

c. j. rush industries
BALANCED DOOR SYSTEMS
Section 08480

I. GENERAL.

DESCRIPTION.

Work included: Furnish labour, materials and other services to complete the fabrication, assembly and installation of the balanced doors and door frames, including all materials and fitments required for the operation of the units in the manner, direction and performance shown on the shop drawings and specified herein. Work not included structural support of door framing, interior trims. (Specifier list others). Related work specified elsewhere. (Specifier list).

QUALITY ASSURANCE

Drawings and specifications for work of this section are based upon (Specifier select one of the following.)

- Series **10
- Series **20
- Series **30
- Series **40
- Series **50

as manufactured by **c.j. rush industries**. Whenever alternative products are offered, submit supporting technical literature, samples, drawings and performance data for comparison 10 days prior to bid.

MAINTENANCE AND GUARANTEE.

Provide data for maintenance and cleaning in accordance with instructions under General Conditions. Provide a written guarantee for the complete installation provided under this section against defective material and workmanship which appears within a period of one year from the date of substantial completion.

II. PRODUCTS.

MATERIALS.

Extrusions shall be 6063 T54 alloy and temper.
Formed aluminum components shall be sheet of alloy and temper suitable for their purpose and finish.
Fasteners shall be 300 series stainless steel or 400 series stainless steel cadmium plated and of sufficient size and quantity to perform their intended function.
Glazing gaskets shall be extruded, black, closed cell or dense elastomer of durometer appropriate to the function.
Weathering shall be nylon backed wool pile of size and density appropriate to the function.

FINISH.

CLEAR ANODIZED.

Exposed aluminum sections shall be given an anodic oxide treatment in accordance with Aluminum Association specification.
#14 Clear (AA-M12C22A41), #17 Clear (AA-M12C22A31)

OR,

PERMANODIC HARDCOLOR.

Exposed aluminum sections shall be given an anodic oxide treatment to obtain an Architectural Class 1 Anodic Colour Coating in accordance with Aluminum Association specification AA-M12C22A42/44

Colour shall be ... (Specify one of the following).

- #18 Champagne
- #26 Light Bronze
- #26 Medium Bronze
- #29 Black
- #40 Bronze

OR,

FLUOROPOLYMER PAINT.

Exposed aluminum sections shall be given a factory applied thermosetting fluoropolymer coating in accordance with American Architectural Manufacturers Association specification AAMA 605.2. Colour shall match.... (Specifier provide colour reference number).

OR,

STAINLESS STEEL CLADDING.

Exposed aluminum sections shall be clad in 304 stainless steel with a minimum thickness of 0.050" (1.27 mm). (Specifier to select mirror or satin polished finish).

OR,

MUNTZ METAL CLADDING.

Exposed aluminum sections shall be clad in alloy 280 Muntz metal with a minimum thickness of 0.050" (1.27 mm). (Specifier to select mirror or satin polished finish).

FABRICATION.

Construct door from extrusions of size and shape shown on shop drawings. Door top rails, bottom rails and stiles shall be porthole extrusions.

Corner construction shall be mechanical clip fastening.

Weather-stripping shall be provided on three sides of the entrance and shall be installed in the door or door frame. An adjustable weathered astragal shall be installed in meeting stiles for pairs of doors.

HARDWARE.

Balanced door hinging hardware consisting of balance arm/hinge tube assembly, bearing assemblies, door pivots and guide rollers shall be manufactured **c.j. rush industries**. Balance arms shall be fabricated from.... (Specifier please add aluminum or stainless steel).

Arm hubs shall be inserted into the steel hinge tube and wedged securely in place.

Bearing assemblies shall be mounted in aluminum alloy housings.

Needle bearings and thrust bearings shall be pressed into permanently lubricated self-aligning ball-bushings at all points of rotation.

Hardware for doors shall be.... (Specifier please include style, finish, type, model, series, manufacturer, etc. to ensure a complete description of requirements).

- | | |
|-----------------------|-------------------------|
| 1. Locks: | 3. Exit device. |
| Active leaf. | 4. Push-pull. |
| Inactive leaf. | 5. Threshold and sweep. |
| 2. Closer (LCN 2030). | 6. Miscellaneous. |

III. EXECUTION.

INSTALLATION.

Doors shall be installed, glazed and adjusted by experienced personnel in accordance with the manufacturer's instructions and approved shop drawings. All items in this section shall be set in their correct location and shall be set level, square, plumb and at proper elevations and in alignment with other work.

PROTECTION AND CLEANING.

Aluminum shall be isolated from concrete, mortar, plaster and dissimilar metals with bituminous paint. Doors shall be protected from other building materials during and after installation until acceptance by the General Contractor. Thereafter, it shall be the responsibility of the General Contractor to maintain protection and provide final cleaning.