

as of 10/19/2021

## ANSI A118.10: Green Barrier – 40 mils wet thickness (TCNA-0219-21)

<b>Test Designation</b>		<b>Test Description</b>	Evaluation	<b>ANSI Specification</b>		
4.1		Mold Growth	Membrane does not support mold growth	"Membrane shall not support mold growth"		
4.2		Seam Strength 116 lbf		16 lbf/2" width		
4.3	Breaking Strength 286 PSI		170 PSI minimum			
4.4	Dimensional Stability Sample 1, direction 1 (158°F) Sample 1, direction 2 (158°F) Sample 2, direction 1 (-15°F) Sample 2, direction 2 (-15°F)		-0.37% -0.33% -0.08% -0.08%	0.7% max. length change		
4.5	Waterproofness		No moisture penetration	No moisture penetration after 48 hrs		
5.0	Shear Strength to Ceramic Tile and Cement Mortar					
5.3	7-Day shear strength		147 PSI	> 50 PSI		
5.4	7-Day water immersion shear strength		101 PSI	> 50 PSI		
5.5	4-Week shear strength		243 PSI	> 50 PSI		

## ANSI A118.10: Green Barrier – 50 mils wet thickness (TCNA-0219-21)

<b>Test Designation</b>		<b>Test Description</b>	Evaluation	<b>ANSI Specification</b>		
4.1		Mold Growth	Membrane does not support mold growth	"Membrane shall not support mold growth"		
4.2		112 lbf	16 lbf/2" width			
4.3	Breaking Strength 256 PSI		256 PSI	170 PSI minimum		
4.4	Dimensional Stability Sample 1, direction 1 (158°F) Sample 1, direction 2 (158°F) Sample 2, direction 1 (-15°F) Sample 2, direction 2 (-15°F)		-0.21% -0.23% -0.05% -0.09%	0.7% max. length change		
4.5	Waterproofness No moisture penetration			No moisture penetration after 48 hrs		
5.0	Shear Strength to Ceramic Tile and Cement Mortar					
5.3	7-Day shear strength		161 PSI	> 50 PSI		
5.4	7-Day water immersion shear strength		103 PSI	> 50 PSI		
5.5	4-Week shear strength		277 PSI	> 50 PSI		

ANSI A118.12: Green Barrier – 60 mils wet thickness (TCNA-0220-21)

<b>Test Designation</b>	Test Description		Evaluation	<b>ANSI Specification</b>		
4.1	Mold Growth		Does not support mold growth	"Membrane shall not support mold growth."		
5.1	Shear Strength	Shear Strength to Ceramic Tile and Cement Mortar*				
5.1.3	7-Day shear sti	rength	158 PSI	> 50 PSI		
5.1.4	7-Day water im	nmersion shear strength	93 PSI	> 50 PSI		
5.1.5	4-Week shear strength Shear strength @ 0.0625 in. deflection Shear Strength @ 0.125 in. deflection		225 PSI 114 PSI 205 PSI	> 50 PSI Standard Performance: 20 PSI High Performance: 20 PSI		
5.2	Point Load Test					
	Sample 1		1031 lbf	>1000 lbf		
	Sample 2		1082 lbf	>1000 lbf		
	Sample 3		1047 lbf	>1000 lbf		
5.4	System Crack Resistance Test					
	Specimen 1	The specimen reached a gap opening of greater than 1/8" without tile failure.  Note: 3 grout joints cracked at a gap opening of 0.128" (1/8")	Standard performance: Tile failure occurs after 1/16" specimen gap opening, but before 1/8" gap opening.  High performance: Tile failure does not occur by 1/8" specimen gap opening.  Standard performance: Tile failure occurs after 1/16" specimen gap opening, but before 1/8" gap opening.  High performance: Tile failure does not occur by 1/8" specimen gap opening.			
	Specimen 2	The specimen reached a gap opening of greater than 1/8" without tile failure.  Note: 3 grout joints cracked at a gap opening of 0.128" (1/8")				
	Specimen 3	The specimen reached a gap opening of greater than 1/8" without tile failure.  Note: 3 grout joints cracked at a gap opening of 0.128" (1/8")	Standard performance: Tile failure occurs after 1/16" specimen gap opening, but before 1/8" gap opening.  High performance: Tile failure does not occur by 1/8" specimen gap opening.			