
Paper Weight Guide

In an effort to help explain paper weights we have compiled the comprehensive table listed below.
Definitions:

- **Basis Weight**
The basis weight of a paper is the designated fixed weight of 500 sheets, measured in pounds, in that paper's basic sheet size.
It is important to note that the "basic sheet size" is not the same for all types of paper.
- **Caliper**
Caliper refers to the thickness of a sheet of paper expressed in thousandth of an inch. This measurement is taken with a micro meter.
Normally, paper caliper should not have more than a + or - 5% variance within a sheet.
Generally, the relation between caliper and basis weight is the greater the caliper (the thicker the paper), the greater the paper weight.
- **Equivalent Weight**
While different paper types have different basic sizes, papers can still be compared by using equivalent weight.

Basis Weight Category Table

Type Paper	Basic Size - 500 Sheets
"Bond" Ledger Mimeo Duplicator Rag Paper	17x22"
"Offset" Book Text Coated Paper	25x38"
"Cover"	20 " x 26 "
"Tag Stock"	24 " x 36 "
"Index"	25-1/2 " x 30-1/2 "



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Basis Weight "Equivalent" Table

The Values in the table below are intended to serve as a guide only. They *should not be used as specifications* because there are variances within the same basis weight due to other characteristics of the papers. Similar weight papers may vary between different paper manufacturers.

To use the chart read across to find the equivalent, example 16 Lb. Bond paper weight is equivalent to 40 Lb. Offset paper weight.

*Normal paper manufacturing tolerance within a paper production run is +or- 5% to 7% caliper.

Bond	Offset	Cover	Tag	Index	Points	Caliper (inches)	Millimeters	Metric (grams/sq meter)
16	40	22	37	33	3.2	.0032	0.081	60.2 gsm
18	45	24	41	37	3.6	.0036	0.092	67.72 gsm
20	50	28	46	42	3.8	.0038	0.097	75.2 gsm
24	60	33	56	50	4.8	.0048	0.12	90.3 gsm
28	70	39	64	58	5.8	.0058	0.147	105.35 gsm
29	73	42	62	60	6	.0060	0.152	109.11 gsm
31	81	45	73	66	6.1	.0061	0.155	116.63 gsm
35	90	48	80	74	6.2	.0062	0.157	131.68 gsm
36	90	50	82	75	6.8	.0068	0.173	135.45 gsm
39	100	54	90	81	7.2	.0072	0.183	146.73 gsm
40	100	56	93	83	7.3	.0073	0.185	150.5 gsm
43	110	60	100	90	7.4	.0074	0.188	161.78 gsm
Bond	Offset	Cover	Tag	Index	Points	Caliper (inches)	Millimeters	Metric (grams/sq meter)
44	110	61	102	92	7.6	.0076	0.193	165.55 gsm
47	120	65	108	97	8	.0078	0.198	176.83 gsm
53	135	74	122	110	9	.0085	0.216	199.41 gsm
54	137	75	125	113	9	.0090	0.229	203.17 gsm
58	146	80	134	120	9.5	.0092	0.234	218.22 gsm
65	165	90	150	135	10	.0095	0.241	244.56 gsm
67	170	93	156	140	10.5	.0100	0.25	252.08 gsm
72	183	100	166	150	11	.0110	0.289	270.9 gsm
76	192	105	175	158	13	.0130	0.33	285.95 gsm
82	208	114	189	170	14	.0140	0.356	308.52 gsm
87	220	120	200	180	15	.0150	0.38	312 gsm
105	267	146	244	220	18	.0175	0.445	385.06 gsm



