




THICKNESS & R-VALUE


R-Shield® PLUS rigid board insulation is used for a wide range of construction applications. A key advantage of R-Shield PLUS is the ability to manufacture the product to meet your R-value and thickness requirements.

THICKNESS @ 75°F					
		100	130	150	250
R-5 (RSI 0.88)	in (mm)	1 ⁵ / ₁₆ (33)	1 ⁵ / ₁₆ (33)	1 ³ / ₁₆ (30)	1 ¹ / ₈ (29)
R-7.5 (RSI 1.32)	in (mm)	2 (51)	2 (51)	1 ¹³ / ₁₆ (46)	1 ¹¹ / ₁₆ (43)
R-10 (RSI 1.76)	in (mm)	2 ⁵ / ₈ (67)	2 ⁵ / ₈ (67)	2 ³ / ₈ (60)	2 ¹ / ₄ (57)
R-15 (RSI 2.64)	in (mm)	3 ¹⁵ / ₁₆ (100)	3 ¹⁵ / ₁₆ (100)	3 ⁹ / ₁₆ (90)	3 ³ / ₈ (86)

R-VALUE @ 75°F					
		100	130	150	250
3/4 in (19mm)	°F·ft ² ·h/Btu (°K·m ² /W)	2.9 (0.52)	2.9 (0.52)	3.2 (0.55)	3.3 (0.58)
1 in (25mm)	°F·ft ² ·h/Btu (°K·m ² /W)	3.9 (0.69)	3.9 (0.69)	4.2 (0.74)	4.4 (0.77)
1-1/2 in (38mm)	°F·ft ² ·h/Btu (°K·m ² /W)	5.9 (1.03)	5.9 (1.03)	6.3 (1.11)	6.6 (1.16)
2 in (51mm)	°F·ft ² ·h/Btu (°K·m ² /W)	7.8 (1.37)	7.8 (1.37)	8.4 (1.48)	8.8 (1.55)
2-1/2 in (63mm)	°F·ft ² ·h/Btu (°K·m ² /W)	9.8 (1.72)	9.8 (1.72)	10.5 (1.85)	11.0 (1.94)
3 in (76mm)	°F·ft ² ·h/Btu (°K·m ² /W)	11.7 (2.06)	11.7 (2.06)	12.6 (2.22)	13.2 (2.32)
4 in (102mm)	°F·ft ² ·h/Btu (°K·m ² /W)	15.6 (2.75)	15.6 (2.75)	16.8 (2.96)	17.6 (3.10)

R-Shield PLUS is available in custom thicknesses. Please contact Premier Building Systems for the thickness required to meet other R-value specifications. Please refer to R-Shield PLUS TechData for additional property and performance information.

THICKNESS @ 40°F					
		100	130	150	250
R-5 (RSI 0.88)	in (mm)	1 ³ / ₁₆ (30)	1 ³ / ₁₆ (30)	1 ¹ / ₈ (29)	1 ¹ / ₁₆ (27)
R-7.5 (RSI 1.32)	in (mm)	1 ¹³ / ₁₆ (46)	1 ¹³ / ₁₆ (46)	1 ¹¹ / ₁₆ (43)	1 ⁹ / ₁₆ (40)
R-10 (RSI 1.76)	in (mm)	2 ³ / ₈ (60)	2 ³ / ₈ (60)	2 ¹ / ₄ (57)	2 ¹ / ₈ (54)
R-15 (RSI 2.64)	in (mm)	3 ⁹ / ₁₆ (90)	3 ⁹ / ₁₆ (90)	3 ³ / ₈ (86)	3 ³ / ₁₆ (81)

R-VALUE @ 40°F					
		100	130	150	250
3/4 in (19mm)	°F·ft ² ·h/Btu (°K·m ² /W)	3.2 (0.55)	3.2 (0.57)	3.5 (0.61)	3.6 (0.63)
1 in (25mm)	°F·ft ² ·h/Btu (°K·m ² /W)	4.2 (0.74)	4.3 (0.76)	4.6 (0.81)	4.8 (0.85)
1-1/2 in (38mm)	°F·ft ² ·h/Btu (°K·m ² /W)	6.3 (1.11)	6.5 (1.14)	6.9 (1.22)	7.2 (1.27)
2 in (51mm)	°F·ft ² ·h/Btu (°K·m ² /W)	8.4 (1.48)	8.6 (1.51)	9.2 (1.62)	9.6 (1.69)
2-1/2 in (63mm)	°F·ft ² ·h/Btu (°K·m ² /W)	10.5 (1.85)	10.8 (1.89)	11.5 (2.03)	12.0 (2.11)
3 in (76mm)	°F·ft ² ·h/Btu (°K·m ² /W)	12.6 (2.22)	12.9 (2.27)	13.8 (2.43)	14.4 (2.54)
4 in (102mm)	°F·ft ² ·h/Btu (°K·m ² /W)	16.8 (2.96)	17.2 (3.03)	18.4 (3.24)	19.2 (3.38)

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