

TensoTherm™ Performance Characteristics

		Fire ASTM E108 Class A	Fire ASTM E84 Flame Spread / Smoke Density	Fire DIN EN 13501-1 Class B, s1	Light Translucency Integrated Sphere Strength *	Permeability ASTM E96	R Value (hrft ² /BTU) ASTM C518	U Value (W/m ² K) ASTM C518	Acoustic	System Thickness (in)	System Thickness (mm)	Comments or Details	
PTFE Fiberglass Combinations with 2 - 8mm Nanogel Blanket Cold Climate:	SFI HT/ Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	5.29		1.07	0.67	17.0	Other PTFE Glass Materials may be substituted for St. Gobain's Sheerfill
	SFII A / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	3.0%		4.8	5.29	●	1.07	0.67	17.0	
	SFII HT / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	5.29		1.07	0.67	17.0	
	SFV HT / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	5.29		1.07	0.67	17.0	
	SFI HT / SFV HT	Pass	0 max	Pass			2.0	5.29		1.07	0.67	17.0	
	SFII A / SFV HT	Pass	0 max	Pass	2.0%		2.0	5.29	●	1.07	0.67	17.0	
	SFV HT / SFV HT	Pass	0 max	Pass	●		2.0	5.29		1.07	0.67	17.0	
	SFI HT / SFII A	Pass	0 max	Pass			2.0	5.29		1.07	0.67	17.0	
	SFII A / SFII A	Pass	0 max	Pass			2.0	5.29		1.07	0.67	17.0	
	SFI HT / SFI HT	Pass	0 max	Pass			2.0	5.29		1.07	0.67	17.0	
PTFE Fiberglass Combinations with 2 - 8mm Nanogel Blanket Warm Climate:	SFI HT/ Fabrisorb I A	Pass	0 max	Pass	●		NA	4.83		1.18	0.67	17.0	
	SFII A / Fabrisorb I A	Pass	0 max	Pass	3.0%		NA	4.83	●	1.18	0.67	17.0	
	SFII HT / Fabrisorb I A	Pass	0 max	Pass	●		NA	4.83		1.18	0.67	17.0	
	SFV HT / Fabrisorb I A	Pass	0 max	Pass	●		NA	4.83		1.18	0.67	17.0	
PTFE Fiberglass Combinations with 3 - 8mm Nanogel Blanket Cold Climate:	SFI HT/ Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	7.46		0.76	0.98	25.0	
	SFII A / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	2.0%		4.8	7.46	●	0.76	0.98	25.0	
	SFII HT / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	7.46		0.76	0.98	25.0	
	SFV HT / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	7.46		0.76	0.98	25.0	
	SFI HT / SFV HT	Pass	0 max	Pass			2.0	7.46		0.76	0.98	25.0	
	SFII A / SFV HT	Pass	0 max	Pass	1.6%		2.0	7.46	●	0.76	0.98	25.0	
	SFV HT / SFV HT	Pass	0 max	Pass	●		2.0	7.46		0.76	0.98	25.0	
	SFI HT / SFII A	Pass	0 max	Pass			2.0	7.46		0.76	0.98	25.0	
	SFII A / SFII A	Pass	0 max	Pass			2.0	7.46		0.76	0.98	25.0	
	SFI HT / SFI HT	Pass	0 max	Pass			2.0	7.46		0.76	0.98	25.0	
PTFE Fiberglass Combinations with 3 - 8mm Nanogel Blanket Warm Climate:	SFI HT/ Fabrisorb I A	Pass	0 max	Pass	●		NA	6.77		0.84	0.98	25.0	
	SFII A / Fabrisorb I A	Pass	0 max	Pass	2.0%		NA	6.77	●	0.84	0.98	25.0	
	SFII HT / Fabrisorb I A	Pass	0 max	Pass	●		NA	6.77		0.84	0.98	25.0	
	SFV HT / Fabrisorb I A	Pass	0 max	Pass	●		NA	6.77		0.84	0.98	25.0	
PTFE Fiberglass Combinations with 4 - 8mm Nanogel Blanket Cold Climate:	SFI HT/ Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	9.62		0.59	1.30	33.0	
	SFII A / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	1.5%		4.8	9.62	●	0.59	1.30	33.0	
	SFII HT / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	9.62		0.59	1.30	33.0	
	SFV HT / Fabrisorb I A (double dip for vapor barrier)	Pass	0 max	Pass	●		4.8	9.62		0.59	1.30	33.0	
	SFI HT / SFV HT	Pass	0 max	Pass			2.0	9.62		0.59	1.30	33.0	
	SFII A / SFV HT	Pass	0 max	Pass	1.1%		2.0	9.62	●	0.59	1.30	33.0	
	SFV HT / SFV HT	Pass	0 max	Pass	●		2.0	9.62		0.59	1.30	33.0	
	SFI HT / SFII A	Pass	0 max	Pass			2.0	9.62		0.59	1.30	33.0	
	SFII A / SFII A	Pass	0 max	Pass			2.0	9.62		0.59	1.30	33.0	
	SFI HT / SFI HT	Pass	0 max	Pass			2.0	9.62		0.59	1.30	33.0	

