



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

FM CODE APPROVALS

Application Type	Assembly #	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Securement	Insulation Securement Rate (Fastener #/ft2)	Cover Board	Insulation Fastener	Insulation Fastener Rate (#/ft2)	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	-	-	-	(PE)	1.5" E3	-	-	-	UF	1:2	-	FA	TPO SA	0.25	90	A	SH
N	254765-0-0	(SR)(DX FG)			(PE, VB SA, DG)	1.5" E3				UF	1:2	RSUA	12"	TPO FB	0.5	90	A	SH
N	361369-0-0				(PE)	1.5" E3				UF	1:2	WB	FA	TPO	0.5	90	A	SH
N	372771-0-0	-	-	-	-	2" E3	-	-	-	UF	1:4	LVOC/1168	FA	TPO/TPO SA	0.25	90	A	SH
N	428993-0-0	(SR)(DX FG)	-	-	(PE, VB SA, DG)	1.5" E3	-	-	-	UF	1:2	2UIA Can	Splat	TPO FB	0.25	90	A	SH
N	361398-0-0					2" E3				UF	1:4	WB	FA	TPO FB	0.75	90	A	SH
N	375143-0-0	-	-	-	-	2" E3	-	-	-	UF	1:4	RSUA	12"	TPO FB	0.5	90	A	SH
N	428989-0-0	-	-	-	-	2" E3	-	-	-	UF	1:4	2UIA Can	Splat	TPO FB	0.25	90	A	SH
N	397041-0-0	-	-	-	(PE)	1.5" E3	-	-	-	UF	1:2	SB	FA	TPO	0.5	90	A	SH
N	397044-0-0	-	-	-	(PE, VB SA, DG, DBH)	2" E3	-	-	-	UF	1:4	SB	FA	TPO	0.5	90	A	SH
N	409195-0-0	-	-	-	(PE)	1.5" E3	-	-	-	UF	1:2	LVOC/1168	FA	TPO	0.25	90	A	SH
N	410634-0-0	-	-	-	-	1.5" E3	-	-	-	UF	1:2	HA	FA	TPO FB 150	0.25	90	A	SH
N	410632-0-0	-	-	-	-	2" E3	-	-	-	UF	1:4	HA	FA	TPO FB 150	0.25	90	A	SH
N	386544-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:2.67	LVOC/1168	FA	TPO/TPO SA	0.25	105	A	SH
N	410636-0-0	-	-	-	-	1.5" E3	-	-	-	UF	1:1.78	HA	FA	TPO FB 150	0.25	105	A	SH
N	412075-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:2.67	SB	FA	TPO	0.5	105	A	SH
N	361399-0-0	-	-	-	-	1.5" E3	-	-	-	UF	1:2	WB	FA	TPO FB 115	0.75	120	A	SH
N	391171-0-0	-	-	-	-	1.5" E3	-	-	-	UF	1:1.78	LVOC/1168	FA	TPO	0.25	120	A	SH
N	399190-0-0	-	-	-	-	1.5" E3	-	-	-	UF	1:1.78	SB	FA	TPO	0.5	120	A	SH
N	437176-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	2" E3	-	-	-	UF	1:1.6	HA	FA	TPO FB 150	0.25	120	A	SH
N	437173-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	2" E3	-	-	-	UF	1:1.6	SB/WB	FA	TPO	0.25	120	A	SH
N	437166-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	2" E3	-	-	-	UF	1:1.6	SA/LVOC	FA	TPO/TPO SA	0.25	120	A	SH
N	429033-0-0	-	-	-	-	2" E3	-	-	-	UF	1:1.6	2UIA Can	Splat	TPO FB	0.25	120	A	SH
N	386545-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:2	LVOC/1168	FA	TPO/TPO SA	0.25	135	A	SH
N	412076-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:2	SB	FA	TPO	0.5	135	A	SH



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Application Type	Assembly #	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Securement	Insulation Securement Rate (Fastener #/ft ²)	Cover Board	Insulation Fastener	Insulation Fastener Rate (#/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	437315-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:2	WB	FA	TPO	0.5	135	A	SH
N	437270-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	2" E3 CGF	-	-	-	UF	1:1	SB/WB	FA	TPO	0.5	165	A	SH
N	437274-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	2" E3 CGF	-	-	-	UF	1:1	LVOC	FA	TPO/TPO SA	0.25	165	A	SH
N	410956-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:1.33	-	FA	TPO SA	0.25	180	A	SH
N	386546-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:1.33	LVOC/1168	FA	TPO	0.25	210	A	SH
N	412077-0-0	-	-	-	-	2" E3 CGF	-	-	-	UF	1:1.33	SB	FA	TPO	0.5	210	A	SH
N	437270-0-0**	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	2" E3 CGF	-	-	-	UF	1:1	SB/WB	FA	TPO	0.5	240	A	SH
N	437275-0-0**	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	2" E3 CGF	-	-	-	UF	1:1	LVOC	FA	TPO/TPO SA	0.25	240	A	SH

