



**SAN JOAQUIN COUNTY
COMMUNITY DEVELOPMENT DEPARTMENT**

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GARAGE FIRE LID AND WALL REQUIREMENT

Residential walls between the garage and house are required to be 1 hour using 1 layer of 5/8" type X sheet rock applied to the garage side of the wall and must extend tightly to the under side of the roof system. All fire walls must meet the following requirements:

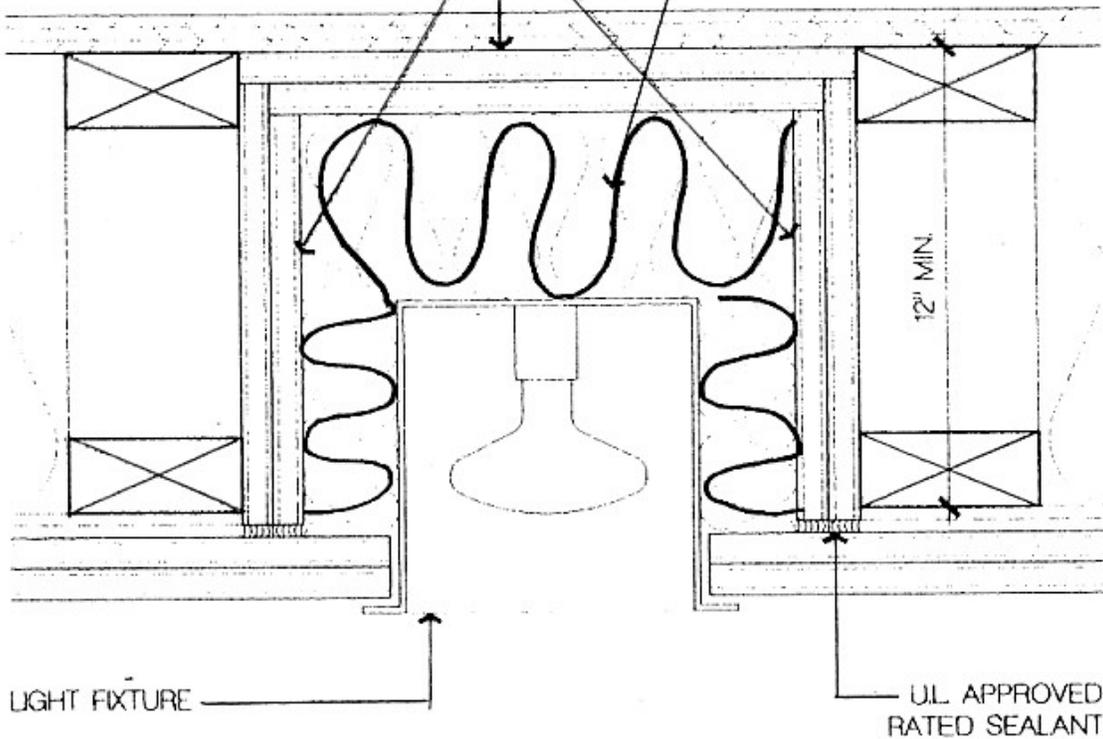
1. All electrical outlet boxes must be metal or 1 hour rated and shall not share a common stud cell with an outlet box on the opposite side of the wall.
2. All plumbing and electrical wires penetrating the fire wall shall require a fire stop assembly rated for the application.
3. Washing machine waste boxes and water boxes installed in the fire wall shall be rated for 1 hour construction.
4. Electrical sub-panels are not permitted in fire walls. Panels may be surface mounted or furred beyond the fire wall with additional framing members, sheet rock, and fire caulking at all wire penetrations. This additional stud cavity allows for a wire chase to the attic area.
5. Duct work passing through fire wall shall be 26 gauge and shall extend to the furnace plenum. All duct joints shall require 3 sheet metal screws and braced every 4'.
6. The furnace-water heater platform shall require the fire wall to pass behind down to the floor or blocking shall be required between studs at its top surface with minimum 1 1/8" plywood decking and 5/8" type X sheet rock around its perimeter.
7. Doors between the garage and the house shall be required to be 1 3/8" solid core material or a door rated for 20 minutes, self closing, self latching, and weather stripped.

