



APPLICATION CHARTS

Weathershield™ Loose-fill CFI

REVISED – Issued NOVEMBER 2008

WS11*

11.5 kg (25.4 lb.) Package – Available Attic Installation Volume = 16.35 ft³ (0.463 m³) per Bag

COVERAGE CHART FOR HORIZONTAL PNEUMATIC (BLOWN ATTIC) APPLICATION									
IMPERIAL SYSTEM					METRIC SYSTEM				
Thermal Resistance R-VALUE	Minimum Thickness		Minimum Weight per unit area (lbs./ ft ²)	COVERAGE PER 25.35 lb BAG (square feet)	Thermal Resistance RSI-Value	Minimum Thickness		Minimum Weight per unit area (kg/m ²)	COVERAGE PER 11.5 kg BAG (sq. metres)
	APPLIED (inches)	SETTLED (inches)				APPLIED (mm)	SETTLED (mm)		
R- 12	3.6	3.25	0.42	60.4	RSI- 2.1	92	82	2.04	5.65
R- 20	6.1	5.42	0.70	36.2	RSI- 3.5	153	137	3.40	3.38
R- 28	8.5	7.59	0.98	25.9	RSI- 4.9	215	192	4.77	2.41
R- 30	9.1	8.13	1.05	24.1	RSI- 5.3	232	207	5.14	2.24
R- 32	9.7	8.67	1.12	22.6	RSI- 5.6	245	219	5.44	2.11
R- 34	10.3	9.21	1.19	21.3	RSI- 6.0	263	235	5.84	1.97
R- 40	12.1	10.84	1.40	18.1	RSI- 7.0	306	274	6.80	1.69
R- 44*	13.3	11.86	1.58	16.0	RSI- 7.7*	337	301	7.71	1.49
R- 50*	15.0	13.41	1.84	13.8	RSI- 8.8*	385	344	9.09	1.27
R- 60*	17.9	16.00	2.27	11.2	RSI-10.6*	464	414	11.27	1.02

DESIGN COVERAGE DENSITY – 1.55 lb/ft³ (24.83 kg/m³) for R-40 (RSI 7) and less.

The above coverage values compensate for potential settling and are for estimating purposes only.

Actual coverage will be influenced by specific job conditions and installation technique. (* adjusted coverage for higher thicknesses)

MINIMUM THICKNESS NOTE: The "Settled Thickness" values shown above are those with which the desired thermal resistance (R/RSI) values are achieved when Weathershield™ is installed at its proper design coverage density. Because this insulation product is pneumatically dispersed at the time of application, the "Applied Thickness" values above consider potential settling and have been included as a GUIDELINE only to assist the installer in achieving the proper final thickness. The actual degree of settlement (which is most often less than the 12% indicated above) will be influenced by specific job conditions (including factors like adequacy of ventilation and degree of installation difficulty) as well as application technique.

It is the minimum settled thickness that counts in providing the desired R/RSI value, regardless of what the applied thickness was initially.

COVERAGE CHART FOR VERTICAL CAVITY INJECTION (WALL FILL)			
Based on Installation Density of 3.0 lb/ft ³ (48 kg/m ³)			
Cavity Thickness Applied	Nominal " 2 x 4 " Cavity Actual thickness = 3½" (89 mm)	Nominal " 2 x 6 " Cavity Actual thickness = 5½" (140 mm)	Nominal " 2 x 8 " Cavity Actual thickness = 7¼" (184 mm)
Thermal Resistance	R-13.3 (RSI 2.34)	R-20.9 (RSI 3.68)	R-27.6 (RSI 4.85)
Maximum Coverage per Bag (uncorrected for framing considerations)	29.0 ft ² (2.69 m ²)	18.4 ft ² (1.71 m ²)	14.0 ft ² (1.30 m ²)

COVERAGE CHART FOR HAND-POUR (MANUAL) APPLICATION IN ATTIC SPACES					
Weathershield™ can be installed by breaking up the product mechanically (by rake) and/or manually (by hand) in order to provide a reasonable dispersion of fibres. Hand-pour coverage is at least 30% less than machine-blown application, depending on the effort given to breaking up the fibres. Please contact Can-Cell for recommended installation methods.					
R-10 = 2.70 inches	56.3 sq.ft. / bag	R-20 = 5.41 inches	28.1 sq.ft. / bag	R-30 = 8.11 inches	18.8 sq.ft. / bag
RSI 1.76 = 69 mm	5.23 sq. metres	RSI 3.52 = 137 mm	2.61 sq. metres	RSI 5.28 = 206 mm	1.74 sq. metres
R-15 = 4.05 inches	37.6 sq.ft. / bag	R-25 = 6.76 inches	22.5 sq.ft. / bag	R-35 = 9.46 inches	16.1 sq.ft. / bag
RSI 2.64 = 103 mm	3.49 sq. metres	RSI 4.40 = 172 mm	2.09 sq. metres	RSI 6.16 = 240 mm	1.49 sq. metres





Quickview Reference Chart

Bags needed for known attic areas

Revised January 2009



WS11

WS11 = 11.5 kg (25.4 lb) Package, Available Attic Installation Volume (per bag, pneumatically applied): 16.35 ft³ (0.463 m³)