Application Type	Assembly #	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Securement	Insulation Securement Rate (Fastener #/ft2)	Cover Board	Cover Board Securement	Cover Board Securement Rate (Fastener #/ft2)	Membrane Securement	Membrane Securement Rate (FA or Ribbons.X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift	External Fire (Class)	Hail Rating
N	327591-0-0	-	-	-	-	E3	-	-	I	UF	1:2	-	FA	TPO SA	0.5	90	A	SH
N	361269-0-0	-	-	-	-	E3	-	-	I	UF	1:2	WB	FA	TPO FB 115	0.75	90	A	SH
N	361273-0-0	-	-	-	-	E3	-	-	I	UF	1:2	WB	FA	TPO	0.75	90	A	SH
N	428982-0-0	-	-	-	-	E3	-	-	I	UF	1:2	2PUIA C	Splat	TPO FB 115	1.5	90	A	SH
N	361304-0-0	-	-	-	-	E3	-	-	1/2" SR GF	UF	1:4	WB	FA	TPO FB 115	2	90	A	SH
N	361297-0-0	-	-	-	-	E3	-	-	3/8" SR GF	UF	1:2.67	WB/SA	FA	TPO	2	90	A	SH
N	391129-0-0	(SR)	-	-	(PE)	E3	-	-	1/2" SR GF	UF	1:4	LVOC/1168	FA	TPO	1	90	A	SH
N	396169-0-0	-	-	-	-	E3	-	-	I	UF	1:2	RSUA	12" OC	TPO FB 115	0.5	90	A	SH
N	397076-0-0	-	-	-	-	E3	-	-	I	UF	1:2	SB	FA	TPO/TPO SA	0.5	90	A	SH
N	397543-0-0	(SR)	-	-	(PE)	E3	-	-	1/2" SR GF	UF	1:4	SB	FA	TPO	2	90	A	SH
N	417323-0-0	(SR)	-	-	(PE, DG, VB SA)	E3	-	-	1/2" SR GF	UF	1:4	HA	FA	TPO FB 150	0.75	90	A	SH
N	429029-0-0	(SR)	-	-	(PE)	E3	-	-	1/2" SR GF	UF	1:4	2PUIA C	Splat	TPO FB 115	2	90	A	SH
N	393540-0-0	-	-	-	-	E3	-	-	1/2" DX FA	UF	1:4	-	FA	TPO SA	2	90	A	SH
N	404192-0-0	(SR)	-	-	(PE)	E3	-	-	3/8" SR GF	UF	1:4	WB	FA	TPO/TPO 115/ TPO SA	2	90	A	SH
N	410761-0-0	-	-	-	-	E3	-	-	1/2" DX FA	UF	1:4	HA	FA	TPO FB 150	0.75	90	A	SH
N	397671-0-0	-	-	-	-	E3	-	-	1/4" DX FA	UF	1:3.2	WB/SA/BA	FA	TPO/TPO SA	2	90	A	SH
N	395193-0-0	-	-	-	-	E3	-	-	1/2" DX FA	UF	1:4	WB	FA	TPO FB 115	2	90	A	SH
N	425746-0-0	-	-	-	-	E3	-	-	1/2" DX FA	UF	1:4	LVOC/SB	FA	TPO	2	90	A	SH
N	416803-0-0	-	-	-	-	E3	-	-	1/4" DDP	UF	1:2	1168	FA	TPO	1	90	A	SH
N	414313-0-0	(SR)	-	-	(VB SA, DG)	E3	-	-	1/2" SR GF	UF	1:4	RSUA	12" OC	TPO FB 115	0.5	90	A	SH
N	437716-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3	-	-	PR	UF	1:4	SA/SB	FA	TPO/TPO SA	0.5	90	A	SH
N	437720-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3	-	-	PR	UF	1:4	LVOC	FA	TPO	1	90	A	SH
N	437724-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3	-	-	PR	UF	1:4	RSUA	12" OC	TPO FB 115	0.5	90	A	SH
N	437728-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3	-	-	PR	UF	1:4	2PUIA C	Splat	TPO FB 115	1.5	90	A	SH

