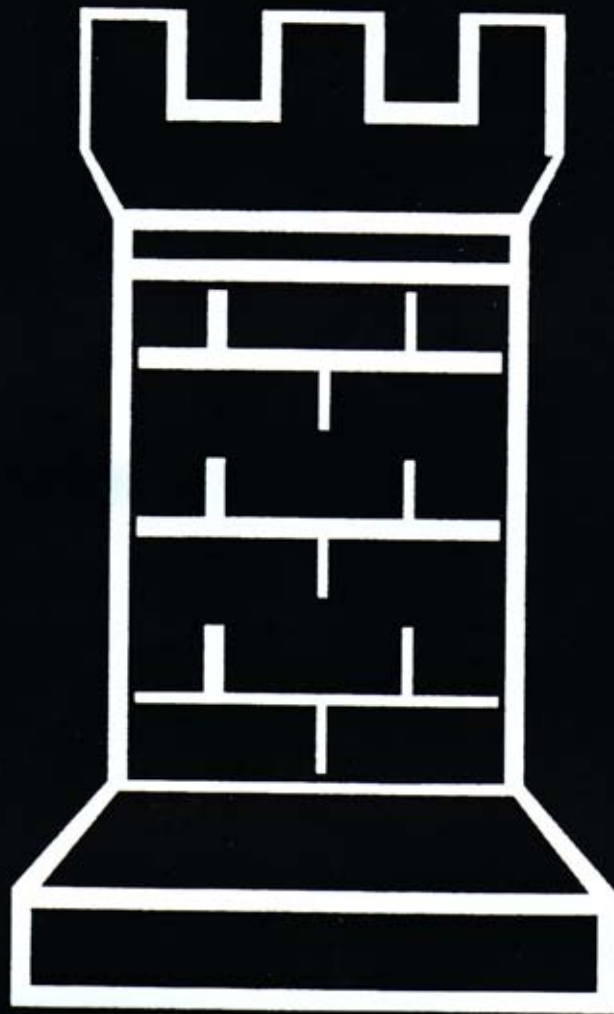




# FORTRESS



# HARDWARE DISTRIBUTION



***V.I.P. FASTENING SYSTEMS PTY. LTD.***

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# Fortress Hardware Distrib



**Button Tipped- Ball Bearing  
Hi-Load Hinges  
Fixed & Loose Pin**  
**Sizes:** 100x75x3.2mm  
 100x100x3.2mm  
**Material:** Stainless Steel Grade  
 304  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless



**Button Tipped- Ball Bearing  
Fixed & Loose Pin**  
**Sizes:** 100x100x2.5mm  
 100x75x2.5mm  
**Material :** Steel  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Zinc Plated  
 Satin Chrome Plated



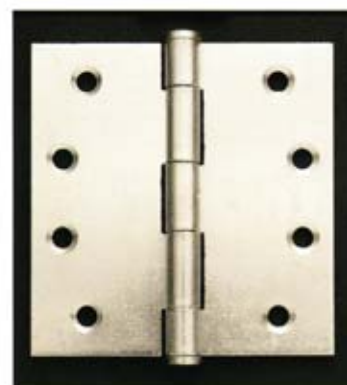
**Button Tipped- Ball Bearing  
Fixed and Loose Pin**  
**Sizes:** 100x75x2.5mm  
**Material:** Stainless Steel Grade  
 304  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless



**Button Tipped- Plain  
Fixed & Loose Pin**  
**Sizes:** 100x75x2.5mm  
**Material :** Steel  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge  
 Woodscrew M5  
 Metal Thread  
**Sizes:** Metric  
**Finish:** Zinc Plated  
 Satin Chrome  
 Plated



**Button Tipped- Ball Bearing  
Fixed and Loose Pin**  
**Sizes:** 100x100x2.5mm  
**Material:** Stainless Steel Grade  
 304  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless  
 Polishes Stainless



**Button Tipped- Plain  
Fixed & Loose Pin**  
**Sizes:** 100x100x2.25mm  
**Material:** Steel  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Zinc Plated  
 Satin Chrome Plated



**Button Tipped- Plain  
Fixed and Loose Pin**  
**Sizes:** 100x75x2.5mm  
**Material:** Stainless Steel Grade  
 304  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless  
 Polishes Stainless