Residential fire rated ceiling in garages shall be required when the fire wall does not extend to the roof system, when a common roof truss passes over both the house and garage area or second floor is above the garage. Garage fire rated ceilings must meet the following requirements:

1. Fire lids must meet the requirements of one of the attached USG schedules or provide ceiling joist at 16" centers. See attached sheet for USG tested systems.
2. Perimeter blocking shall be required for attachment of all out edges of fire lid.
3. All electrical boxes shall be rated for 1 hr and extend out to within 1/8th of finish surface.
4. Recessed lights, speakers, or any other installation that provides a non-rated open space into the attic area must be framed and sheet rocked as to provide the same integrity as the rated ceiling. All joints must be fire tapped and any wire penetrations must be fire caulked with an approved fire caulk assembly.
5. All attic areas above the garage lid with 30" of crawl space must be provided with attic access and ventilation. Note: If access can be provided from the house attic, an approved attic access door must be provided. See attached sheet.
6. All garage walls supporting trusses that are common to both the house and garage must be protected as a fire wall with 1 layer of 5/8" type X sheet rock applied to the garage side of the wall.

(2) LAYERS 5/8" TYPE 'X'
GYP. BD. BOXED ALL
AROUND LIGHT FIXTURE

FILL CAVITY WITH UL
APPROVED INSULATION FOR
USE WITH RECESSED LIGHT



RECESSED LIGHT @ RATED FLR/CLG



Flush mounted access panel

Product ID: FD

Manufacturer: J L Industries

Use this model when you need to provide access to utilities in the walls or ceilings of stairwells, shafts, corridors and any other areas where fire ratings are important. To facilitate installation in wall construction, frames are equipped with masonry anchors and bolt holes. The door panel has 2" of insulation in a sandwich-type construction. These panels can be installed in fire rated walls or ceilings and maintains the fire barrier ratings. They carry Underwriters Laboratories 1-1/2 hour "B" label rating for wall applications and the Warnock Hersey label for 3-hour non-combustible and 1-hour combustible floor/ceiling assemblies.

A-MODEL SIZE width x height	B - WALL OPENING DIMENSIONS 1-hour ceiling opening dimensions		C - CEILING OPENING DIMENSIONS 3-hour ceiling opening dimensions	
	Width	Height	Width	Height
8" x 8"	8 3/8"	8 3/8"	9 5/8"	9 5/8"
10" x 10"	10 3/8"	12 3/8"	11 5/8"	11 5/8"
12" x 12"	12 3/8"	10 3/8"	13 5/8"	13 5/8"
14" x 14"	14 3/8"	14 3/8"	15 5/8"	15 5/8"
16" x 16"	16 3/8"	16 3/8"	17 5/8"	17 5/8"
18" x 18"	18 3/8"	18 3/8"	19 5/8"	19 5/8"
20" x 30"	20 3/8"	30 3/8"	21 5/8"	31 5/8"
22" x 30"	22 3/8"	30 3/8"	23 5/8"	31 5/8"
24" x 24"	24 3/8"	24 3/8"	25 5/8"	25 5/8"
22" x 36"	22 3/8"	36 3/8"	23 5/8"	37 5/8"
24" x 36"	24 3/8"	36 3/8"	25 5/8"	37 5/8"
24" x 48"	24 3/8"	48 3/8"	-	-
30" x 30"	30 3/8"	30 3/8"	-	-
32" x 32"	32 3/8"	32 3/8"	-	-
36" x 36"	36 3/8"	36 3/8"	-	-
36" x 48"	36 3/8"	48 3/8"	-	-

Hinge: Continuous hinge mounted on the long side of oblong panels

Latch: Universal latch mechanism can be converted between turning and key lock in the field and is recessed to allow for wall covering to be applied over panel face with no obstruction. Includes interior latch release device for unlocking door from inside.

