






TRANSOMS

Transoms Capability Chart

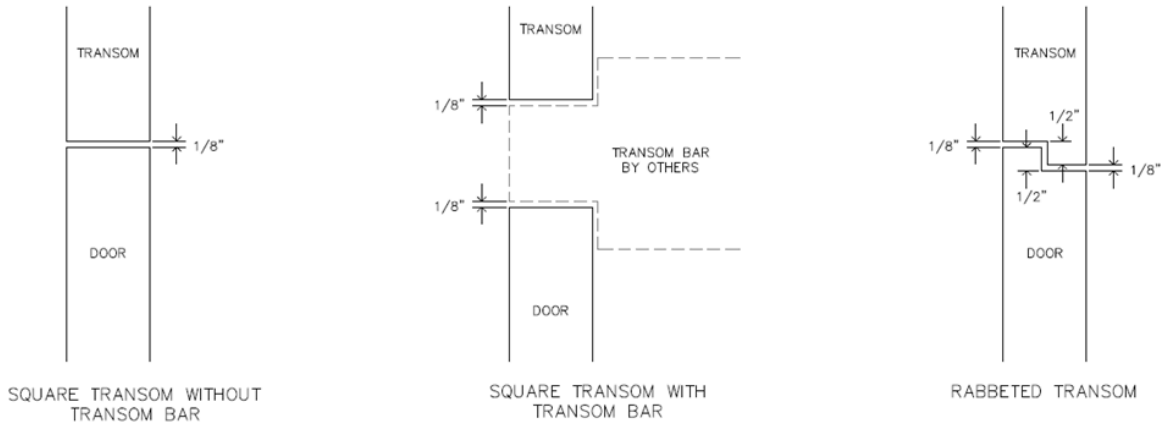
TRANSOM PROFILE	FIRE RATING*	CORE TYPE	MAX. OPENING WIDTH	MAX. OPENING HEIGHT	MAX. TRANSOM WIDTH	MAX. TRANSOM HEIGHT
Square with no transom bar - single 	Non-Rated	PC-3, PC-5, WSPC-5, SCLC-5	4'-0"	10'-0"	4'-0"	4'-0"
	20-Minute	Unavailable				
	45-90-Minute	Unavailable				
Square with transom bar - single 	Non-Rated	PC-3, PC-5, WSPC-5, SCLC-5	4'-0"	10'-0"	4'-0"	4'-0"
	20-Minute	PC-5, WSPC-5, SCLC-5	4'-0"	10'-0"	4'-0"	3'-4"
	45-Minute (Neenah Facility)	WSPC-5	4'-0"	10'-0"	4'-0"	3'-4"
	45-90-Minute (Neenah Facility)	FD-5	4'-0"	9'-0"	4'-0"	3'-4"
Rabbeted Single 	Non-Rated (Holstein & Neenah)	PC-3, PC-5, WSPC-5, SCLC-5	4'-0"	10'-0"	4'-0"	4'-0"
	20-Minute (Neenah Facility)	PC-5, WSPC-5, SCLC-5	4'-0"	10'-0"	4'-0"	3'-4"
	45-Minute (Neenah Facility)	WSPC-5	4'-0"	10'-0"	4'-0"	3'-4"
	45-90-Minute (Neenah Facility)	FD-5	4'-0"	9'-0"	4'-0"	3'-4"
Single transom with transom bar - pair 	Non-Rated	PC-3, PC-5, WSPC-5, SCLC-5	8'-0"	10'-0"	8'-0"	4'-0"
	20-Minute	PC-5, WSPC-5, SCLC-5	8'-0"	10'-0"	8'-0"	3'-4"
	45-90-Minute (Neenah & Two Rivers)	FD-5	8'-0"	9'-0"	8'-0"	3'-4"
Split transom with transom bar - pair 	Non-Rated	PC-3, PC-5, WSPC-5, SCLC-5	8'-0"	10'-0"	4'-0"	4'-0"
	20-Minute	PC-5, WSPC-5, SCLC-5	8'-0"	10'-0"	4'-0"	3'-4"
	45-90-Minute	FD-5	8'-0"	9'-0"	4'-0"	3'-4"

*Available for all facilities except as noted

TRANSOMS

Clearances & Rabbet Dimension:

- The clearance between the door(s) and transom are accounted for in the door trimming
- Transom without Bar in Frame or Rabbeted: 1/8" clearance between transom and door
- Transom with Bar in Frame: 1/8" clearance between the transom and transom bar and 1/8" clearance between transom bar and top of door
- Maximum 1/8" clearance on fire rated doors with transoms
- VT standard transom rabbet height is 1/2", other heights available upon request

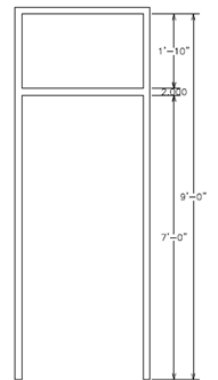


Figuring Transom Dimensions:

- Reference Transom Capability Chart (above) for available profiles
- The following examples assist with figuring transom dimensions based on profile

