



The premium Models C7X20 and COX22 are for commercial and industrial facilities where temperature control, energy-efficiency and durability considerations are all important.

MODELS **C7X20, COX22**

**2" Polyurethane Insulated Thermally Broken Doors**

- Full 2" thick sandwich construction consisting of exterior and interior steel skins filled by foamed-in-place polyurethane foam.
- Stucco embossed exterior and interior steel skins; Model C7X17 exterior with micro-grooved ribs, Model COX22 exterior with flush 20 gauge steel; both interior skins with micro-grooved ribs.
- **A GREEN DOOR:** IDEAL Door's polyurethane foam is CFC and HCFC free and utilizes recycled steel and packaging materials.
- Both steel skins are separated by a continuous foam thermal break.
- IDEAL Door's three stage prepainting process yields a durable, maintenance-free finish.
- Foamed-in-place polyurethane insulation; R-value of 17.2, U-value of .058.



# IDEAL MODELS C7X20, COX22

**Quality Assurance** – Doors shall be insulated steel, upward-acting sectional overhead type. Each door is provided as one complete unit including sections, brackets, tracks, counterbalance mechanisms, hardware (list options) to suit the opening and headroom available. Standard maximum size is 26'2" wide x 20' high.

**Materials and Construction** – Sections shall be 2" thick sandwich construction consisting of exterior and interior steel skins filled by foamed-in-place polyurethane foam. Both steel skins to be separated by a continuous foam thermal break. Steel skins, with stucco embossed texture, shall be roll formed commercial quality hot-dipped galvanized per ASTM A-294, A-653, phosphate coated, prepainted with primer and baked-on polyester top coat. Door sections to be stucco embossed texture exterior and interior skins. Model C7X20 constructed of .016" min. (27 gauge) exterior and .016" min. (27 gauge) interior skins. Model COX22 constructed of .034" (20 gauge) exterior and .016" min. (27 gauge) interior skins. Both models interior skins with .040" minor rib, 4" or 5" on center. End stiles shall be .045" (18 gauge) galvanized steel. All stiles are engineered for easy hardware attachment. 16 gauge (.056" min.) double end stiles as required. 19 gauge hinge back-up plates for hinge attachment. Full length aluminum retainer with U-shaped flexible PVC vinyl astragal. Section joint to form a weathertight tongue-and-groove joint. Steel step plate/lift handle provided on bottom section. SECTIONS GUARANTEED AGAINST DELAMINATION FOR TEN (10) YEARS.

**Energy Values** – R-value = 17.2; sectional U-factor = .058

**Finish** – The section exterior and interior is prepainted steel consisting of a hot-dipped galvanized coating applied to the base metal. A phosphate treatment is applied before a baked-on primer. This prime coat is finished with a polyester coat for rust protection. The interior portion of the skin that is adhered to the polyurethane foam is a baked-on coating. Doors are available in white or brown finishes. FINISH GUARANTEED AGAINST RUST-THROUGH FOR TEN (10) YEARS.

**Hardware** – All hinges and brackets to be manufactured of hot-dipped galvanized steel, 14 gauge minimum. Ten ball steel rollers to be full floating ball bearing in case-hardened steel races, mounted to fit the taper of the track.

**Tracks** – 2" or 3" track. Vertical tracks to be minimum of 16 gauge galvanized steel tapered and mounted for wedge type closing. Horizontal tracks to be minimum 14 gauge galvanized steel, reinforced with minimum 13 gauge galvanized steel angles as required. 3" track is 12 gauge.

**Spring Counterbalance** – Door assembly to be operated by a torsion spring counterbalance mechanism with a helically wound, oil tempered torsion spring mounted on a galvanized steel tube or solid steel shaft as required. Cable drums are die cast aluminum with high strength galvanized aircraft cable with minimum 7 to 1 safety factor.

**Locking** – Inside spring loaded slide bolt lock on end stile shall engage slot in track.

**Wind Loading** – Door shall comply with ANSI/DASMA 108 or to meet specific application requirements.

**Rust-proof** – Panels are prepainted inside and out to inhibit rust. Hot-dipped, galvanized steel is painted with primer and given a tough oven-baked polyester top coat to provide the most rust-resistant steel door available. Ten year warranty against rust-through.

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## 2" Polyurethane Insulated Thermally Broken Doors

### OPTIONS

- A. Glazing** – 24" x 8" or 24" x 12" window lites of cellular PVC frame construction; available with 1/2" insulated or insulated tempered glass, 1/4" wire glass. Full vision section, prepainted white or brown; glazing options include 1/8" DSB, 1/8" tempered, 1/8" plexiglass, 1/2" insulated or insulated tempered glass, 1/4" polycarbonate.
- B. High Cycle Spring** – Available in 25,000; 50,000; or 100,000 cycles.
- C. Track** – Vertical lift, high lift, follow the roof slope and low headroom track available, 2" or 3" as required.
- D. Weatherstripping** – Complete perimeter seals available in various materials.
- E. Locking** – Five pin cylinder lock with outside key, 16 1/2" lock bar.
- F. Mullions** – Carry-away (2") up to 14' high, roll-away up to 14' high, and swing-up available.
- G. Pass Door** – 32" wide x 80" high, maximum 14'2" wide section.
- H. Break-Away Bottom Section** – Available up to 20'2" wide on doors with full vertical lift track or high lift track with minimum of 36" of high lift.

### SECTION ARRANGEMENT

Door Height	Number of Sections
6'3" to 8'0"	4
8'3" to 10'0"	5
10'3" to 12'0"	6
12'3" to 14'0"	7
14'3" to 16'0"	8
16'3" to 18'0"	9
18'3" to 20'0"	10

### WINDOW OPTIONS

(24" x 8" or 24" x 12" Windows)

Door Width	Max. Number of Window Lites
Up to 9'2"	2
9'4" to 13'2"	3
13'4" to 16'2"	4
16'4" to 20'2"	5
20'4" to 24'2"	6
24'4" to 27'2"	7

