



Sheffield Metals International

A MAZZELLA COMPANY

UL 580/ 1897 Uplift Information

Profile	Material	Substrate	Panel Width	Coil Width	Field Clip Spacing	Field Design Pressure	Corner Clip Spacing	Corner Design Pressure	ASTM E 1646 Water Test	TAS 100 Driven Rain	Wind	ASTM E 1680 Air Infiltration	ASTM E 2140 Submersion Test	Florida Product Approval Non-HVHZ	Approval HVHZ
SMI 1.0 MS - 90°	24 GA	Plywood	17"	20"	18"	-76									
SMI 1.5 SL 450	24 GA	Plywood	16"	20"	18"	-71									
SMI 1.5 MS- 90°	24 GA	Plywood	16"	20"	18" O.C.	-71									
SMI 1.5 MS	24 GA	Plywood	16"	20"	24" O.C.	-106.75	16" O.C.	-123.5	Pass	Pass		0.01 CFM	Pass	X	X
SMI 1.5 MS	24 GA	Metal	16"	20"	18" O.C.	-91.75	6" O.C.	-198.5	Pass	Pass		0.03 CFM	Pass	X	X
SMI 1.5 MS	24 GA	Metal/ISO	16"	20"	18" O.C.	-153.5	6" O.C.	-198.5	Pass	Pass		0.02 CFM	Pass	X	X
SMI 1.5 SL 550	24 GA	Plywood	19"	24"	24" O.C.	-129.25			Pass			0.03 CFM		X	
SMI 1.75 SL	24 GA	Plywood	18"	24"	24" O.C.	-114.25	6" O.C.	-131	Pass	Pass		0.01 CFM		X	X
SMI 1.75 SL	24 GA	Metal	18"	24"	24" O.C.	-78.5	6" O.C.	-101	Pass	Pass		0.07 CFM		X	X
SMI 1.75 SL	24 GA	Metal/ISO	18"	24"	24" O.C.	-93.5	6" O.C.	-191	Pass	Pass		0.04 CFM		X	X
SMI 2.0 MS- 90°	24 GA	Plywood	18"	24"	18" O.C.	-71									
SMI 2.0 MS	24 GA	Plywood	18"	24"	24" O.C.	-84.25	6" O.C.	-101	Pass	Pass		0.05 CFM	Pass	X	X
SMI 2.0 MS	24 GA	Metal	18"	24"	24" O.C.	-101	6" O.C.	-108.5	Pass	Pass		0.01 CFM	Pass	X	X
SMI 2.0 MS	24 GA	Metal/ISO	18"	24"	24" O.C.	-91.75	6" O.C.	-123.5	Pass	Pass		0.03 CFM	Pass	X	X
SMI 2.0 SCH MS	24 GA	Plywood	18.75"	24"	24" O.C.	-63.5	6" O.C.		Pass			0.02 CFM	Pass		
SMI 2.0 SCH MS	24 GA	Metal	18.75"	24"	24" O.C.	-63.5	6" O.C.		Pass			0.03 CFM	Pass		
SMI 2.0 SCH MS	24 GA	Metal/ISO	18.75"	24"	24" O.C.	-71	6" O.C.		Pass			0.01 CFM	Pass		

Profile	Material	Substrate	Panel Width	Coil Width	Field Fastener Spacing	ASTM E 330 Positive Design Pressure	ASTM E 330 Negative Design Pressure
SMI Board & Batten	24 GA	Plywood	12"	16"	12 7/8"	90	83.2

Notes: Field design pressure is the highest pressure achieved for all field tests. For FBC field design pressure, please refer to the SMI FBC approval FL18316-R4. All mechanical seam panels were tested at a 180 degree seam unless otherwise noted in the profile name.



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Profile	Material	Substrate	Panel Width	Coil Width	Field Clip Spacing	Field Design Pressure	Corner Clip Spacing	Corner Design Pressure	ASTM E 1646 Water Test	TAS 100 Driven Rain	Wind	ASTM E 1680 Air Infiltration	ASTM E 2140 Submersion Test	Florida Product Approval	
														Non-HVHZ	HVHZ
SMI 1.5 MS	0.032	Plywood (3PLY)	16"	20"	16" O.C.	-67.5			Pass	Pass		0.002 CFM	Pass		
SMI 1.5 MS	0.032	Plywood (4PLY)	16"	20"	16" O.C.	-101	8"	-116	Pass	Pass		0.002 CFM	Pass	X	X
SMI 1.5 MS	0.032	Metal	16"	20"	18" O.C.	-90			Pass	Pass		0.002 CFM	Pass		
SMI 1.5 MS	0.032	Metal/ISO	16"	20"	18" O.C.	-97.5			Pass	Pass		0.002 CFM	Pass		
SMI 1.5 SL 550	0.032	Plywood	15"	20"	16" O.C.	-67.5			Pass			1.081 CFM			
SMI 1.5 SL 550	0.032	Metal	15"	20"	18" O.C.	-67.5			Pass			1.081 CFM			
SMI 1.5 SL 550	0.032	Metal/ISO	15"	20"	18" O.C.	-67.5			Pass			1.081 CFM			
SMI 1.75 SL	0.040	Plywood (4PLY)	16"	22"	16" O.C.	-116	6"	-123.5	Pass	Pass		0.265 CFM		X	X
SMI 1.75 SL	0.040	Metal	16"	22"	18" O.C.	-61			Pass	Pass		0.265 CFM			
SMI 1.75 SL	0.040	Metal/ISO	16"	22"	18" O.C.	-61			Pass	Pass		0.265 CFM			
SMI 2.0 MS	0.040	Plywood (3PLY)	16"	22"	16" O.C.	-75			Pass	Pass		0.003 CFM	Pass		
SMI 2.0 MS	0.040	Plywood (4PLY)	16"	22"	16" O.C.	142.25	8"	-153.5	Pass	Pass		0.003 CFM	Pass	X	X
SMI 2.0 MS	0.040	Metal	16"	22"	18" O.C.	-75			Pass	Pass		0.003 CFM	Pass		
SMI 2.0 MS	0.040	Metal/ISO	16"	22"	18" O.C.	-75			Pass	Pass		0.003 CFM	Pass		

