

# Metric Conversion Guide

## ARCHITECTURAL TECHNICAL DATA

April 1, 2002

This guide has been prepared to establish metric equivalents for current standard dimensions on CURRIES' doors and frames. It is intended for in-house use at this time. All numbers used have been calculated using a "soft" conversion method. This means that all existing sizes and dimensions remain the same. The dimensions are simply converted to metric numbers. It is unknown at this time whether or not CURRIES' will ever undergo a "hard" metric conversion. This type of conversion involves changing the actual product dimensions to round metric numbers. We have used a conversion factor of 1" = 25.4 mm (exactly). *Nominal* dimensions are those by which a component is usually identified, i.e. 3070 door. *Net* dimensions are the actual finished size dimensions of the product, i.e. a 3070 nominal door size is a 35-13/16" x 83-1/4" net door size.

**CONVERSION EXAMPLE:** Convert a 3070 door and frame to metric dimensions.

FRAME OPENING WIDTH (NOMINAL): 36" X 25.4 mm = 914.4 mm = 914 mm  
FRAME OPENING LENGTH (NOMINAL): 84" X 25.4 mm = 2133.6 mm = 2134 mm

FRAME OPENING WIDTH (NET): 36" X 25.4 mm = 914.4 mm  
FRAME OPENING LENGTH (NET): 84" X 25.4 mm = 2133.6 mm

So, the nominal opening size is 914 mm x 2134 mm, and the net opening size is 914.4 mm x 2133.6 mm.

DOOR WIDTH (NOMINAL): 36" X 25.4 mm = 914.4 mm = 914 mm  
DOOR HEIGHT (NOMINAL): 84" X 25.4 mm = 2133.6 mm = 2134 mm

DOOR WIDTH (NET): 3/16" UNDERSIZE = 3/16" x 25.4 mm = 4.8 mm  
36" x 25.4 mm = 914.4 mm – 4.8 mm = 909.6 mm

DOOR HEIGHT (NET): 3/4" UNDERSIZE = 3/4" X 25.4 mm = 19 mm  
84" x 25.4 mm = 2133.6 mm – 19 mm = 2114.6 mm

So, the nominal door size is 914 mm x 2134 mm and the net door size is 909.6 mm x 2114.6 mm.

The attached documentation shows nominal and net conversions for:

Frame Opening Height & Width	Door Height & Width
Stop Heights	Frame Faces
Steel Gauges-Preferred	Door Thickness
Frame Returns	Frame Throat Openings
Frame Jamb Depths (3" – 14-7/8")	

More metric information will be following soon.

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<b>FRAME OPENING WIDTH</b>		
NOMINAL WIDTH	NOMINAL WIDTH	NET (ACTUAL)
<b>ENGLISH</b>	<b>METRIC</b>	<b>METRIC</b>
1'0"	305	304.8
1'2"	356	355.6
1'4"	406	406.4
1'6"	457	457.2
1'8"	508	508
1'10"	559	558.8
2'0"	610	609.6
2'2"	660	660.4
2'4"	711	711.2
2'6"	762	762
2'8"	813	812.8
2'10"	864	863.6
3'0"	914	914.4
3'2"	965	965.2
3'4"	1016	1016
3'6"	1067	1066.8
3'8"	1118	1117.6
3'10"	1168	1168.4
4'0"	1219	1219.2
5'0"	1524	1524
6'0"	1829	1828.8
7'0"	2134	2133.6

<b>DOOR OPENING WIDTH</b>		
NOMINAL WIDTH	NOMINAL WIDTH	NET (ACTUAL)
<b>ENGLISH</b>	<b>METRIC</b>	<b>METRIC</b>
		(NOM.-3/16" [4.8])
1'0"	305	300.0
1'2"	356	350.8
1'4"	406	401.6
1'6"	457	452.4
1'8"	508	503.2
1'10"	559	554.0
2'0"	610	604.8
2'2"	660	655.6
2'4"	711	706.4
2'6"	762	757.2
2'8"	813	808.0
2'10"	864	858.8
3'0"	914	909.6
3'2"	965	960.4
3'4"	1016	1011.2
3'6"	1067	1062.0
3'8"	1118	1112.8
3'10"	1168	1163.6
4'0"	1219	1214.4
5'0"	1524	1519.2
6'0"	1829	1824.0
7'0"	2134	2128.8

<b>FRAME OPENING HEIGHT</b>		
NOMINAL HEIGHT	NOMINAL HEIGHT	NET (ACTUAL)
<b>ENGLISH</b>	<b>METRIC</b>	<b>METRIC</b>
6'6"	1981	1981.2
6'8"	2032	2032
6'10"	2083	2082.8
7'0"	2134	2133.6
7'2"	2184	2184.4
7'4"	2235	2235.2
7'6"	2286	2286
7'8"	2337	236.8
7'10"	2388	2387.6
8'0"	2438	2438.4

