

# HARDWARE

THE COMMERCIAL HINGES

THE SPRING HINGES

THE RESIDENTIAL HINGES

KOREA STANDARD HINGES



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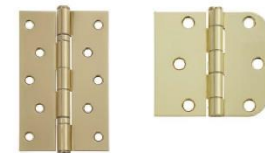
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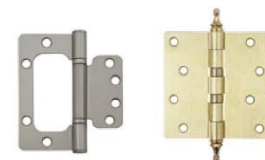
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## KOREA STANDARD HINGES

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- 2 Knuckle Hinges
- 30 Non Mortise Hinges—3 Knuckle Hinges



## FINISHES

| US Standard Code | ANSI/BHMA Code | Finish Description                                           | Base Material   | Other Finish Description          |
|------------------|----------------|--------------------------------------------------------------|-----------------|-----------------------------------|
| USF              | 600            | Primed for painting                                          | Steel           |                                   |
| US2C/US2G        | 603            | Zinc plated                                                  | Steel           | ZC                                |
| US3C             | 604            | Zinc plated and dichromate sealed                            | Steel           | ZC                                |
| US3              | 605            | Polished brass, clear coated                                 | Brass           | PC (Polished Bright Brass)        |
| US4              | 606            | Polished brass, clear coated                                 | Brass           | PC                                |
| US5              | 609            | Satin brass/blackened satin relieved, clear coated           | Brass           | AB (Antique Brass)                |
| US9              | 611            | Bright bronze, clear coated                                  | Bronze          |                                   |
| US10             | 612            | Satin bronze, clear coated                                   | Bronze          |                                   |
| US10A            | 722            | Dark oxidized, satin brushed                                 | Bronze          |                                   |
| US10B            | 613            | Dark oxidized satin bronze, oil rubbed                       | Bronze          |                                   |
| US14             | 618            | Bright nickel plated, clear coated brass                     | Brass           |                                   |
| US15             | 619            | Satin nickel plated, clear coated brass                      | Bronze          | SN                                |
| US15A            | 620            | Satin nickel plated, blackened, satin relieved, clear coated | Brass, Bronze   | AN (Antique Nickel)               |
| US19             | 622            | Flat Black Coated                                            | Brass, Bronze   | FB                                |
| US20A            | 624            | Dark oxidized, statuary bronze, clear coated                 | Bronze          |                                   |
| US26             | 625            | Bright chromium plated                                       | Brass, Bronze   | CM                                |
| US26D            | 626            | Satin aluminum plated, clear anodized aluminum               | Aluminum        | DCSC (Dual Chromium)              |
| US27             | 627            | Satin aluminum plated, clear anodized                        | Aluminum        |                                   |
| US28             | 628            | Etched, Black Anodized                                       | Aluminum        |                                   |
| US32             | 629            | Satin stainless steel                                        | Stainless steel |                                   |
| US32D            | 630            | Satin stainless steel-316 Grade Stainless                    | Stainless steel |                                   |
| US32D            | 630-316        | Satin stainless steel-316 Grade Stainless                    | Stainless steel |                                   |
| US3              | 631            | Flat Black Coated                                            | Steel           | FB                                |
| US4              | 633            | Plated bright brass, clear coated                            | Steel           | PE (Polished Bright Brass Plated) |
| US5              | 638            | Plated satin brass, blackened, satin relieved, clear coated  | Steel           | SDCB (Dual Brass)                 |
| US10             | 639            | Plated satin bronze, clear coated                            | Steel           | AB (Antique Brass)                |
| US10B            | 640            | Coated satin bronze/plated over copper plate, oil rubbed     | Steel           |                                   |
| US14             | 643            | Bright nickel plated, clear coated                           | Steel           |                                   |
| US15             | 646            | Satin nickel plated, clear coated                            | Steel           | SN                                |
| US15A            | 647            | Satin nickel plated, blackened, satin relieved, clear coated | Steel           | AN (Antique Nickel)               |
| US30A            | 650            | Plated steel, coated statuary bronze, clear coated           | Steel           |                                   |
| US26             | 651            | Bright chromium plated                                       | Steel           | CM                                |
| US26D            | 652            | Satin chromium plated                                        | Steel           | DCSC (Dual Chromium)              |

## General Architectural Hinge Information

## SELECTION OF THE PROPER WEIGHT AND BEARING TYPE

Standard Weight.....Plain Bearing

Standard Weight.....Ball Bearing, Concealed Bearing

Heavy Weight.....Ball Bearing, Concealed Bearing

## CONSIDERATIONS TO DETERMINE WEIGHT AND BEARING TYPE

1, Weight of Door

2, Frequency of use

3, Frame

4, Door Hardware

Always use ball bearing or concealed bearing hinges for doors with door closers and in all fire rated openings. Heavy weight doors and high frequency doors should use heavy weight ball bearing or concealed bearing hinges.

