

# TECHNICAL SPECIFICATIONS

**ASSA ABLOY Liberty LI1000, LI2000, Highlands HI1000, HI2000**

**PART 1 GENERAL**

**1.01 Section**

Sectional Doors are to be ASSA ABLOY Liberty LI1000, LI2000 or ASSA ABLOY Highlands HI1000, HI2000 as supplied by ASSA ABLOY Entrance Systems. Operation to be manual push-up. Mounting to be interior face mounted on a prepared surface.

**1.02 Quality Assurance**

Doors shall be 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 roll formed from true 25 ga., hot-dip galvanized (per ASTM A-653-94), Zinc phosphate pre-treatment with primer and baked-on polyester top coat. Section to have woodgrain embossed texture with short raised panels, or long raised panels (Liberty), Bead Board, Recessed, Raised, or Long Panel Bead Board (Highlands), True White, Almond, Wicker Tan, Sandtone, Terratone, Dark Brown, Golden Oak, Walnut or Mahogany. Sections to have 20 ga. end stiles which shall be galvanized. All stiles engineered for easy hardware attachment through prepunched extruded holes. All stiles shall be fastened to the section using the TOG-L-LOC® joining system. Section joint to form weather tight seal.

**2.02 Finish**

The door exterior is prepainted steel consisting of a phosphate coating over hot-dip 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 15 year limited lifetime (LI1000, HI1000); a 25-year limited warranty (LI2000, HI2000) against rust through due to film integrity (peeling) to the original purchaser. See warranty for complete details. The interior is hot-dip galvanized, phosphate coated and prepainted with a .2 mil primer and .3 mil baked-on polyester top-coat.

**2.03 Energy Values**

Model	Liberty LI2000	Highlands HI2000
Section:	R-value 6.64	6.64

**2.04 Weather-stripping**

3-3/4" bulb-shaped thermoplastic rubber bottom seal in a full length .030" galvanized steel retainer.

**2.05 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.

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

**2.06 Hardware**

Hardware includes minimum 16 gauge galvanized steel center hinges and minimum 16 gauge galvanized steel roller hinges. All rollers to be Nylon or 7 ball steel. Galvanized struts (truss bars) supplied on all doors 15' and wider to prevent deflection no more than 1/120 of the spanned width when in the open position. Interior and exterior lift handles provided. All fasteners are galvanized. All hardware is covered by a 1-year warranty (LI1000, HI1000), or a 2-year warranty (LI2000, HI2000).

**2.07 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**

**2.08 Window Lites**

Framed lites 21-3/16" x 13-11/16" minimum for short panel construction (Liberty only) 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 ASSA ABLOY Entrance Systems 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 Insulation**

CFC and HCFC-free expanded polystyrene (EPS) with poly-faced backer on door interior is available.

**2.14 Track**

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

**2.15 Electric Operation**

A full line of residential operators and accessories is available through any ASSA ABLOY Entrance Systems. Contact ASSA ABLOY Entrance Systems for catalogs and product information.

**Part 3 EXECUTION**

**3.01 Installation**

Installation to be by qualified dealer in accordance with ASSA ABLOY installation instructions and local building codes.

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