

**Specification Sheet: Model 3212 Micro-Grooved Commercial Door
 Urethane Core Foamed-in-Place**

Door Sections:	
Panels:	Monolithic plank sections, 21" or 24" high by width of door.
Exterior Skin:	20 gauge commercial quality woodgrain textured steel with micro-grooves. Hot dipped galvanized coating, polyester primer and topcoat; available in white only.
Interior Skin:	27 gauge commercial quality steel. Hot dipped galvanized coating, polyester primer and topcoat available in white.
Panel Thickness:	2"
Panel Profile:	Four evenly spaced micro-grooves per section.
Joint Design:	Tongue and groove rails with full thermal break.
Insulation:	1-7/8" CFC free urethane foamed in place to exterior and interior skins. R-Value of 17.54*, 0.057 U-Value.
Reinforcement Plates:	24 gauge galvanized steel, 2-1/2" wide, full height of section.
End Caps:	20 gauge galvanized steel painted white. Full height of section.
Tracks:	2" tracks are roll-formed 17 gauge galvanized steel for doors up 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. All 3" track will be 12 gauge. Tracks to be mounted with track brackets, clip mount angle or continuous jamb angle. Lower tracks are adjustable to ensure weather-tight fit. Horizontal tracks to be reinforced with angle (min 13 gauge) according to door size and weight.
Hardware:	Graduated heavy duty hinges (min 14 gauge), top fixtures (min 12 gauge) and bottom fixtures (min 13 gauge) are made of galvanized steel. Rollers have 10 ball bearings with case-hardened steel tire on a solid 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. Springs may be custom specified for higher cycles when available.
Trussing:	Galvanized trussing provided according to door size and design.
Weather-stripping:	Double contact bottom seal and flexible gasket between sections. Optional header and jamb seals.
Locking:	Optional inside side lock, outside center lock with automatic latch or double lock bar lock
Window Lites:	Optional 24" x 6", 24" x 12" or 34" x 16" lites with 1" insulated glass.
Aluminum Full-View:	Optional aluminum frame to match sizes and panel layout of steel sections. Optional field glazing, 1/8" DSB, 1/4" tempered glass, 1/8" polycarbonate, 7/16" insulated glass or 7/16" tempered insulated glass.
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