## CONSIDERATIONS TO DETERMINE HINGE SIZE

1, Door Width

2, Door Thickness

3, Weight

4, Clearance

## GUIDELINES FOR ARCHITECTURAL HINGE METAL

1, Interior doors non-corrosive areas use: Plated or Painted Steel

2, Interior labeled door use: Plated or Painted Steel, Stainless Steel

3, Interior doors in corrosive areas use: Stainless Steel, Brass, Bronze

4, Exterior doors use: Stainless Steel, Brass, Bronze

## GUIDELINES FOR FREQUENCY OF DOOR USAGE

| Build Type                           | Daily Usage | Yearly Usage | Hinge Type   |
|--------------------------------------|-------------|--------------|--------------|
| High Frequency/ Heavy Weight Door    |             |              | Heavy Weight |
| Large Department Store Entrance      | 5,000       | 1,825,000    |              |
| Hospital Corridor and Surgical Doors | 5,000       | 1,825,000    |              |
| Large Office Building Entrance       | 4,000       | 1,460,000    |              |
| School Entrance                      | 1,250       | 456,250      |              |
| School Toilet Door                   | 1,250       | 456,250      |              |
| Office Stairwell                     | 500         | 182,500      |              |
| Office Building Toilet Door          | 400         | 146,000      |              |

## MEDIUM FREQUENCY/ MEDIUM WEIGHT DOOR

| Weight                        |     | Standard |
|-------------------------------|-----|----------|
| School Corridor Door          | 100 | 36,500   |
| Hospital Consultation Rooms   | 100 | 36,500   |
| Office Building Corridor Door | 80  | 29,200   |
| Store Toilet Door             | 60  | 21,900   |
| Storage Room                  | 50  | 18,250   |

## LOW FREQUENCY/LIGHT DOOR

|                      |    | Plain Bearing |
|----------------------|----|---------------|
| Residential Entrance | 30 | 10,950        |
| Interior Residential | 20 | 7,300         |

#### MINIMUM ARCHITECTURAL CYCLE REQUIREMENTS

|          |           |                                          |
|----------|-----------|------------------------------------------|
| Grade 1: | 2,500,000 | Heavy Weight Ball & Concealed Bearing    |
| Grade 2: | 1,500,000 | Standard Weight Ball & Concealed Bearing |
| Grade 3: | 350,000   | Light Weight Plain Bearing               |

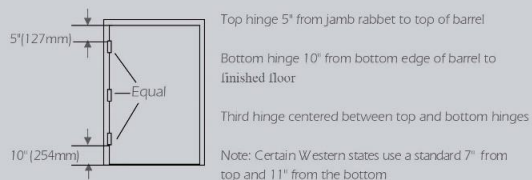
#### GUIDELINES FOR ARCHITECTURAL HINGE HEIGHT

| Door Thickness<br>In Inch | Door Width<br>In Inch | Hinge Height<br>In Inch |
|---------------------------|-----------------------|-------------------------|
| 1-3/8"                    | Up to 32"             | 3-1/2"                  |
| 1-3/8"                    | 32" to 37"            | 4"                      |
| 1-3/4"                    | Up to 36"             | 4-1/2"                  |
| 1-3/4"                    | 36" to 48"            | 5"                      |
| 1-3/4"                    | Over 48"              | 6"                      |
| 2", 2-1/4", 2-1/2"        | Up to 42"             | 5" heavy weight         |
| 2", 2-1/4", 2-1/2"        | Over 42"              | 6" heavy weight         |

#### GUIDELINES FOR ARCHITECTURAL HINGE WIDTH

| Door Thickness<br>In Inch | Clearance Needed<br>In Inch | Hinge Open Width<br>In Inch |
|---------------------------|-----------------------------|-----------------------------|
| 1-3/8"                    | 3/4"                        | 4"                          |
| 1-3/4"                    | 1"                          | 4"                          |
| 1-3/4"                    | 1-1/2"                      | 4-1/2"                      |
| 1-3/4"                    | 2"                          | 5"                          |
| 2"                        | 3"                          | 6"                          |
| 2"                        | 1"                          | 4-1/2"                      |
| 2"                        | 1-1/2"                      | 5"                          |
| 2-1/4"                    | 2-1/2"                      | 6"                          |
| 2-1/4"                    | 1"                          | 5"                          |
| 2-1/2"                    | 2"                          | 6"                          |
| 2-1/2"                    | 3/4"                        | 5"                          |
| 3"                        | 1-3/4"                      | 6"                          |
| 3"                        | 3/4"                        | 8"                          |
| 3"                        | 2-3/4"                      | 8"                          |
| 3"                        | 4-3/4"                      | 10"                         |

#### LOCATION OF ARCHITECTURAL HINGES



#### GUIDELINES FOR NUMBER OF ARCHITECTURAL HINGES

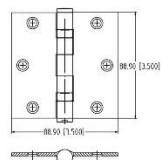
1. Doors up to 60".....2 hinges
2. Doors 60" to 90".....3 hinges
3. Doors 90" to 120".....4 hinges

