0.25	90	A	SH
N	545118-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	1.5"-12"	UF	1:2.67	-	-	-	SA/ ASSBA/ LVOC	AD	TPO/TPO SA	0.25	90	A	SH
N	545349-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	1.5"-12"	UF	1:2.67	-	-	-	MBA/TPO WB	AD	TPO/TPO R	0.50	90	A	SH
N	545359-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	1.5"-12"	UF	1:2.67	-	-	-	HA	AD	TPO FB 150, 175	0.25	90	A	SH
N	547622-0-0	33 (22-16 ga./72")	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	1.5"-12"	UF	1:2.67	-	-	-	ASSBA	AD	TPO	0.25	90	A	SH
N	550496-0-0	33 (22-16 ga./72")	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-36"	UF	1:2.67	-	-	-	MBA/TPO WB	AD	TPO	0.50	90	A	SH

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N	386544-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 C1 CGF	2"-12"	UF	1:2.67	-	-	-	ASSBA/ LVOC/ 1168	AD	TPO/TPO SA	0.25	105	A	SH
N	410636-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:1.78	-	-	-	HA	AD	TPO FB 150, 175	0.25	105	A	SH
N	412075-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:2.67	-	-	-	MBA	AD	TPO	0.50	105	A	SH
N	391171-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:1.78	-	-	-	ASSBA/ LVOC/ 1168	AD	TPO, TPO R	0.25	120	A	SH
N	399190-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:1.78	-	-	-	MBA	AD	TPO	0.50	120	A	SH
N	429033-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:1.6	-	-	-	TP UIAC/ TP UIAC	Splat	TPO FB 115, 135	0.25	120	A	SH
N	429978-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 C1	1.5"-12"	UF	1:1.78	-	-	-	MBA	AD	TPO	0.25	120	A	SH
N	437173-0-0	33 (22-18 ga./72")w	-	-	-	-	E3	2"-12"	UF	1:1.6	-	-	-	SA	AD	TPO SA	0.25	120	A	SH

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N	437313-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:1.78	-	-	-	HA	AD	TPO FB 150, 170	0.25	120	A	SH
N	545367-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	2"-12"	UF	1:1.6	-	-	-	TP UIAC/T-P UIA	Splat	TPO 115, 135	0.25	120	A	SH
N	545372-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	SA	AD	TPO SA	0.25	120	A	SH
N	545376-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3	1.5"-12"	UF	1:1.78	-	-	-	HA	AD	TPO FB 150, 175	0.25	120	A	SH
N	386545-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:2	-	-	-	SA/ASSBA/LVOC/1168	AD	TPO/TPO SA	0.25	135	A	SH
N	412076-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:2	-	-	-	MBA	AD	TPO	0.5	135	A	SH
N	437315-0-0	33 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:2	-	-	-	TPO WB	AD	TPO	0.5	135	A	SH
N	450042-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	MBA/TPO WB	AD	TPO	0.5	135	A	SH

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N	450047-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	ASSBA/LVOC	AD	TPO	0.25	135	A	SH
N	487353-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	SA	AD	TPO SA	0.25	135	A	SH
N	521177-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	ASSBA	AD	TPO	0.25	135	A	SH
N	545599-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	MBA/TPO WB	AD	TPO	0.25	135	A	SH
N	545600-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	ASSBA/LVOC	AD	TPO	0.25	135	A	SH
N	545602-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	HA	AD	TPO FB 150, 175	0.25	135	A	SH
N	547202-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	SA	AD	TPO SA	0.25	135	A	SH
N	547625-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:2	-	-	-	ASSBA	AD	TPO	0.25	135	A	SH
N	437166-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	MBA/TPO WB	AD	TPO	0.5	150	A	SH
N	437170-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 C1	2"-12"	UF	1:1.6	-	-	-	MBA/TPO WB	AD	TPO	0.25	150	A	SH
N	437176-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	HA	AD	TPO FB 150, 175	0.25	150	A	SH