Application Type	Assembly #	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	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	External Fire (Class)	Hail Rating
N	391126-0-0		-	-		E3			1/4" SR GF	UF	1:1.33	LVOC/1168	FA	TPO	1	105	A	SH
N	428975-0-0		-	-		E3			1/4" SR GF	UF	1:1.33	2PUIA C	Splat	TPO FB 115	1.5	105	A	SH
N	397541-0-0		-	-		E3			1/4" SR GF	UF	1:1.33	SB	FA	TPO	1.5	105	A	SH
N	361293-0-0		-	-		E3			1/4" SR GF	UF	1:1.33	SA/WB	FA	TPO/TPO SA	2.0	105	A	SH
N	361294-0-0		-	-		E3			1/4" SR GF	UF	1:1.33	WB	FA	TPO FB 115	2.0	105	A	SH
N	380426-0-0		-	-		E3			1/4" SR GF	UF	1:1.33	RSUA	12" OC	TPO FB 115	1.5	105	A	SH
N	437308-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" SR GF	UF	1:1.6	SB	FA	TPO	1.5	150	A	SH
N	437310-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" SR GF	UF	1:1.6	WB	FA	TPO	2.0	150	A	SH
N	437312-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" SR GF	UF	1:1.6	HA	FA	TPO FB 150	0.75	150	A	SH
N	437305-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	HA	FA	TPO FB 150	0.75	165	A	SH
N	437297-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	LVOC/SB	FA	TPO	1.0	165	A	SH
N	437301-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	-	FA	TPO SA	2.0	165	A	SH
N	437295-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	SB	FA	TPO	1.5	165	A	SH
N	437286-0-0	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DX FA	UF	1:1	SB/WB/LVOC	FA	TPO	2.0	165	A	SH
N	429013-0-0	(DX FG, DX C)	-	-	(VB SA)	E3			1/2" DX FA	UF	1:1	2PUIA C	Splat	TPO FB 115	2.0	165	A	SH
N	399519-0-0	(DX FG, DX C)	-	-	(VB SA)	E3			1/2" DX FA	UF	1:1	RSUA	12" OC	TPO FB 115	0.5	165	A	SH
N	437288-0-0**	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DX FA	UF	1:1	SB/WB/LVOC	FA	TPO	2.0	210	A	SH
N	437306-0-0**	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	HA	FA	TPO FB 150	0.75	225	A	SH
N	437298-0-0**	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	LVOC/SB	FA	TPO	1.0	225	A	SH
N	437302-0-0**	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	-	FA	TPO SA	2.0	225	A	SH
N	437296-0-0**	(SR)(DX FG, DX C)	-	-	(PE, VB SA, DG, DBH)	E3			1/2" DDP	UF	1:1	SB	FA	TPO	1.5	225	A	SH
N	355888-0-0**	-	-	-	-	E3			1/2" SR GF	UF	1:1	WB	FA	TPO/TPO SA	2	300	A	SH
N	409472-0-0**	-	-	-	-	E3	-	-	1/2" SR GF	UF	1:1	HA	FA	TPO FB 150	0.75	300	A	SH