#### YUANFANG HINGE NUMBER SYSTEM

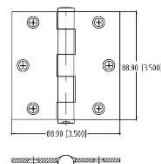
#### THE COMMERCIAL HINGES

|                                 |    |                                      |    |    |    |    |     |       |
|---------------------------------|----|--------------------------------------|----|----|----|----|-----|-------|
| MODEL:                          | CH | 4545                                 | 34 | BB | 5K | HW | NRP | US26D |
| Hinge Type:                     | CH | Commercial Hinge                     |    |    |    |    |     |       |
| Length and Width Size Examples: |    |                                      |    |    |    |    |     |       |
| 3535                            |    | 3.5"X3.5"                            |    |    |    |    |     |       |
| 4040                            |    | 4"X4"                                |    |    |    |    |     |       |
| 4545                            |    | 4.5"X4.5"                            |    |    |    |    |     |       |
| 5045                            |    | 5"X4.5"                              |    |    |    |    |     |       |
| Thickness Examples:             |    |                                      |    |    |    |    |     |       |
| 31                              |    | 3.1mm                                |    |    |    |    |     |       |
| 33                              |    | 3.30mm                               |    |    |    |    |     |       |
| 34                              |    | 3.4mm                                |    |    |    |    |     |       |
| 45                              |    | 4.5mm                                |    |    |    |    |     |       |
| Function:                       |    |                                      |    |    |    |    |     |       |
| PB                              |    | Plain Bearing                        |    |    |    |    |     |       |
| BB                              |    | Ball Bearing(2BB and 4BB)            |    |    |    |    |     |       |
| CB                              |    | Concealed Bearing                    |    |    |    |    |     |       |
| Number of Knuckles:             |    |                                      |    |    |    |    |     |       |
| 2                               |    | 2 Knuckle                            |    |    |    |    |     |       |
| 3                               |    | 3 Knuckle                            |    |    |    |    |     |       |
| Blank                           |    | 5 Knuckle                            |    |    |    |    |     |       |
| Weight/Options:                 |    |                                      |    |    |    |    |     |       |
| Blank S                         |    | standard Weight                      |    |    |    |    |     |       |
| HW                              |    | Heavy Weight                         |    |    |    |    |     |       |
| SC                              |    | Swing Clear                          |    |    |    |    |     |       |
| SH(STD)                         |    | Security Stud                        |    |    |    |    |     |       |
| WT                              |    | Wide Throw                           |    |    |    |    |     |       |
| HT                              |    | Hospital Tip                         |    |    |    |    |     |       |
| HS                              |    | Half Surface                         |    |    |    |    |     |       |
| Pin/Options:                    |    |                                      |    |    |    |    |     |       |
| LSP                             |    | Loose Pin                            |    |    |    |    |     |       |
| RVP                             |    | Rivet Pin & Fixed Pin                |    |    |    |    |     |       |
| NRP                             |    | Non-Removable Pin with the set screw |    |    |    |    |     |       |
| FHP                             |    | Flat Head Pin                        |    |    |    |    |     |       |
| CHP                             |    | Crown Head Pin                       |    |    |    |    |     |       |
| SHP                             |    | Steeple Head Pin                     |    |    |    |    |     |       |
| PHP                             |    | Pagoda Head Pin                      |    |    |    |    |     |       |
| BHP                             |    | Ball Head Pin                        |    |    |    |    |     |       |
| Finish Examples:                |    |                                      |    |    |    |    |     |       |
| US26D(SC)                       |    | Satin Chrome Plated                  |    |    |    |    |     |       |
| US3(PB)                         |    | Polished Bright Brass Plated         |    |    |    |    |     |       |
| US5(AB)                         |    | Antique Brass Plated                 |    |    |    |    |     |       |

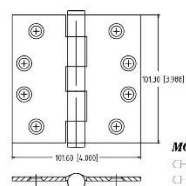
• FULL MORTISE HINGES - 5 KNUCKLE



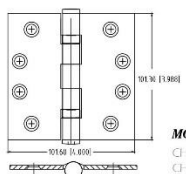
**MODEL:**  
CH353531BB-US26 (3.5"X3.5"X3.1mm-2BB)  
CI (303031BB) (3"X3"X3.1mm-2BB)



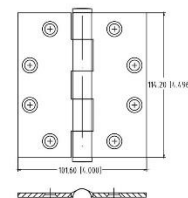
**MODEL:**  
CH353531PB-US1 (3.5"X3.5"X3.1mm)  
CH303031PB (3"X3"X3.1mm)



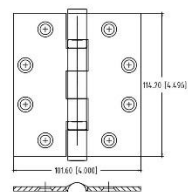
**MODEL:**  
CH404033PB-US15 (4"X4"X3.3mm)  
CI (403030PB) (4"X4"X3.0mm)



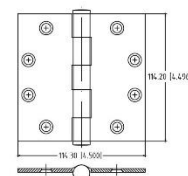
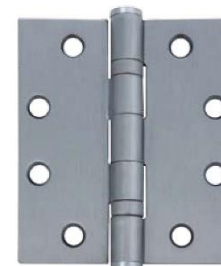
**MODEL:**  
CI (404033BB-US3) (4"X4"X3.3mm-2BB)  
CI (403030BB) (4"X4"X3.0mm-2BB)



**MODEL:**  
CH454034PB-US15 (4.5"X4"X3.4mm)  
CI (503030PB) (5"X4"X3.0mm)

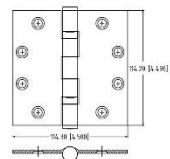


**MODEL:**  
CH454034BB-US26D (4.5"X4"X3.4mm-2BB)  
CI (503030BB) (5"X4"X3.0mm-2BB)



**MODEL:**  
CH454534PB-US10 (4.5"X4.5"X3.4mm)  
CI (504037PB) (5"X4"X3.7mm)  
CI (504537PB) (5"X4.5"X3.7mm)  
CI (505037PB) (5"X5"X3.7mm)



