

## **AMBICO: Not Your Ordinary Wood Door Company...**



AMBICO's origins in the mid-1950's, were strongly based on the manufacture and supply of a standard wood door product. A mushrooming wood door market, the onslaught of wholesale outlets and big-box stores particularly home builder suppliers and hardware mega-stores, sent AMBICO on another path in manufacturing "openings" for the construction industry. It became evident that a family-owned, modest-sized, manufacturer could not compete with the "big-boys" who were rolling doors off their assembly-lines by the thousands and selling them at discounted prices through popular home hardware outlets.

When one door closes another opens. How appropriate! AMBICO identified a growing market for "specialized" door and door frame products – openings that were not, literally, run of the mill – openings that met rigid specifications and were required for very specialized and prestigious projects world-wide. AMBICO recognized this demand and switched gears. Today, AMBICO designs, engineers and fabricates the industry's highest performing **WOOD ACOUSTIC DOORS** and **WOOD BULLET RESISTANT** doors. The rest is history and is the story behind a successful, world renowned and specialized door, frame and window manufacturer.

### **Two Types of Door Products**

AMBICO wood acoustic doors achieve the highest STC ratings in the industry, i.e. STC 51. As well, these products can be fire rated in accordance with UL10C, current positive pressure standards. Please click on [www.ambico.com/products/w\\_acoustic.asp](http://www.ambico.com/products/w_acoustic.asp) for further detailed information on this product.

AMBICO bullet resistant wood doors offer protection for firearms ranging from hand guns to high powered military assault rifles, i.e. UL752 Levels I through VIII. Please click on [www.ambico.com/products/w\\_bullet.asp](http://www.ambico.com/products/w_bullet.asp) for further detailed information on this product.



As viewed through the window of the paint booth, an AMBICO painter applies a custom stain finish to a number of doors.

### **Two Sides to the Story**

There are two sides to any wood door, in particular, a performance rated door product: in the manufacture of the door core, the IN side, and, in an entirely separate process, the fabrication of the wood covering of the door, the OUT side. Each plays an important role in the production of a door that will meet the rigid specifications of architects and engineers.

There are numerous steps in the well-researched, painstakingly developed and thoroughly tested processes involved in the manufacture of the door core, and, in an entirely separate process, the fabrication of the outer, wood covering of the door. The final product results from a carefully engineered process where the two "sides" to the story are combined to produce the desired finished product.

### **The Core of the Matter**

The Research and Development Division of AMBICO has spent many years developing and testing the components which, in the correct configurations, result in steel door or wood door and frame products attaining a required performance standard. AMBICO door and frame products have successfully met

or exceeded rigorous standards and have been consistently and successfully tested at leading independent laboratories.

Core structures are proprietary. Suffice it to say that the R&D Team at AMBICO has developed steel door or wood and frame products which have performed incredibly in a number of product areas:

- Acoustics and sound attenuation
- Radiation resistance
- Bullet resistance
- Fire resistance

**Don't Judge a Door by its Cover**

For years, AMBICO has prided itself in the production of beautiful door and frame products which give the appearance of custom, decorative, and architecturally exquisite entry systems – yet conceal the fact that in the door world, they meet the highest standards required for sound attenuation, or security (bullet and blast resistance), or safety (fire codes). In many instances one wood door may combine two or more of these characteristics.

Recently, AMBICO has been developing polyurethane coverings, veneers and stain/paint finishes that are revolutionizing the door industry.

AMBICO coatings meet the performance requirements of the Tr-6 level classification. 40-unit gloss topcoat is considered standard and is carried in stock.



**Veneers**

Almost any veneer species desired is available, including oak, mahogany, cherry, maple and birch. These veneers can be further customized through ranges of shading from very light to very dark, and even further by actual grain orientation.

The only limitation to the use of veneers is the availability of sheets no larger than 4' x 8'. AMBICO does not manufacture stain grade wood doors with seams in the veneers -- over time, seams in the veneers have not proved visually satisfactory for the client.

Paint grade finishes allow for wood doors larger than 4' x 8' and these leafs can be seamed if necessary.

**Stain Matching**

The client's existing décor is not compromised as AMBICO has developed stain matching to the client's specifications, with infinite choices available.

**Coating**

The core for the door and the pre-finished door veneers are assembled through a sophisticated coating process.

Staining is completed once the desired color has been attained – the door covering is then prepared for a clear-coat application



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(one of the highest level coatings offered in architectural woodwork). This requires several coats and through the use of a process developed in house, the doors are coated seamlessly and free from imperfections. AMBICO recommends factory pre-applied hardware and glazing.

The following grid demonstrates the wide range of choices available in a sampling of veneer options, simply by varying the pigment of the stain. ■

	<b>CLEAR</b>	<b>LIGHT</b>	<b>MEDIUM</b>
<b>BIRCH</b>			
<b>CHERRY</b>			
<b>MAPLE</b>			
<b>OAK</b>			
<b>WALNUT</b>			