

8.31/Ron

## Concealed Overhead DOOR CLOSER

Slim, trim and vastly improved! This system offers smooth, dependable control for manual doors up to 150 lbs. in weight and 42" in width

The same basic model adapts to nearly all door applications including single or double-acting; butt, offset or center hung; right or left hand opening. Positive hydraulic mechanism precludes fallback, is separately contained to eliminate chance of spindle leakage, and is now easily repairable with an inexpensive R & K "New Life" repair kit.

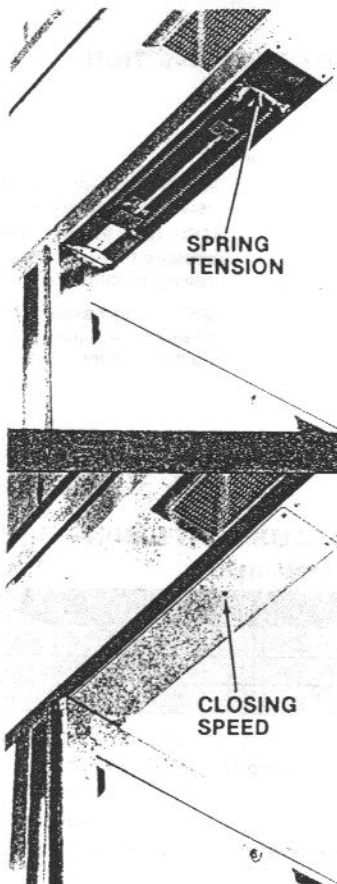
Specify R & K for convenience and dependability, plus the architectural advantages of a completely concealed overhead closer.

### SINGLE OR DOUBLE-ACTING

Dual spring action works full time for either swing. For single-acting, simply install suitable stop on door jamb.

### EASY TO INSTALL

The closer fits neatly into the 1 3/4" x 4" (or larger) header. Choice of rugged end load, side load or offset top hardware and bottom pivot hardware available to fit specific installations. Arm has angular adjustment for positive centering. Complete instructions furnished for installation, door alignment and control adjustments

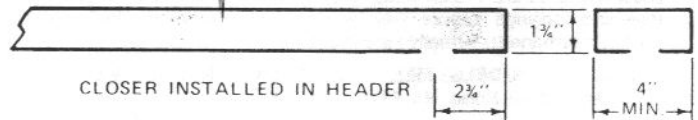
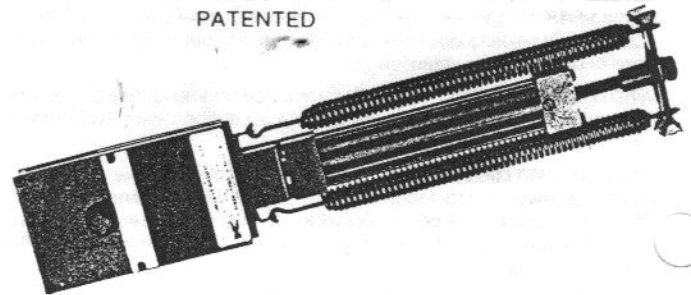


### FULLY ADJUSTABLE

Wind conditions, door size and weight determine spring tension required. Increase or decrease by removing cover plate and turning the hex nut at the spring end of the closer.

A common screw driver adjusts the closing speed without removing cover plate.

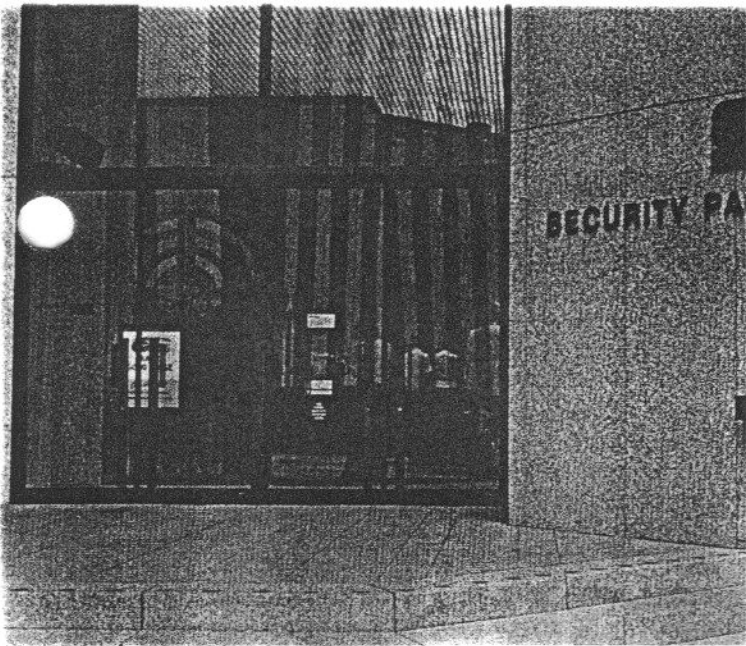
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### DIMENSIONS & SPECIFICATIONS

Maximum door width ..... 42"  
 Closer dimensions ..... 3-3/4"W x 1-3/8"H x 20-1/2"L  
 Maximum door weight (heavy traffic) ..... 150 Lbs.

		MODEL NUMBERS	
		C80EE	C80SB
Fed. spec. FF-H-121C		3205 II, III Mod.	
Upper pivot arm cap inserted from:		End	Side
Center Hung	Normal opening to cushioned stop:	90°	90°
Offset	Normal opening to cushioned stop:	Same as center hung, but can vary according to width of header and location of pivot point.	



