Hinges
Hinges

Manufactured from high grade stainless steel, the Yale Hinges are designed to provide an effective solution to hanging doors where there is a need for high grade quality button-tipped hinges.

Features and Specifications

Standards
- Design complying to EN1935

Non-rising pin
- Easily seated pin that will not rise during normal use
- Pin is made of stainless steel 304 to ensure durable performance
- Non removal pin option

Application
Selecting hinges recommended in this catalogue there are a few variables which must be considered and guidelines to be observed.
To determine hinge selection for individual doors, it is recommended that the guidelines contained in this catalogue are followed.
When reading dimensions, the first figure always indicates the height and the second indicates the width, e.g. 102 mm x 76 mm.

Hinge Height
The appropriate hinge height for any job is dependent upon the door width, thickness and weight. The height of the hinge is the length of the flap, not including the tips of the pin, as shown in Diagram 1.

Hinge Width
The door thickness and door jamb width (also trim size if applicable) determine the width of the hinge required. The width is measured across the leaves when the hinge is fully opened as shown in Diagram 1.

Diagram 1

Number of Hinges per Door
The following quantity of hinges are recommended for doors of various door height:
- 2 hinges: Up to 1524mm
- 3 hinges: 1524mm– 2286mm
- 4 hinges: 2286mm– 3048mm
Note:
- Each additional 762mm(30") add one hinge
- 3 hinges can keep door vertical such that to avoid hinge wear

Types of hinges available
- Two Ball Bearing Hinge
- Stainless Steel Washers Hinge
- Plain Hinge

Hinge Selection
The chart on will be most useful in selecting the correct hinge type. Simply identify read off the recommended hinge selection. Variations to this chart will need to be made only in unusual circumstances on specific jobs or according to personal preferences.

Commercial
Heavy, duty high premium – Stainless Steel Ball Bearing Button Tip Hinges are recommended for commercial applications, particularly on ‘high traffic’ doors. Stainless Steel Ball Bearing hinges should be used on heavy doors. These can generally be classified as steel glazed doors, solid core timber doors and fire doors.
Stainless Steel Ball Bearing hinges should also be used on doors fitted with closers or automatic door operating equipment.

Finishes
Satin Stainless Steel - US32D
Standard - Stainless Steel Button Tipped Hinge

Suitable for general purpose interior/exterior doors where a standard hinge is required.

- Manufactured from high grade stainless steel.
- Non-rising pin facilitate install.
- Template drilled holes.
- SS304.

Product Information:

<table>
<thead>
<tr>
<th>Model No:</th>
<th>Finishes</th>
<th>Product Description</th>
<th>Hinge size (mm)</th>
<th>Max Door weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3S2BB403025-CE</td>
<td>US32D</td>
<td>Yale 102 x 76 x 2.5 - 2 Ball Bearing Button Tipped</td>
<td>Height 102</td>
<td>120kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Width 76</td>
<td>Width 76</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thick 2.5</td>
<td>Thick 2.5</td>
<td></td>
</tr>
</tbody>
</table>

Part Description

102 x 76

FIRE RATED
# Hinges

## Standard - Stainless Steel Button Tipped Hinge

Suitable for general purpose interior/exterior doors where a standard hinge is required.

- Manufactured from high grade stainless steel.
- Non-rising pin facilitate install.
- Template drilled holes.
- SS304

### Product Information:

<table>
<thead>
<tr>
<th>Model No:</th>
<th>Finishes</th>
<th>Product Description</th>
<th>Hinge size (mm)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3S2BB403030-CE</td>
<td>US32D</td>
<td>Yale 102 x 76 x 3.0 - 2 Ball Bearing Button Tipped</td>
<td>Height 102 Width 76 Thick 3.0</td>
<td>120kg</td>
</tr>
</tbody>
</table>

### Part Description

102 x 76

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[Diagram of the hinge]

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FIRE RATED

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All dimensions are in mm
Hinges

Standard - Stainless Steel Button Tipped Hinge

Suitable for general purpose interior/exterior doors where a standard hinge is required.

- Manufactured from high grade stainless steel, 316 is optional available for applications of higher requirement.
- Non-rising pin facilitate install.
- Template drilled holes.
- SS304.

