



## Heavy Density HCFC Free Rigid Phenolic Insulation

	STANDARD	UNITS	3.75	5.0	7.5	10
DENSITY*	ASTM D 1622	lb/ft <sup>3</sup>	3.75	5	7.5	10
K FACTOR*	ASTM C 518	Btu.in./ft <sup>2</sup> .°F	0.16	0.21	0.23	0.26
TEMPERATURE LIMIT		°F	-290 °F to + 250 °F	-290 °F to + 250 °F	-290 °F to + 250 °F	-290 °F to + 250 °F
COMPRESSIVE STRENGTH	ASTM D 1621	psi				
- Parallel to rise*			58	90	150	290
- Perpendicular to rise*			43	70	110	210
TENSILE STRENGTH	ASTM D 1623	psi				
- Parallel to rise*			54	85	130	160
- Perpendicular to rise*			41	65	100	130
CLOSED CELL CONTENT	ASTM D 2856	%	>95	>95	>95	>95
WATER ABSORPTION	ASTM C 209	% by volume	.5%	.5%	.5%	.5%
WATER VAPOR PERMEANCE	ASTM E 96 faced	grains/h.ft <sup>2</sup> .in.Hg	max 0.02	max 0.02	max 0.02	max 0.02
FIRE TEST CLASSIFICATIONS	ASTM E 84 25/50 flame and smoke - up to 3 inches thick Meets the requirements of ULC Canada S102 & S127 tests					
*all properties can vary by +/- 5%						
<b>OTHER DENSITIES ARE AVAILABLE ON REQUEST PLEASE CONTACT OUR TECHNICAL DEPARTMENT</b>						
Insul-phen meets the requirements of ASTM C1126 Type 11 and 111 grade 1 standard specification for faced or unfaced rigid cellular phenolic thermal insulation.						
<b>Other information</b>						
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**PHEN-OMENAL**

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