01



Hinges

Precision ball bearing hinges engineered for fire-rated and heavy-duty doors.

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HINGES

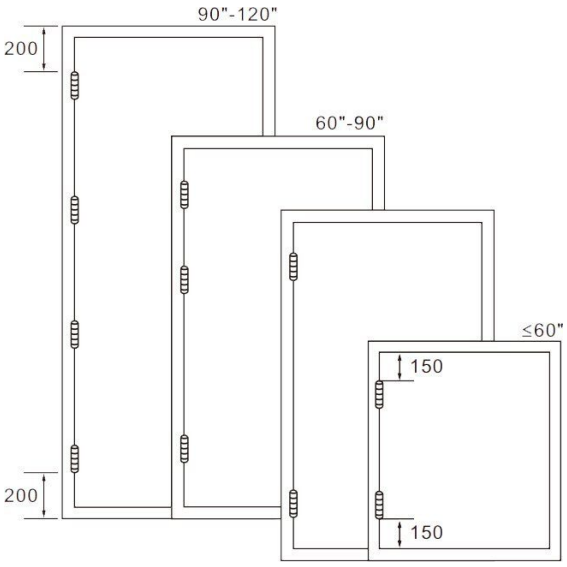
Hinge technical considerations

The appropriate specification and correct selection of hinges is crucial to their performance and depends on the following factors.

01	02	03	04
Door weight	Door size	Location	Intended use

QUESTIONS TO ASK BEFORE YOU SPECIFY

1. Is it a fire, smoke or emergency escape door?
2. How heavy is the door, and what are its dimensions (height, width and thickness)?
3. What is the door's construction, and are there any unusual features that could affect the hinges?
4. Where is the door situated — e.g. internal or external, near the coast or a swimming pool?
5. What level of use or abuse will the door be subject to — e.g. office, hospital or school corridor?
6. What other hardware will be fitted that may affect hinge performance, typically a door closer or door stops? A door closer, for example, increases the loading weight.
7. Are there any other unusual features — e.g. a radius-top door or a bifold?



HINGE POSITIONS BY DOOR HEIGHT

INSTALLATION SPECIFICATION

- Maximum adjusted door weight: 120 kg
- For steel doors, supplied with M5 × 12 mm screws
- For wood doors, supplied with flat head countersunk wood screws
- Available with square corners or radius R10

HINGES

2BB Hinge

ART. NO. IH-4x3x3 / IH-4x3.5x3 / IH-4x4x3 / IH-4.5x4x3



SIZE (H × W, INCH)	4″ × 3″	4″ × 3.5″	4″ × 4″	4.5″ × 4″
Thickness (mm)	3	3	3	3
Non-handed	✓	✓	✓	✓
5 knuckles	✓	✓	✓	✓
Ball bearing (2BB)	✓	✓	✓	✓

ART. NO.	HEIGHT (IN)	WIDTH (IN)	THICK. (MM)
IH-4x3x3	4	3	3
IH-4x3.5x3	4	3.5	3
IH-4x4x3	4	4	3
IH-4.5x4x3	4.5	4	3

FINISHES

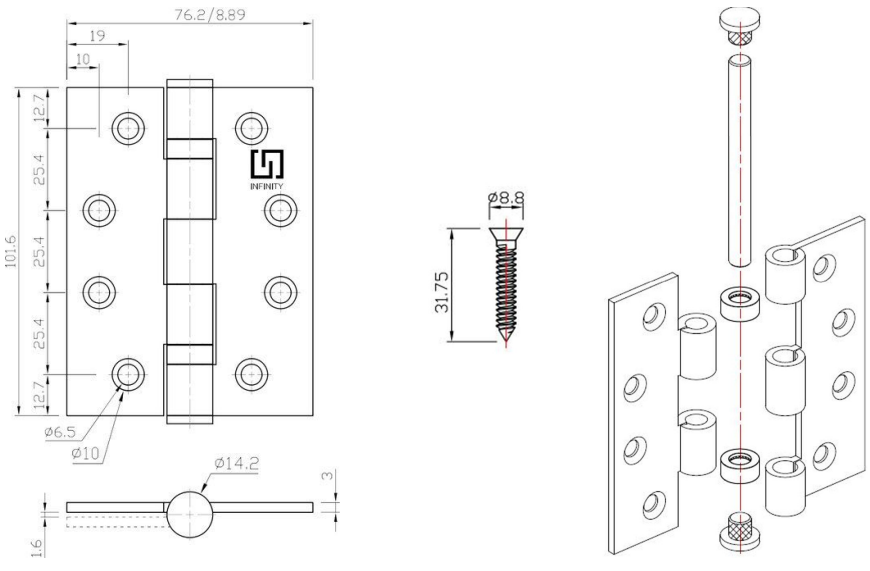
SSS PSS AB SB PB MB

CE EN 1935 Cycles Tested up 200,000

FEATURES

- Double ball bearing, five knuckle hinge
- Conforms to BS EN 1935
- Supplied with SS screws
- Load bearing capacity up to 120 kg
- Available square or radius
- Tested to over 200,000 cycles
- Suitable for fire / smoke resistant doors
- Finished with softened edges
- Pre-cut intumescent hinge pads available

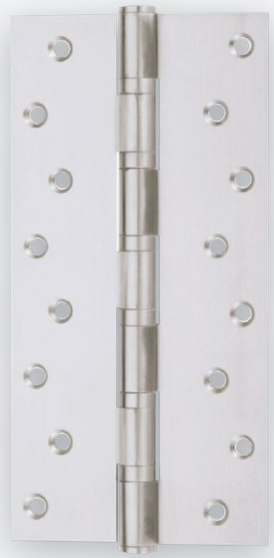
TECHNICAL DRAWING



HINGES

Heavy Duty Hinge

ART. NO. IH-6x3.5x3 / IH-8x4x3



SIZE (H × W, INCH)	6″ × 3.5″	8″ × 4″
Thickness (mm)	3	3
Non-handed	✓	✓
Knuckles	5	7
Ball bearing	4BB	6BB

ART. NO.	HEIGHT (IN)	WIDTH (IN)	THICK. (MM)
IH-6x3.5x3	6	3.5	3
IH-8x4x3	8	4	3

FINISHES

SSS PSS AB SB PB MB

FEATURES

- Heavy duty ball bearing hinge
- Supplied with SS screws
- Available square
- Finished with softened edges

TECHNICAL DRAWING

