



## WOOD AND PLASTIC LAMINATE ACOUSTICAL DOORS

Outstanding acoustical performance achieved through the combination of nature's beauty and patented technology.

**OVERLY**  
DOOR COMPANY

AN ISO 9001 CERTIFIED COMPANY

# OVERVIEW

For more than 50 years, Overly, an ISO 9001 Certified Company, has been an industry leader in the manufacturing of Architectural Acoustic Door and Window Systems. Because of our unique manufacturing methods and patented designs, Overly has been able to create a line of sound control wood door systems with STC ratings from 41 to 50. These systems incorporate a variety of sealing options and door configurations such as flush or glazed, as well as single or pair configurations.

Additionally, some Overly door models have been successfully tested to UL 10C (positive pressure) Standard for Safety. For 1-3/4" and 2-1/4" thick doors, ratings of up to 45 minutes are available for up to 4' x 8' singles and up to 8' x 8' pairs of doors when a fixed or removable mullion is utilized.

Overly Doors are also available with LEED certifications including:

- MR-4 Recycled Content
- MR-5 Regional Materials
- MR-6 Rapidly Renewable Resources
- MR-7 Certified Wood
- EQ 4.4 Low Emitting Materials
- EQ 9 Enhanced Acoustical Performance



## TYPICAL USES FOR WOOD SOUND-RETARDANT DOORS

- Performing Arts Centers
- Movie Theaters
- Concert Halls
- Conference and Meeting Rooms
- Broadcast and Recording Studios
- Offices
- Hospitals
- School Classrooms
- Music Practice Rooms
- Auditoriums
- Libraries
- Doctors Offices
- Worship Facilities
- SCIF Spaces
- Military Installations



# WOOD VENEERS AND FINISHES

The selections of veneers and finishes are a crucial part of the design of any project. That's why Overly crafts every door with meticulous attention to beauty and expression as well as technical excellence. With our wide selection of finishes and wood species veneers, we are to provide acoustic wood doors that elevate the aesthetics of your project, as well as the performance.

In wood veneers, Overly offers the following fourteen (14) wood species and cuts:

## Standard

- Medium Density Overlay (MDO)
- Plain Sliced Red Oak
- Rotary Cut Red Oak
- Rift Cut Red Oak
- Plain Sliced White Oak
- Rift Cut White Oak
- Plain Sliced White Birch
- Plain Sliced Natural Birch
- Rotary Cut Natural Birch
- Paint Grade Birch
- Plain Sliced White Maple
- Flat or 1/4 Cut African Mahogany
- Plain Sliced White Ash
- Plain Sliced Cherry

For non-traditional looks, choose from many exotic wood veneer species, representing the most beautiful wood species in the world.

Overly offers unfinished, prime painted, clear or color finishes. When it comes to color, Overly will custom match any color for your project. To get the exact color you require for your project—whether to match an existing color for a remodel; to match existing doors in the facility; or, any of the colors offered by any wood door manufacturer—all we need is a physical sample of the color desired (minimum 2" x 2"), along with the veneer type and cut to which it will be applied. Before production we will supply an architectural color sample for your approval.

No matter which stain or opaque color you choose, you get the promise of environmentally sensitive, water-based stains, and polyurethane, making it durable and safe. Overly opaque door finishes are uniform, consistent and durable, meeting the performance standards of AWS Finish System 9 or WDMA TR-6 and OP-3. Plus, as compared to field finishing, you get superior color consistency and uniformity, with none of the hassles of scheduling and environmental concerns.

As an additional assurance to you, every door that is factory machined and finished is delivered ready to hang, making your work easier.

For full details, contact the factory.



## PLASTIC LAMINATES, SOLID COLORS AND EXOTICS

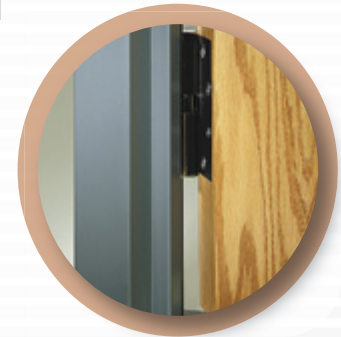
Plastic laminate doors have long been associated with durability, uniformity of appearance and easy maintenance. In addition, Overly plastic laminate doors are available in a full range of colors, patterns, wood grains and custom laminates to complement your architecture and décor.