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N	443499-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	ASSBA/LVOC	AD	TPO	0.25	150	A	SH
N	487348-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	SA	AD	TPO SA	0.25	150	A	SH
N	521167-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	ASSBA	AD	TPO	0.25	150	A	SH
N	545371-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	MBA/TPO WB	AD	TPO	0.5	150	A	SH
N	545374-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	HA	AD	TPO FB 150, 175	0.25	150	A	SH
N	545387-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	ASSBA/LVOC	AD	TPO	0.25	150	A	SH
N	547201-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	SA	AD	TPO SA	0.25	150	A	SH
N	547623-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.6	-	-	-	ASSBA/LVOC	AD	TPO	0.25	150	A	SH
N	437270-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 CGF	2"-12.5"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.5	165	A	SH
N	437274-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 CGF	2"-12.5"	UF	1:1	-	-	-	SA/ASSBA/LVOC	AD	TPO/TPO SA	0.25	165	A	SH
N	443448-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 CGF	2"-12"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.5	165	A	SH

Application Type	Assembly #	Deck Grade (KS) and Span length: "w" indicates "wide rib"	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Thickness	Insulation Securement	Insulation Securement Rate (Fastener #/ft ²)	Cover Board	Cover Board Securement	Cover Board Securement Rate (Fastener #/ft ²)	Membrane Securement	Membrane Securement Rate (FA or Ribbons:X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift (PSF)	External Fire (Class)	Hail Rating
N	443449-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 C1	2"-12"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.25	165	A	SH
N	443464-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	ASSBA/LVOC	AD	TPO	0.25	165	A	SH
N	443478-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	HA	AD	TPO FB 150, 175	0.25	165	A	SH
N	487334-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	SA	AD	TPO SA	0.25	165	A	SH
N	521168-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3 CGF	2"-12.5"	UF	1:1	-	-	-	ASSBA	AD	TPO	0.25	165	A	SH
N	521174-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	ASSBA	AD	TPO	0.25	165	A	SH
N	544829-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	ASSBA	AD	TPO	0.25	165	A	SH
N	544834-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	MBA/TPO WB	AD	TPO	0.25	165	A	SH
N	544839-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	SA/ LVOC	AD	TPO	0.25	165	A	SH
N	544854-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	HA	AD	TPO FB 150, 175	0.25	165	A	SH
N	545382-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.5	165	A	SH

Application Type	Assembly #	Deck Grade (KS) and Span length: "w" indicates "wide rib"	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Thickness	Insulation Securement	Insulation Securement Rate (Fastener #/ft ²)	Cover Board	Cover Board Securement	Cover Board Securement Rate (Fastener #/ft ²)	Membrane Securement	Membrane Securement Rate (FA or Ribbons:X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift (PSF)	External Fire (Class)	Hail Rating
N	545383-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	ASSBA/LVOC	AD	TPO	0.25	165	A	SH
N	545385-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	HA	AD	TPO FB 150, 175	0.25	165	A	SH
N	547200-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	SA	AD	TPO SA	0.25	165	A	SH
N	547624-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	ABBSA	AD	TPO	0.25	165	A	SH
N	547644-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	ABBSA	AD	TPO	0.25	165	A	SH
N	547645-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	MBA/TPO WB	AD	TPO	0.5	165	A	SH
N	547646-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	SA/LVOC	AD	TPO	0.25	165	A	SH
N	547649-0-0	33 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	HA	AD	TPO FB 150, 175	0.25	165	A	SH
N	410956-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 C1	2"-12"	UF	1:1.33	-	-	-	SA	AD	TPO SA	0.25	180	A	SH
N	544819-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:1.33	-	-	-	SA	AD	TPO SA	0.25	180	A	SH



MECHANICALLY ATTACHED INSULATION, NO COVER BOARD, ADHERED MEMBRANE OVER STEEL DECK

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Application Type	Assembly #	Deck Grade (KS) and Span length: "w" indicates "wide rib"	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Thickness	Insulation Securement	Insulation Securement Rate (Fastener #/ft ²)	Cover Board	Cover Board Securement	Cover Board Securement Rate (Fastener #/ft ²)	Membrane Securement	Membrane Securement Rate (FA or Ribbons:X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift (PSF)	External Fire (Class)	Hail Rating
N	544830-0-0	40 (22-16 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	ASSBA	AD	TPO	0.25	180	A	SH
N	544835-0-0	40 (22-16 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	MBA/TPO WB	AD	TPO	0.5	180	A	SH
N	544840-0-0	40 (22-16 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	SA/LVOC	AD	TPO/TPO SA	0.25	180	A	SH
N	544855-0-0	40 (22-16 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1.33	-	-	-	HA	AD	TPO FB 150, 175	0.25	180	A	SH
N	386546-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:1.33	-	-	-	ASSBA/LVOC/1168	AD	TPO	0.25	210	A	SH
N	412077-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:1.33	-	-	-	MBA	AD	TPO	0.5	210	A	SH
N	416804-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	2" E3 CGF	2"-2"	UF	1:1	-	-	-	1168	AD	TPO	1	210	A	SH
N	544818-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:1.33	-	-	-	ASSBA/LVOC/1168	AD	TPO	0.25	210	A	SH

