



## Acoustical Wood Door Limitations

Here are some important guidelines to consider when specifying & purchasing an acoustical wood door. All in one convenient place. Contact us if you require further assistance.

### Door Size Limitations:

- Maximum size per door leaf is 4'-0" x 10'-0". See UL Fire Rating Limitations section for fire rated maximum sizes.

### Veneer Limitations:

- Doors can be laminated with a variety of wood veneers of both the FSC and Non-FSC type. Must specify type required for the project at time of quote. Leadtimes may vary depending on veneer species and pedigree.
- Doors can be laminated with a variety of Plastic Laminates. Must specify manufacturer and pattern number required for the project at time of quote. Leadtimes may vary depending on laminate manufacturer and pattern selected.

### Hardware Limitations:

- All models that utilize the Overly “double bubble” sealing system can use a 2-3/4" back-set cylindrical type lock-set. Those models that utilize the Overly “H” sealing system **require** a 3-3/4" back-set, to accommodate the height of the sealing system.
- All doors can receive mortise locks & mortise, rim, & surface vertical rod panic devices, closers. For 2-1/4" thick models, verify hardware can be utilized on this door thickness.
- No concealed hardware is permitted; i.e. - Concealed Vertical Rod Panic Devices, closers or hold-opens.
- Electrified hardware is available for doors as outlined below depending on hinge type used.

#### Level Swing Hinge Models

For STC models that are hung on level swing ball bearing type or continuous hinges, an electric hinge can be used to transfer power from the frame to the door.

#### Cam Lift Hinge Models

For STC models that are hung on Cam Lift hinges, a Securitron EPT can be used to transfer power from the frame to the door provided that the body of the EPT be placed in the frame and the required hole preparation be placed in the door .

For either hinge scenario, it is required that the electric locks that fit standard cylindrical and mortise lock preparations without any additional machining and panic devices that require connections on the dummy end of the device. Consult factory with your specific lock to verify that it will be able to be used. Doors are constructed with a conduit in the door and provided with a cable solid conductor AWG18/4 (18 gauge – 4 lead wire). This wire may be used as supplied for hardware hook-up or for pulling other required wires. Conduits are not large enough to pull QC connectors through the door. The addition of raceway conduit may affect STC rating. Product was laboratory tested without conduit. Electrified product can be UL fire rated UL 10C (positive pressure) up to 3/4 hour duration.



- Inactive leafs of pairs can be prepared for manual flush-bolts, surface bolts, or surface vertical rod panic devices only.
- Meeting stiles for pairs of doors is our standard surface mounted formed type. For pairs of doors which will require both leafs active, we will offer our standard split astragal.

### **UL Fire Rating Limitations:**

All 1-3/4" and 2-1/4" thick door models can be UL labeled to UL10C Standard for Safety up to 3/4 hour maximum with the following constraints.

- Single doors only. Pairs of doors cannot be UL fire rated unless configured with a center vertical mullion. This mullion can be supplied by Overly as a fixed or removable type. Or, other third party mullions may be used. Contact Overly to determine if your third-party mullion can be used.
- Size limit of 4'-0" x 8'-0" maximum single leaf dimensions.
- Vision lights must not exceed 1,296 sq. in. per door leaf viewing area

### **Vision Light Limitations:**

- Minimum vertical light stile dimension is 10". This is the minimum dimension allowed when measuring from the hinge or strike jamb to the edge of the vision light clear opening.
- Minimum top light rail dimension is 8". This is the minimum dimension allowed when measuring from the head jamb to the top of the vision light clear opening.
- Overall size of lights in doors may not exceed one half the door height dimension. Consult factory for specifics.
- For STC performance guarantees, light sizes not to exceed that as shown on the models laboratory test reports.

### **Acoustical Test Reports:**

- Laboratory test reports are available for single swing models only. Pairs of doors will be based on single swing tested constructions with the meeting stile fitted with our standard astragal configuration used for egress requirements. If Overly thru type or hardware type fixed or removable mullions are utilized, for some models STC ratings can be guaranteed for pairs. Consult factory for specifics.