

FM FASTENING RATES

TABLE FOR SARNAFIL G410 ADHERED MEMBRANES

Deck	* Insulation	THICKNESS	Attachment	Fastening Rate	Adhesive	Membrane	FM Rating
Steel	G-P Dens Deck Prime	1/4" min.	Mechanical	one per 2.7 sq. ft. (12)	2170, 2121	G410, G410FB	60 PSF
	G-P Dens Deck Duraguard	1/4" min.	Mechanical	one per 2 sq. ft. (16)	Peel & Stick		75 PSF
	Sarnatherm, Atlas, Hunter, G-P Duraguard	1.5" min., iso; 1/4" min. DD	Bottom layer fastened, additional layers adhered with Olybond 500 or Millennium	one per 2 sq. ft. (16)	Peel & Stick		90 PSF
	Sarnatherm, Atlas, Hunter, G-P Duraguard	2.0" min., iso; 1/4" min. DD	Bottom layer fastened, additional layers adhered with Olybond 500 or Millennium	one per 4 sq. ft. (8)	Peel & Stick		90 PSF
	Sarnatherm, Atlas, Hunter	1.3" min.	Mechanical	one per 2 sq. ft. (16)	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm Atlas, Hunter	2.0" min.	Mechanical	one per 4 sq. ft. (8)	2170, 2121	G410, G410FB	90 PSF
	G-P Dens Deck	1/4" min.	Mechanical	one per 2.7 sq. ft. (12)	2170, 2121	G410, G410FB	90 PSF
	iso underlayment; Dens Deck Prime top	5/8" min.	Mechanical	one per 4 sq.ft (8)	2170, 2121	G410	90 PSF
	G-P Dens Deck, eps/XPS; G-P Dens Deck	1/2" min.; 4" max; 1/4" min.	Mechanical	one per 1.8 sq. ft. (17)	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm Atlas, Hunter, multiple layers, or 1/4" Dens Deck Prime top layer	1.5" min. for iso insulation	Bottom layer fastened, additional layers adhered with Olybond 500	mechanical fastened 1 per 2 sq. ft (16); adhered layers with adhesive ribbons 12" on center max.	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm Atlas, Hunter, multiple layers, or 1/4" Dens Deck Prime top layer	2.0" min. for iso insulation	Bottom layer fastened, additional layers adhered with Olybond 500	mechanical fastened 1 per 2 sq. ft (16); adhered layers with adhesive ribbons 12" on center max.	2170, 2121	G410, G410FB	90 PSF
	G-P Dens Deck Prime	5/8" min.	Mechanical	one per 2 sq. ft.(16)	2170	G410	120 PSF
G-P Dens Deck Prime	5/8" min.	Mechanical	one per 2 sq. ft. (16)	2121	G410FB	105 PSF	
Concrete	Sarnatherm, Atlas, Hunter	1.3" min.	Mechanical	one per 2 sq. ft. (16)	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter	2.0" min.	Mechanical	one per 4 sq. ft. (8)	2170, 2121	G410, G410FB	90 PSF
	Hunter iso coated glass	1.5" min.	Adhered	Millennium or Olybond 500 12" oc ribbons	Peel & Stick		150 PSF
	Sarnatherm, Atlas, Hunter	1.5 min.	Adhered	Millennium 12" oc ribbons	2170, 2121	G410, G410FB	240 PSF
	Sarnatherm, Atlas, Hunter; multiple layers of same followed by G-P Dens Deck	2" min., iso; 1/4" DD	Adhered	Olybond 500, 12" oc ribbons	2170, 2121	G410, G410FB	240 PSF
	Sarnatherm, Atlas	1.5" min.	Adhered	Sarnacol LR2001	2170, 2121	G410, G410FB	465 PSF
	Western Insulfoam eps, multiple layers followed by G-P Dens Deck	2.0" min. eps; 1/4" min. DD	Adhered	Olybond 500, 12" oc ribbons	2170, 2121	G410, G410FB	240 PSF
	Western Insulfoam eps, multiple layers followed by G-P Dens Deck	2.0" min. eps; 1/4" min. DD	Adhered	Olybond spray application	2170, 2121	G410, G410FB	465 PSF
	Sarnatherm, Atlas, Hunter	1.5" min.	Adhered	Asphalt, full mopping	2170	G410	465 PSF
	Sarnatherm, Atlas	1.5" min.	Adhered	Asphalt, full mopping	2170, 2121	G410, G410FB	480 PSF
	Sarnatherm, Hunter	1.5" min.	Adhered	Asphalt, full mopping	2170, 2121	G410, G410FB	510 PSF
	Sarnatherm, Atlas, Hunter, multiple layers or top layer G-P Dens Deck	1.5" min. iso; 1/4" min. DD	Adhered	Olybond spray application	2170, 2121	G410, G410FB	465 PSF
Gypsum	Sarnatherm, Atlas, Hunter	1.5" min.	Toggle bolt	one per 2 sq. ft. (16)	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter	2.0" min.	Toggle bolt	one per 2 sq. ft. (16)	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter	1.5" min.	NTB or Lite Deck	one per 2 sq. ft. (16)	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter	1.5" min.	Adhered	Millennium 12" oc ribbons	2170, 2121	G410, G410FB	90 PSF
	G-P Dens Deck	1/4" min.	Adhered	Millennium 12" oc ribbons	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter, G-P Dens Deck	1.5" min. iso, 1/4" min. DD	Adhered	Olybond 500, 12" oc ribbons	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter	1.5" min.	Adhered	Olybond spray	2170, 2121	G410, G410FB	90 PSF
	G-P Dens Deck	1/4" min.	Adhered	Olybond spray	2170, 2121	G410, G410FB	90 PSF
Cementitious Wood Fiber	Sarnatherm, Atlas, Hunter	1.5" min.	NTB or Lite Deck	one per 2 sq. ft. (16)	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas	1.5" min.	Adhered	Sarnacol LR2001	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter, G-P Dens Deck	1.5" min. iso, 1/4" min. DD	Adhered	Olybond 500, 12" oc ribbons	2170, 2121	G410, G410FB	90 PSF
	Sarnatherm, Atlas, Hunter, G-P Dens Deck	1.5" min. iso, 1/4" min. DD	Adhered	Olybond, spray	2170, 2121	G410, G410FB	240 PSF
	G-P Dens Deck	1/4" min. DD	Adhered	Olybond, spray	2170, 2121	G410, G410FB	240 PSF

* When adhering to Dens Deck with 2121 adhesive, Feltback membrane must be used

LIGHTWEIGHT INSULATING CONCRETE DECKS

Deck	System	Structural Support Spacing	Deck Attachment	* Adhesive	Membrane	FM Rating
Steel	Celcore	5 feet oc	weld	2170, 2121	G410-FB	60 PSF
Steel	Celcore	6 feet oc	fastened	2170, 2121	G410-FB	120 PSF
Steel	Celcore	5 feet oc	fastened	2170, 2121	G410-FB	150 PSF
Steel	Celcore	4 feet oc	fastened	2170, 2121	G410-FB	180 PSF
Concrete	Celcore			2170, 2121	G410-FB	270 PSF
Concrete	Elastizel			2170, 2121	G410-FB	540 PSF
Steel	Mearlcrete	5 feet oc	weld	2170, 2121	G410-FB	60 PSF
Steel	Mearlcrete	5 feet oc	weld	2170, 2121	G410-FB	90 PSF
Concrete	Mearlcrete			2170, 2121	G410-FB	540 PSF