



**Lead Glass Pro**  
1968 S. Coast Hwy  
Laguna Beach, CA 92651  
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**Phone:** (800) 506-9972

## STANDARD LEAD LINED WOOD DOOR SPECIFICATION SECTION 08200, WOOD AND PLASTIC DOORS

### PART 1 – GENERAL

#### 1.01 SUMMARY

- A. Doors will be manufactured to national woodwork standards, constructed with the finest core, edging and face veneers available. Door veneer as specified for the project.
- B. Lead thickness as specified by a qualified health radiation physicist familiar with local standards and regulations.
1. Must Comply with requirements of National Council on Radiation Protection and Measurement (NCRP) Report No. 49“Structural Shielding Design and Evaluation for Medical Use of X-Rays and Gamma Rays of Energies up to 10 MeV”, and NCRP Report No. 147 “Structural Shielding Design for Medical X-Ray Imaging Facilities”.
  2. Must Comply with requirements of local regulatory agencies where standards and criteria exceed NCRP Reports 49 and 147.
  3. Lead thickness is to be of same or greater value as in partition door opening occurs in.
- C. Related Sections are 08110-Steel Frames, 08211-Flush Wood Doors and 08212-Plastic Faced Flush Wood Doors

#### 1.02 SUBMITTALS

- A. Shop Drawings: Provide for all doors and other related materials specified for this Section.

#### 1.03 PRODUCT HANDLING

- A. Follow special storage and handling requirements to prevent warpage. Keep flat until ready to use. Never store in the sun or areas where moisture is present.

### PART 2 – PRODUCTS

#### 2.01 ACCEPTABLE MANUFACTURERS

Lead Glass Pro, 1698 S. Coast Hwy, Laguna Beach, CA 92651, Phone (800) 506-9972 or Email [sales@leadglasspro.com](mailto:sales@leadglasspro.com)

#### 2.02 MATERIALS

- A. Doors are fabricated of solid core construction with one or more continuous layers of unpierced lead sheet(s) equivalent to same lead thickness as in the surrounding partition that door occurs in. Reference radiation shielding report for thickness of lead required.
- B. **Thickness:** 1-3/4”, width and height as indicated on door schedule. Thicker lead may increase the overall thickness of the door.
- C. **Core:** 28# density particle board meeting CS 236-66, TYPE 1 DENSITY C, CLASS 1
- D. **Lead Sheet:** 99.9% pure meeting Federal Specification QQ-L-201f, Grade C.
- E. **Vertical Edges:** Minimum 1-1/4” wide 2-ply edge strips adhered to core.
- F. **Top and Bottom Rails:** Minimum 2-1/2” wide 3-ply edge strips adhered to core.
- G. **Faces:** As specified, Paint Grade hardboard.



## PART 3 – QUALITY ASSURANCE

A. Doors manufactured by Lead Glass Pro will comply with requirements of National Council on Radiation Protection and Measurement (NCRP) Report No. 49 “Structural Shielding Design and Evaluation for Medical Use of X-Rays and Gamma Rays of Energies up to 10 MeV”, and NCRP Report No. 147 “Structural Shielding Design for Medical X-Ray Imaging Facilities”.

1. These doors will comply with requirements of local regulatory agencies where standards and criteria exceed NCRP Reports 49 and 147.
2. Lead thickness will be of same or greater value as in partition door opening occurs in.

B. Fabricator Qualifications: Fabricator Lead Glass Pro is experienced in, equipped for and insured for fabrication equal to standards specified herein.

1. Fabricator shall furnish proof of insurance certifying Fabricator is specifically insured in the fabrication of X-Ray Protection / Radiation Shielding Materials.

**Single source responsibility:** Provide X-Ray Protection Materials and accessories produced as standard products of Lead Glass Pro, 1698 S. Coast Hwy, Laguna Beach, CA 92651, Phone (800) 506-9972 or Email [sales@leadglasspro.com](mailto:sales@leadglasspro.com), a manufacturer regularly engaged in the production of X-Ray Protection and Radiation Shielding Materials.

### 3.01 SPECIFICATIONS

Lead Glass Pro Lead Lined Wood Doors meet or exceed the following specifications or standards:

1. NWMA .S. 1-87
2. ANSI 208.1, LD-2.
3. ASTM E 152
4. UNIFORM BUILDING CODE (UBC) STANDARD 1991 EDITION #43-2
5. COMMERCIAL STANDARD CS 236-66 (CORES)
6. AWI 1300-G-3 (ARCHITECTURAL WOODWORK QUALITY STANDARDS)
7. N.E.M.A. (HIGH PRESSURE PLASTIC LAMINATE)
8. NPA (NATIONAL PARTICLEBOARD ASSOCIATION)

## PART 4 – EXECUTION

### 4.01 INSTALLATION

- A. Installation shall be by the contractor.

### 4.02 CERTIFICATION

Upon completion of material, the manufacturer shall supply a certificate of compliance stating that all materials are in accordance with this specification and the radiation shielding report.

# LEAD GLASS PRO

# FIRE-RATED LEAD LINED VISION LITE

## MATERIALS

18ga COLD ROLLED STEEL FRAME.

WITH 99.9% PURE LEAD LINING MEETING FEDERAL SPECIFICATION QQ-L-201f, GRADE "C".

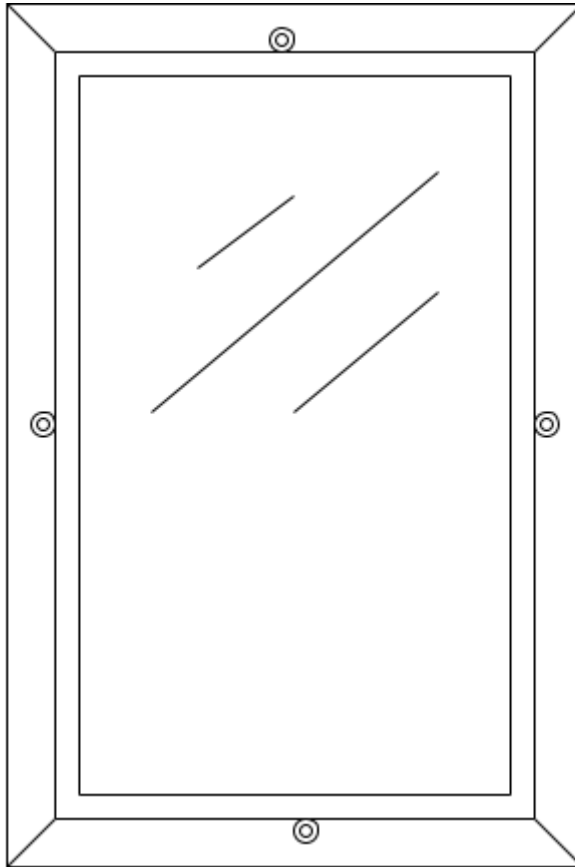
LEAD GLASS, 2.0mm LEAD EQUIVALENCY. MEETING FEDERAL SPECIFICATION DD-G-451

LEAD GLASS PRO X-RAY SAFETY GLASS MEETS ANSI Z97.1 AND 16 CFR 1201 CAT II REQUIREMENTS FOR IMPACT RESISTANCE.

FOR 1-3/4" THICK DOORS ONLY.

LEAD GLASS ON RADIATION SIDE OF DOOR.

THIS ASSEMBLY IS NOT FIRE-RATED



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