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SOSS Hinges

SOSS Hinges & accurate fitting

Fitting your SOSS hinges with a template will ensure that a perfectly routed shape is easily achieved, mortice dimensions MUST NOT be taken from the hinge body itself. The aluminium routing jig is designed to act as an almost universal base-plate into which precision templates for most SOSS hinges can be slotted and changed as required saving fitting time while allowing an accurate, professional installation. Alternatively, separate dedicated templates are available for both standard and E30/60 variants which require allowance in the mortice for the intumescent hinge pads.

The spacing of hinges is critical to the correct functioning of the door (see diagram). As with traditional hinges, fitting a doorstop too close to the hinge face can cause excessive leverage and damage may result.

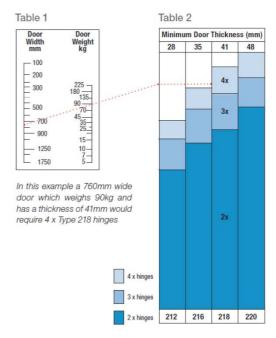
Care should be taken when specifying concealed hinges in general to ensure that the door leaf does NOT engage on any architrave or door frame, thereby creating a fulcrum and so likely damaging not only the hinge but also the door and frame. In addition as concealed hinges have a travelling pivot point advice should be sought from manufacturers regards suitability when being used with door closers as many door closers are designed to perform optimally when used in conjunction with single axis hinges where the pivot point is offset to the door leaf.

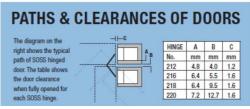
Selecting the appropriate hinge The number of SOSS hinges required for a door are simply calculated from the tables (right).

Given the weight, width and thickness of a door, the tables combine to identify the number of hinges required. When used in conjunction with a spring-loaded door closer (Type 218 hinge only), the number of hinges required is reduced by one, replaced with the closer hinge.

Step-by-step guide to calculating how many hinges you need:

- Determine the width, thickness and weight of the door.
- Starting with the door width on the left hand side of Table 1, draw a line through the appropriate weight on the right hand side
- Continue the line up towards Table 2.
- Where the diagonal intersects with Table 2, draw a horizontal line across to the shaded columns, which indicates the door thickness.
- The number of hinges (either 2, 3 or 4) is shown in the shaded areas and, at the foot of the column, the relevant hinge type. At the top is shown the minimum door thickness for each hinge size. Thicker doors are not a problem, the hinge is positioned relative to the door face.





NB: Hinge may be offset in mounting but dimension A must not be exceeded Mortice dimensions above do NOT include for the HP218 intumescent hinge pad pack (required for E30/E60 installations)

SPECIFICATIONS	MEDIUM DUTY		HEAVY DUTY	
HINGE NOs.	212	216	218	220
	mm	mm	mm	mm
LENGTH	95.3	117.5	117.5	140
WIDTH	19	25.4	28.6	35
DEPTH OF PLATE	9.5	12	10.3	11.9
MINIMUM THICKNESS OF WOOD METAL SELECTION	28	35	46.5	51
DEPTH OF MORTICE	28	36.5	42	49.5
CLEARANCE WHEN OPEN	13.5	18.3	22.2	27
SIZE OF WOOD SCREWS	4.5 X 30mm	No. 6 x 40mm	4.5 x 40mm	5.5 x 50mm

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212

212-STD-BP Standard - Brass Plated
212-STD-NP Standard - Nickel Plated
95.3 x 19 x 27mm concealed hinge
Minimum door thickness 28mm
Maximum adjusted door weight (see chart previous)
Radiused forends for easier door/frame preparation
180° opening

Installation jig and template: 212 TEMPLATE & HINGE JIG Available in Satin Brass or Satin Nickel

52 14 20 98 98

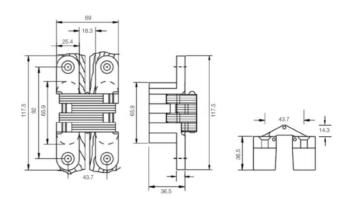
Hinge dimensions as shown should NOT be used

for morticing, please see paths of clearance or installation instructions for mortice details