Decorative plastic laminates offer endless color choices, with patterns that range from subtle to bold. Custom laminates can create individual designs that incorporate graphics such as images or company logos. Edges of doors are banded to match face laminates.

Woodgrain plastic laminates can incorporate grain, color and finishes without the flaws, knots or imperfections of wood veneers. In addition to popular wood species such as cherry and maple, laminates can provide the unique looks of exotic species such as lacewood and teak.

For full details, contact the factory. For more inspiration, check out the designs and colors available through laminate manufacturer Wilsonart at [www.wilsonart.com](http://www.wilsonart.com).

# FEATURES AND PERFORMANCE



- **Frame gasketing systems include:** Independently adjustable Single Overly H neoprene and Double Bubble low closure force types.
- **Door bottom sealing systems include:** Full mortised automatic, handicapped approved raised threshold, and adjustable Overly Super H neoprene types.
- **Hinges:** Level swing ball bearing or continuous type utilized on doors with automatic door bottoms or raised thresholds, and Overly MCL-500 Cam-Lift hinges when Overly Super H neoprene door bottoms are used.
- **Sizes:** All models available in up to 4' x 10' maximum leaf size. All 1-3/4" and 2-1/4" thick models up to 4' x 8' can be UL fire rated up to 45 minutes in single swing or in pairs when a mullion is used.

## PHYSICAL CHARACTERISTICS AND CERTIFIED TEST PERFORMANCE PER ASTM E90 and E413

STC	MODEL #	E90	DOOR THICK	TESTED MAXIMUM GLASS AREA	WEIGHT Lbs./sq. ft. (kg/m <sup>2</sup> )	FRAME PERIMETER SEAL	DOOR BOTTOM	HINGE	LOCKSET	NOTES
50	5021241	E90-09	2-1/4"	FLUSH	11.0 (53.7)	SINGLE "H" & SINGLE BUBBLE	SUPER "H"	CAM-LIFT MCL-500	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 2, 3, 5
49	499723	E90-90	1-3/4"	FLUSH	9.3 (45.4)	SINGLE "H"	SUPER "H"	CAM-LIFT MCL-500	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 2, 3, 5
47	479725	E90-90	1-3/4"	FLUSH	7.7 (37.5)	DOUBLE BUBBLE	FULLY MORTISED AUTOMATIC	LEVEL SWING FULL MORTISE	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 3, 5
46	4612171	E90-09	1-3/4"	FLUSH	8.28 (40.4)	DOUBLE BUBBLE	RAISED THRESHOLD	LEVEL SWING FULL MORTISE	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 3, 5
45	4511251	E90-09	1-3/4"	100 sq. in. (645 sq. cm.)	9.2 (44.9)	SINGLE "H"	SUPER "H"	CAM-LIFT MCL-500	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 2, 3, 4, 5
44	449718	E90-90	1-3/4"	300 sq. in. (1935 sq. cm.)	9.8 (47.7)	DOUBLE BUBBLE	RAISED THRESHOLD	LEVEL SWING FULL MORTISE	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 3, 4, 5
44	4411252	E90-09	1-3/4"	300 sq. in. (1935 sq. cm.)	9.2 (44.9)	SINGLE "H"	SUPER "H"	CAM-LIFT MCL-500	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 2, 3, 4, 5
43	4312010	E90-09	1-3/4"	100 sq. in. (645 sq. cm.)	9.2 (44.9)	DOUBLE BUBBLE	FULLY MORTISED AUTOMATIC	LEVEL SWING FULL MORTISE	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 3, 4, 5
43	4312043	E90-09	1-3/4"	300 sq. in. (1935 sq. cm.)	10.0 (48.6)	DOUBLE BUBBLE	FULLY MORTISED AUTOMATIC	LEVEL SWING FULL MORTISE	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 3, 4, 5
41	419719	E90-90	1-3/4"	300 sq. in. (1935 sq. cm.)	8.9 (43.3)	DOUBLE BUBBLE	RAISED THRESHOLD	LEVEL SWING FULL MORTISE	CYLINDRICAL, MORTISE, MORTISE PANIC OR RIM	1, 3, 4, 5