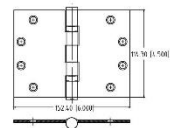
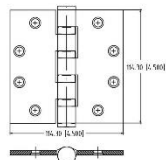


**MODEL:**

CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US100 NBP  
 CH50103700 (5"x1.5"x3.7mm-200)  
 CH150153700 (5"x1.5"x3.7mm-200)  
 CH150503700 (5"x5"x3.7mm-200)

**MODEL:**

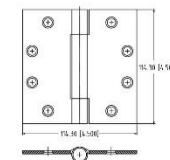
CH15153400-1-US260 (1.5"x1.5"x3.4mm-400)  
 CH15101500-1-US260 (1.5"x1.5"x3.4mm-400)  
 CH15041500-1-US260 (1.5"x1.5"x3.4mm-400)  
 CH15041500-1-US260 (1.5"x1.5"x3.4mm-400)  
 CH15041500-1-US260 (1.5"x1.5"x3.4mm-400)  
 CH15041500-1-US260 (1.5"x1.5"x3.4mm-400)  
 CH15041500-1-US260 (1.5"x1.5"x3.4mm-400)  
 CH15041500-1-US260 (1.5"x1.5"x3.4mm-400)



**MODEL:**

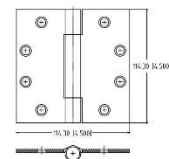
CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)

• FULL MORTISE HINGES - 3 KNUCKLE



**MODEL:**

CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)

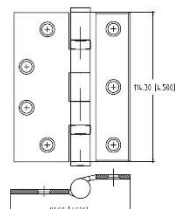


**MODEL:**

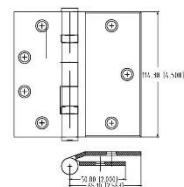
CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)  
 CH15153400-1-US260 (1.5"x1.5"x3.4mm-200)



• HALF SURFACE HINGES-5 KNUCKLE



**MODEL:**  
HS45BB4100-USP (length: 4.5"; Thickness: 3.4mm)  
HS50BB4100 (length: 5.0"; Thickness: 3.4mm)



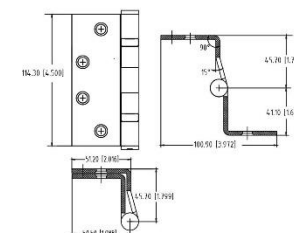
**MODEL:**  
HS45BB4900-US26D (length: 4.5"; Thickness: 3.4mm)  
HS45BB4900-HW (length: 4.5"; Thickness: 4.57mm)  
HS50BB4900 (length: 5.0"; Thickness: 3.4mm)

• HALF SURFACE HINGES-3 KNUCKLE



**MODEL:**  
HS45BP14-US3[PVD]-3K (length: 4.5"; Thickness: 3.4mm)

• 5 KNUCKLE HINGES-SWING CLEAR



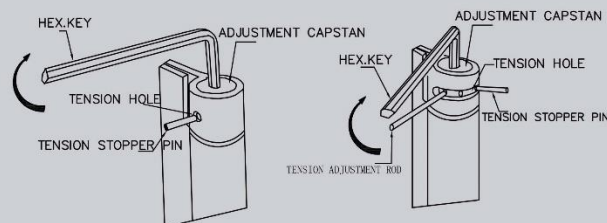
**MODEL:**  
SC45BB600-USP (length: 4.5"; Thickness: 3.4mm)  
SC50BB600 (length: 5.0"; Thickness: 3.4mm)  
SC45BB600-HW (length: 4.5"; Thickness: 4.57mm)  
SC50BB600-HW (length: 5.0"; Thickness: 4.83mm)

• MATERIAL: THE STAINLESS STEEL / THE SOLID BRASS



**MODEL:**

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| CH454034UB        | (1.5"x1"x3.4mm-2UB)                                   |
| CH454534BB        | (1.5"x1.5"x3.4mm-2BB)                                 |
| CH454537UB        | (1.5"x1.5"x3.7mm-2UB)                                 |
| CH454537BB        | (1.5"x1.5"x3.7mm-2BB)                                 |
| CH454045UB-HW     | (1.5"x1"x1.57mm-4UB)                                  |
| CH454545BB-HW     | (1.5"x1.5"x1.57mm-4BB)                                |
| CH454048UB-HW     | (1.5"x1.5"x1.83mm-4UB)                                |
| CH454048BB-HW     | (1.5"x1.5"x1.83mm-4BB)                                |
| CH454034CB-3K     | (1.5"x1"x3.4mm-3 Knuckle Hinge with 2BB Concealed)    |
| CH454534CB-3K     | (1.5"x1.5"x3.4mm-3 Knuckle Hinge with 2BB Concealed)  |
| CH454037CB-3K     | (1.5"x1.5"x3.7mm-3 Knuckle Hinge with 2BB Concealed)  |
| CH454045CB-3KH-HW | (1.5"x1.5"x1.57mm-3 Knuckle Hinge with 2BB Concealed) |
| CH454545CB-3KH-HW | (1.5"x1.5"x1.57mm-3 Knuckle Hinge with 2BB Concealed) |
| CH454548CB-3KH-HW | (1.5"x1.5"x1.83mm-3 Knuckle Hinge with 2BB Concealed) |



