

LEAD LINED DOORS
 

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VT offers lead lined doors for radiation protection.

**VT Capabilities & Rules:**

- Lead is applied to core, under the crossband and face material on each side
- Available in all core types; Particleboard, Structural Composite Lumber Core, Agrifiber, and Fire Composite
- Maximum Door Size:
  - Single 4'0" X 10'0" (Non-rated)
  - Pair 8'0" X 10'0" (Non-rated)
  - Reference [Fire Door Capability Chart](#) for fire door maximums
  - Door sizes subject to weight limit approvals
- Pair applications require lead lined astragals to seal meeting edge
- Lites available with metal vision panels (woodstops unavailable)
  - Glass must have lead equivalence to match lead thickness applied to the door
  - Fire rated doors require dual pane MVPs with lead lined and fire rated glass
  - Glass installed by VT requires safety rated glazing
- Standard lite-to-lock dimension apply by core type
- VT lead lined doors are not tested for radiation protection
- Doors are built with specified lead thickness
- Radiation design and hardware consultants must specify doors to meet radiation protection requirements
  - Electric and open back strikes not recommended
  - Concealed overhead closers not recommended

CORE TYPE	LOCATION	LEAD THICKNESS	GLASS THICKNESS	LEAD EQUIVALENCE	DOOR WEIGHT (PSF)
Structural Composite Lumber (SCLC-7)	Holstein, Neenah, Two Rivers	1/16"	1/4"	1/16"	10.1
Structural Composite Lumber (SCLC-7)	Holstein, Neenah, Two Rivers	1/8"	9/16"	1/8"	13.8
Structural Composite Lumber (SCLC-7)	Neenah, Two Rivers	1/32"	1/4"	1/16"	8.8
Fire Composite / Pyroforce (FD-5)	Neenah, Two Rivers	1/32"	1/4"	1/16"	8.6
Particleboard Core (PC-7)	Neenah, Two Rivers	1/16"	1/4"	1/16"	8.9
Particleboard Core (PC-7)	Neenah, Two Rivers	1/8"	9/16"	1/8"	12.4
Particleboard Core (PC-7)	Neenah, Two Rivers	1/32"	1/4"	1/16"	7.1
Agrifiber Core (WSPC-7)	Neenah, Two Rivers	1/16"	1/4"	1/16"	8.9
Agrifiber Core (WSPC-7)	Neenah, Two Rivers	1/8"	9/16"	1/8"	12.4
Agrifiber Core (WSPC-7)	Neenah, Two Rivers	1/32"	1/4"	1/16"	7.1

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**Exclusions:**

- HDF faces
- CVR exit devices
- Radius edge
- Center-hung pivot
- Double-acting continuous hinges

**Related Resources:**

- [Lead Door Cut Sheet](#)
- [Common Glass Types](#)
- Reference [AMS](#) for more information on leaded lite kits