1. Units are tested as fully operable, 3' x 7' (914mm x 2,134mm) single doors as specified by Standard ASTM E90. Pairs of doors, when required, are fitted with gasket material at the meeting stiles, and variations in attenuation may occur at higher frequencies. Pairs with both leafs active are equipped with a commercially available split-type astragal, while active/inactive pairs are equipped with an Overly overlapping metal astragal.
2. All Cam-Lift hinges are proprietary Overly Door Company design and are manufactured and supplied with the doors. Model MCL-500 is a 5" full mortise template stainless steel hinge.

- **Pairs of doors meeting stile options include:** surface mounted overlapping neoprene type astragal for use on active/inactive pairs; surface mounted split type astragals for both leafs active pairs; and, fixed or removable mullions.
- **Vision lights for doors include:** Metal single glazed clamp-on and metal dual-glazed flat loose stop types available in a variety of sizes and orientations.



Please consult the factory for full details of each of the above listed features and for unique project requirements where custom designed systems may be required.

DOOR TEST PERFORMANCE CHARACTERISTICS PER ASTM E90 AND E413																			
TRANSMISSION LOSS IN db/Hertz - 1/3 OCTAVE BANDS																			
STC	MODEL #	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
50	5021241	28	36	37	37	38	45	47	48	49	50	51	50	53	53	54	54	55	56
49	499723	32	32	38	37	41	44	42	44	46	48	51	53	55	57	57	56	56	56
47	479725	27	27	33	37	38	38	40	45	48	48	50	51	50	50	49	50	52	55
46	4612171	28	28	32	33	37	43	44	44	45	45	46	47	49	51	51	50	50	51
45	4511251	31	29	31	29	31	33	40	44	46	47	47	48	49	52	52	51	51	51
44	449718	28	29	32	30	31	37	42	45	46	44	42	42	45	46	48	49	51	52
44	4411252	32	29	29	28	32	32	38	43	45	46	47	47	49	51	52	50	50	50
43	4312010	32	29	33	29	30	32	39	43	44	44	45	45	46	47	46	46	47	49
43	4312043	32	29	30	28	33	32	37	42	44	44	43	45	47	49	50	49	49	48
41	419719	30	27	31	30	31	36	40	41	41	41	40	41	43	43	42	43	47	49

- All frame, door bottom and meeting stile seals required for acoustical ratings are supplied as part of the operating system.
- When a vision light is required, dual glazed lights are glazed with 1/4" laminated and 3/8" laminated glass. Single glazed lights are glazed with 1/4" laminated glass. Larger light sizes are available, but acoustical performance is not guaranteed.
- Fire ratings are available up to 3/4 hr. duration. If vision lights are required, the 1/4" laminated glass must be replaced with a UL Listed 1/4" nominal glass and the maximum glass area of 1,296 sq. inches is permitted per leaf.

# LEED

The goal of Overly Door's LEED Initiative is to provide the architectural and design community, our customers and prospective customers, with an informed resource to help them understand the various requirements of building "green," and the specialty door products designed and manufactured to achieve that end.

The wood and plastic laminate sound control product line, depending on your project's specific requirements, can be available with LEED certifications including:

- MR-4 Recycled Content
- MR-5 Regional Materials
- MR-6 Rapidly Renewable Resources
- MR-7 Certified Wood
- EQ 4.4 Low Emitting Materials
- EQ 9 Enhanced Acoustical performance

Overly's Wood Acoustic Door products have been granted Forest Stewardship Council® (FSC®) (Trademark license code FSC-C101538) Chain-of-Custody Certification by Scientific Certification Systems (SCS). FSC Chain of Custody Certification means that Overly Door meets strict tracking requirements for ensuring that the wood acoustic products it sells as FSC-Certified come from well-managed forests. In addition, there are documented controls to make sure the integrity of the environment is upheld. The FSC has accredited SCS as a third-party to certify companies according to FSC international standards to help promote the environmentally appropriate management of the world's forests. Overly Door's FSC Chain of Custody certificate code is SCS-COC-003417. Contact factory about our FSC availability.



