**STANLEY**®

Security Solutions

# SPRING HINGES

## UL LISTED

**STANLEY**®

# SPRING HINGES

## Full Mortise LifeSpan® ⓊL

**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)
- LifeSpan 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 –**
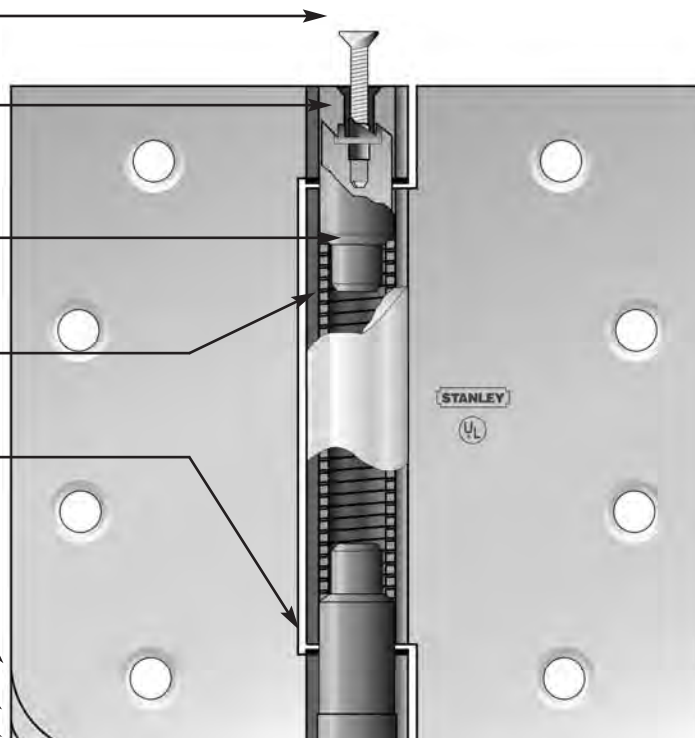eliminates spring tab breakage

**Advanced spring design –**
square wire delivers 25% more power

**LifeStan® bearings –**
maintenance free, no grease or oil required ever!

**RD2068R** – $^5/_8$" (16 mm)

**RD2060R** – $^1/_4$" (6 mm)

**2060R** – R - square

### Adjusting Instructions


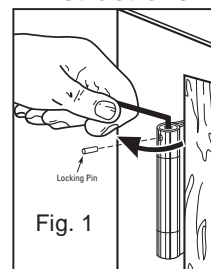
Fig. 1

**To Increase Torque (Fig 1)**
- Close door
- Engage 5/32" hex wrench
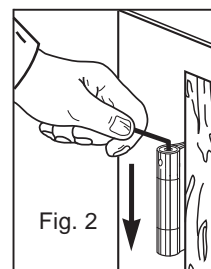- Rotate clockwise to increase torque
- Do not exceed 6 ratchet "clicks"



Fig. 2

**To Decrease Torque (Fig 2)**
- Close door
- Engage 5/32" hex wrench
- Depress wrench to disengage ratchet
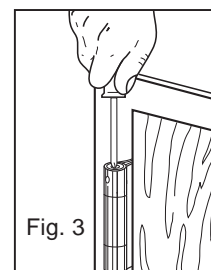- Let wrench rotate counter-clockwise to new setting
- Allow wrench to rise



Fig. 3

**Install Locking Safety Screw (Fig 3)**
- Install 6-32  5/8" recessed head machine screw packed with hinge

**STANLEY®**

## 2060R, RD2060R, RD2068R – 4 1/2" (UL)



| Size Open | | Gauge of Metal | | Flat Head Screws Per Piece | | Quantity Per Box | Quantity Per Case | Case Weight | |
|---|---|---|---|---|---|---|---|---|---|
| (Inches) | (MM) | (Inches) | (MM) | Machine | Wood | | | (Lbs.) | (Kg) |
| 4 1/2 x 4 | (114x102) | .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 | (114x114) | .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.

\*\* For fire doors refer to NFPA-80, section 6.4.3.1.

## 2060R, RD2060R, RD2068R – 4"



| Size Open | | Gauge of Metal | | Flat Head Screws Per Piece | | Quantity Per Box | Quantity Per Case | Case Weight | |
|---|---|---|---|---|---|---|---|---|---|
| (Inches) | (MM) | (Inches) | (MM) | Machine | Wood | | | (Lbs.) | (Kg) |
| 4 x 4 | (102x102) | .099 | (2.5) | 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.

\*\* For fire doors refer to NFPA-80, section 6.4.3.1.

## 2060R, RD2060R, RD2068R – 3 1/2"



| Size Open | | Gauge of Metal | | Flat Head Screws Per Piece | | Quantity Per Box | Quantity Per Case | Case Weight | |
|---|---|---|---|---|---|---|---|---|---|
| (Inches) | (MM) | (Inches) | (MM) | Machine | Wood | | | (Lbs.) | (Kg) |
| 3 1/2 x 3 1/2 | (89x89) | .099 | (2.5) | 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.

\*\* For fire doors refer to NFPA-80, section 6.4.3.1.

# 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 FBB179 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 FBB179 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 FBB179 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
- FBB179 conforms to ANSI A8112



**FBB179**



**2060R**
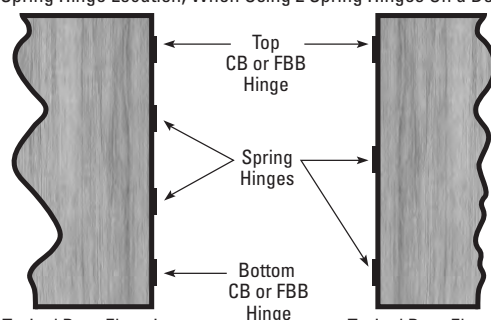
## Application guide lines for 2060R – 4 $^1/_2$ ″ (UL)

| 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 fire doors refer to NFPA-80, section 6.4.3.1.



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

Top CB or FBB Hinge

Spring Hinges

Bottom CB or FBB Hinge

Typical Door Elevation when using 4 Hinges

Typical Door Elevation when using 3 Hinges

| Class Number | Size Open (Inches) (MM) | Gauge of Metal (Inches) (MM) | Flat Head Screws Per Set | | Quantity Per Box | Quantity Per Case | Case Weight (Lbs.) (Kg) |
|---|---|---|---|---|---|---|---|
| | | | Machine | Wood | | | |
| 2079 | 4 $^1/_2$ x 4 $^1/_2$ (114x114) | .134 (3.4) | 24-12-24 x $^1/_2$ | 24-12 x 1 $^1/_4$ | 1 SET | 16 SETS | 55 (25) |

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