

Therma-Flush 138

Architectural Specifications

General

I. Work Included-Doors will be Therma-Flush 138 as manufactured by North Central Door Company, LLC.

II. Related Work- Opening preparation, structural metal work, access panels finish or field painting, field electrical wiring, conduit, fuses and disconnect switches are in the scope of other divisions or trades.

III. Execution- Doors shall be installed in accordance with North Central Door Company, LLC installation instructions by an authorized North Central Door installer.

Product

I. Sections- Sections shall be 1-3/8" thick. Exterior and Interior skins shall be roll formed from commercial quality hot dipped galvanized 26 gauge steel per ASTM A-653. Skins shall be separated by a continuous dual durometer vinyl extrusion to form an effective thermal break and complete a weather-tight seal along section joints. They shall be embossed with a wood grain texture and pressure bonded to a 1-3/8" expanded polystyrene insulation core (no CFS's). Sections will have an R-value of 6.8 calculated in accordance with DASMA / TDS-163.

II. Finish- Finish will be a two-coat baked on polyester enamel finish over an epoxy primer; Available in White, Brown, Earthtone, Almond, Sandstone, Kynar Sepia, Kynar Green, Kynar Beige and Kynar White.

III. Air Filtration-Doors will be constructed with a continuous dual durometer vinyl extrusion to form an effective thermal break and a complete weather-tight seal along section.

IV. End Stiles-End stiles will be constructed from hot-dipped, galvanized, 18 gauge steel.

V. Wind load-Doors up to 18'2" wide are available with optional wind load package rated for 115 mph peak gust wind speeds in accordance with ANSI/DASMA 108-2002, ASTM E 330 and ASCE 7-10.

VI. Hardware- All hinges and brackets are made from galvanized steel. 2" or 3" rollers (based on need) have steel ball bearings.

VII. Track- Hot dipped galvanized steel per ASTM A-653. 2" or 3" dependant on door size. Tracks will be bracket mount or continuous angle mounted (based on need) and fully adjustable for sealing door to jamb. Continuous angle size to be not less than 2-5/16" x 5" x 3/32" on 2" and 3" x 6" x 1/8" on 3-1/2" track. Horizontal track to be adequately reinforced with continuous angle.

VIII. Spring Counter Balance- Heavy duty oil tempered wire torsion springs on continuous ball bearing cross header shaft, 10,000 cycle minimum, in accordance with ASTM A-229 & ANSI/DASMA 102-2004. Galvanized aircraft type lifting cables with a minimum safety factor of 5 to 1. Hi-Cycle springs of 25,000, 50,000 or 100,000 cycles available upon request.

IX. Lock-Interior slide lock will be standard on commercial size doors and optional on residential size doors.

X. Weather stripping-Door to be finished with a complete weather-stripping system to reduce air infiltration. Bottom of door to have U-shaped vinyl seal encased in extruded aluminum retainer to conform to irregularities in floor. Optional jamb seal to be Neoprene rubber blade type in aluminum retainer attached to jamb with mechanical fasteners. Weather-Stripping to be replaceable without removal of track, angle mounting or door hardware. Minimum air leakage per foot of door perimeter (floor, jamb and header) shall not exceed .81 CFM @ 25 MPH. No air leakage shall be detected between section joints when tested in accordance with ASTM E-283. Optional PVC jamb-up to match door color also available.

XI. Operation- All doors will come with a pull rope for manual operation. Optional chain hoists and electric openers are available.

XII. Windows- Optional windows inserted shall be 24" x 8" or 24" x 12" thermal type 1/2" Insulated glass. Glass to be incased in black two piece injection molded polypropylene plastic frames; or 17" x 12" with option of 1/2" insulated glass or 1/8" non-insulated glass encased by a cellular PVC front frame matching the door color and a cellular PVC back retainer in white.

XIII. Warranty-
Limited Life-Time Rust-Through
10 Year Delamination
7 Year Limited Hardware
3 Year Limited Spring