

# Technical Attributes HardieSoffit™ Panel

Effective 04/2016

James Hardie Building Products, Inc.

HardieSoffit™ Panel has been comprehensively tested and displays the following typical physical properties.

General Property	Test Method	Unit or Characteristic	Requirement	Result	
<b>PHYSICAL ATTRIBUTES</b>	ASTM C1186	Length	± 0.5%	Pass	
	ASTM C1186	Width	± 0.5%	Pass	
	ASTM C1186	Thickness	± 0.04 in.	Pass	
	ASTM C1186	Squareness	< 1/32 in./ft. of length	Pass	
	ASTM C1186	Edge Straightness	< 1/32 in./ft. of length	Pass	
	<b>Density, lb./ft<sup>3</sup></b>	ASTM C1185		As reported	< 83
	<b>Water Absorption, % by mass</b>	ASTM C1185		As reported	< 36
	<b>Water Tightness</b>	ASTM C1185	Physical Observations	No drop formation	Pass
	<b>Moisture Content, %</b>	ASTM C1185		As reported	Note 1
	<b>Moisture Movement, % Linear Change</b>	ASTM C1185	30 – 90% Relative Humidity	As reported	Note 1
			After 48-hour saturation	As reported	Note 1
	<b>Flexural Strength</b>	ASTM C1186	Wet conditioned, MPa	> 7.0 MPa	Pass
ASTM C1186		Equilibrium conditioned, MPa	> 10.0 MPa	Pass	
<b>THERMAL</b>	ASTM C177	$K_{eff} = \text{BTU/hr-ft}^2 \cdot ^\circ \text{F}$	As reported	1.95	
	ASTM C177	( $K_{eff}$ )	As reported	7.80	
	ASTM C177	$R = 1/K_{eff}$	As reported	0.51	
	ASTM C177	( R )	As reported	0.13	
<b>DURABILITY</b>	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass	
		Warm Water, % wet retention	≥ 85%	Pass	
	ASTM C1186	Physical Observations	No visible cracks or structural alteration	Pass	
	ASTM C1186	Physical Observations	No visible cracks or structural alteration	Pass	
		Mass Loss, %	≤ 3.0	Pass	
		Freeze/Thaw, % wet retention	≥ 80%	Pass	
	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass	
<b>FIRE CHARACTERISTICS</b>	ASTM E84	Flames Spread Index (FSI)	0	Pass	
		Smoke Developed Index (SDI)	≤ 5	Pass	
		Fuel Contributed	0	Pass	
		NFPA Class	As reported	A	
		Uniform Building Code™ Class	As reported	1	
		International Building Code® Class	As reported	A	
	ASTM E136	Noncombustible	Pass/fail	Pass	
	ASTM E119	Fire Resistance Rating	1-hour	Nil.	

Note 1: No pass/fail requirement, results are reported

Note 2: Listed on Warnock Hersey and ICC-ES NER-405

NOTE: In addition to the above product properties, building assemblies incorporating this product have been tested for impact performance.

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Additional installation information, warranties, and warnings are available at [www.jameshardie.com](http://www.jameshardie.com)



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