

## ProVia Door 20 Gauge Steel Door Specifications

**GENERAL:** Doors shall be pre-finished, pre-hung, new construction, 20 gauge steel doors as manufactured by ProVia Door, Inc. complete with wood frames, wood brickmold, and adjustable, thermally broken threshold.

**DOOR CONSTRUCTION:** Door slab shall be 1 3/4" thick and made from 20 gauge (.036" thick) cold rolled, hot-dipped galvanized steel sheets. The slabs are mechanically locked together on both hinge side and strike side with tab and slot interlocks spaced up to 5" apart (according to size of door), starting no more than 4" from top or bottom of slab. Doors shall have a complete thermal barrier formed by glue-filled edges. The top and bottom rails to be 16 gauge, hot dipped, galvanized steel welded in place. Hinge reinforcements made of 18 gauge steel are welded inside the door edge for fasteners in accordance to ANSI A115. The lock face preparation shall be a 2 1/8" bore at a backset of 2 3/8" or 2 3/4" as ordered. Special 16 gauge steel lock guards at lockset and dead bolt locations are required to prevent over tightening and deforming door slabs. The inner core of the door shall be foamed in place, with self hardening polyurethane, chemically bonded to all inner surfaces of steel skins.

**FINISH:** Door slabs to be painted with an electro statically applied base coat of 0.7 mil thick water base primer. The finish coat is an electro statically applied, custom formulated, 2 part (1.2 mil thick) polyurethane paint. Both finishes are oven cured to create a durable, smooth finish. Optional one or two color finish (one color inside and a different color outside) can be selected from 16 standard designer colors offered by ProVia Door. Optional stained wood grain in 6 stain colors is available.

**FRAME CONSTRUCTION:** Frame and brick mold to be primed, finger-jointed, high-grade radiata pine, sealed against moisture utilizing PineGuard Rot Resistant Finish, to fit standard 4 9/16" jamb depth. Optional jamb depth is available upon request.

**CLADDING:** Textured vinyl coated (0.019 thick) formed aluminum cladding for frame and brick mold available in 12 colors to create maintenance free exterior.

**WEATHER STRIP:** Bottom sweep of high-quality thermal plastic rubber and a perimeter seal of foam filled compression weather-strip (Q-Lon).

**THRESHOLD:** Custom designed, heavy-duty extruded aluminum threshold with a 1 1/4" high, oak look, adjustable, thermal barrier riser.

**GLASS:** Insulating glass comes standard at 1" thick. Glass with high performance Low-E argon or krypton gas fill, with dust free muntins, internal blinds, and decorative glass in various designs and sizes is available.

**HARDWARE:** To be selected from a variety of top quality locking hardware, deadbolts, door knockers/viewers, peep-sites, pet door, mail/magazine slot, closer, push/pull plates, etc.

**TESTING:** Doors have been tested and certified to NFRC (National Fenestration Rating Council) 100 and NFRC 200 guidelines enabling the Energy Star thermal performance qualification.

20 Gauge Steel Door	Test Performed	Result
<b>Physical Endurance</b>	ANSI A 151.1 Performance Test	Level B (500,000 Cycles)
<b>Impact Test</b>	In-House ASTM F476 Security Test	Maximum Security Level of 40
<b>Wind Load Rating</b>	ASTM E330-97 Transverse Wind Load Resistance	DP (Design Pressure) = 39-60 psf - Equivalent of 125-155mph wind speed
<b>Acoustical Performance</b>	RAL-TL83-87	Sound Transmission Class (STC) 22
<b>Fire Resistance</b>	ASTM E152	UL (Underwriters Laboratories) 20 Minute