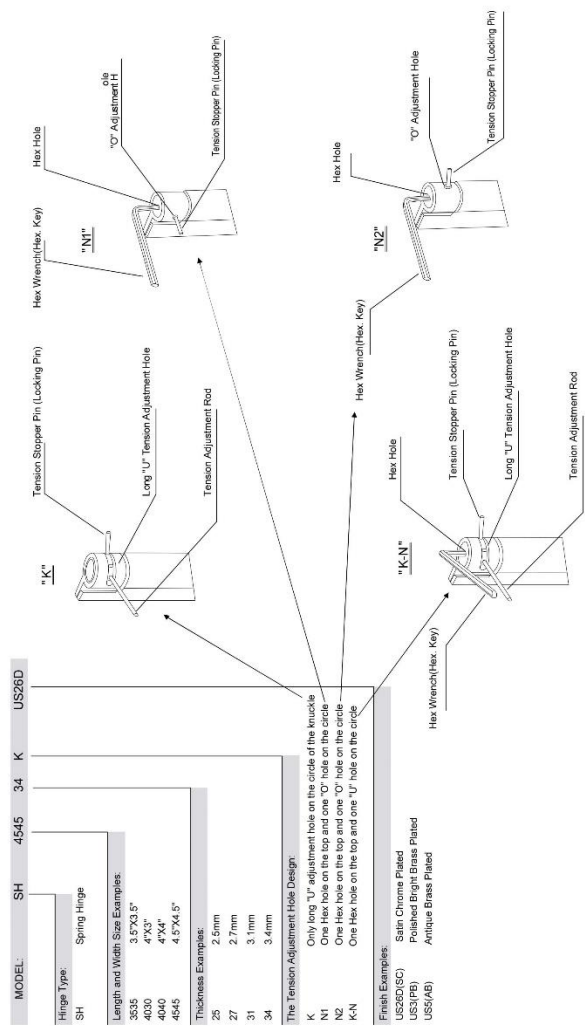
- (A) CAUTION:
- (1) DO NOT EXCEED 3 HOLES TENSION FOR 3.5" , 4" AND 4.5" HINGES IN HEIGHT ;
  - (2) ALWAYS ROTATE THE ADJUSTMENT CAPSTAN CLOCKWISE REGARDLESS OF RIGHT OR LEFT HAND DOOR APPLICATION.
- (B) HINGE INSTALLATION:
- INSTALL HINGE IN NORMAL MANNER WITH THE ADJUSTMENT END OF HINGE UP , AS SHOWN ABOVE.
- (C) ADJUSTING SPRING TORQUE:
- (1) ADJUST TORQUE ONLY AFTER THE HINGE IS INSTALLED AND WITH DOOR CLOSED;
  - (2) ROTATE ADJUSTMENT CAPSTAN CLOCKWISE BY USING EITHER HEX KEY OR TENSION ADJUSTMENT ROD TO ACHIEVE PROPER SPRING TENSION FORCE AND THAN, INSERT TENSION STOPPER PIN INTO TENSION HOLE, AS SHOWN ABOVE;
  - (3) REMOVE HEX KEY OR TENSION ADJUSTMENT ROD AND TRY THE DOOR FOR CLOSING. TO ACHIEVE PROPER DOOR CLOSING FORCE, JUST MOVE TENSION STOPPER PIN FROM ONE HOLE INTO THE NEXT IN EITHER DIRECTION BY USING EITHER HEX KEY OR TENSION ADJUSTMENT ROD.
- (D) RECOMMENDED HINGE SIZE AND DOOR SIZES

MAXIMUM DOOR SIZE RECOMMENDED:  
 2'-6" WIDE X 7'-0" HIGH FOR 3.5" HINGES IN HEIGHT  
 3'-0" WIDE X 7'-0" HIGH FOR 4" AND 4.5" HINGES IN HEIGHT

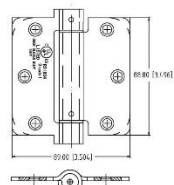
| RECOMMENDED MAXIMUM DOOR WEIGHT (LBS.) |                    |                    | HINGE SELECTION |            |
|----------------------------------------|--------------------|--------------------|-----------------|------------|
| HINGE OF 3.5" HIGH                     | HINGE OF 4.0" HIGH | HINGE OF 4.5" HIGH | SPRING HINGE    | BUTT HINGE |
| 40                                     | 50                 | 60                 | 1EACH           | 2EACH      |
| 60                                     | 75                 | 95                 | 2EACH           | 1EACH      |
| 80                                     | 100                | 120                | 3EACH           | NONE       |

NOTE:  
 1)WIND CONDITIONS, EXCESSIVE AIR PRESSURE ON ONE SIDE OF AN OPENING, WEATHER STRIPPING OR OTHER ADVERSE JOB CONDITIONS MAY REQUIRE THE USE OF ALL SPRING HINGES;  
 2)FOR MAXIMUM VERSATILITY, USE ALL SPRING HINGES.

