

## Specification Sheet: Model 5700 Cedar/Mahogany Faced Carriage House Door

### Door Sections:

Panels:	Monolithic plank sections, 18", 21" or 24" high by width of door.
Section Thickness:	2-3/4"
Exterior Face:	26 gauge steel. Hot dipped galvanized G40 coating. 7/16" x 3-5/32" Western Red Cedar or Fijian Genuine Mahogany tongue & groove face boards with Cedar/Mahogany Accent Boards are adhered to steel base door to create carriage house designs.
Interior Face:	27 gauge commercial quality steel. Hot dipped galvanized G40 coating. White polyester primer and topcoat.
Panel Thickness:	2-3/4"
Joint Design:	Tongue and groove rails.
End Caps	20 gauge galvanized painted steel. Full height of section.
Reinforcement Plates:	24 gauge galvanized steel, 2-1/2" wide, full height of section at every hinge location.
Insulation:	1-7/8" thick CFC free urethane foamed in place to exterior and interior skins. R-Value of 18.03*, 0.056 U-Value.
Paint Finish:	Unfinished. All doors must be coated according to manufacturer's instructions.

### Tracks:

**Vertical Tracks:** Roll-formed 17 gauge galvanized steel for doors through 7'-0" in height. Doors over 7'-0" will be 16 gauge. 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. 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 and size 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:

Aluminum retainer shipped loose for finishing.  
Optional header and jamb seals.

### Locking:

Optional inside side lock.

### Decorative Hardware:

Black Spade decorative hardware w/screws. Standard (4 straps & 2 handles)-Field install.

### Window Lites:

Optional 1/8" single pane, polycarbonate or faux.  
Optional 7/16" insulated glass, glue chip or seeded.

### 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.

\*R-value testing is in accordance with ASTM C518 standards

## Specification Sheet: Model 5400 Cedar/Mahogany Faced Carriage House Door

### Door Sections:

Panels:	Monolithic plank sections, 18", 21" or 24" high by width of door.
Section Thickness:	2-3/4"
Exterior Face:	27 gauge steel. Hot dipped galvanized G40 coating. 7/16" x 3-5/32" Western Red Cedar or Fijian Genuine Mahogany tongue & groove face boards with Cedar/Mahogany Accent Boards are adhered to steel base door to create carriage house designs.
Interior Face:	27 gauge commercial quality steel. Hot dipped galvanized G40 coating. White polyester primer and topcoat.
Panel Thickness:	2-3/4"
Joint Design:	Tongue and groove rails.
End Caps	20 gauge galvanized painted steel. Full height of section.
Reinforcement Plates:	24 gauge galvanized steel, 2-1/2" wide, full height of section at every hinge location.
Insulation:	1-13/16" thick CFC free polystyrene bonded to exterior and interior panel skins R-Value of 10.78*, 0.09 U-Value.
Paint Finish:	Unfinished. All doors must be coated according to manufacturer's instructions.

### Tracks:

**Vertical Tracks:** Roll-formed 17 gauge galvanized steel for doors through 7'-0" in height. Doors over 7'-0" will be 16 gauge. 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. 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 and size 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:

Aluminum retainer shipped loose for finishing.  
Optional header and jamb seals.

### Locking:

Optional inside side lock.

### Decorative Hardware:

Black Spade decorative hardware w/screws. Standard (4 straps & 2 handles)-Field install.

### Window Lites:

Optional 1/8" single pane, polycarbonate or faux.  
Optional 7/16" insulated glass, glue chip or seeded.

### 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.