

Compound mitres

Tilt of side from vertical (degrees)	4 sided box		6 sided box		8 sided box	
	Blade tilt (degrees)	Mitre gauge (degrees)	Blade tilt (degrees)	Mitre gauge (degrees)	Blade tilt (degrees)	Mitre gauge (degrees)
0	45	90	30	90	22.5	90
1	44.9913	89.0002	29.995	89.4227	22.4964	89.5858
2	44.9651	88.0012	29.9799	88.8457	22.4855	89.1718
3	44.9215	87.0041	29.9547	88.2693	22.4675	88.7581
4	44.8606	86.0097	29.9195	87.6937	22.4422	88.345
5	44.7824	85.0189	29.8742	87.1193	22.4097	87.9325
6	44.687	84.0326	29.819	86.5464	22.3701	87.5208
7	44.5745	83.0517	29.7537	85.9752	22.3232	87.1102
8	44.4451	82.0769	29.6786	85.4061	22.2692	86.7007
9	44.2989	81.109	29.5936	84.8392	22.2081	86.2926
10	44.136	80.1489	29.4987	84.2749	22.1399	85.8859
11	43.9568	79.1973	29.3941	83.7134	22.0646	85.481
12	43.7612	78.2549	29.2797	83.1551	21.9823	85.0778
13	43.5497	77.3223	29.1557	82.6001	21.8931	84.6767
14	43.3224	76.4002	29.0222	82.0487	21.7968	84.2776
15	43.0795	75.4892	28.8791	81.5012	21.6937	83.8809
16	42.8213	74.5898	28.7266	80.9578	21.5836	83.4866
17	42.5482	73.7026	28.5648	80.4187	21.4668	83.0949
18	42.2602	72.828	28.3938	79.8842	21.3432	82.7059
19	41.9578	71.9664	28.2136	79.3545	21.2129	82.3197
20	41.6411	71.1183	28.0243	78.8298	21.0759	81.9366
21	41.3106	70.2839	27.8261	78.3102	20.9324	81.5566
22	40.9665	69.4637	27.6191	77.7961	20.7823	81.1799
23	40.6091	68.6579	27.4034	77.2875	20.6257	80.8066
24	40.2388	67.8666	27.1791	76.7847	20.4628	80.4369
25	39.8557	67.0902	26.9462	76.2878	20.2935	80.0707
26	39.4603	66.3287	26.705	75.797	20.1179	79.7084
27	39.0528	65.5824	26.4555	75.3125	19.9362	79.35
28	38.6336	64.8513	26.198	74.8344	19.7483	78.9955
29	38.203	64.1354	25.9324	74.3628	19.5544	78.6452
30	37.7612	63.4349	25.6589	73.8979	19.3546	78.2991
31	37.3087	62.7498	25.3777	73.4398	19.1489	77.9573
32	36.8456	62.08	25.0889	72.9886	18.9373	77.6199
33	36.3723	61.4256	24.7926	72.5444	18.7201	77.2871
34	35.8891	60.7864	24.489	72.1073	18.4972	76.9588
35	35.3963	60.1624	24.1782	71.6775	18.2688	76.6353
36	34.8941	59.5536	23.8603	71.2549	18.035	76.3165
37	34.3829	58.9598	23.5355	70.8398	17.7957	76.0026
38	33.8629	58.381	23.204	70.4321	17.5512	75.6936
39	33.3344	57.817	22.8657	70.032	17.3016	75.3897

40	32.7978	57.2676	22.521	69.6394	17.0468	75.0908
41	32.2531	56.7328	22.1699	69.2545	16.787	74.7971
42	31.7007	56.2123	21.8126	68.8773	16.5223	74.5086
43	31.1409	55.7061	21.4492	68.5079	16.2529	74.2254
44	30.574	55.2139	21.0799	68.1462	15.9787	73.9475
45	30	54.7356	20.7048	67.7923	15.6999	73.6751
46	29.4193	54.271	20.324	67.4463	15.4165	73.408
47	28.8322	53.82	19.9378	67.1082	15.1288	73.1465
48	28.2388	53.3823	19.5461	66.778	14.8367	72.8906
49	27.6393	52.9578	19.1492	66.4557	14.5404	72.6402
50	27.034	52.5463	18.7472	66.1413	14.24	72.3955
51	26.4231	52.1476	18.3403	65.8349	13.9356	72.1564
52	25.8068	51.7615	17.9285	65.5364	13.6272	71.9231
53	25.1853	51.3879	17.5121	65.2459	13.315	71.6955
54	24.5588	51.0266	17.0911	64.9634	12.9991	71.4737
55	23.9275	50.6773	16.6658	64.6888	12.6796	71.2577
56	23.2915	50.34	16.2361	64.4221	12.3565	71.0476
57	22.6511	50.0144	15.8023	64.1634	12.03	70.8433
58	22.0064	49.7005	15.3646	63.9127	11.7002	70.645
59	21.3576	49.3979	14.9229	63.6698	11.3672	70.4526
60	20.7048	49.1066	14.4775	63.4349	11.0311	70.2661
61	20.0483	48.8264	14.0285	63.208	10.692	70.0856
62	19.3882	48.5572	13.576	62.9889	10.3499	69.9111
63	18.7246	48.2988	13.1202	62.7777	10.005	69.7426
64	18.0577	48.051	12.6612	62.5743	9.6575	69.5801
65	17.3877	47.8137	12.1991	62.3789	9.3073	69.4236
66	16.7147	47.5869	11.734	62.1912	8.9546	69.2732
67	16.0388	47.3703	11.2661	62.0114	8.5995	69.1289
68	15.3602	47.1638	10.7954	61.8394	8.2421	68.9906
69	14.6791	46.9674	10.3222	61.6752	7.8825	68.8584
70	13.9954	46.7808	9.8466	61.5188	7.5208	68.7323
71	13.3095	46.6041	9.3685	61.3701	7.1571	68.6124
72	12.6214	46.437	8.8883	61.2291	6.7914	68.4985
73	11.9313	46.2795	8.406	61.0959	6.424	68.3908
74	11.2392	46.1315	7.9216	60.9704	6.0549	68.2892
75	10.5453	45.993	7.4355	60.8526	5.6842	68.1937
76	9.8497	45.8637	6.9476	60.7424	5.312	68.1043
77	9.1526	45.7437	6.458	60.6399	4.9384	68.0211
78	8.454	45.6329	5.967	60.5451	4.5635	67.9441
79	7.7541	45.5312	5.4746	60.4579	4.1874	67.8732
80	7.053	45.4385	4.9809	60.3783	3.8102	67.8084
81	6.3508	45.3549	4.4861	60.3064	3.4321	67.7498
82	5.6476	45.2802	3.9902	60.242	3.053	67.6974
83	4.9436	45.2143	3.4935	60.1853	2.6731	67.6512
84	4.2388	45.1574	2.9959	60.1361	2.2925	67.6111
85	3.5333	45.1092	2.4976	60.0945	1.9113	67.5771

86	2.8273	45.0699	1.9988	60.0605	1.5297	67.5494
87	2.1208	45.0393	1.4995	60.034	1.1476	67.5278
88	1.4141	45.0175	0.99985	60.0151	0.76523	67.5123
89	0.70709	45.0044	0.49998	60.0038	0.38267	67.5031
90	0	45	0	60	0	67.5

---