SQUARE BOTTOM - TRANSOM BAR

Frame Opening Height	- 9-0	Nominal Door Height	- 7-0
Door Height	- 7-0	Door Top Clearance	- 1/8"
	= 2-0		= 6-11 7/8"
Bar Thickness	- 0-2	Door Undercut	- 1/2"
	= 1-10	Net Door Height	= 6-11 3/8"
Top Clearance	- 1/8"		
	= 1-9 7/8"		
Bottom Clearance	- 1/8"		
Net Transom Height	= 1-9 3/4"		

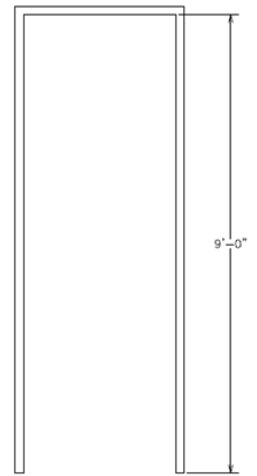


SQUARE BOTTOM TRANSOM
Fixed Bar Between Door & Transom

TRANSOMS

SQUARE BOTTOM - NO BAR IN FRAME

Frame Opening Height	9-0	Nominal Door Height	7-0	
Door Height	- 7-0		Door Top Clearance	- 1/8"
	= 2-0			= 6-11 7/8"
Transom Top Clearance	- 1/8"	Door Undercut	- 1/2"	
Net Transom Height	= 1-11 7/8"	Net Door Height	= 6-11 3/8"	


1/2" RABBETED TRANSOM

Frame Opening Height	9-0	Nominal Door Height	7-0	
Door Height	- 7-0		Door Top Clearance	- 1/8"
	= 2-0			= 6-11 7/8"
Transom Top Clearance	- 1/8"	Door Undercut	- 1/2"	
	= 1-11 7/8"	Net Door Height	= 6-11 3/8"	
Rabbeted Dimension	+ 1/2"			
Net Transom Height	= 2-0 3/8"			

SQUARE BOTTOM TRANSOM,
No Bar in Frame
(OR)
RABBETED TRANSOM

Transom Matching:

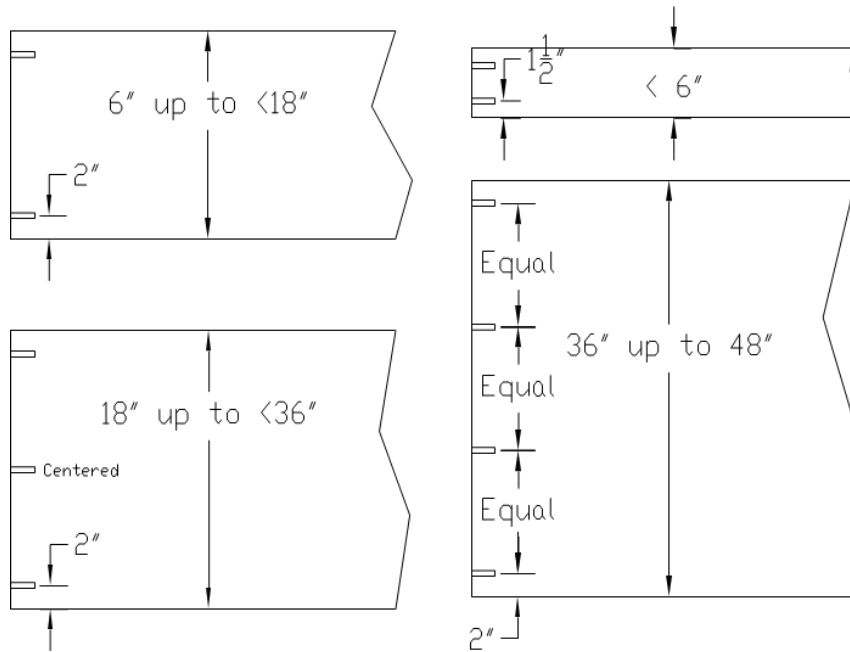
- Continuous Match – Veneer extends from the bottom of the door to the top of the transom. Veneer may limit total door and transom height. Standard as available.
- End Match – Veneer extends from bottom of the door to top of the door with mirror image at the transom. Available by request or as required.
- Matching Tolerance
 - Single Door and Transom: 3/8"
 - Pair of doors and single transom: 1/2"

TRANSOMS

Installation:

- Transoms are typically secured in the frame by using spring-bolts or frame stops secured to the frame after the transom is installed. For labeled applications spring bolts require a metal pin (with or without a plastic covering).
- VT will not warranty doors with operational hardware or door latching into the transom. Fire rated doors require a transom bar between the door and transom panel when operational hardware, such as closers, or strikes (door can not latch into the panel).
- As standard spring-bolts are machined in the vertical edges of the panels as noted:
 - Panels up to 18" having 2 bolts per side
 - Panels up to 36" having 3 bolts per side
 - Panels up to 48" having 4 bolts per side
- Single transoms over a fire rated pair, spring-bolts required on horizontal edges with Fire Composite core construction. Spring bolts required 2" from the stile edges and maximum of 30" in between spring bolts.

Standard Spring-Bolt Locations: (measured from the wide face of rabbeted transoms)



TRANSOMS

• **Applied Molding on Labeled Transoms:**

- Available 20-90 minutes
- Reference Technical Bulletin: Surface Applied (Plant On) Moulding

• **Lites in Transom:**

- Non-rated transoms only
- Neenah / Two Rivers Facilities
- Reference Technical Bulletin: Lite/Lock Cutout Margins on Flush Doors