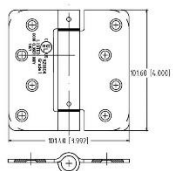
# YUANFANG HINGE NUMBER SYSTEM



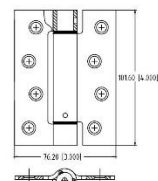




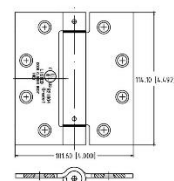
**MODEL:**  
 SI I353525N-US1 (3.5"X3.5"X2.5mm)  
 SI I353525K (3.5"X3.5"X2.5mm)  
 SH353525K-N (3.5"X3.5"X2.5mm)  
 SH353527N-US15 (3.5"X3.5"X2.7mm)  
 SH353527K (3.5"X3.5"X2.7mm)  
 SI353527K-N (3.5"X3.5"X2.7mm)



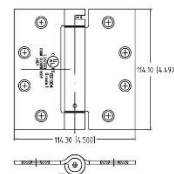
**MODEL:**  
 SH404025N-US26D (4"X4"X2.5mm)  
 SH404025K-US3 (4"X4"X2.5mm)  
 SH404025K-N-US10B (4"X4"X2.5mm)  
 SI404027N (4"X4"X2.7mm)  
 SI404027K (4"X4"X2.7mm)  
 SH404027K-N (4"X4"X2.7mm)



**MODEL:**  
 SH403027N-US26D (4"X3"X2.7mm)  
 SH403027K (4"X3"X2.7mm)  
 SH403027K-N (4"X3"X2.7mm)



**MODEL:**  
 SH454031N-US15 (4.5"X4"X3.4mm)  
 SI454031K-US26D (4.5"X4"X3.4mm)  
 SH454031K-N (4.5"X4"X3.4mm)



**MODEL:**  
 SH454534K-N-US3 (4.5"X4.5"X3.4mm)  
 SI454534K (4.5"X4.5"X3.4mm)  
 SH454534N (4.5"X4.5"X3.4mm)



• THE SPRING HINGES - 3 KNUCKLE



**MODEL:**

SH353525N (3.5"X3.5"X2.5mm)  
SH353525K (3.5"X3.5"X2.5mm)  
SH353525K-N (3.5"X3.5"X2.5mm)  
SH353527N (3.5"X3.5"X2.7mm)  
SH353527K (3.5"X3.5"X2.7mm)  
SH353527K-N (3.5"X3.5"X2.7mm)

**MODEL:**

SH404025N (4"X4"X2.5mm)  
SH404025K (4"X4"X2.5mm)  
SH404025K-N (4"X4"X2.5mm)  
SH404027N (4"X4"X2.7mm)  
SH404027K (4"X4"X2.7mm)  
SH404027K-N (4"X4"X2.7mm)

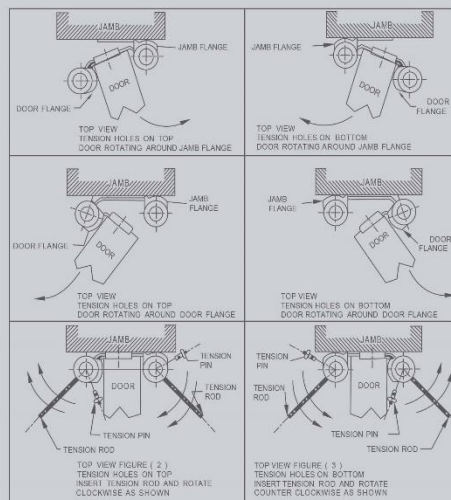
**MODEL:**

SH54034N (4.5"X4"X3.4mm)  
SH54034K (4.5"X4"X3.4mm)  
SH54034K-N (4.5"X4"X3.4mm)  
SH54534N (4.5"X4.5"X3.4mm)  
SH54534K (4.5"X4.5"X3.4mm)  
SH54534K-N (4.5"X4.5"X3.4mm)

**MODEL:**

SH6520 (6.0"X5.2"X2.0mm)





## DOUBLE ACTING SPRING HINGE

### INSTALLATION INSTRUCTIONS

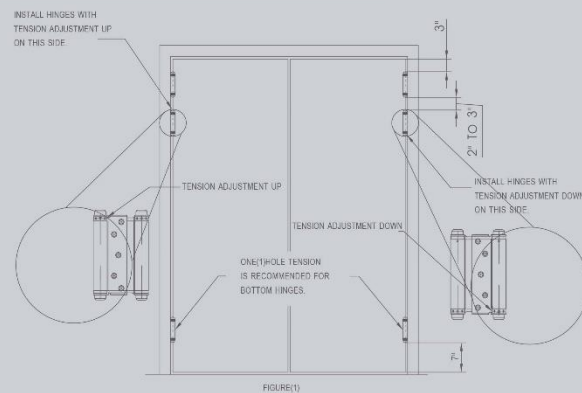
1) Remove spring tension from each barrel by inserting tension rod into the tension adjustment hole, rotate in direction of the arrow, as shown in figure 2 or figure 3, and remove tension pin.

2) Align centerline of door with centerline off frame and secure the frame leaf.

For best alignment of double doors mount hinges on one door with tension adjustment up, and down on the opposite door as shown in figure 1, shims may be necessary under the edges of the frame flanges for door alignment.

### SPRING TENSIONING INSTRUCTIONS DO NOT EXCEED FIVE(5) HOLES TENSION

- 1) Place door in closed position, wedge door up from floor until it is plumb.
- 2) Insert tension rod into the tension adjustment hole, rotate in direction of arrow, as shown in figure 2 or figure 3. (Only one hole of tension is recommended for bottom hinges)
- 3) Insert tension pin, and remove the tension rod.
- 4) Increase tension on the top hinges if door sags or return action is too slow.