International Paper Sizes - ISO Standard

SIZE	WIDTH (inches)	HEIGHT (inches)	WIDTH (mm)	HEIGHT (mm)
A0	33.11 in.	46.81 in.	841 mm	1.189 mm
A1	23.39 in.	33.11 in.	594 mm	841 mm
A2	16.54 in.	23.39 in.	420 mm	594 mm
A3	11.69 in.	16.54 in.	297 mm	420 mm
A4	8.27 in.	11.69 in.	210 mm	297 mm
A5	5.83 in.	8.27 in.	148 mm	210 mm
A6	4.13 in.	5.83 in.	105 mm	148 mm
A7	2.91 in.	4.13 in.	74 mm	105 mm
B0	40.48 in.	57.32 in.	1.028 mm	1.456 mm
B1	28.66 in.	40.48 in.	728 mm	1,028 mm
B2	20.24 in.	28.66 in.	514 mm	728 mm
B3	14.33 in.	20.24 in.	364 mm	514 mm
B4	10.12 in.	14.33 in.	257 mm	364 mm
B5	7.17 in.	10.12 in.	182 mm	257 mm
B6	5.04 in.	7.17 in.	128 mm	182 mm



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Reference Chart for Common Envelope Sizes

Commercial / Official Sizes (Commercial Flap; unless noted)		
No.	Inches	Millimeters
6 1/4	3 1/2 x 6"	89 x 152
6 3/4	3 5/8 x 6 1/2"	92 x 165
7	3 3/4 x 6 3/4"	95 x 171
Monarch (Pointed Flap)	3 7/8 x 7 1/2"	98 x 191
8 5/8	3 5/8 x 8 5/8"	92 x 219
9	3 7/8 x 8 7/8"	98 x 225
10 (also Square Flap)	4 1/8 x 9 1/2"	105 x 241
11 (also Square Flap)	4 1/2 x 10 3/8"	114 x 264
12 (also Square Flap)	4 3/4" x 11"	121 x 279
14 (also Square Flap)	5 x 11 1/2"	127 x 292

Booklet (Wallet Flap)		
No.	Inches	Millimeters
3	4 3/4 x 6 1/2"	121 x 165
5	5 1/2 x 8 1/8"	140 x 206
6	5 3/4 x 8 7/8"	146 x 225
6 1/2	6 x 9"	152 x 241
6 5/8	6 x 9 1/2"	152 x 241
6 3/4	6 1/2 x 9 1/2"	165 x 241
7 1/4	7 x 10"	178 x 254
7 1/2	7 1/2 x 10 1/2"	191 x 267
9	8 3/4 x 11 1/2"	222 x 292
9 1/2	9 x 12"	229 x 305
10	9 1/2 x 12 5/8"	241 x 321
13	10 x 13"	254 x 330

Reference Chart for Common Envelope Sizes

Window (Commercial Flap)		
No.	Inches	Millimeters
6 1/4	3 1/2 x 6"	89 x 152
6 3/4	3 5/8 x 6 1/2"	92 x 165
7	3 3/4 x 6 3/4"	95 x 171
Monarch	3 7/8 x 7 1/2"	98 x 191
8 5/8	3 5/8 x 8 5/8"	92 x 219
9	3 7/8 x 8 7/8"	98 x 225
10	4 1/8 x 9 1/2"	105 x 241
11	4 1/2 x 10 3/8"	114 x 264
12	4 3/4" x 11"	121 x 279
14	5 x 11 1/2"	127 x 292

Announcement (Square Flap)		
No.	Inches	Millimeters
A-2	4 3/8 x 5 3/4"	111 x 146
A-6	4 3/4 x 6 1/2"	121 x 165
A-7	5 1/4 x 7 1/4"	133 x 184
A-8	5 1/2 x 8 1/8"	140 x 206
A-9	5 3/4 x 8 3/4"	146 x 222
A-10	6 x 9 1/2"	152 x 241
Baronial (Pointed Flap)		
No.	Inches	Millimeters
4	3 5/8 x 5 1/8"	92 x 130
5	4 1/8 x 5 1/2"	105 x 140
5 1/2	4 3/8 x 5 3/4"	111 x 146
6	4 3/4 x 6 1/2"	121 x 165
Lee	5 1/4 x 7 1/4"	133 x 184



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