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FM CODE APPROVALS

Application Type	RoofNav Assembly #	Thermal Barrier	Thermal Barrier Securement	Securement Rate	Vapor Barrier	Insulation	Insulation Securement	Insulation Securement Rate (#ft ²)	Cover Board	Cover board Securement	Cover Board Securement Rate (#ft ²)	Membrane Securement	Membrane Securement Rate (FA or Ribbons,X" OC)	Membrane	Slope (X":1 ft)	Wind Uplift	External Fire (Class)	Hail Rating
N	324774-0-0	-	-	-	-	E3	UF	1:2	SR GF, RP, DX FA, DDP	2PUIA, RSUA	12"	HA	FA	TPO FB 150	0.75	90	A	SH
N	361256-0-0					E3	UF	1:2	PR, I	2PUIA, 2PUIA C	12"	WB	FA	TPO FB 115	0.75	90	A	SH
N	361315-0-0	-	-	-	-	2" E3	UF	1:4	SR GF	2PUIA	12"	WB	FA	TPO/TPO SA	2	90	A	SH
N	361316-0-0	(SR)	-	-	(APX)	E3	UF	1:2	SR GF	2PUIA, 1S, RSUA	12"	WB	FA	TPO/TPO SA	2	90	A	SH
N	391140-0-0	-	-	-	-	2" E3	UF	1:4	SR GF	2PUIA, 1S, RSUA	12"	LVOC/1168	FA	TPO	1	90	A	SH
N	393873-0-0	-	-	-	-	2" E3	UF	1:2	DX FA/ DX C	2PUIA	12"	-	FA	TPO SA	2	90	A	SH
N	393885-0-0	-	-	-	-	2" E3	UF	1:4	DX FA/ DX C	2PUIA, RSUA	12"	-	FA	TPO SA	2	90	A	SH
N	396141-0-0	-	-	-	-	E3	UF	1:4	SR GF	HA, 2PUIA, 1S, RSUA	12"	RSUA	12" OC	TPO FB 115	0.5	90	A	SH
N	396160-0-0	-	-	-	-	2" E3	UF	1:4	SR GF	HA, 2PUIA, 1S, RSUA	12"	WB	FA	TPO FB 115	2	90	A	SH
N	397566-0-0	-	-	-	-	2" E3	UF	1:4	SR GF	HA, 2PUIA, 1S, RSUA	12"	SB	FA	TPO	1.5	90	A	SH
N	397568-0-0	-	-	-	-	E3	UF	1:2	SR GF	HA, 2PUIA, RSUA	12"	SB	FA	TPO	1.5	90	A	SH
N	410747-0-0	-	-	-	-	E3	UF	1:2	DX FA	2PUIA	12"	HA	FA	TPO FB 150	0.75	90	A	SH
N	410762-0-0	-	-	-	-	2" E3	UF	1:4	DX FA	2PUIA, RSUA	12"	HA	FA	TPO FB 150	0.75	90	A	SH
N	417917-0-0	(SR, DX FA, DX C)			(VB SA)	E3	UF	1:2	PR, I, SR GF	2PUIA, 2PUIA C, RSUA	12"	RSUA	12" OC	TPO FB 115	0.5	90	A	SH
N	428981-0-0	(SR, DX FA, DX C)			(VB SA)	E3	UF	1:2	PR, I, SR GF	2PUIA, 2PUIA C, RSUA	12"	2PUIA C	Splat	TPO FB 115	1.5	90	A	SH



Application Type

- N New Roof
- RC Re-Cover
- RR Re-Roof

Membrane

- TPO JM TPO
- TPO SA JM TPO SA (note adhesive not needed)
- TPO FB 115 JM TPO FB
- TPO FB 150 JM TPO FB (Hotmoppable)

Insulation/Coverboard

- E3 ENRGY 3® (All facers)
- E3 CGF ENRGY 3® CGF
- E3 FR ENRGY 3® FR
- PR ProtectoR HD
- I Invinsa Roof Board
- IF Invinsa® Foam Roof Board
- I FR Invinsa® FR Roof Board
- RP RetroPlus™
- SR C SECUROCK Cement Roof Board
- SR GM SECUROCK Glass-Mat Roof Board
- SR GF SECUROCK® Gypsum-Fiber Roof Board
- DDP DensDeck Prime
- DX C DEXcell Cement Roof Board
- DX FA DEXcell FA Glass Mat Roof Board
- DX GM DEXcell Glass Mat Roof Board

Fastener and Plate

- HL High Load
- HLP High Load Plus
- XHL Extra High Load
- IW Induction Weld Plate
- UF UltraFast®
- XHD OMG Super XHD screw

Securement

- FA Fully Adhered
- RA Ribbon Applied
- Splat Splatter Application

Adhesive

- LVOC Low VOC
- SB Solvent Based
- WB Water Based
- 2PUIA Two-Part Urethane Insulation Adhesive
- HA Hot Asphalt
- SA Self Adhered
- RSUA JM Roofing System Urethane Adhesive
- 1S JM One-Step Foamable Adhesive
- FA Full Application
- 2PUIA C JM Roofing System Urethane Adhesive Canister

Vapor Barrier

- AB APP Base
- ABP APP Base Plus
- DG DynaGrip Base SD/SA
- GP GlasPly IV
- GPP GlasPly Premier
- VB SA JM Vapor Barrier SA
- DB DynaBase
- DBH DynaBase HW
- DWB DynaWeld Base
- PE Polyethylene (4 or 6 mil)
- APX APPex 4S

Thermal Barrier

- SR SECUROCK® Gypsum-Fiber Roof Board
- DX C DEXcell Cement Roof Board
- DX FA DEXcell FA Glass Mat Roof Board

** 80 ksi deck