



BEST 
dormakaba Group



Spring Hinges

by BEST

Trusted experts. Proven reliability. Simply BEST.



Spring Hinges

Full Mortise

2060R – (ANSI K81071F) Square corners – steel-polished and plated or phosphated and prime coated for painting

2060R (32) – (ANSI K51071F) Square corners – stainless steel – highly polished

2060R (32D) – (ANSI K51071F) Square corners – stainless steel – satin finish

RD2060R – (ANSI K81071F) 1/4" (6mm) Radius corners – steel-polished and plated or phosphated and prime coated for painting

RD2060R (32) – (ANSI K51071F) 1/4" (6mm) Radius corners – stainless steel – highly polished

RD2060R (32D) – (ANSI K51071F) 1/4" (6mm) Radius corners – stainless steel – satin finish

RD2068R – (ANSI K81071F) 5/8" (16mm) Radius corners – Steel-polished and plated or phosphated and prime coated for painting

RD2068R (32) – (ANSI K51071F) 5/8" (16mm) Radius corners – stainless steel – highly polished

RD2068R (32D) – (ANSI K51071F) 5/8" (16mm) Radius corners – stainless steel – satin finish

- For labeled fire doors, stairwell doors, motel and hotel guest room doors, apartment unit entrance doors.
- Meets NFPA80 standard for 3 hour fire doors (NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors)
- 4 1/2" (114mm) size – UL listed for door up to 4' x 8' (1219 x 2438mm)
- 4" (102mm) size – approved for door up to 3' x 7' (914 x 2134mm)
- 3 1/2" (89mm) size – approved for door up to 2' 8" x 7' (813 x 2134mm)
- Limited lifetime warranty for the life of the building
- Internal ratchet mechanism eliminates loose adjustment pins
- Closing power is adjustable up or down
- Excellent alternative to more expensive overhead mounted closers
- Hinges can be furnished as follows:
 - with decorative tips
 - with electric switches [CS] – 4 1/2" (114 mm) only
 - Special screw hole pattern

Safety locking screw
prevents tampering with power adjustment

Patented ratchet mechanism
- fast, precise, one-hand adjustment
- no locking pins to install

Unique spring pintle
eliminates spring tab breakage

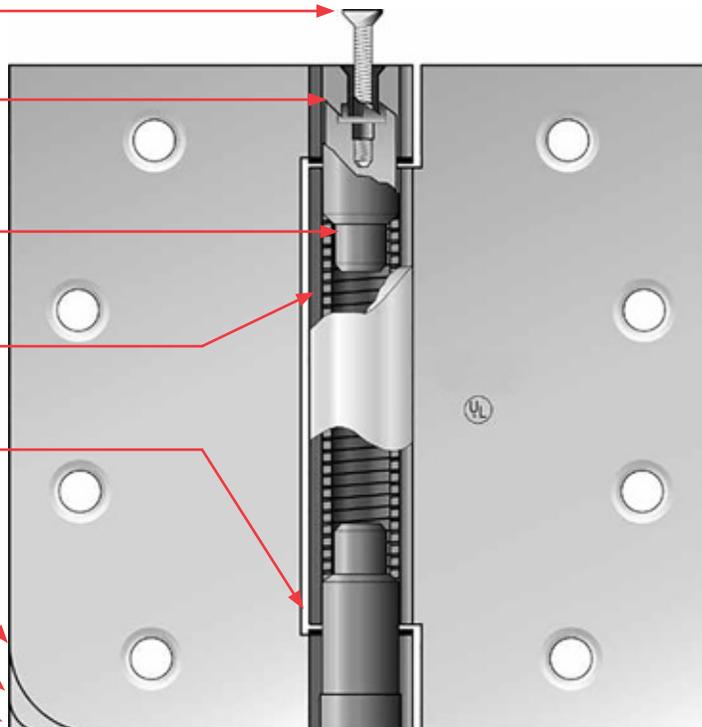
Advanced spring design
square wire delivers 25% more power

Bearings
maintenance free, no grease or oil required ever!