This chart is intended as a guide for estimating the number of bags necessary to insulate known attic areas in order to achieve a specified thickness and thermal resistance or R-value (pneumatically applied) – not corrected for applicable joist volume/spacing

R-Value (Imperial)	R-12	R-20	R-28	R-30	R-32	R-34	R-40	R-44	R-50	R-60
Final Thickness (in.)	3.25	5.42	7.59	8.13	8.67	9.21	10.84	11.86	13.41	16.00
Coverage/Bag (sq.ft.)	60.4	36.2	25.9	24.1	22.6	21.3	18.1	16.0	13.8	11.2

ATTIC AREA TO BE INSULATED (Square Feet)	NUMBER OF BAGS FOR COVERAGE ESTIMATE									
	R-12	R-20	R-28	R-30	R-32	R-34	R-40	R-44	R-50	R-60
500	8.3	13.8	19.3	20.7	22.1	23.5	27.6	31.3	36.2	44.6
550	9.1	15.2	21.2	22.8	24.3	25.8	30.4	34.4	39.9	49.1
600	9.9	16.6	23.2	24.9	26.5	28.2	33.1	37.5	43.5	53.6
650	10.8	18.0	25.1	27.0	28.8	30.5	35.9	40.6	47.1	58.0
700	11.6	19.3	27.0	29.0	31.0	32.9	38.7	43.8	50.7	62.5
750	12.4	20.7	29.0	31.1	33.2	35.2	41.4	46.9	54.3	67.0
800	13.2	22.1	30.9	33.2	35.4	37.6	44.2	50.0	58.0	71.4
850	14.1	23.5	32.8	35.3	37.6	39.9	47.0	53.1	61.6	75.9
900	14.9	24.9	34.7	37.3	39.8	42.3	49.7	56.3	65.2	80.4
950	15.7	26.2	36.7	39.4	42.0	44.6	52.5	59.4	68.8	84.8
1000	16.6	27.6	38.6	41.5	44.2	46.9	55.2	62.5	72.5	89.3
1050	17.4	29.0	40.5	43.6	46.5	49.3	58.0	65.6	76.1	93.8
1100	18.2	30.4	42.5	45.6	48.7	51.6	60.8	68.8	79.7	98.2
1150	19.0	31.8	44.4	47.7	50.9	54.0	63.5	71.9	83.3	102.7
1200	19.9	33.1	46.3	49.8	53.1	56.3	66.3	75.0	87.0	107.1
1250	20.7	34.5	48.3	51.9	55.3	58.7	69.1	78.1	90.6	111.6
1300	21.5	35.9	50.2	53.9	57.5	61.0	71.8	81.3	94.2	116.1
1350	22.4	37.3	52.1	56.0	59.7	63.4	74.6	84.4	97.8	120.5
1400	23.2	38.7	54.1	58.1	61.9	65.7	77.3	87.5	101.4	125.0
1450	24.0	40.1	56.0	60.2	64.2	68.1	80.1	90.6	105.1	129.5
1500	24.8	41.4	57.9	62.2	66.4	70.4	82.9	93.8	108.7	133.9
1550	25.7	42.8	59.8	64.3	68.6	72.8	85.6	96.9	112.3	138.4
1600	26.5	44.2	61.8	66.4	70.8	75.1	88.4	100.0	115.9	142.9
1650	27.3	45.6	63.7	68.5	73.0	77.5	91.2	103.1	119.6	147.3
1700	28.1	47.0	65.6	70.5	75.2	79.8	93.9	106.3	123.2	151.8
1750	29.0	48.3	67.6	72.6	77.4	82.2	96.7	109.4	126.8	156.3
1800	29.8	49.7	69.5	74.7	79.6	84.5	99.4	112.5	130.4	160.7
1850	30.6	51.1	71.4	76.8	81.9	86.9	102.2	115.6	134.1	165.2
1900	31.5	52.5	73.4	78.8	84.1	89.2	105.0	118.8	137.7	169.6
1950	32.3	53.9	75.3	80.9	86.3	91.5	107.7	121.9	141.3	174.1
2000	33.1	55.2	77.2	83.0	88.5	93.9	110.5	125.0	144.9	178.6
2050	33.9	56.6	79.2	85.1	90.7	96.2	113.3	128.1	148.6	183.0
2100	34.8	58.0	81.1	87.1	92.9	98.6	116.0	131.3	152.2	187.5
2150	35.6	59.4	83.0	89.2	95.1	100.9	118.8	134.4	155.8	192.0
2200	36.4	60.8	84.9	91.3	97.3	103.3	121.5	137.5	159.4	196.4
2250	37.3	62.2	86.9	93.4	99.6	105.6	124.3	140.6	163.0	200.9
2300	38.1	63.5	88.8	95.4	101.8	108.0	127.1	143.8	166.7	205.4
2350	38.9	64.9	90.7	97.5	104.0	110.3	129.8	146.9	170.3	209.8
2400	39.7	66.3	92.7	99.6	106.2	112.7	132.6	150.0	173.9	214.3
2450	40.6	67.7	94.6	101.7	108.4	115.0	135.4	153.1	177.5	218.8
2500	41.4	69.1	96.5	103.7	110.6	117.4	138.1	156.3	181.2	223.2



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