

Counter Doors



Steel & Stainless Steel Counter Doors

R&S Steel and Stainless Steel Doors combine strength and durability with compact design and neat appearance. Although primarily utilized as a closure on counter openings, these doors may also be used on openings large enough to provide walk-thru or drive-thru access. Counter doors can be modified in construction to meet stainless steel service door requirements up to 16 feet wide, 10 feet high at a maximum of 144 square feet.



Specifications

Part 1 General

1.01 Summary

A. Counter doors excluding design, construction and preparation of openings; finish or field painting; access panels; electrical wiring, conduit, wire, fuses and disconnect switches

Part 2 Products

2.01 Materials

A. **Manufacturer:** R&S Manufacturing, model N ____, model SN ____ (for stainless)

B. **Mounting:** Face of wall or between-jamb

C. **Operation:** Push-up to 14' wide and awning crank on larger sizes is standard (awning crank should be considered when doors are to be operated over a deep counter or over 7' high). Chain hoist or motor operation are optional.

D. **Curtain:** Interlocking type 18 flat slats are roll formed from (galvanized steel) (stainless steel) coil. Endlocks are riveted to slats to maintain curtain alignment. Bottom of curtain is reinforced by a (single angle) (tubular) footpiece of material matching slats, with astragal.

E. **Guides:** Box shape guides are formed from (steel) (stainless steel).

F. **Brackets:** Steel plate brackets are bolted to guides to support curtain and barrel and provide mounting for hood.

G. **Barrel:** Steel pipe houses torsion spring assembly and supports curtain with a maximum deflection of .03 inch per foot of width. Torsion springs are mounted on a continuous cold rolled steel shaft, adjustable by a tension wheel outside or inside one bracket.

H. **Hood:** Formed from 24 gage (galvanized steel) (stainless steel) sheet, reinforced with top and bottom flanges to limit deflection.

I. **Locking:** Slidebolt locks on single angle footpiece and cylinder lock on optional tubular footpiece

2.02 Finish

A. Galvanized steel slats and hoods are pre-finished with a baked on grey polyester primer before forming. Steel footpiece, guides and brackets receive one coat of rust inhibiting grey primer. Exposed stainless steel provided with #4 finish.

Part 3 Execution

3.01 Installation

A. Counter doors are to be installed by an R & S authorized representative in accordance with R&S installation instructions.

Steel & Stainless Steel Counter Door Options

Increased Windload Capacity: curtain designs to withstand windloads exceeding 20PSF
High Cycle Construction: designs to provide up to 150,000 operating cycles or maximum possible in design

Perforated Slats: 3/64" diameter holes on 5/64" staggered centers in type 25 slats provide 30% open area for ventilation and visibility throughout the curtain

Vision Lites: single or multiple 3" wide cutouts, open for ventilation or covered with acrylic

Intermediate Grille: partial grille curtain connecting type 30 slats above and below

Sloped or Stepped Footpiece: for special sill conditions

Cylinder Locks: on footpiece or guide

Galvanized Finish: on footpiece, guides, brackets and barrel

Safety Bearing: This unique safety device functions as both a bearing and inertia brake for motorized service doors and grilles. The safety bearing is designed to prevent the curtain from free-falling if there is damage to or failure of the motor operator, drive chain or spring assembly. If a malfunction occurs and the downward speed increases to an unsafe rate, the inertia brake absorbs the added energy and safely stops the load.

Powdercoat Finish: a durable and decorative finish for steel or aluminum surfaces. It provides longer life and requires less maintenance than a standard finish. Powder coating is available in a variety of colors for use on many products. Consult factory for color selection, applications and limitations.

Tubular Motor Operator: motors completely contained within the barrel can be provided for counter doors up to 84 square feet in limited usage applications. Only the manual crank override is visible outside the bracket. The units are available in 115 volt/single phase with constant contact one button or keyswitch control. They can also be provided with a low voltage controller when options such as a reversing edge or timer are required.

Steel & Stainless Steel Counter Door Model Designations

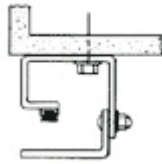
By Method of Operation - Face of Wall Mount

Steel Counter Door	Stainless Steel Counter Door
NFP - Push-Up	SNFP - Push-Up
NFA - Awning Crank	SNFA - Awning Crank
NFC - Chain	SNFC - Chain
NFM - Motor	SNFM - Motor

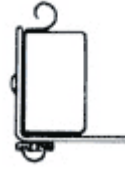
For Between-Jamb Mount, change letter 'F' to 'J'.

Steel & Stainless Steel Counter Door Guide & Footpiece Details

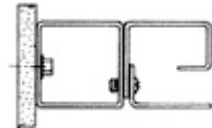
Face of Wall Mounting Guide Detail



Tubular Footpiece Detail



Between Jamb Mounting Guide Detail



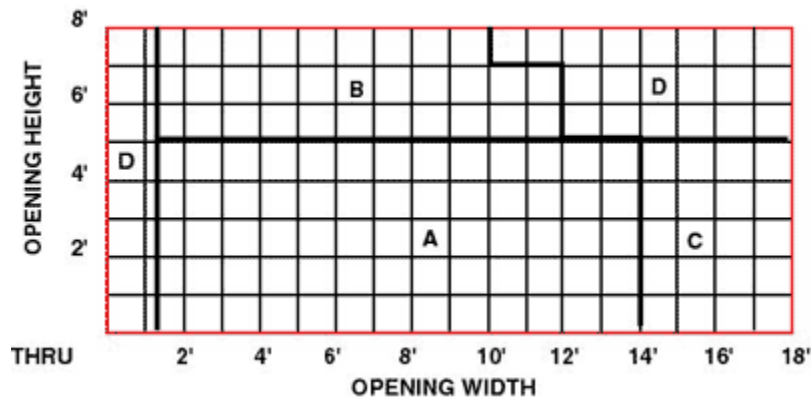
Angle Footpiece Detail



Steel & Stainless Steel Counter Door Clearance Requirements

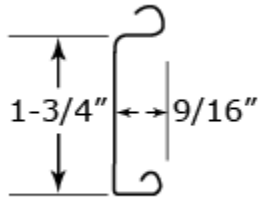
Area	Headroom	Tension Side Room	Power Side Room	
			Push-up	Crank
A	12"	4 1/4"	2 1/4"	4 1/4"
B	14"	4 1/4"	2 1/4"	4 1/4"
C	12"	4 1/4"	--	4 1/4"
D	Consult Factory			

1) Reduce Side room by 1/4" for Between-Jamb Mount
 2) Reduce Tension Side Room by 2" with inside tension



Steel & Stainless Steel Counter Door Slat Detail

#18 Small Flat Slat



AuthorityDock&Door

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