



Codes and Approvals

FM® Global Approvals JM EPDM Membrane Systems – Fully Adhered

Deck	Rating	Slope in./ft (mm/m)	Insulation	Cover Board	Insulation Attachment	Insulation Fastener and Plate	Fastener Frequency	Membrane	Membrane Attachment	RoofNav SM #
Steel	1A-60	1½" (124.92)	E	DDP	–	UF	1 per 4 ft² (0.37 m²)	45 or 60 mil FR	SB	212699-0-0
	1A-60	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	UF	1 per 2.67 ft² (0.25 m²)	90 mil FR	SB	195341-0-0
	1A-60	2" (166.56)	E	I	Cover board fastened. Insulation loose laid.	UF	1 per 2.67 ft² (0.25 m²)	45 or 60 mil FR	SB	195339-0-0
	1A-75	1½" (124.92)	E	WF	–	UF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR	SB	212697-0-0
	1A-75	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	UF	1 per 2 ft² (0.19 m²)	90 mil FR	SB	195332-0-0
	1A-75	1½" (124.92)	E (2" [5.08 cm] min)	–	–	UF	1 per 4 ft² (0.37 m²)	45 or 60 mil FR	SB	212695-0-0
	1A-75	2" (166.56)	E	I	Cover board fastened. Insulation loose laid.	UF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR	SB	195331-0-0
	1A-90	1½" (124.92)	E	DD	–	UF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR	SB	212698-0-0
	1A-90	1½" (124.92)	E	–	–	UF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR	SB	195348-0-0
	1B-60	1" (83.28)	E	DDP	–	UF	1 per 4 ft² (0.37 m²)	90 mil FR	SB	212705-0-0
	1B-75	1" (83.28)	E	WF	–	UF	1 per 2 ft² (0.19 m²)	90 mil FR	SB	212702-0-0
	1B-75	1" (83.28)	E (2" [5.08 cm] min)	–	–	UF	1 per 4 ft² (0.37 m²)	90 mil FR	SB	212701-0-0
	1B-90	1" (83.28)	E	DD	–	UF	1 per 2 ft² (0.19 m²)	90 mil FR	SB	212704-0-0
	1B-90	1" (83.28)	E	–	–	UF	1 per 2 ft² (0.19 m²)	90 mil FR	SB	195349-0-0
	1C-60	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	UF	1 per 2.67 ft² (0.25 m²)	45 or 60 mil FR	WB	195342-0-0
	1C-75	1" (83.28)	E	WF	–	UF	1 per 2 ft² (0.19 m²)	45, 60, or 90 mil FR	WB	212713-0-0
	1C-75	1" (83.28)	E	DDP	–	UF	1 per 4 ft² (0.37 m²)	45, 60, or 90 mil FR	WB	212716-0-0
	1C-75	1" (83.28)	E (2" [5.08 cm] min)	–	–	UF	1 per 4 ft² (0.37 m²)	45, 60, or 90 mil FR	WB	212711-0-0
	1C-75	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	UF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR	WB	195333-0-0
	1C-90	1" (83.28)	E	–	–	UF	1 per 2 ft² (0.19 m²)	45, 60, or 90 mil FR	WB	195351-0-0
1C-90	1" (83.28)	E	DD	–	UF	1 per 2 ft² (0.19 m²)	45, 60, or 90 mil	WB	212709-0-0	
1C-90	1½" (124.92)	E	–	–	UF	1 per 2 ft² (0.19 m²)	90 mil FR	SB	195350-0-0	

Insulation

E = ENRGY 3®

Cover Board

I = Invinsa™ Roof Board
DD = DensDeck®
DDP = DensDeck® Prime
WF = Wood Fiber Board

Fastener and Plate

UF = UltraFast
SCDF = Structural Concrete Deck Fasteners

Membrane

FR = Nonreinforced

Membrane Attachment

SB = JM EPDM Bonding Cement (Solvent Based)
WB = JM EPDM Bonding Cement (Water Based)

Notes

1. Minimum thickness for all insulation is 1½" (3.81 cm), unless otherwise specified.
2. Some assemblies require Grade E (80 ksi) steel and/or additional deck securement.
3. Other insulations available.
4. Consult specific RoofNav assembly for construction details.

FM Global, RoofNav and DensDeck are among the trademarks or registered trademarks of Factory Mutual Insurance Company, FM Approvals LLC and Georgia-Pacific, LLC, respectively.

**Contact JM Technical Services
for further information:
(800) 922-5922**



FM Global® Approvals
JM EPDM Membrane Systems – Fully Adhered

Deck	Rating	Slope in./ft (mm/m)	Insulation	Cover Board	Insulation Attachment	Insulation Fastener and Plate	Fastener Frequency	Membrane	Sheet Width	Membrane Attachment	RoofNav SM #
Concrete	1A-60	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	SCDF	1 per 2.67 ft² (0.25 m²)	90 mil FR	Any	SB	195346-0-0
	1A-60	2" (166.56)	E	I	Cover board fastened. Insulation loose laid.	SCDF	1 per 2.67 ft² (0.25 m²)	45 or 60 mil FR		SB	195344-0-0
	1A-75	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	SCDF	1 per 2 ft² (0.19 m²)	90 mil FR		SB	195336-0-0
	1A-75	2" (166.56)	E	I	Cover board fastened. Insulation loose laid.	SCDF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR		SB	195335-0-0
	1A-90	1½" (124.92)	E	–	–	SCDF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR		SB	195354-0-0
	1A-165	1½" (124.92)	E	I	Insulation and cover board 2P UIA, UIA or BA	N/A	N/A	90 mil FR		SB	195328-0-0
	1A-165	2" (166.56)	E	I	Insulation and cover board 2P UIA, UIA or BA	N/A	N/A	45 or 60 mil FR		SB	195327-0-0
	1B-90	1" (83.28)	E	–	–	SCDF	1 per 2 ft² (0.19 m²)	90 mil FR		SB	195355-0-0
	1C-60	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	SCDF	1 per 2.67 ft² (0.25 m²)	45 or 60 mil FR		WB	195345-0-0
	1C-75	1½" (124.92)	E	I	Cover board fastened. Insulation loose laid.	SCDF	1 per 2 ft² (0.19 m²)	45 or 60 mil FR		WB	195337-0-0
	1C-90	1½" (124.92)	E	–	–	SCDF	1 per 2 ft² (0.19 m²)	90 mil FR		SB	195356-0-0
	1C-90	1" (83.28)	E	–	–	SCDF	1 per 2 ft² (0.19 m²)	45, 60, or 90 mil FR		WB	195357-0-0
	1C-165	1½" (124.92)	E	I	Insulation and cover board 2P UIA, UIA or BA	N/A	N/A	45 or 60 mil FR		WB	195329-0-0

Insulation

E = ENRGY 3®

Cover Board

I = Invinsa™ Roof Board
 DD = DensDeck®
 DDP = DensDeck® Prime
 WF = Wood Fiber Board

Adhesive

2P UIA = Two-Part Urethane Insulation Adhesive
 UIA = Urethane Insulation Adhesive
 BA = Bonding Adhesive

Fastener and Plate

UF = UltraFast
 SCDF = Structural Concrete Deck Fasteners

Membrane

FR = Nonreinforced

Membrane Attachment

SB = JM EPDM Bonding Cement (Solvent Based)
 WB = JM EPDM Bonding Cement (Water Based)

Notes

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