FIGURE(1)



## THE DOUBLE SPRING HINGES

### MODEL:

DS18.0-LV8

DS14.0

DS16.0

DS18.0

### MODEL:

DS17A-DS18.0-LV260

## COMMERCIAL HINGE NUMBER SYSTEM THE RESIDENTIAL HINGES

MODEL: RH 3535 22 BB 5K NRP US26D

### Hinge Type:

RH Residential Hinge

### Length and Width Size Examples:

3025 3"X2.5"  
3030 3"X3"  
3535 3.5"X3.5"  
4030 4"X3"  
4040 4"X4"  
5030 5"X3"

### Thickness Examples:

20 2.0mm  
22 2.2mm  
25 2.5mm  
30 3.0mm

### Function:

Blank Plain Bearing  
BB Ball Bearing(2BB and 4BB)  
CB Concealed Bearing

### Number of Knuckles:

2 2 Knuckle  
3 3 Knuckle  
Blank 5 Knuckle  
6 6 Knuckle

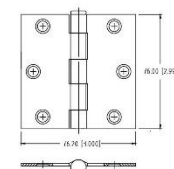
### Pin/Options:

LP Loose Pin  
RVP Rivet Pin & Fixed Pin  
NRP Non-Removable Pin with the set screw  
FHP Flat Head Pin  
CHP Crown Head Pin  
SHP Steeple Head Pin  
PHP Pagoda Head Pin  
BHP Ball Head Pin

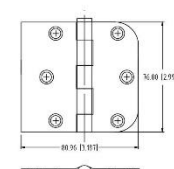
### Finish Examples:

US26D(SC) Satin Chrome Plated  
US3(PB) Polished Bright Brass Plated  
US5(AB) Antique Brass Plated

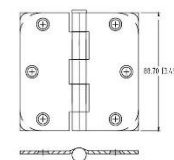
• MATERIAL: The Steel (Iron)  
• 5 KNUCKLE HINGES



**MODEL:**  
RH1303020-US2C (3"X3"X2.0mm)

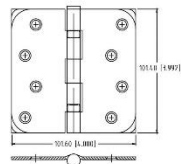


**MODEL:**  
RH1331620-US3/4 (3"X3"X2.0mm)

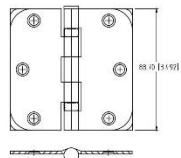


**MODEL:**  
RH1333522-US4 (3"X3"X2.2mm)

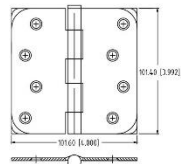




**MODEL:**  
RH401022BB-US15 (1"X1"X2.2mm-2BB)  
RH401025BB (1"X1"X2.5mm-2BB)



**MODEL:**  
RH1553522BB-US10B (3.5"X3.5"X2.2mm-2BB)



**MODEL:**  
RH404022-US1D (4"X4"X2.2mm)  
RH404025 (4"X4"X2.5mm)



**MODEL:**  
316#SS Up or Down Flange

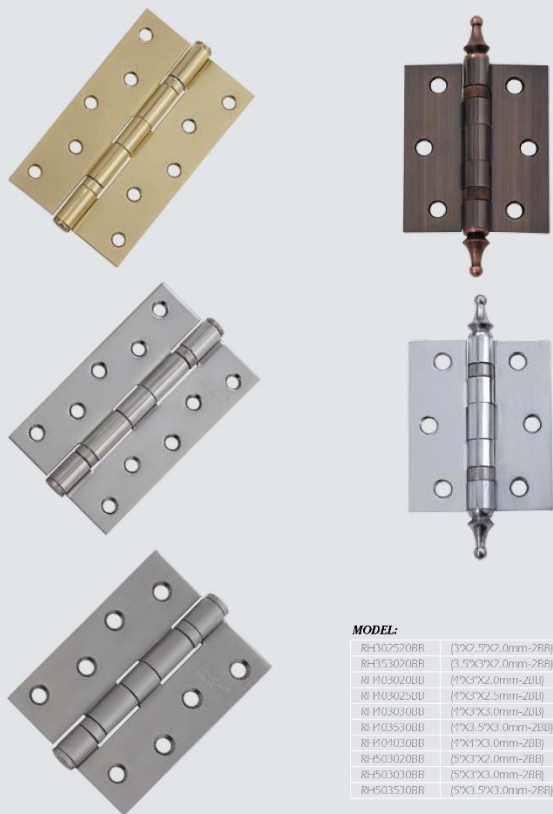


**MODEL:**  
316#SS 100X104X3.0mm-2BB Flange



**MODEL:**  
RH353522 (3.5"X3.5"X2.2mm)  
RH353522BB (3.5"X3.5"X2.2mm-2BB)  
RH401022 (4"X4"X2.2mm)  
RH401025 (4"X4"X2.5mm)  
RH401022BB (4"X4"X2.2mm-2BB)  
RH404025BB (4"X4"X2.5mm-2BB)

