

DEPARTMENT OF PLANNING & BUILDING 250 FRANK H. OWAGA PLAZA. SECOND FLOOR. OAKLAND CA. 94612

BASED ON THE 2010 CALIFORNIA RESIDENTIAL CODE 2010 CALIFORNIA BUILDNIG CODE & THE 19TH EDITION OF THE GYPSUM ASSOCIATION FIRE RESISTANCE MANUAL

Prior to this inspection, all required sequential inspections and correction notices must be completed. This is not an all-inclusive list and additional items may be required as determined during the inspection.

FIRE RATED SEPARATIONS

Grou	Group U private Garage Separation OMC 15.04.602					
	5/8 type X gypsum wallboard on garage side					
	No window openings on separation wall					
	Door is a m	inimum 1 inches thick solid core wood or solid or honey comb core steel door or (20-				
	minute fire-	rated door) R302.5.1				
	Doors are t	ight-fitting, self-closing, and self latching				
	Door does not connect with a sleeping room					
	Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the					
	garage are constructed of a minimum No. 26 gage sheet steel or other approved material and shall					
	have no openings into the garage. R302.5.2					
Grou	up U private	carport OMC 15.04.602				
Separation not required if carport is entirely open on two or more sides and there are no						
	areas abov	е.				
	Door is a minimum 1 inches thick solid core wood or solid or honey comb core steel door					
	Doors shall be tight-fitting, self-closing, and self latching					
	Window openings are fixed (non-openable) and dual-pane tempered glazing.					
	Door and window openings do not connect with a sleeping room.					
Und	er-stair prote	ction OMC 5.04.1015				
	Enclosed accessible space under stairs shall have walls, under-stair surface and any soffits protected					
	on the enclosed side with -inch Type-X gypsum board.					
Walls and Horizontal Separations CBC section 709, 712						
	- Walls separating dwelling units within the same building require a fire-resistance rating of not less					
	than 1hr. C	BC 709.2				
	Walls sepa	rating dwelling units within the same building require a sound transmission control rating				
	(STC) of not less than 50. CBC 1207.6.1, 1207.7					
	Example	1 hr. WHI 694-0200 5/8" (15.9 mm) Fire-Shield C Gypsum Wallboard, screw applied 50 Based on				
	of	GA Based on to Resilient Furring Channel spaced 24" o.c. (610 mm) one side TL 77-138				
	approved	Other side 5/8" (15.9 mm) Fire-Shield C Gyosum Wallboard				
	wall	screw attached direct to studs. 3" (76 mm) mineral wool				
		(3 pcf) in stud cavity.				
	⊢rre separa	lions extend from the top of the foundation to the underside of the root sheathing CBC				