Application Type	Assembly #	Deck Grade (KSI) and Span length: "w" indicates "wide rib"	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Thickness	Insulation Securement	Insulation Securement Rate (Fastener #/ft ²)	Cover Board	Cover Board Securement	Cover Board Securement Rate (Fastener #/ft ²)	Membrane Securement	Membrane Securement Rate (FA or Ribbons:X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift (PSF)	External Fire (Class)	Hail Rating
N	544820-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-12"	UF	1:1.33	-	-	-	MBA	AD	TPO	0.5	210	A	SH
N	544821-0-0	80 (22-18 ga./72")w	(DD, DDP, DD SX P, DB, DS, DS CF, FB, FB T, DX C, DX FG, DX G, PB DEK, SR C, SR GF, SR UCGM, SR UGM)	-	-	-	E3 CGF	2"-2"	UF	1:1	-	-	-	1168	AD	TPO	1	210	A	SH
N	544820-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	ASSBA	AD	TPO	0.25	225	A	SH
N	544493-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DBH, DG)	E3	2"-12"	UF	1:1	-	-	-	ASSBA	AD	TPO	0.25	225	A	SH
N	437270-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3 CGF	2"-12.5"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.5	240	A	SH
N	437275-0-0	80 (22-18 ga./72")w	(SR)(DX FG, DX C)	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3 CGF	2"-12.5"	UF	1:1	-	-	-	SA/LVOC	AD	TPO/TPO SA	0.25	240	A	SH
N	443450-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3 CGF	2"-12"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.5	240	A	SH
N	443451-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3 C1	2"-12"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.25	240	A	SH
N	443465-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-12"	UF	1:1	-	-	-	LVOC	AD	TPO	0.25	240	A	SH
N	443479-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-12"	UF	1:1	-	-	-	HA	AD	TPO FB 150, 175	0.25	240	A	SH



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Application Type	Assembly #	Deck Grade (KS) and Span length: "w" indicates "wide rib"	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Thickness	Insulation Securement	Insulation Securement Rate (Fastener #/ft ²)	Cover Board	Cover Board Securement	Cover Board Securement Rate (Fastener #/ft ²)	Membrane Securement	Membrane Securement Rate (FA or Ribbons:X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift (PSF)	External Fire (Class)	Hail Rating
N	487342-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-12"	UF	1:1	-	-	-	SA	AD	TPO SA	0.25	240	A	SH
N	543557-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-12"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.5	240	A	SH
N	543558-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-12"	UF	1:1	-	-	-	LVOC	AD	TPO	0.25	240	A	SH
N	543560-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-12"	UF	1:1	-	-	-	HA	AD	TPO FB 150, 175	0.25	240	A	SH
N	544800-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3	2"-12"	UF	1:1	-	-	-	SA	AD	TPO SA	0.25	240	A	SH
N	544815-0-0	80 (22-18 ga./72")w	-	-	-	(PE, VB SA, VB SAR, DG, DBH)	E3 C1	2"-12"	UF	1:1	-	-	-	MBA/TPO WB	AD	TPO	0.25	240	A	SH

Application Type

N	New
RC	Re-Cover
RR	Re-Roof

Membrane

TPO	JM TPO 45, 60, 72, 80
TPO 45	JM TPO 45
TPO 60	JM TPO 60
TPO 72	JM TPO 72
TPO 80	JM TPO 80
TPO SA	JM TPO SA - 60 MIL
TPO FB	JM TPO FB 110, 115, 135
TPO FB 100	JM TPO FB 100
TPO FB 115, 135	JM TPO FB 115, 135
TPO FB 150	JM TPO FB 150
TPO FB 170	JM TPO FB 170
TPO R	JM TPO Reflexsa

