

Concealed Mortice Hinges

Soss - Choosing the Right Soss Hinge

3



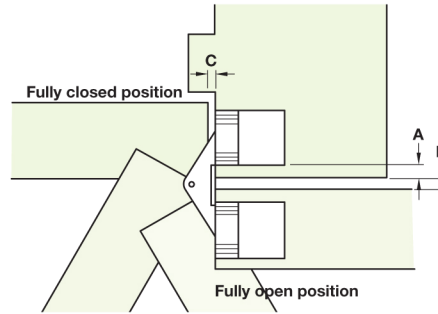
Recommended router cutters and guide bushes for each SOSS hinge type are listed below (not supplied)

Hinge type	Two flute, long shank router cutter*	Guide bush*
101	5.0 mm	12 mm
203	9.0 mm	16 mm
204	9.0 mm	16 mm
208	12.7 mm	20 mm
212	12.7 mm	20 mm
216	12.7 mm	20 mm
218	12.7 mm	20 mm
220	12.7 mm	20 mm

Suggested routing depths

Hinge type	Shallow Mortise*	Deep Mortise
101	5.5 mm	13 mm
203	5.0 mm	20 mm
204	6.4 mm	20 mm
208	7.0 mm	25 mm
212	9.5 mm	29 mm
216	12.0 mm	39 mm
218	10.3 mm	43 mm
220	11.9 mm	51 mm

*Adjust this dimension to suit your application and always try a test hinge assembly with your selection of cutters and guide bushes prior to production

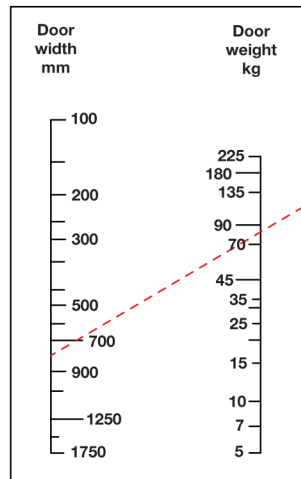


Soss hinge	A (mm)	B (mm)	C (mm)
101	2.4	2.7	0.8
203	32	2.7	0.8
204	3.2	2.7	1.6
208	4.0	3.5	1.2
212	4.8	4.0	1.2
216	6.4	5.5	1.6
218	6.4	9.5	1.6
220	7.2	12.7	1.6

The table above gives hinge clearances. Measurement A can be reduced as required but must not be exceeded. The jig is set for routing measurement A at its maximum

This diagram above shows a section through a wood mounted hinge assembly in its fully opened position. It gives the unique elliptical path travelled by a SOSS hinge from closed at 0° to its full 180° opening

- Soss hinges are shown on pages 61 to 64
- Routing jigs for Soss hinges are shown on page 64

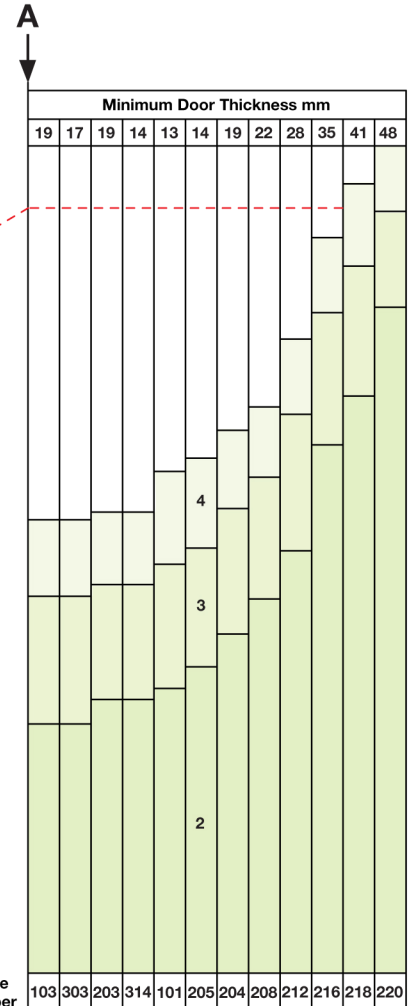


Choosing the right Soss hinge:

Firstly determine the width, thickness and weight of the door
 Then draw a straight line on the chart, starting on the left hand side at the appropriate point on the Door Width column and running through the correct point on the Door Weight column to end at line A
 At the point where your line meets line A, draw a horizontal line across the chart to the column which indicates the thickness of your door
 Looking down the column, you will then see the number of hinges you require and, at the foot of the column, the relevant hinge number

Example:

A door 760 mm wide that weighs 90 kg and has a thickness of 41 mm would require four Soss hinges No. 218. The dotted red line shows how this result was determined from the chart.



Note: Soss hinges 103, 303, 314 and 205 are not shown in this catalogue. Information on request