RD2068R
5/8" (16 mm)

RD2060R
1/4" (6 mm)

2060R
R - square



Adjusting Instructions

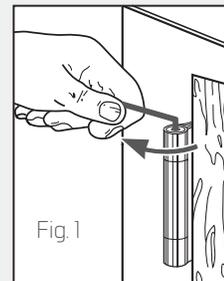


Fig. 1

To Increase Torque (Fig 1)

- Close door
- Engage 5/32" hex wrench
- Rotate clockwise to increase torque
- Do not exceed 6 ratchet "clicks"

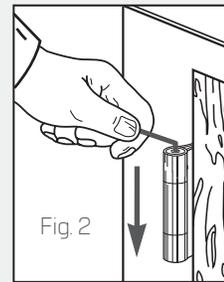


Fig. 2

To Decrease Torque (Fig 2)

- Close door
- Engage 5/32" hex wrench
- Depress wrench to disengage ratchet
- Let wrench rotate counter-clockwise to new setting
- Allow wrench to rise

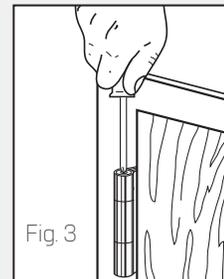


Fig. 3

Install Locking Safety Screw (Fig 3)

- Install 6-32 5/8" recessed head machine screw packed with hinge

Spring Hinges

2060R, RD2060R, RD2068R – 4 1/2"

Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per		Case Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Box	Case	Lbs.	(Kg)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8-12-24 x 1/2	8-12 x 1 1/4	3 ea.	48 ea.	50	(23)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8-12-24 x 1/2	8-12 x 1 1/4	3 ea.	48 ea.	53	(24)

Application guide lines for 2060R, RD2060R, RD2068R 4 1/2" x 4" and 4 1/2" x 4 1/2"

Door Size and Weight	Number of Spring Hinges Required
For doors up to 80 lbs. (36Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	1 each No. 2060R, RD2060R or RD2068R with 2 each anti-friction bearing hinges of same size
For doors up to 130 lbs. (59Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	2 each No. 2060R, RD2060R or RD2068R with 1 each anti-friction bearing hinges of same size
For doors up to 180 lbs. (81.6Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	3 each No. 2060R, RD2060R or RD2068R
For doors up to 180 lbs. (81.6Kg) not exceeding 4' 0" x 8' 0" x 1 3/4" (1219 x 2438 x 44mm)	4 each No. 2060R, RD2060R or RD2068R

When drafts or wind conditions exist, or carpets, door bottoms, bowed or twisted doors or frames, pivot point misalignment or improper latch adjustment affect either the free swinging or latching of the door, additional spring hinges may be required.
*NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.

2060R, RD2060R, RD2068R – 4"

Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per		Case Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Box	Case	Lbs.	(Kg)
4 x 4	(102 x 102)	.099	(25)	8-12-24 x 1/2 with #9 head	8-9 x 1	2 ea.	50 ea.	38	(17)

Application guide lines for 2060R, RD2060R, RD2068R 4" x 4"

Door Size and Weight	Number of Spring Hinges Required
For doors up to 3' 0" x 7' 0" x 1 3/4" (914 x 2134 x 44mm) not exceeding 50 lbs. (23Kg)	1 each No. 2060R, RD2060R or RD2068R with 2 each similar sized hinges
For doors up to 3' 0" x 7' 0" x 1 3/4" (914 x 2134 x 44mm) not exceeding 85 lbs. (39Kg)	2 each No. 2060R, RD2060R or RD2068R with 1 each similar sized hinge
For doors up to 3' 0" x 7' 0" x 1 3/4" (914 x 2134 x 44mm) not exceeding 110 lbs. (50Kg)	3 each No. 2060R, RD2060R or RD2068R

Similar sized hinges used with spring hinges must present the same pivot point. When used as part of a complete listed assembly similar hinges must be the same as those tested. Otherwise, anti-friction hinges must be used.
*NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.