<b>DOOR OPENING HEIGHT</b>		
NOMINAL HEIGHT	NOMINAL HEIGHT	NET (ACTUAL)
<b>ENGLISH</b>	<b>METRIC</b>	<b>METRIC</b>
		(NOM.-3/4" [19])
6'6"	1981	1962.2
6'8"	2032	2013.0
6'10"	2083	2063.8
7'0"	2134	2114.6
7'2"	2184	2165.5
7'4"	2235	2216.2
7'6"	2286	2267.0
7'8"	2337	2317.8
7'10"	2388	2368.6
8'0"	2438	2419.4

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STOP HEIGHT		
NOMINAL HEIGHT	NOMINAL HEIGHT	NET (ACTUAL)
ENGLISH	METRIC	METRIC
1/2"	12	12.7
5/8"	16	15.9
3/4"	19	19.0
1"	25	25.4
1-1/4"	32	31.7

FRAME FACES		
NOMINAL HEIGHT	NOMINAL HEIGHT	NET (ACTUAL)
ENGLISH	METRIC	METRIC
1"	25	25.4
1-1/4"	32	31.8
1-1/2"	38	38.1
1-3/4"	44	44.5
2"	51	50.8
4"	102	101.6

STEEL GAUGES		
GAUGE	METRIC	METRIC
20	.036"	.91
18	.047"	1.2
16	.055"	1.4
14	.074"	1.9
12	.104"	2.6

DOOR THICKNESS			
	NOMINAL THICK	NOMINAL THICK	NET (ACTUAL)
GA.	ENGLISH	METRIC	METRIC
20	1-3/4"	45	43.9
18	1-3/4"	45	44.5
16	1-3/4"	45	44.9
14	1-3/4"	45	45.8
20	1-3/8"	35	34.3
18	1-3/8"	35	34.9
16	1-3/8"	35	35.3
14	1-3/8"	35	36.3

FRAME RETURNS		
NOMINAL WIDTH	NOMINAL WIDTH	NET (ACTUAL)
ENGLISH	METRIC	METRIC
3/8"	10	9.5
7/16"	11	11.1
1/2"	13	12.7

FRAME FACES			THROAT OPENING (1/2" RETURNS)		
NOMINAL ENGLISH	NOMINAL METRIC	NET (ACTUAL) METRIC	NOMINAL ENGLISH	NOMINAL METRIC	NET (ACTUAL) METRIC
3"	76	76.2	2"	51	50.8
3-1/8"	79	79.4	2-1/8"	54	54.0
3-1/4"	83	82.6	2-1/4"	57	57.2
3-3/8"	86	85.7	2-3/8"	60	60.3
3-1/2"	89	88.9	2-1/2"	64	63.5
3-5/8"	92	92.1	2-5/8"	67	66.7
3-3/4"	96	95.3	2-3/4"	70	69.9
3-7/8"	98	98.4	2-7/8"	73	73.0
4"	102	101.6	3"	76	76.2
4-1/8"	105	104.8	3-1/8"	79	79.4
4-1/4"	108	108.0	3-1/4"	83	82.6
4-3/8"	111	111.1	3-3/8"	86	85.7
4-1/2"	114	114.3	3-1/2"	89	88.9
4-5/8"	118	117.5	3-5/8"	92	92.1
4-3/4"	121	120.7	3-3/4"	96	95.3
4-7/8"	124	123.8	3-7/8"	98	98.4

