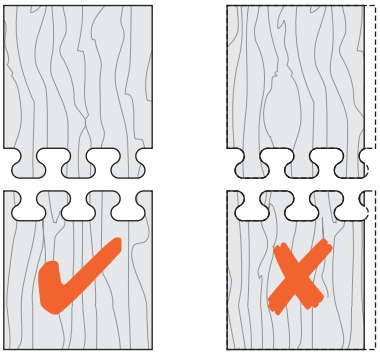
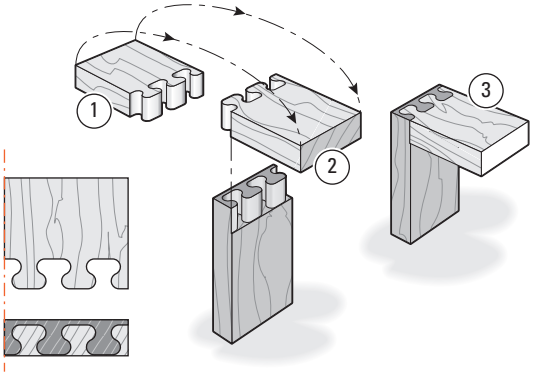
ISOLOC - CHAPTER 5

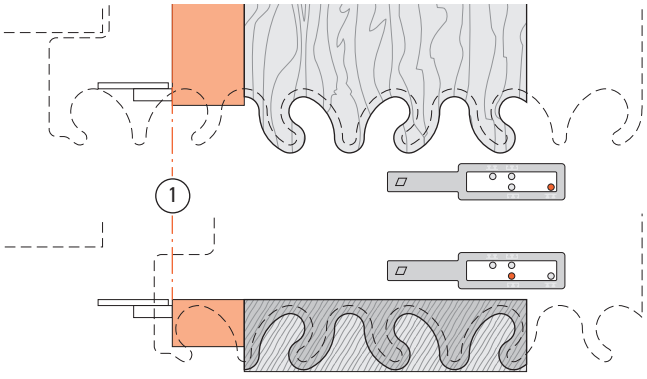
Board Width Selection



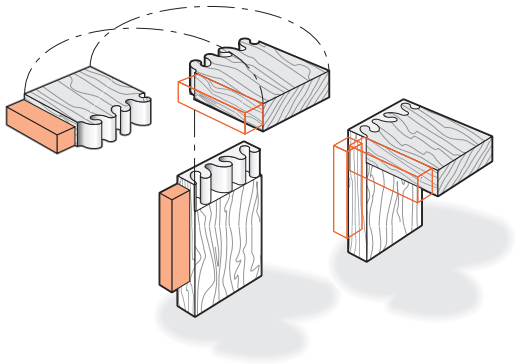
5-1 Board Widths and Isoloc Joint Symmetry
Unlike the infinitely variable Leigh Dovetail Jig, a fixed template cannot accommodate random board widths and still produce an even finish on both side edges of a joint. Usually, the boards should be cut to specific widths, depending on the pitch of the pattern. A complete chart of board widths is at the end of this chapter. Joint specifications are in Appendix II.



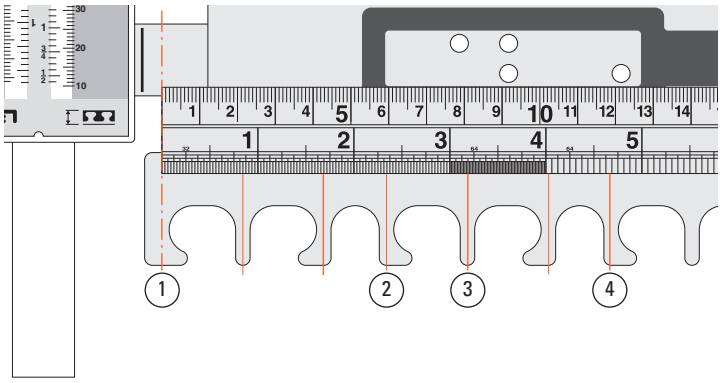
5-2 However, this is not a firm rule for Isoloc joints. This rule is made to be broken; for instance, to achieve a particular depth drawer may require an asymmetrical layout.
This drawing shows the socket board position for cutting in the jig ①, being rotated into position ② to fit into the pin board, and the finished joint ③. Although asymmetrical, it is still an attractive joint.



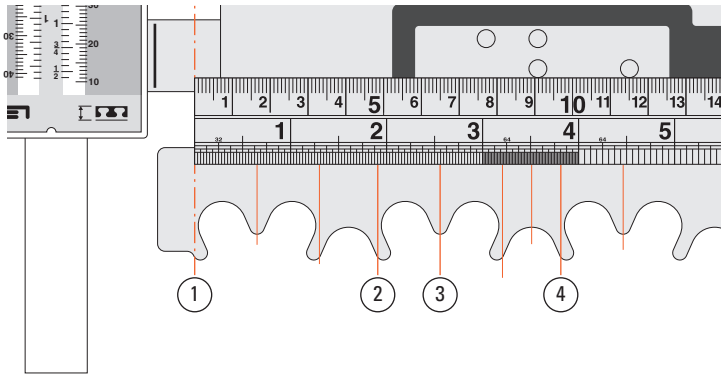
5-3 Also, joints made on "double" patterns like *Wave, Mirror Key* and *Bears Ears* may be started at points other than the left edge by simply blocking the mating pieces away from the side stop, shown here as a base line ①.