Product Information:

<table>
<thead>
<tr>
<th>Model No:</th>
<th>Finishes</th>
<th>Product Description</th>
<th>Hinge size (mm)</th>
<th>Max Door weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3S2BB503030-CE</td>
<td>US32D</td>
<td>Yale 127 x 76 x 3.0 - 2 Ball Bearing Button Tipped</td>
<td>Height: 127</td>
<td>120kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Width: 76</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Thick: 3.0</td>
<td></td>
</tr>
</tbody>
</table>

Part Description

127 x 76

FIRE RATED

How to Order

<table>
<thead>
<tr>
<th>Model No:</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>US32D: Satin Stainless Steel</td>
</tr>
</tbody>
</table>

e.g. 3S2BB403025 - US32D

All dimensions are in mm
# Hinges

## Hinge Selection Chart

The following chart will be most useful in selecting the correct hinge type. Simply identify the dimensions of the door to be installed and read off the recommended hinge selection. Consideration to door weight must be assessed prior to hinge selection. Variations to this chart will need to be made only in unusual circumstances on specific jobs or according to personal preferences.

Note: The chart is intended as a guide only and as such is not meant to be exhaustive or any more than a rule of thumb for particular application.

<table>
<thead>
<tr>
<th>Door Thickness (mm)</th>
<th>Door Width (mm)</th>
<th>Door Height (mm)</th>
<th>Recommended Hinge Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>30mm – 45mm</td>
<td>Under 900</td>
<td>210mm</td>
<td>3 Hinges by 102 x 76 x 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2040 mm – 2340 mm</td>
<td>3 Hinges by 102 x 76 x 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2340 mm – 3000 mm</td>
<td>4 Hinges by 102 x 76 x 2.5</td>
</tr>
<tr>
<td></td>
<td>900 – 1000</td>
<td>210mm</td>
<td>3 Hinges by 102 x 76 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2040 mm – 2340 mm</td>
<td>3 Hinges by 102 x 76 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2340 mm – 3000 mm</td>
<td>4 Hinges by 102 x 76 x 3.0</td>
</tr>
<tr>
<td></td>
<td>1000 Over</td>
<td>210mm</td>
<td>3 Hinges by 102 x 76 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2040 mm – 2340 mm</td>
<td>3 Hinges by 102 x 102 x 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2340 mm – 3000 mm</td>
<td>4 Hinges by 102 x 102 x 2.5</td>
</tr>
<tr>
<td>45mm – 55mm</td>
<td>Under 900</td>
<td>210mm</td>
<td>3 Hinges by 102 x 102 x 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2040 mm – 2340 mm</td>
<td>3 Hinges by 127 x 89 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2340 mm – 3000 mm</td>
<td>4 Hinges by 127 x 89 x 3.0</td>
</tr>
<tr>
<td></td>
<td>900 – 1000</td>
<td>210mm</td>
<td>3 Hinges by 127 x 89 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2040 mm – 2340 mm</td>
<td>3 Hinges by 127 x 89 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2340 mm – 3000 mm</td>
<td>4 Hinges by 127 x 89 x 3.0</td>
</tr>
<tr>
<td></td>
<td>1000 Over</td>
<td>210mm</td>
<td>3 Hinges by 127 x 102 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2040 mm – 2340 mm</td>
<td>3 Hinges by 127 x 102 x 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2340 mm – 3000 mm</td>
<td>4 Hinges by 127 x 102 x 3.0</td>
</tr>
</tbody>
</table>

## Specification Service

For all Architectural hardware specification assistance refer to your local ASSA ABLOY Sales Office.

A fully comprehensive, obligation free, Architectural Door Hardware specification can be prepared by Architectural Hardware Consultants.

## Cleaning

Care should be taken during construction/refurbishment to ensure that paint, thinners, mortar or cement splashes are carefully removed from locks, furniture and hardware. Removal of these splashes with strong cleaning agents or scourers should be avoided.

Dirt and grime should be regularly removed with a soft and clean cloth. Do not use solvent based or abrasive cleaning agents. During cleaning, care should be taken to prevent cleaning solution from entering the cylinder keyway. Surfaces should be dried and possibly lubricated.