Automatic Closing: Spring closer on all size panels which latch automatically when door is released. A second spring is included on sizes 16" x 16" thru 24" x 36" and must be used for the ceiling fire rating on these sizes.

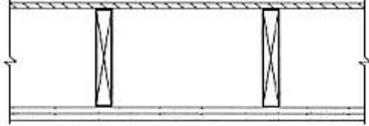
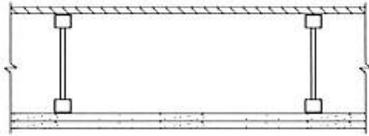
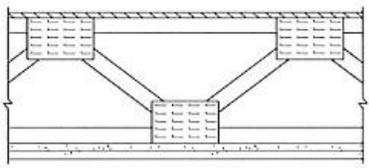
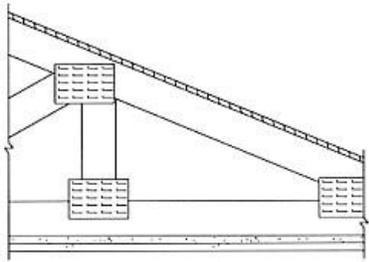
Option "mortise preparation" allows you to key to new or existing master key systems. Prepared to accept any standard 1-1/8" da. mortise cylinder. Cam must be with minimum "x" length of 7/16".

Materials:

Frame: 16 gauge steel

Door: 20 gauge steel

Finish: Gray baked enamel

FLOOR-CEILING SYSTEMS, WOOD FRAMED				
GA FILE NO. FC 5406	GENERIC	1 HOUR FIRE	35 to 39 STC SOUND	<p>WOOD JOISTS, GYPSUM WALLBOARD</p> <p>Base layer 5/8" type X gypsum wallboard applied at right angles to 2 x 10 wood joists 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to joists with 1 7/8" Type W or S drywall screws 12" o.c. at joints and intermediate joists and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" plywood with exterior glue applied at right angles to joists with 8d nails. Ceiling provides one hour fire resistance protection for framing, including trusses.</p>  <p>Approx. Ceiling Weight: 5 psf Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98 Sound Test: Estimated</p>
GA FILE NO. FC 5407	GENERIC	1 HOUR FIRE	35 to 39 STC SOUND	<p>WOOD I-JOISTS, GYPSUM WALLBOARD</p> <p>Base layer 5/8" type X gypsum wallboard applied at right angles to wood I-joists 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to I-joists with 1 7/8" Type W or S drywall screws 12" o.c. at joints and intermediate I-joists and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood I-joists supporting 1/2" wood structural panels applied at right angles to joists with 8d nails. Ceiling provides one hour fire resistance protection for I-joists.</p>  <p>Approx. Ceiling Weight: 5 psf Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98 Sound Test: Estimated</p>
GA FILE NO. FC 5408	GENERIC	1 HOUR FIRE	35 to 39 STC SOUND	<p>WOOD TRUSSES, GYPSUM WALLBOARD</p> <p>Base layer 5/8" type X gypsum wallboard applied at right angles to parallel chord wood trusses 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to trusses with 1 7/8" Type W or S drywall screws 12" o.c. at joints and intermediate trusses and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Trusses supporting 1/2" wood structural panels applied at right angles to trusses with 8d nails. Ceiling provides one hour fire resistance protection for trusses.</p>  <p>Approx. Ceiling Weight: 5 psf Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98 Sound Test: Estimated</p>
GA FILE NO. RC 2602	GENERIC	1 HOUR FIRE		<p>WOOD TRUSSES, GYPSUM WALLBOARD</p> <p>Base layer 5/8" type X gypsum wallboard applied at right angles to wood roof trusses 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to trusses with 1 7/8" Type W or S drywall screws 12" o.c. at joints and intermediate trusses and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood trusses supporting 1/2" wood structural panels applied at right angles to trusses with 8d nails. Appropriate roof covering. Ceiling provides one hour fire resistance protection for trusses.</p>  <p>Approx. Ceiling Weight: 5 psf Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98</p>