

# TECHNICAL SPECIFICATIONS

## Lincoln 3000 / Hillcrest 3000

### PART 1 GENERAL

#### 1.1 Section

Sectional Doors are to be Lincoln 3000 or Hillcrest 3000 as manufactured by Amarr Garage Doors. Operation to be manual pushup. Mounting to be interior face mounted on a prepared surface.

#### 1.2 Quality Assurance

Doors shall be insulated steel sectional overhead type. Each door includes sections, brackets, tracks, counter-balance mechanisms and hardware to suit the opening and headroom available.

#### 1.03 Related Work

Opening preparation, miscellaneous or structural steel, finish or field painting are in the scope of the work of other entities.

### PART 2 PRODUCT

#### 2.01 Door Sections

Steel sections shall be 2" thick sandwich construction consisting of exterior and interior steel skins laminated to an expanded polystyrene (EPS) foam core with a urethane adhesive. Steel skins shall be roll formed, hot-dipped galvanized (per ASTM A-653-94), Zinc phosphate pre-treated with primer and baked-on polyester top coat. Door sections shall be constructed of 27 gauge (.016 minimum) exterior and interior skins. Exterior skin to have wood grain embossed texture, interior skin to have stucco embossed texture. The exterior steel skin has long or short raised panels or flush panel or ribbed flush panel (Lincoln 3000), or bead board, raised or recessed panel designs (Hillcrest) and is available in True White, Dark Brown, Sandstone, or Whicker Tan. End stiles shall be 20 gauge galvanized, primed and finish painted in True White. All stiles engineered for easy hardware attachment through pre-punched holes. Galvanized, primed steel support plates shall be made of 18 gauge steel (2-5/8" x 3-1/2") and located under each hinge location, pre-punched for hinge attachment.

#### 2.02 Finish

The door exterior and interior is pre-painted steel consisting of a phosphate coating over hot-dipped galvanization applied to the base metal. A .2 mil baked-on prime coat is applied and then a .8 mil baked-on polyester top-coat is applied for ultimate rust protection. The paint finish carries a limited lifetime warranty against rust through due to film integrity (peeling) to the original purchaser. See warranty for complete details. The inside of the exterior and interior skins is hot-dipped galvanized and finished with a .2 mil primer.

#### 2.03 Energy Values

Section: R-value 9.19

#### 2.04 Insulation

2" thick CFC and HCFC-free expanded polystyrene (EPS) laminated to the inside of both interior and exterior steel skins with a special urethane adhesive.

#### 2.05 Weather-stripping

Full length dual contact EPDM rubber bottom seal is attached to bottom section. Perimeter seal for header and jambs is optional.

#### 2.06 Track

Galvanized steel track shall accommodate 2" rollers. Bracket mounting is standard for wood jambs. Vertical track to be minimum 18 gauge galvanized steel, inclined through the use of adjustable 13 gauge galvanized steel brackets to assure weathertight closure at the jambs. Horizontal tracks to be minimum 16 gauge galvanized steel, reinforced with 13 gauge galvanized steel angles as required by door size and weight.

#### 2.07 Hardware

Hardware includes minimum 14 gauge galvanized steel center hinges and minimum 14 gauge galvanized steel roller hinges. All rollers to be nylon for quiet operation. Galvanized struts (truss bars) supplied on all doors 12' and wider to prevent deflection no more than 1/120 of the spanned width when in the open position. Galvanized steel step plate/lift handle provided on bottom section. All fasteners are galvanized. All sections are covered by a lifetime warranty. All hardware is covered by a 3 year warranty.

#### 2.08 Spring Counter-balance

Extension springs for door counter-balance are mounted and attached to the supporting horizontal angle and back support of the horizontal track assembly. Each spring shall be equipped with a device capable of restraining the spring or any part thereof in case of breakage. Torsion springs for door counter-balance are mounted on a continuous cross header shaft. Springs are oil tempered, helical wound and custom computed for each door. Cable drums are die cast aluminum. Galvanized lift cable will provide minimum safety factor of five to one. Springs to comply with DASMA 102.

#### Options

##### 2.09 Window Lites & Decorative Inserts

Framed lites 21-3/16" x 13-11/16" minimum for short panel construction or 41-3/16" x 13-11/16" minimum for long panel construction can be installed in any section. SSB glass is standard. Screw-together frame of PVC construction to match door color is used for framing lites. Optional decorative PVC design inserts are available and match door color.

##### 2.10 Wind Load

Contact your Amarr Door Center for specific wind load applications.

##### 2.11 High Cycle Springing

25,000; 50,000 or 100,000 cycle torsion springs available.

##### 2.12 Locks

A 5-pin cylinder lock with interior lock bar and outside key is standard for doors that do not receive an electric operator. A snap latch lock set is optional.

##### 2.13 Track

Low headroom, Hi-lift and Follow-the-roofline track are available. Reverse Angle mount is also available.

##### 2.14 Electric Operation

A full line of residential operators and accessories is available through any Amarr Door Center. Contact your Amarr Door Center for catalogs and product information.

### Part 3 EXECUTION

#### 3.01 Installation

Installation to be by qualified dealer in accordance with Amarr's installation instructions and local building codes.

Contact: Amarr Garage Doors  
165 Carriage Court  
Winston-Salem, NC 27105  
877-512-6277  
www.amarr.com



Door Height	Sections High
6'6"	4
7'	4
8'	5
9'	6
10'	6
11'	7
12'	7