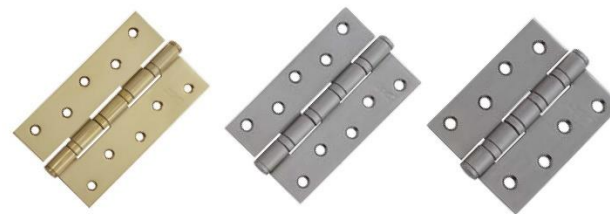
• MATERIAL: THE STEEL (IRON)/THE STAINLESS STEEL/THE SOLID BRASS 5 KNUCKLE HINGES



**MODEL:**

|            |                     |
|------------|---------------------|
| RH103020BR | (3"x2.5"x2.0mm-26B) |
| RH153020BR | (3.5"x3"x2.0mm-26B) |
| RI103020BU | (1"x3"x2.0mm-20B)   |
| RI103025BU | (1"x3"x2.5mm-20B)   |
| RI103030BU | (1"x3"x3.0mm-20B)   |
| RI103530BU | (1"x3.5"x3.0mm-20B) |
| RI107030BU | (1"x4"x3.0mm-20B)   |
| RH503020BR | (5"x3"x2.0mm-26B)   |
| RH503030BR | (5"x3"x3.0mm-26B)   |
| RH503530BR | (5"x3.5"x3.0mm-26B) |

• MATERIAL: THE STEEL (IRON)/THE STAINLESS STEEL/THE SOLID BRASS 5 KNUCKLE HINGES



**MODEL:**

|            |                     |
|------------|---------------------|
| RI103020BR | (1"x3"x2.0mm-18B)   |
| RH103025BR | (1"x3"x2.5mm-18B)   |
| RH103030BR | (1"x3"x3.0mm-18B)   |
| RH403530BR | (4"x3.5"x3.0mm-46B) |
| RH404030BR | (4"x4"x3.0mm-46B)   |
| RH503020BR | (5"x3"x2.0mm-46B)   |
| RH503030BR | (5"x3"x3.0mm-46B)   |
| RH503530BR | (5"x3.5"x3.0mm-46B) |





- MATERIAL: THE STEEL (IRON)/THE STAINLESS STEEL/THE SOLID BRASS 5 KNUCKLE HINGES



**MODEL:**

|                      |               |
|----------------------|---------------|
| F11.00X75X2.5mm      | Plain Bearing |
| F11.00X75X2.5mm      | 2BB           |
| F11.00X100X2.5mm     | Plain Bearing |
| F11.00X100X2.5mm     | 2BB           |
| F11.00X100X2.9-3.0mm | 2BB           |

**MODEL:**

|                 |                                             |
|-----------------|---------------------------------------------|
| F11.00X70X2.0mm | Plain Bearing-5 Knuckle or 2 Knuckle Hinges |
| F11.00X70X2.0mm | 2BB                                         |
| F11.20X80X2.0mm | Plain Bearing                               |
| F11.20X80X2.0mm | 2BB                                         |
| F11.00X70X2.5mm | Plain Bearing-5 Knuckle or 2 Knuckle Hinges |
| F11.00X70X2.5mm | 2BB                                         |
| F11.20X80X2.5mm | Plain Bearing-5 Knuckle or 2 Knuckle Hinges |
| F11.20X80X2.5mm | 2BB                                         |



**KOREA STANDARD HINGES**

- FULL MORTISE HINGES-5 KNUCKLE HINGES



SB

**MODEL:**

|                   |                    |
|-------------------|--------------------|
| KSH-4"x4"x2.7mm   | 2BB-Flat Head Pin  |
| KSH-4"x4"x2.7mm   | 2BB-Crown Head Pin |
| KSH-4"x3.5"x2.7mm | 2BB-Flat Head Pin  |
| KSH-4"x3.5"x2.0mm | 2BB-Flat Head Pin  |
| KSI-1"x3"x2.0mm   | 2BB-Crown Head Pin |



PN



V/P



DB

• FULL MORTISE HINGES--3 KNUCKLE HINGES



AB

**MODEL:**

KSI-I-4"x3.5"x2.7mm  
KSI-I-4"x3.5"x2.7mm

3-Knuckle-Without Flat Head Pin  
ZBB-3-Knuckle-Flat Head Pin



• 2 KNUCKLE HINGES



**MODEL:**

KSI-I-4"x3.5"x2.7mm-100  
KSI-I-4"x3.5"x2.7mm-100

Flat Head Pin="L"(Left Hinge)  
Flat Head Pin="R"(Right Hinge)

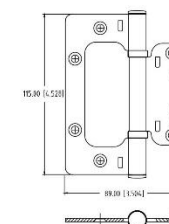
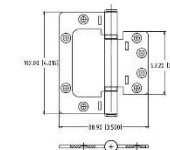
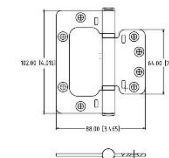
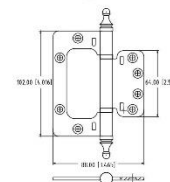
• NON MORTISE HINGES--3 KNUCKLE HINGES



**MODEL:**

NMI-I-4"x3.5"x2.5mm  
NMI-H-4"x3.5"x2.5mm  
NMI-H-4"x3.5"x2.7mm  
NMI-H-4"x3.5"x2.7mm

ZBB-Flat Head Pin  
ZBB-Crown Head Pin  
ZBB-Flat Head Pin  
ZBB-Crown Head Pin



**MODEL:**

NMI-I-4.5"x3.5"x2.5mm ZBB-Flat Head Pin