



Cheat Sheet for Calculating MSI, plus Caliper and GSM Conversion

For calculators, visit mgxdigital.com/msi-feet-and-sheets

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WHAT IS MSI? MSI = 1,000 square inches

CALCULATE MSI OF SHEET MATERIAL

Formula: width of sheet in inches x length of the sheet in inches / 1000 = MSI

Example: 12 in x 18 in / 1000 = .216 MSI

QUICK REFERENCE:

12 in x 18 in sheet: .216 MSI

13 in x 19 in sheet: .247 MSI

12 in x 5000 ft roll: 720 MSI

PRICE PER SHEET

Formula: Price per MSI x MSI = Price per sheet

PRICE PER MSI

Formula: Price per sheet / MSI = Price per MSI

CONVERT PRICE PER MSI TO PRICE PER LINEAR FOOT

Price Per MSI x ((Web Width x 12)/1000) = Price Per Linear Foot

CALCULATE MSI OF ROLL MATERIAL

Formula: width of roll in inches x 12 x length of material in feet / 1000 = MSI

Example: 12 in x 12 x 5000 ft / 1000 = 720 MSI

CALCULATE LENGTH OF MATERIAL WITH KNOWN MSI

Formula: MSI x 1000 / (width of the material in inches x 12) = length of material in feet

Example: You receive an invoice that says 1440 MSI. You know the material is 13" wide, but you need to determine the length. 1440 x 1000 / (13 x 12) = 9,230.77 ft

CALCULATE WIDTH OF MATERIAL WITH KNOWN MSI

Formula: MSI x 1000 / (length of material in feet x 12) = width of material in inches

Example: You receive an invoice that says 720 MSI. You know you received 5,000 feet of material, but you need to determine the width. 720 x 1000 / (5000 x 12) = 12 in

Bond Ledger	Offset Text	Cover	Tag	Index	Points	Caliper (inches)	Millimeters	Metric (grams/sq meter)
16	40	22	37	33	3.2	0.0032	0.081	60.2 gsm
18	45	24	41	37	3.6	0.0036	0.092	67.72 gsm
20	50	28	46	42	3.8	0.0038	0.097	75.2 gsm
24	60	33	56	50	4.8	0.0048	0.12	90.3 gsm
28	70	39	64	58	5.8	0.0058	0.147	105.35 gsm
29	73	40	62	60	6	0.006	0.152	109.11 gsm
31	81	45	73	66	6.1	0.0061	0.155	116.63 gsm
32			74	67				120 gsm
35	90	48	80	74	6.2	0.0062	0.157	131.68 gsm
36	90	50	82	75	6.8	0.0068	0.173	135.45 gsm
39	100	54	90	81	7.2	0.0072	0.183	146.73 gsm
40	100	56	93	83	7.3	0.0073	0.185	150.5 gsm
43	110	60	100	90	7.4	0.0074	0.188	161.78 gsm
44	110	61	102	92	7.6	0.0076	0.193	165.55 gsm
47	120	65	108	97	8	0.0078	0.198	176.83 gsm
53	135	74	122	110	9	0.0085	0.216	199.41 gsm
54	137	75	125	113	9	0.009	0.229	203.17 gsm
58	146	80	134	120	9.5	0.0092	0.234	218.22 gsm
65	165	90	150	135	10	0.0095	0.241	244.56 gsm
67	170	93	156	140	10.5	0.01	0.25	252.08 gsm
72	183	100	166	150	11	0.011	0.289	270.9 gsm
76	192	105	175	158	13	0.013	0.33	285.95 gsm
82	208	114	189	170	14	0.014	0.356	308.52 gsm
87	220	120	200	180	15	0.015	0.38	312 gsm
105	267	146	244	220	18	0.0175	0.445	385.06 gsm

Chart source: Micro Format, Inc