**Lift Off Hinges  
Loose Pin**  
**Sizes:** 100x75x2.5mm  
**Handed:** Left & Right Hand  
**Material:** Stainless Steel Grade  
 304  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless



**Button Tipped- Plain  
Fixed and Loose Pin**  
**Sizes:** 100x100x2.5mm  
**Material:** Stainless Steel Grade  
 304  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless  
 Polishes Stainless



**Lift Off Hinges  
Loose Pin**  
**Sizes:** 100x75x1.6mm  
**Handed:** Left & Right Hand  
**Material:** Steel  
**Hole Pattern:** Australian  
 Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew  
 M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Zinc Plated

# tion Architectural Hinges



**Security Hinge**  
**Fixed Pin Only**  
**Sizes:** 100x75x2.5mm  
**Material:** x Stainless Steel Grade 304  
**Hole Pattern:** Australian Standard  
**Standard Pack:** 20 pieces  
**Fixing:** 10 Gauge Woodscrew M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless



**Non Mortice Hinge #3 & #9**  
**Fixed Pin Only**  
**Sizes:** 100x71x2.5mm  
**Material:** Stainless Steel Grade 304  
**Hole Pattern:** Australian Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless  
Suitable for Timber & Metal Fixing



**Rising Butt Hinge**  
**Loose Pin**  
**Sizes:** 100x75x2.5mm  
**Handed:** Left & Right Hand  
**Material:** Stainless Steel Grade 304  
**Hole Pattern:** Australian Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless  
Suitable for Timber Fixing



**Brass Broad Butt**  
**Fixed Pin**  
**Sizes:** 100x75 mm  
100x100mmx4mm  
**Material:** Brass  
**Hole Pattern:** Australian Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew  
**Sizes:** Metric  
**Finish:** Polished Brass



**Brass Broad Butt**  
**Loose Pin Ball Tipped**  
**Sizes:** 85x60mm  
100x75mm x3mm  
**Material:** Brass  
**Hole Pattern:** Australian Standard  
**Standard Pack:** 20 Pieces  
**Fixing:** 10 Gauge Woodscrew  
**Sizes:** Metric  
**Finish:** Polished Brass



**Half Moon Door Stop**  
SCP & PB



**Half Moon Door Stop High,**  
SCP & PB



**Triangular Based Door Stop**  
SCP & PB

**Brass Barrel Bolt 32 mm wide**  
150mm & 200mm  
SCP



**Button Tipped- Plain, Wide Throw Hinges**

**Sizes:** 100x125x3.5mm  
100x150x3.5mm  
100x175x3.5mm  
100x200x3.5mm  
**Material:** x Stainless Steel Grade 304  
**Hole Pattern:** Australian Standard  
**Standard Pack:** 20 pieces  
**Fixing:** 10 Gauge Woodscrew M5 Metal Thread  
**Sizes:** Metric  
**Finish:** Satin Stainless



# General Information

## Hinge Selection Architectural

Door Thickness mm	Door Width mm	Door Height mm	Suppliers Recommended Hinge Selection
30-45	under 920	2040	100x75x2.5 x2 (Internal) 100x75x2.5 x3 (External)
30-45	under 920	2040 - 2340 2340 - 3050	100x75x2.5 x3 100x75x2.5 x4
45-55	under 920	2040 2040 - 2340 2340 - 3050	100x100x2.5 or 3.2x 3 100x100x2.5 or 3.2x 3 100x100x2.5 or 3.2x 3

### Hinges Per Door

Average doors up to 2040 mm in height require only 2 hinges per door, over this height and up to 2340 mm require 3 hinges. Doors over 2340 mm and up to 3050 mm require 4 hinges.

Doors that receive heavy use or are installed with door closers, where the conditions put the hinges under more stress, it is recommended that an additional hinge be used.

### Commercial Hinges

Heavy duty broad butt hinges are recommended for use in 'high traffic' doors.

Heavy doors ie. Fire doors, Solid core timber, Aluminium or steel glazed doors should be installed with ball bearing hinges.

Doors fitted with automatic door equipment should also use ball bearing hinges.

### General Information

Fixed pin hinges should be used on exterior opening doors or security doors.

Hinge sizes are measured in the following manner.

- 1- The height of the hinge is the length of the leaf, eg. 100mm
- 2- The width of the hinge is the length of the fully opened measurement across both leaves, eg. 75mm
- 3- The gauge of the hinge is the thickness of the material used, eg. 2.5mm