## FIRE RATINGS

All Overly 1-3/4" and 2-1/4" Thick Wood and Plastic Laminate Sound Doors up to 4' x 8' leaf size are available with up to 3/4 hour UL fire labels when supplied in single swing and pairs of doors with fixed or removable mullion configurations. Doors can be either flush or prepared with vision lights up to 1,296 square inches per leaf. These fire labels meet UL 10C (positive pressure) requirements.

In addition to the fire ratings, this product can also meet the requirements of Category B edge sealing systems by the use of a surface applied gasket material to the frame, and is also eligible to bear the "S" label when Category H Smoke and Draft control assemblies are required.



# WOOD ACOUSTICAL DOORS WITH RACEWAY CONDUIT

To meet the growing need for wood acoustical doors in security controlled environments, Overly offers the ability to accommodate electronically controlled hardware with a raceway conduit concealed inside the door panel.



For wood acoustic doors there are two options available. The first option is for models that are hung on level swing with ball bearing-type hinges: an electric hinge can be used to transfer power from the frame to the door. The second option is for all models including those hung on Overly MCL-500 cam lift hinges: these can utilize a Securitron EPT with slot in frame and hole in door leaf to transfer power from the frame to the door.

Both options require 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 concealed 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. Doors incorporating this feature can also be UL fire rated to UL 10C (positive pressure) for up to 3/4 hour duration.

## HARDWARE COMPATIBILITY

Through our years of experience we have learned that even the highest quality manufactured wood acoustical doors can have their performance compromised when not supported by compatible hardware.

When selecting the hardware that will be used on Overly Acoustical Wood and Plastic Laminate Doors, it is essential to utilize compatible hardware for proper sound performance and operation. This hardware compatibility can vary with door model selected and the application of the product. To assist in determining acceptable hardware for your given performance and application needs, Overly has created a hardware information bulletin exclusively for its line of sound control wood doors that is available online from the factory.

This bulletin provides guidance for planning the hardware for the complete opening to help insure the desired acoustical performance of the assembly.

