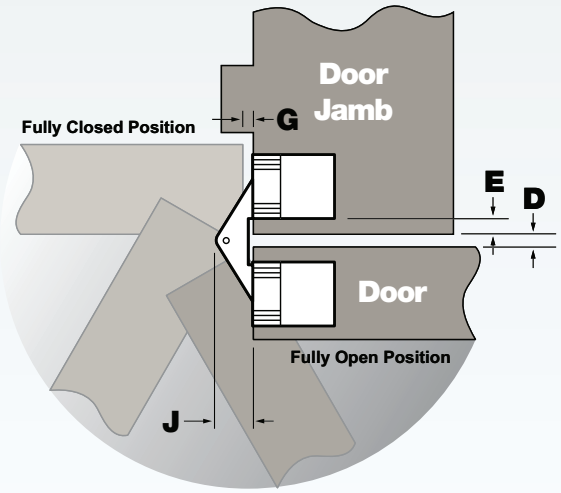
Path & Clearance for Doors

The diagram below left shows the typical path of a SOSS hinged door. The table shows the door clearance when fully opened for each SOSS hinge.

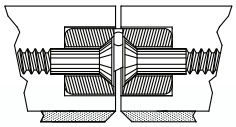


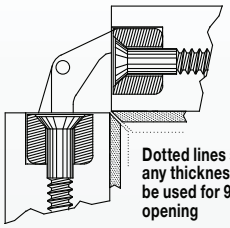
	Dimensions							
	E		D		G		J	
Hinge No.	Inch	mm	Inch	mm	Inch	mm	Inch	mm
101	3/32	2.4	7/64	2.78	1/32	0.8	11/64	4.37
103	1/8	3.2	1/8	3.18	1/32	0.8	7/32	5.56
303	1/8	3.2	1/8	3.18	1/32	0.8	15/64	5.95
314	1/8	3.18	13/64	5.16	3/32	2.4	1/4	6.35
203	1/8	3.2	7/64	2.78	1/32	0.8	15/64	5.95
204	1/8	3.2	7/64	2.78	1/32	0.79	15/64	5.95
208	5/32	4.0	9/64	3.57	3/64	1.2	5/16	7.94
212	3/16	4.8	11/64	4.37	3/64	1.2	3/8	9.53
216	1/4	6.4	15/64	5.95	1/16	1.6	33/64	13.10
218	1/4	6.4	3/8	9.53	1/16	1.2	1/2	12.70
220	9/32	7.1	1/2	12.7	1/16	1.6	39/64	15.48

Open Clearance for Special Doors with Added Material

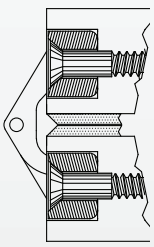
Many doors often have applied material to the pull or push side of a door. This could be an applied mirror, paneling, trim or baseboard. When using SOSS Invisible hinges and applying material to the push side of your door and/or frame, there is no concern with the hinges working as designed. However, as material is applied to the pull side face of the door and/or frame, modifications to how the hinges are installed are often times required. Following are diagrams and information about typical modifications to the installation of SOSS Invisible Hinges when applying material to the pull side face of the door and/or frame.

180° Opening – Standard backset with material applied to door and frame



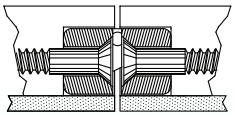


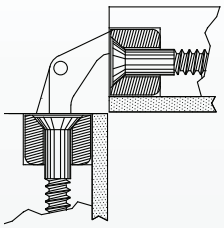
Dotted lines show any thickness can be used for 90° opening



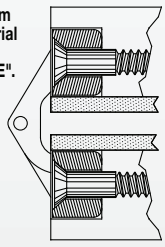
A 45° bevel on applied material with a thickness less than half the max. door clearance will provide 180° door opening. See hinge template drawing for door clearance at 180° opening.

180° Opening with no backset and material applied to door and frame

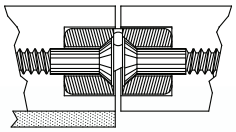


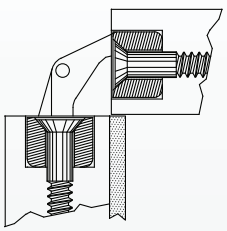


The maximum added material thickness = dimension "E".

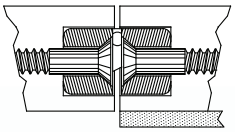


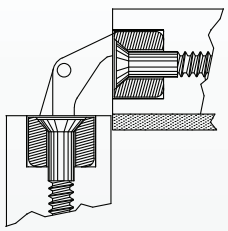
90° Opening – Standard backset with material applied to door only

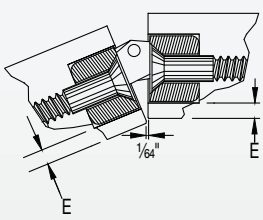




90° Opening – Standard backset with material applied to frame only







Clearance reduces to approximately 1/64" as door approaches the frame upon opening. Beyond that point, the clearance increases to the maximum clearance when the door reaches its fully open position at 180°. See the hinge template drawing for that dimension. If the template "E" dimension is exceeded, the door will hit the jamb and bind. See specifications for SOSS Invisible Hinges on previous pages for dimension "E".