Deck Grade

33 (18 ga./72")	18 ga., min 33ksi, 72" Joist
33 (18 ga./72")w	18 ga., wide rib, min 33ksi, 72" Joist
33 (22-16 ga./72")	22-16 ga., min 33ksi, 72" Joist
33 (22-18 ga./72")	22-18 ga., min 33ksi, 72" Joist
33 (22-18 ga./72")w	22-18 ga., wide rib, min 33ksi, 72" Joist
40 (22-16 ga./72")w	22-16 ga., min 40 ksi, 72" Joist
80 (22 ga./72")w	min 80 ksi, 22 ga., wide rib 72" Joist
80 (22-18 ga./72")	min 80 ksi, 22-18 ga., 72" Joist
80 (22-18 ga./72")w	min 80 ksi, 22-18 ga., wide rib, 72" Joist

Insulation/ Cover Board/Thermal Barrier

DD	Dens Deck
DDP	Dens Deck Prime
DD SX P	DensDeck StormX Prime Roof Board
DB	DuraBoard
DS	DuraStone
DS CF	DuraStone CF
DX C	DEXcell Cement Roof Board
DX FG	DEXcell FA Glass-Mat Roof Board
DX FA VSH	DEXcell FA VSH
DX GM	DEXcell Glass-Mat Roof Board
E3	ENRGY3®
E3 CFG	ENRGY 3 CGF
EW	ENRGY WOOL
E3 C1	ENRGY 3 C1
E3 C1 CFG	ENRGY 3 C1 CGF
FB	Fesco Board
FB HD	Fesco Board HD
FB T	Fesco Board Tapered
PB DEK	PermaBase DEK
PR F	ProtectoRI® Foam
PR HD	ProtectoRI® HD
PR HD FR	ProtectoRI® HD FR
RP B	RetroPlus Board
SR C	SECUROCK® Cement Roof Board
SR GM	SECUROCK® Glass-Mat Roof Board
SR GF	SECUROCK® Gypsum-Fiber Roof Board
SR UCGM	SECUROCK® Ultralight Coated Glass-Mat Roof Board
SR UGM	SECUROCK® Ultralight Glass-Mat Roof Board
SPR	SeparatoR
SPR CGF	SeparatoR CGF
SPR FR	SeparatoR FR

Fastener and Plate

HL	High Load Fastener
HL F	High Load Fastener
HL P	High Load Plus
HL SP	High Load Seam Plate
XHL	Extra High Load
IW	Induction Weld Plate
APF	All Purpose Fastener
UF #12 PH	UltraFast Fasteners #12 Phillips Head
TF #12 DP	Trufast #12 DP
UF IPM®	UltraFast Insulation Plates Metal (Recessed)
UF SRMP	UltraFast Square Recessed Metal Plate

Securement

AD	Adhered
RA	Ribbon Applied
SA	Self-Secured
Splat	Splatter Application
Stag	Staggered
1168	JM TPO 1168 Membrane Adhesive
ASSBA	JM All Season Sprayable Bonding Adhesive
G2PUIA	JM Green Two Part Urethane Insulation Adhesive
MBA	JM Membrane Bonding Adhesive (TPO & EPDM)
1S	JM One-Step Foamable Adhesive
RSUA	JM Roofing System Urethane Adhesive
TPO WB	JM TPO Water Based Membrane Adhesive
TP UIA	JM Two Part Urethane Insulation Adhesive
TP UIAC	JM Two Part Urethane Insulation Adhesive Canister
T-P UIA	JM Two-Part UIA
T-P UIAC	JM Two-Part UIA Canister
2PUIA's	JM Two Part Urethane Insulation Adhesive JM Two-Part UIA
2PUIAC's	JM Two Part Urethane Insulation Adhesive Canister JM Two-Part UIA Canister

Vapor Barrier

AB	JM APP Base
ABP	JM APP Base Plus
APX	APPeX 4S
APX E	APPeX 4S Embossed
DB	DynaBase
DG	DynaGrip® Base SD/SA
DBH	DynaBase® HW
DWB	DynaWeld™ Base
GP	GlasPly® IV
GP IV (1or2)	GlasPly IV 1 or 2 ply
GP IV 2	GlasPly IV 2 ply
GPP	GlasPly® Premier
GP	Glasply Premier
GPP (1or2)	GlasPly Premier 1 or 2 ply
GP 2	GlasPly Premier 2 ply
PE	Polyethylene (4 or 6 mil)
VB SA	JM Vapor Barrier SA
VB SAR	JM Vapor Barrier SAR

NOTE: If the product code is in (parentheses) the Thermal Barrier and/or Vapor Barrier Layer is Optional