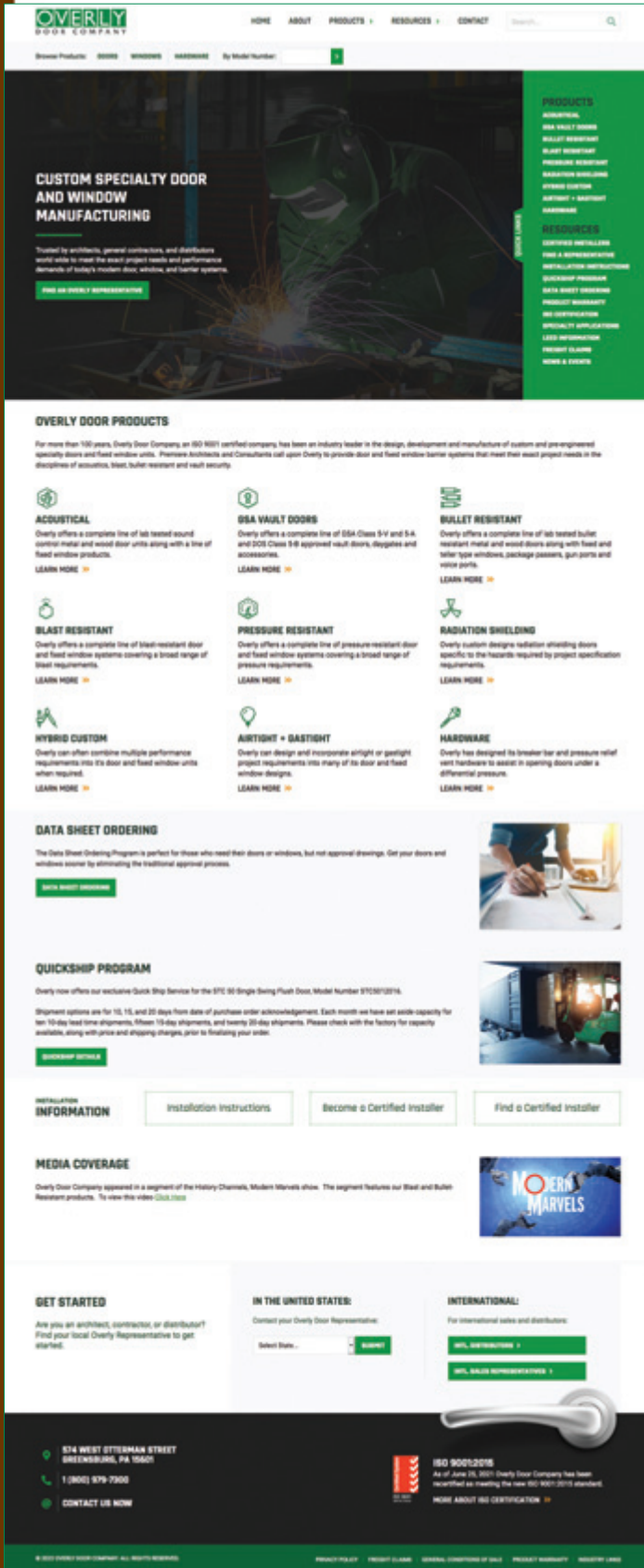
Hardware covered in this bulletin include:

- Hinges
- Closers
- Locksets/Strikes
- Panic Devices
- Auxiliary Locks
- Flushbolts
- Meeting Stiles
- Thresholds
- Vision Lights

For each door model, depending on individual design criteria, all features may not be available. Consult factory for specifics.

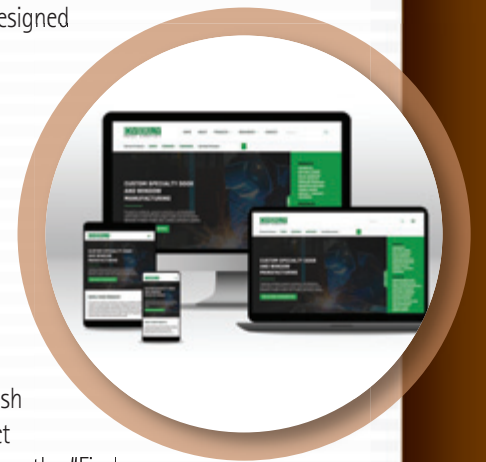


# CHECK OUT OUR NEW, ENHANCED, MOBILE-FRIENDLY WEBSITE AT [WWW.OVERLY.COM](http://www.Overly.com)



Overly Door Company is pleased to announce the launch of the newly updated and expanded website for Overly Door. In addition to a pleasing new graphic interface, the site features easy navigation and a fully searchable database to help visitors to the site quickly find the information they need. [www.Overly.com](http://www.Overly.com)

Our new website is designed for viewing on the electronic device of your choice, so you can easily access the information you need regarding our products. If, however, you still have difficulty finding what you're looking for, or you wish to discuss the product information further, use the "Find a Representative" link to locate your local Sales Representative and obtain their contact information.



Please note: Overly will no longer provide the printed or online versions of its product binder. Now you can download the specific items and information you need for your project at [www.Overly.com](http://www.Overly.com)



351 Harvey Avenue, Suite B  
Greensburg, PA 15601-0070 U.S.A.  
Tel: (800) 979-7300 ♦ (724) 834-7300  
Fax: (724) 830-2871  
E-mail: [info@overly.com](mailto:info@overly.com) ♦ Web: [www.Overly.com](http://www.Overly.com)