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JAMB DEPTH			THROAT OPENING (1/2" RETURNS)			
NOMINAL ENGLISH	NOMINAL METRIC	NET (ACTUAL) METRIC		NOMINAL ENGLISH	NOMINAL METRIC	NET (ACTUAL) METRIC
5"	127	127.0		4"	102	101.6
5-1/8"	130	130.2		4-1/8"	105	104.8
5-1/4"	133	133.4		4-1/4"	108	108.0
5-3/8"	137	136.5		4-3/8"	111	111.1
5-1/2"	140	139.7		4-1/2"	114	114.3
5-5/8"	143	142.9		4-5/8"	118	117.5
5-3/4"	146	146.1		4-3/4"	121	120.7
5-3/4" *	146	146.1	(7/16" RET)	4-7/8"	124	123.8
5-7/8"	149	149.2		4-7/8"	124	123.8
6"	152	152.4		5"	127	127.0
6-1/8"	156	155.6		5-1/8"	130	130.2
6-1/4"	159	158.8		5-1/4"	133	133.4
6-3/8"	162	161.9		5-3/8"	137	136.5
6-1/2"	165	165.1		5-1/2"	140	139.7
6-5/8"	168	168.3		5-5/8"	143	142.9
6-3/4"	172	171.5		5-3/4"	146	146.1
6-7/8"	175	174.6		5-7/8"	149	149.2
7"	178	177.8		6"	152	152.4
7-1/8"	181	181.0		6-1/8"	156	155.6
7-1/4"	184	184.2		6-1/4"	159	158.8
7-3/8"	187	187.3		6-3/8"	162	161.9
7-1/2"	191	190.5		6-1/2"	165	165.1
7-5/8"	194	193.7		6-5/8"	168	168.3
7-3/4"	197	196.9		6-3/4"	172	171.5
7-7/8"	200	200.0		6-7/8"	175	174.6
8"	203	203.2		7"	178	177.8
8-1/8"	206	206.4		7-1/8"	181	181.0
8-1/4"	210	209.6		7-1/4"	184	184.2
8-3/8"	213	212.7		7-3/8"	187	187.3
8-1/2"	216	215.9		7-1/2"	191	190.5
8-5/8"	219	219.1		7-5/8"	194	193.7
8-3/4"	222	222.3		7-3/4"	197	196.9
8-7/8"	225	225.4		7-7/8"	200	200.0
9"	229	228.6		8"	203	203.2
9-1/8"	232	231.8		8-1/8"	206	206.4
9-1/4"	235	235.0		8-1/4"	210	209.6
9-2/8"	238	238.1		8-3/8"	213	212.7
9-1/2"	241	241.3		8-1/2"	216	215.9
9-5/8"	245	244.5		8-5/8"	219	219.1
9-3/4"	248	247.7		8-3/4"	222	222.3
9-7/8"	251	250.8		8-7/8"	225	225.4

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JAMB DEPTH			THROAT OPENING (1/2" RETURNS)		
NOMINAL ENGLISH	NOMINAL METRIC	NET (ACTUAL) METRIC	NOMINAL ENGLISH	NOMINAL METRIC	NET (ACTUAL) METRIC
10"	254	254.0	9"	229	228.6
10-1/8"	257	257.2	9-1/8"	232	231.8
10-1/4"	260	260.0	9-1/4"	235	235.0
10-3/8"	264	263.5	9-3/8"	238	238.1
10-1/2"	267	266.7	9-1/2"	241	241.3
10-5/8"	270	269.9	9-5/8"	245	244.5
10-3/4"	273	273.1	9-3/4"	248	247.7
10-7/8"	276	276.2	9-7/8"	251	250.8
11"	279	279.4	10"	254	254.0
11-1/8"	283	282.6	10-1/8"	257	257.2
11-1/4"	286	285.8	10-1/4"	260	260.4
11-3/8"	289	288.9	10-3/8"	264	263.5
11-1/2"	292	292.1	10-1/2"	267	266.7
11-5/8"	295	295.3	10-5/8"	270	269.9
11-3/4"	299	298.5	10-3/4"	273	273.1
11-7/8"	302	301.6	10-7/8"	276	276.2
12"	305	304.8	11"	279	279.4
12-1/8"	308	308.0	11-1/8"	283	282.6
12-1/4"	311	311.2	11-1/4"	286	285.8
12-3/8"	314	314.3	11-3/8"	289	288.9
12-1/2"	318	317.5	11-1/2"	292	292.1
12-5/8"	321	320.7	11-5/8"	295	295.3
12-3/4"	324	323.9	11-3/4"	299	289.5
12-7/8"	327	327.0	11-7/8"	302	301.6
13"	330	330.2	12"	305	304.8
13-1/8"	333	333.4	12-1/8"	308	308.0
13-1/4"	337	336.6	12-1/4"	311	311.2
13-3/8"	340	339.7	12-3/8"	314	314.3
13-1/2"	343	342.9	12-1/2"	318	317.5
13-5/8"	346	346.1	12-5/8"	321	320.7
13-3/4"	349	349.2	12-3/4"	324	323.9
13-7/8"	352	352.4	12-7/8"	327	327.0
14"	356	355.6	13"	330	330.2
14-1/8"	359	358.8	13-1/8"	333	333.4
14-1/4"	362	361.9	13-1/4"	337	336.6
14-3/8"	365	365.1	13-3/8"	340	339.7
14-1/2"	368	368.3	13-1/2"	343	342.9
14-5/8"	371	371.5	13-5/8"	346	346.1
14-3/4"	375	374.6	13-3/4"	349	349.2
14-7/8"	378	377.8	13-7/8"	352	352.4

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