216

216-STD-BP Standard - Brass Plated
216-STD-NP Standard - Nickel Plated
117.5 x 25.4 x 36.5mm concealed hinge
Minimum door thickness 40mm
Maximum adjusted door weight (see chart previous)
Radiused forends for easier door/frame preparation
180° opening
Installation jig and template: 216 TEMPLATE & HINGE JIG
Available in Satin Brass or Satin Nickel



210

Fire Rated (E30) to BS EN 1634-1

RT-218-FIRE-BP 30 Minute Fire Rated - Brass Plated RT-218-FIRE-NP 30 Minute Fire Rated - Nickel Plated RT-218-SSL-NP Stainless Steel Link and Pins Standard Body - Nickel Plated

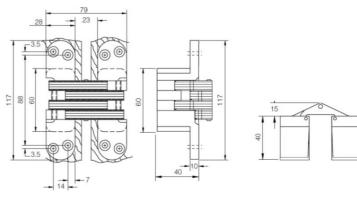
Fire Rated (E60) to BS EN 1634-1

RT- 218-FIRE-SS 60 Minute Fire Rated - Stainless Steel

218-STD-BP Standard - Brass Plated 218-STD-NP Standard - Nickel Plated 117.5 x 28.5 x 42mm concealed hinge Minimum door thickness 44mm Maximum adjusted door weight (see chart previous)

If being installed to EN1634-1 (for 30 or 60 minutes) please request either intumescent hinge pad pack 30 or 60min pad pack HP218 Radiused forends for easier door/frame preparation 180° opening

Installation jig and template: 218 TEMPLATE & HINGE JIG Available in Satin Brass, Satin Nickel or Stainless Steel



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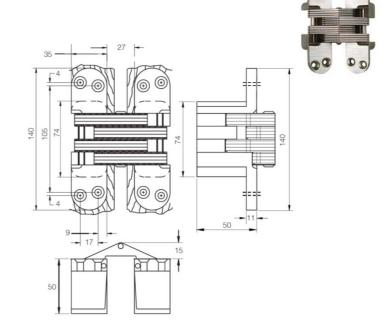
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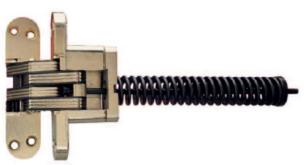
SOSS Hinges

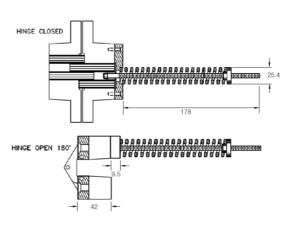
220-STD-BP Standard - Brass Plated
220-STD-NP Standard - Nickel Plated
140 x 35 x 50mm concealed hinge
Minimum door thickness 54mm
Maximum adjusted door weight (see chart previous)
Radiused forends for easier door/frame preparation
180° opening

Installation jig and template: 220 TEMPLATE & HINGE JIG Available in Satin Brass or Satin Nickel



218-CLOSER-BP Integral Closer NON Fire Rated - Brass Plated 218-CLOSER-NP Integral Closer NON Fire Rated - Nickel Plated 218-FCLOSER-BP Integral Closer 30 Minute Fire Rated - Brass Plated 218-FCLOSER-NP Integral Closer 30 Minute Fire Rated - Nickel Plated





ROUTING JIGS AND TEMPLATES FOR HIRE/PURCHASE

JIG-TEMPLATE Aluminium Routing Jig 212-TEMPLATE 212 Hinge Template 216-TEMPLATE 216 Hinge Template 218-TEMPLATE 218 Hinge Template 220-TEMPLATE 220 Hinge Template

To hire: the purchase price less 15% will be credited on return of jigs and templates in good condition $\,$

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