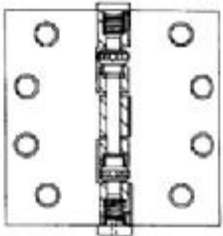




# MORTISE HINGES – BALL BEARING



**Hinge Construction**

Item #	Function	Wt. (lbs.) Per Box	Std. Box	030, 031, 033, 034, 038, 040, 050, 060 102, 112, 140, 150 151, 190, 260, 264	003, 055 066, 402 412, 452
1041.xxx	Ball Bearing Hinge—4" x 4"	1.6	1 pair	\$91	109
1041.xxx.l	Ball Bearing Hinge—4" x 4"	0.8	1 each	46	55
1046.xxx	Ball Bearing Hinge—4.5" x 4.5"	2.0	1 pair	95	112
1046.xxx.l	Ball Bearing Hinge—4.5" x 4.5"	1.0	1 each	48	56
1046.xxx.NRP	Ball Bearing Hinge—4.5" x 4.5"	2.0	1 pair	103	120
1046.xxx.INRP	Ball Bearing Hinge—4.5" x 4.5"	1.0	1 each	52	60
1051.xxx	Ball Bearing Hinge—5" x 5"	2.5	1 pair	149	181
1051.xxx.l	Ball Bearing Hinge—5" x 5"	1.3	1 each	75	91
1051.xxx.NRP	Ball Bearing Hinge—5" x 5"	2.5	1 pair	157	189
1051.xxx.INRP	Ball Bearing Hinge—5" x 5"	1.3	1 each	79	95
1090.xxx	Ball Tip		5 sets	28	29*
1091.xxx	Um Tip		5 sets	28	29*
1092.xxx	Acorn Tip		5 sets	28	29*
1093.xxx	Steeple Tip		5 sets	28	29*

\* Not Available in 402, 412, or 452.

**FEATURES:** See Mortise Hinges information on previous pages. Equipped with two non-detachable ball bearings to withstand greater load capacity and increase hinge life. Each hinge is beveled on the inside leaf to obtain a tight fit when viewing the hinge in a closed position. Furnished with stainless steel, rust-proof pins for added durability.

**PACKED:** One pair in a box, each hinge poly-bagged with fasteners. Also available as singles. Order as ".l". Supplied with #12 x 1.25" F.H. Phillips wood screws.

**BALL BEARINGS:** Each hinge is designed with two anti-friction ball bearing assemblies which are non-detachable. The balls inside each chamber are constructed from through-hardened, chrome alloy steel material to ensure a longer hinge life. The bearing races are machined from alloy steel which is then hardened and electroplated with a rust-resisting zinc-chromate finish. Our testing indicates that although this electroplate finish provides rust protection, when exposed to weather elements of exterior, the steel will eventually rust. The location of each assembly increases the vertical load capacity and greatly reduces both vertical and lateral wear of the hinges. As a result, all factors which normally contribute to hinge failure are significantly reduced. **BALL BEARING HINGES ARE RECOMMENDED FOR DOORS EQUIPPED WITH DOOR CLOSERS AND/OR RECEIVING AVERAGE FREQUENCY SERVICE.**

**APPLICATION:** STANDARD WEIGHT BALL BEARING hinges are designed for medium weight doors receiving average traffic in residential and light commercial construction. Ball bearing hinges are ALWAYS recommended for doors equipped with door closers. For further details on applications, consult Hinge Chart.

**ORDERING INSTRUCTIONS:** Extruded full mortise ball bearing hinges are available with four types of decorative finials: Ball, Um, Acorn, and Steeple. Hinges are supplied with a button finial standard. The four styles of decorative finials must be ordered at an extra charge.

**IMPORTANT:** Baldwin Hinges are extruded from the finest quality brass and individually machined to close tolerances. The leaves from each half pair are NOT INTERCHANGEABLE with those of any other half pair. To ensure smooth operation and prevent binding, DO NOT MIX hinge leaves during installation.



**1035.xxx.TIP**  
Button Tip – Standard



**1090.xxx**  
Ball Finial



**1091.xxx**  
Um Finial



**1092.xxx**  
Acorn Finial



**1093.xxx**  
Steeple Finial



**1041.xxx – Ball Bearing**  
4" x 4"



**1046.xxx – Ball Bearing**  
4.5" x 4.5"



**1051.xxx – Ball Bearing**  
5" x 5"