● Denotes Testing In Process

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PTFE Fiberglass Combinations with 4 - 8mm Nanogel Blanket Warm Climate:	SFI HT/ Fabrisorb IA	Pass	0 max	Pass	●	NA	8.70		0.65	1.30	33.0		
	SFII A / Fabrisorb IA	Pass	0 max	Pass	1.5%	NA	8.70	●	0.65	1.30	33.0		
	SFII HT / Fabrisorb IA	Pass	0 max	Pass	●	NA	8.70		0.65	1.30	33.0		
	SFV HT / Fabrisorb IA	Pass	0 max	Pass	●	NA	8.70		0.65	1.30	33.0		
PTFE Fiberglass Combinations with 5 - 8mm Nanogel Blanket Cold Climate:	SFI HT/ Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	●	4.8	11.78		0.48	1.61	41.0		
	SFII A / Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	1.0%	4.8	11.78	●	0.48	1.61	41.0		
	SFII HT / Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	●	4.8	11.78		0.48	1.61	41.0		
	SFV HT / Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	●	4.8	11.78		0.48	1.61	41.0		
	SFI HT / SFV HT	Pass	0 max	Pass		2.0	11.78		0.48	1.61	41.0		
	SFII A / SFV HT	Pass	0 max	Pass		2.0	11.78		0.48	1.61	41.0		
	SFV HT / SFV HT	Pass	0 max	Pass	●	2.0	11.78		0.48	1.61	41.0		
	SFI HT / SFII A	Pass	0 max	Pass		2.0	11.78		0.48	1.61	41.0		
	SFII A / SFII A	Pass	0 max	Pass		2.0	11.78		0.48	1.61	41.0		
SFI HT / SFI HT	Pass	0 max	Pass		2.0	11.78		0.48	1.61	41.0			
PTFE Fiberglass Combinations with 5 - 8mm Nanogel Blanket Warm Climate:	SFI HT/ Fabrisorb IA	Pass	0 max	Pass	●	NA	10.63		0.53	1.61	41.0		
	SFII A / Fabrisorb IA	Pass	0 max	Pass	1.0%	NA	10.63	●	0.53	1.61	41.0		
	SFII HT / Fabrisorb IA	Pass	0 max	Pass	●	NA	10.63		0.53	1.61	41.0		
	SFV HT / Fabrisorb IA	Pass	0 max	Pass	●	NA	10.63		0.53	1.61	41.0		
PTFE Fiberglass Combinations with 6 - 8mm Nanogel Blanket Cold Climate:	SFI HT/ Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	●	4.8	13.95		0.41	1.93	49.0		
	SFII A / Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	0.8%	4.8	13.95	●	0.41	1.93	49.0		
	SFII HT / Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	●	4.8	13.95		0.41	1.93	49.0		
	SFV HT / Fabrisorb IA (double dip for vapor barrier)	Pass	0 max	Pass	●	4.8	13.95		0.41	1.93	49.0		
	SFI HT / SFV HT	Pass	0 max	Pass		2.0	13.95		0.41	1.93	49.0		
	SFII A / SFV HT	Pass	0 max	Pass		2.0	13.95		0.41	1.93	49.0		
	SFV HT / SFV HT	Pass	0 max	Pass	●	2.0	13.95		0.41	1.93	49.0		
	SFI HT / SFII A	Pass	0 max	Pass		2.0	13.95		0.41	1.93	49.0		
	SFII A / SFII A	Pass	0 max	Pass		2.0	13.95		0.41	1.93	49.0		
SFI HT / SFI HT	Pass	0 max	Pass		2.0	13.95		0.41	1.93	49.0			
PTFE Fiberglass Combinations with 6 - 8mm Nanogel Blanket Warm Climate:	SFI HT/ Fabrisorb IA	Pass	0 max	Pass	●	NA	12.57		0.45	1.93	49.0		
	SFII A / Fabrisorb IA	Pass	0 max	Pass	0.8%	NA	12.57	●	0.45	1.93	49.0		
	SFII HT / Fabrisorb IA	Pass	0 max	Pass	●	NA	12.57		0.45	1.93	49.0		
	SFV HT / Fabrisorb IA	Pass	0 max	Pass	●	NA	12.57		0.45	1.93	49.0		

● Denotes Testing In Progress

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