Notes: Field design pressure is the highest pressure achieved for all field tests. For FBC field design pressure, please refer to the SMI FBC approval FL18316-R4.



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<u>Profile</u>	<u>Material</u>	<u>Panel</u>	<u>Width</u>	<u>Coil Width</u>	<u>Purlin Spacing</u>	<u>Hat Channel Spacing</u>	<u>ASTM E 1592 Uplift Design Pressure</u>	<u>FM 4471 Foot Traffic</u>	<u>ASTM E 330 Structural Performance Design Pressure</u>	<u>ASTM E 331 Water Penetration</u>	<u>ASTM E 283 Infiltration</u>	<u>Air</u>
SMI 2.0 MS	24 GA	18"	24"		1'		-105	Pass				
					1.5'		-96.56	Pass				
					2'		-88.13	Pass				
					2.5'		-79.69	Pass				
					3'		-71.25	Pass				
					3.5'		-62.81	Pass				
					4'		-54.38	Pass				
					4.5'		-45.94	Pass				
			5'			-37.5	Pass					
SMI 1.0 FWP	24 GA	12"	16"			1'		-65		Pass		0.00 CFM
						1.5'		-60.84	Pass		0.00 CFM	
						2'		-56.67	Pass		0.00 CFM	
						2.5'		-52.5	Pass		0.00 CFM	
						3'		-48.34	Pass		0.00 CFM	
						3.5'		-44.17	Pass		0.00 CFM	
						4'		-40	Pass		0.00 CFM	
SMI WAV-16-4F	24 GA	16"	24"			1'			-90	Pass		0.004 CFM
						4'			-60	Pass		0.004 CFM
SMI WAV-16-4C	24 GA	16"	24"			1'			-50			
						4'			-40			



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<u>Metal Roof System</u>	<u>TDI Report Number</u>
SMI 1.0 FF Snap Lock Standing Seam Steel Roofing Panels Installed Over a Plywood Deck	RC-560
SMI 1.5 450 24-Gauge SnapLock Standing Seam Steel Roofing Panels Installed Over a Plywood Deck	RC-561
SMI 1.5 450 SL 24-Gauge SnapLock Standing Seam Steel Roofing Panels Installed Over a Plywood Deck	RC-564
SMI 1.5 MS 24 Gauge Mechanical Standing Seam Metal Roof Panel Installed Over a Plywood Deck	RC-386
SMI 1.5 MS 24 Gauge Mechanical Standing Seam Metal Roof Panel Installed Over a Steel Deck	RC-395
SMI 1.5 MS 24 Gauge Mechanical Standing Seam Metal Roof Panel Installed Over an Insulated Steel Deck	RC-397
SMI 1.5 SL 550 24 Gauge SnapLock Standing Seam Metal Roof Panel Installed Over a Plywood Deck	RC-396
SMI 1.75 SL 24 Gauge SnapLock Standing Seam Metal Roof Panel Installed Over a Plywood Deck	RC-389
SMI 1.75 SL 24 Gauge SnapLock Standing Seam Metal roof Panel Installed Over a Steel Deck	RC-388
SMI 1.75 SL 24 Gauge SnapLock Standing Seam Metal Roof Panel Installed Over an Insulated Steel Deck	RC-387
SMI 2.0 MS 24 Gauge Mechanical Standing Seam Metal Roof Panel Installed Over Plywood Deck	RC-384
SMI 2.0 MS 24 Gauge Mechanical Standing Seam Metal Roof Panel Installed Metal Deck	RC-390
SMI 2.0 MS 24 Gauge Mechanical Standing Seam Metal Roof Panel Installed Over an Insulated Steel Deck	RC-383
SMI 2.0 MS 24 Gauge Mechanical Standing Seam Metal Roof Panel Installed Over Steel Purlins	RC-385