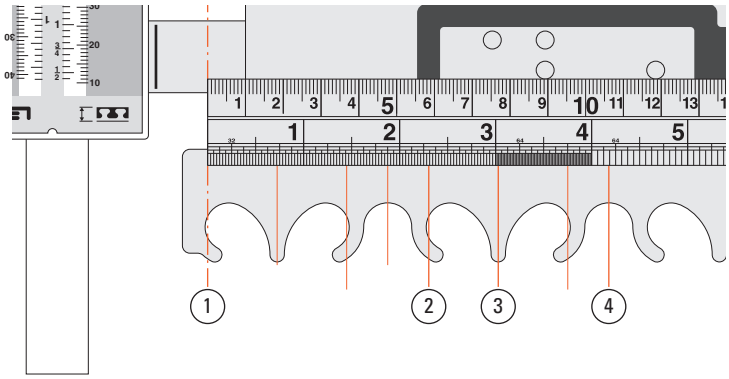
5-4 The joint is cut and assembled exactly the same way as before.



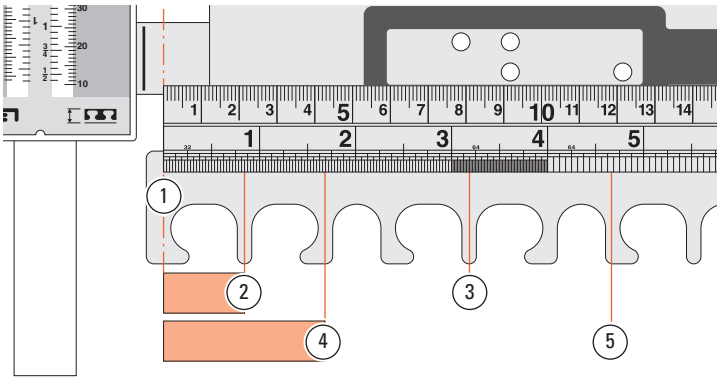
5-5 If the board width selection chart does not provide the width you require, try this. Measure the template from ① to find the width required for your layout. For instance, with the *Mirror Key* template, joints could be multiples of the pitch (2.339"[59.4mm]) or as shown here (approximate measurement), starting from ①:
② 2⅜" [60mm], ③ 3⅛" [79mm], ④ 4 11⁄16" [118mm], etc.



5-6 With the *Bear Ears* template, joints could be multiples of the pitch 1.919"[48.7mm] or as shown here (approximate measurement), starting from ①:
② 1⅞"[48mm],
③ 2 11⁄16"[65mm],
④ 3⅞"[98mm], etc.



5-7 The *Wave* template joints could be multiples of the pitch 2.312"[58.7mm] or as shown here (approximate measurement), starting from ①:
② 2⅜"[60mm],
③ 3"[76mm],
④ 4 5⁄16"[109mm], etc.



5-8 In the three previous examples the board widths are from the same start point ①. Here, you can see that by blocking away from the side stops, other widths and/or different edge treatments are possible, i.e.,
② to ③=2⅜"[60mm] and
④ to ⑤=3"[76mm]. ■

BOARD WIDTH SELECTION CHART

A I1, I1600, I24

KEY		MIRROR KEY	
inches	mm	inches	mm
1 1/32	26	1 11/16	43
2 1/16	52	4 1/32	102
3 3/32	79	6 3/8	162
4 1/8	105	8 23/32	221
5 5/32	131	11 1/32	280
6 3/16	157	13 3/8	340
7 7/32	184	15 23/32	399
8 1/4	210	18 1/8	460
9 5/16	236	20 13/32	518
10 11/32	262	22 3/4	578
11 3/8	289		
12 13/32	315		
13 7/16	341		
14 15/32	367		
15 1/2	394		
16 17/32	420		
17 9/16	446		
18 19/32	472		
19 5/8	499		
20 21/32	525		
21 23/32	551		
22 3/4	577		
23 25/32	604		

I1600 Template

I1 & I24 Templates

B I1, I1600, I18, I24

CLOVER		BEARS EARS	
inches	mm	inches	mm
1 3/32	28	1 1/4	31
2 5/32	55	3 5/32	80
3 1/4	83	5 1/16	129
4 11/32	110	7	178
5 13/32	138	8 29/32	226
6 1/2	165	10 27/32	275
7 19/32	193	12 3/4	324
8 11/16	220	14 21/32	373
9 3/4	248	16 19/32	421
10 27/32	275	18 1/2	470
11 15/16	303	20 7/16	519
13	330	22 11/32	567
14 3/32	358		
15 3/16	385		
I18 16 1/4	413		
17 11/32	440		
18 7/16	468		
19 1/2	496		
20 19/32	523		
21 11/16	551		
22 3/4	578		
23 27/32	606		

I1600 Template

I1 & I24 Templates

C I1, I1600

ELLIPSE		WAVE	
inches	mm	inches	mm
1 3/32	28	1 1/2	38
2 7/32	56	3 13/16	97
3 5/16	84	6 1/8	156
4 7/16	112	8 7/16	215
5 17/32	140	10 3/4	273
6 5/8	169	13 1/16	332
7 3/4	197	15 3/8	391
8 27/32	225	17 11/16	449
9 31/32	253	20	508
11 1/16	281	22 5/16	567
12 5/32	309		
13 9/32	337		
14 3/8	365		
15 15/32	393		
16 19/32	421		
17 11/16	449		
18 13/16	477		
19 29/32	505		
21	534		
22 1/8	562		
23 7/32	590		

I1600 Template

I1 Template

Note: For much greater options of board widths on the three double joint patterns, please see pages 19 and 20.