# Ronan & Kunz

## Series 10 PITTCO Concealed FLOOR HINGE

A heavy duty control for smooth opening and closing of manually operated doors. Each model is completely concealed, has no protruding arms and thoroughly complements the straight, clean lines of modern store and office entrances.

Specify R&K Series 10 for trouble-free control of busy doors for many years.

**COMPACT, COMPLETE.** In overall proportion, Series 10 is the smallest, most durable floor hinge of its type. Units are furnished with welded steel cement case, top pivot assembly, check arm and hinge dress plate. Four precision leveling screws are an integral part of the hinge.

**SINGLE & DOUBLE-ACTING, VERSATILE.** (See diagram and chart below.) R&K hinges are adaptable for offset, center pivot or safety hung doors. Panic release door stop permits outward opening of single-acting, open-in doors during emergency.

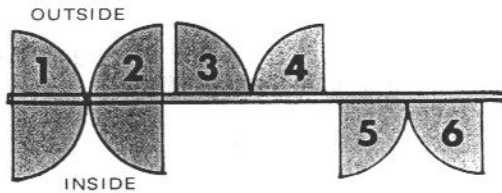
**WEATHER GUARDED.** Specially-formulated hydraulic fluid surrounds all moving parts; assures continued smooth operation over a wide range of temperatures.

**EASY ADJUSTMENT.** Closing speed and checking are regulated by control screws on top face of hinge, adjust without removing door or threshold. Closing force is available in one of three tensions (see recommendation chart) and hinges can be furnished with or without hold-open feature.

**LONG LASTING.** R&K floor hinges have a warranty claims record of less than 1/10th of 1% — they are built to last. Units are tested at 300 psi pressure to insure proper seating of hydraulic gaskets. Top grade bearings and forgings assure maintenance-free operation. Back check is built-in, permanent, virtually indestructible.

**SERIES 10 MODELS MEET ALL DESIGN REQUIREMENTS . . .** including Federal Spec. No. FF-H-121C.

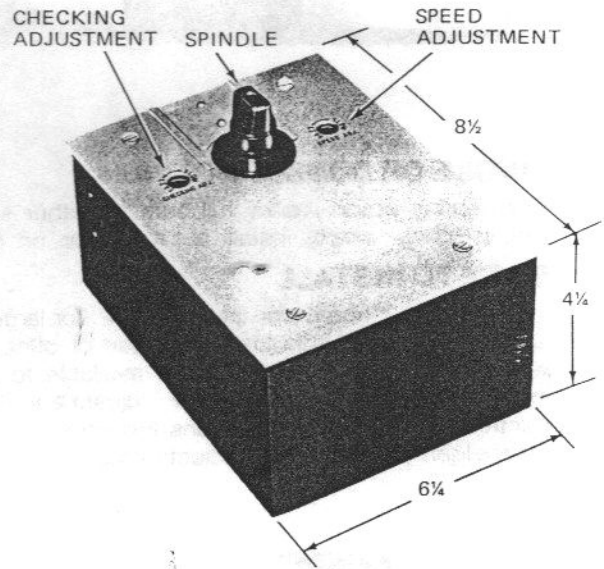
### DOOR SWING DIAGRAM



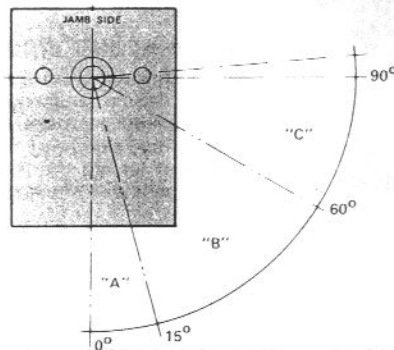
### SERIES 10 HINGE SELECTION CHART

Model	Hold-open	Swing
10-100*	No	3 & 6 90° Single-acting
10-105*	No	4 & 5 90° Single-acting
10-110	Yes	3 & 6 95° Single-acting
10-115	Yes	4 & 5 95° Single-acting
10-120*	Yes	1 & 2 95° Double-acting
10-125*	No	1 & 2 85° Double-acting
10-150	Yes	3 & 6 110° Single-acting
10-155	Yes	4 & 5 110° Single-acting
10-180	No	3 & 6 100° Single-acting
10-185	No	4 & 5 100° Single-acting

\*Models 10-100, 10-105, 10-120 and 10-125 have resistance to opening at 70°; all others at 90°.



### CAM-CONTROLLED OPENING ACTION



**ARC A**— has the greatest resistance to opening.

**ARC B**— lower spring pressure for ease through area of greatest use.

**ARC C**— increased spring pressure for back check against violent opening.

**HOLD-OPEN** feature available when specified, refer to Hinge Selection Chart for degree of hold-open.

### RECOMMENDED CLOSING TENSION — normal\* use

DOOR SWING	3'0"	3'6"	3'6"	4'0"
Single-acting (in)	T4	T6	T6	T8
Single-acting (out)	T4	T6	T6	T6
Double-acting	T4	T6	T6	T8

\*Unusual wind conditions, stack action and door weight should also be considered in selecting closing tension: T4 (light), T6 (medium), T8 (heavy)

EXAMPLE: For double-acting door with hold-open, door size 3'0". SPECIFY: Model 10-120-T6.