



1485 Sunrise Drive | Arthur, Illinois 61911  
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## Specification Sheet: Model 2241/4241 Raised Panel Residential Door

### Door Sections:

Panels:	18" or 21" high by width of door.
Panel Material:	24 gauge deep-draw quality steel. Hot dipped galvanized G40 coating. Exterior: polyester primer and topcoat available in white, brown, almond, sandstone or evergreen. Interior: white polyester primer and topcoat.
Section Thickness:	2"
Panel Profile:	Woodgrain textured, raised panel embossed.
Joint Design:	Tongue and groove rails.
End Stiles:	Wrap-around style, 20 gauge galvanized steel, full height of section. Secured to inside rails using Tab-Lock system and interlocked to face of section.
Center Stiles:	20 gauge galvanized steel, full height of section. Secured to inside rails using Tab-Lock system and secured to face of section with industrial adhesive.
Insulation:	1-3/8" thick CFC free polystyrene with an R-Value of 7.94*, 0.13 U-Value. Vinyl inside cover laminated to polystyrene.

### Tracks:

**Vertical Tracks:** Roll-formed 17 gauge galvanized steel for doors through 8'-0" in height. Doors over 8'-0" through 10'-0" will be 16 gauge track. Doors exceeding 10'-0" in height will be 14 gauge track. Tracks to be mounted with track brackets (bolted or riveted to track) and lag-bolted to jamb. Tracks are adjustable (if bolted) to ensure weather-tight fit.

**Horizontal Tracks:** Roll-formed 16 gauge galvanized steel for doors through 10'-0" in height. Doors over 10'-0" will be 14 gauge track. Tracks are reinforced with angle (min 14 gauge) according to door size and weight.

### Hardware:

Graduated heavy duty hinges (min 14 gauge), top fixtures (min 14 gauge) and bottom fixtures (min 13 gauge) are made of galvanized steel. Rollers have 10 ball bearings with casehardened steel tire on a solid steel shaft.

### Spring Counterbalance:

Oil tempered torsion springs are mounted on a cross-header shaft supported by galvanized steel ball bearing end plates and center bracket(s). Springs are custom designed for exact door weight, size and trajectory in accordance with current ANSI 102 standards for a minimum of 10,000 cycles. Counterbalance is transferred through galvanized aircraft quality cables secured to bottom of door.

### Trussing:

Galvanized trussing provided according to door size and design.

### Weather-seal:

Double contact vinyl floor seal full width of door.  
Optional header and jamb seals.

### Locking:

Optional inside side lock, outside center lock with automatic latch or double lock bar lock.

### Window Lites:

Optional 1/8" single pane DSB, polycarbonate or obscure glass. Lites can be provided with decorative glass or decorative inserts.

### Installation / Framing:

Torsion spring mounting pads, jamb plates, header plates and associated track system hangers shall be furnished by other than C.H.I. All installation quality and workmanship is responsibility of Contractor and is to be executed in accordance with C.H.I. installation instructions, local and state building codes and work site safety regulations.

\*Calculated through mean insulation thickness referencing DASMA TDS163 method guidelines using values from A.T.I. test report B2965.02-116-25.

## Specification Sheet: Model 2251/4251 Raised Panel Residential Door

### Door Sections:

Panels:	18" or 21" high by width of door.
Panel Material:	25 gauge deep-draw quality steel. Hot dipped galvanized G40 coating. Exterior: polyester primer and topcoat available in white, brown, almond, sandstone or desert tan. Interior: gray polyester primer and topcoat.
Section Thickness:	2"
Panel Profile:	Woodgrain textured, raised panel embossed.
Joint Design:	Tongue and groove rails.
End Stiles:	Wrap-around style, 20 gauge galvanized steel, full height of section. Secured to inside rails using Tab-Lock system and interlocked to face of section.
Center Stiles:	20 gauge galvanized steel full height of section. Secured to inside rails using Tab-Lock system and secured to face of section with industrial adhesive.
Insulation:	1-3/8" thick CFC free polystyrene with an R-Value of 7.94*, 0.13 U-Value. Vinyl inside cover laminated to polystyrene.

### Tracks:

**Vertical Tracks:** Roll-formed 17 gauge galvanized steel for doors through 8'-0" in height. Doors over 8'-0" through 10'-0" will be 16 gauge track. Doors exceeding 10'-0" in height will be 14 gauge track. Tracks to be mounted with track brackets (bolted or riveted to track) and lag-bolted to jamb. Tracks are adjustable (if bolted) to ensure weather-tight fit.

**Horizontal Tracks:** Roll-formed 16 gauge galvanized steel for doors through 10'-0" in height. Doors over 10'-0" will be 14 gauge track. Tracks are reinforced with angle (min 14 gauge) according to door size and weight.

### Hardware:

Graduated hinges (min 16 gauge), top fixtures (min 14 gauge) and bottom fixtures (min 13 gauge) are made of galvanized steel. Rollers have nylon tires on a solid steel shaft. Heavy hardware is available as an option.

### Spring Counterbalance:

Oil tempered torsion springs are mounted on a cross-header shaft supported by galvanized steel ball bearing end plates and center bracket(s). Springs are custom designed for exact door weight, size and trajectory in accordance with current ANSI 102 standards for a minimum of 10,000 cycles. Counterbalance is transferred through galvanized aircraft quality cables secured to bottom of door.

### Trussing:

Galvanized trussing provided according to door size and design.

### Weather-seal:

Double contact vinyl floor seal full width of door.  
Optional header and jamb seals.

### Locking:

Optional inside side lock, outside center lock with automatic latch or double lock bar lock.

### Window Lites:

Optional 1/8" single pane DSB, polycarbonate or obscure glass. Lites can be provided with decorative glass or decorative inserts.

### Installation / Framing:

Torsion spring mounting pads, jamb plates, header plates and associated track system hangers shall be furnished by other than C.H.I. All installation quality and workmanship is responsibility of Contractor and is to be executed in accordance with C.H.I. installation instructions, local and state building codes and work site safety regulations.

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