2060R, RD2060R, RD2068R – 3 1/2"

Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per		Case Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Box	Case	Lbs.	(Kg)
3 1/2 x 3 1/2	(89x89)	.099	(25)	6-10-24 x 1/2 with #9 head	6-9 x 1	2 ea.	50 ea.	32	(15)

Application guide lines for 2060R, RD2060R, RD2068R 3 1/2" x 3 1/2"

Door Size and Weight	Number of Spring Hinges Required
For doors up to 3' 0" x 7' 0" x 1 3/8" (914 x 2134 x 35mm) not exceeding 50 lbs. (23Kg)	1 each No. 2060R, RD2060R or RD2068R with 2 each similar sized hinges
For doors up to 3' 0" x 7' 0" x 1 3/8" (914 x 2134 x 35mm) not exceeding 85 lbs. (39Kg)	2 each No. 2060R, RD2060R or RD2068R with 1 each similar sized hinge
For doors up to 3' 0" x 7' 0" x 1 3/8" (914 x 2134 x 35mm) not exceeding 110 lbs. (50Kg)	3 each No. 2060R, RD2060R or RD2068R

Similar sized hinges used with spring hinges must present the same pivot point. When used as part of a complete listed assembly similar hinges must be the same as those tested. Otherwise, anti-friction hinges must be used.
*NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.

Spring Hinges

2079 Spring Hinges And Free Swinging Hinge Sets

1 set 2079 4 1/2" x 4 1/2" US3 (632) EDP# 82-7162 to consist of:

- 2 each 2060R 4 1/2" x 4 1/2" US3, Steel
- 1 each FBBI79 4 1/2" x 4 1/2" US3, Steel

1 set 2079 4 1/2" x 4 1/2" USP (600) EDP# 82-7170 to consist of:

- 2 each 2060R 4 1/2" x 4 1/2" USP, Steel
- 1 each FBBI79 4 1/2" x 4 1/2" USP, Steel

1 set 2079 4 1/2" x 4 1/2" US26D (652) EDP# 82-7188 to consist of:

- 2 each 2060R 4 1/2" x 4 1/2" US26D, Steel
- 1 each FBBI79 4 1/2" x 4 1/2" US26D, Steel

- For medium weight doors of average frequency
- Installer uses one box of hinges on a door up to 7' 6" (2286mm) in height
- All hinges have template screw hole location to use on either wood or hollow metal doors and frames
- Identical pivot point for all 3 hinges
- Can be used on labeled doors (Refer to NFPA-80)
- 2060R conforms to ANSI K81071F
- FBBI79 conforms to ANSI A8112

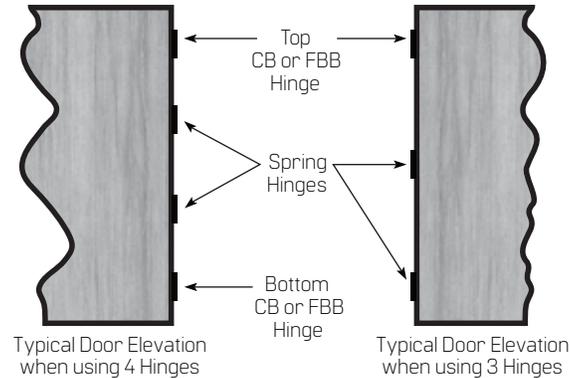


FBBI79



2060R

Spring Hinge Location, When Using 2 Spring Hinges On a Door



2060R, RD2060R, RD2068R – 3 1/2"

Number	Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per		Case Weight	
	Inches	(mm)	Inches	(mm)	Machine	Wood	Box	Case	Lbs.	(Kg)
2079	4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	24-12-24 x 1/2	24-12 x 1 1/4	1 ea.	16 sets	56	(25)

Application guide lines for 2060R – 4 1/2"

Door Size and Weight	Number of Spring Hinges Required
For doors up to 130lbs. (59 Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	2 each No. 2060R, RD2060R or RD2068R with 1 each anti-friction bearing hinges of same size

When drafts or wind conditions exist, or carpets, door bottoms, bowed or twisted doors or frames, pivot point misalignment or improper latch adjustment affect either the free swinging or latching of the door, additional spring hinges may be required.
 *NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.

For questions about ordering and to be sure you get the right configuration for your needs, [contact your BEST dormakaba sales representative](#).
 6161 East 75th Street, Indianapolis, IN 46250 USA | [855-365-2407](tel:855-365-2407) | bestaccess.com