	709.4						
	Floor/ceiling assemblies separating dwelling units within the same building require a fire-resistance						
	rating of not less than 1hr. CBC 712.3, 713.3.1.2						
	Floor/ceiling assemblies separating dwelling units within the same building require a sound						
	transmission control rating (STC) of not less than 50. CBC 1207.6.1, 1207.7						
	Example of approved assembly. Floor/Ceiling Assemblies - Wood Framing						
	1 Hour FM FC-181 FC 5120 SIC = 7.5 Sound Test # G&H OC-3MT Test # G&H OC-3MT Test # G&H OC-3MT						
	1/2" (12.7 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels 24"o.c. with 1" type S drywall screws 8"o.c. at ends and 12" o.c. at intermediate furring channels. Gynsum board						
	end joints located midway between continuous channels and attached to additional pieces of channels 64" inches long with screws 8"o.c.						
	Resilient furring channels applied at right angles to 2x10 wood joists 16" o.c. with 6d coated nails, 1-7/8" long, 085" shank, 1/4" heads, per Link to PDF file						
	Link to .DWG/Text file and 3/8" particle board. 3-1/2" fiberglass insulation friction fit in joist cavities supported alternately every 12" by wire rods and resilient						
	furring channels. Sound and IIC tested with Carpet and pad.						
Pen	etrations of fire rated assemblies CBC /13						
14/4							
VVAL	LD						
	For through penetrations of steel, terrous, copper pipes, tubes or conduits; annular space is filled with						
	INSTEU IIIESTUP System UDU / 13.3.1 Membrane perpetrations for electrical steel beyon (or other listed) that do not exceed 16cc in total						
	nemetration area does not exceed 100sq in in any 100sq ft of wall CRC 713.3.2						
	Appular space between the membrane and box is not over 1/8 inch. CBC 713.3.2						
	Annulal space between the membrane and box is not over 1/0 mon. CDC 715.5.2						
	Boxes not separated 21 inches have listed fire putty pads installed (or other approved method)						
	Boxes not separated 24 inches have listed life putty pads installed (or other approved method)						
FI O	OR/ CEILING ASSEMBLIES						
	For through penetrations of steel ferrous, copper pipes, tubes or conduits; annular space is filled with						
	listed fireston system CBC 713 4 1 1						
	Through penetrations of steel, ferrous, copper pipes, tubes or vents; annular space is filled with listed						
	firestop system and the aggregate area does not exceed 144sq in. in any 100sq ft. of floor area. CBC 713.4.2						
	Membrane penetrations of steel, ferrous, copper pipes, tubes or vents; annular space is filled with						
	listed firestop system and the aggregate area does not exceed 100sg in. in any 100sg ft. of floor area.						
	CBC 713.4.1.1						
	Membrane penetrations for electrical steel boxes (or other listed) that do not exceed 16sq in. total						
	penetration area does not exceed 100sq in. in any 100sq ft. of ceiling area. CBC 713.4.1.2						
Sha	ft Enclosures CBC 708						
	For other penetrations of a floor/ceiling assembly than those allowed by CBC 713 Shafts or approved						
	alternatives are provided. CBC 708, OAK						
	Shafts are constructed to <i>continuously</i> extend from the protected assembly, through the adjacent						
	residential unit and terminate underside of the roof sheathing. CBC 708.5, 707.5						
1 HF	HR RATED SHAFT						

B C D F	description Shaft frame- 2x4 DF, (sample represents a 16 inch exterior dimension shaft). Or, if other is used (i.e. steel studs) the construction, must meet approved design per Gypsum Association Fire Resistive Manual. 5/8 inch type X gypsum on both side of shaft. Gypsum is installed uninterrupted along the entire length of the shaft, joints and screws are fire taped or fire caulked. Fastening per approved design per Gypsum Association Fire Resistive Manual. Floor side of assembly Floor framing (note: gypsum is not broken by framing R-13 insulation typical	5/8" type x bill bill bill bill bill bill bill bil				
Bathroom fans and environmental ducts installed within the a protected floor ceiling assembly use City Approved alternative for fire protection (Recommend protecting separation and dropping ceiling or installation of a 1hr rate fan instead of alternative) BATHROOM FAN IN A 1HR FIRE RATED ASSEMBLY						
A B C D E F G H	description Sub floor (per plan) Floor/ceiling assembly construction shall be designed to meet the required 1hr fire/STC 50 sound ratings of CRC R302.3 which includes extending rate of protection to include all supporting structural members of the assembly. 26 gage galvanized duct Existing floor joist @ 16" oc. Resilient furring channels (per plan) 5/8" type X drywall. New non-rated Fan 5/8" type X drywall. Apply to all exposed faces within the floor joist bay, include new block and exposed rim joist and under sub floor. All joints and penetrations to be sealed with Fire-Caulk R-13 insulation TYP.	Image: state of the state				
RECES	SED CEILING LIGHT IN A 1HR FIRE RATE or electrical recessed fixtures installed in a pro- ernative for fire protection (or other listed me	D ASSEMBLY otected floor/ ceiling assembly use the approved City thod)				

	legend	description				
	A N	New 2x blocks @each side of fixtu	ire			
	B C	Ceiling 5/8" type X drywall.				
	C F	Resilient furring channels (per plan	n)			
		C RATED RECESSED LIGHT FIX	XTURE.			
		NOTE: Membrane penetration are	a shall be			
	DI	imited to an area not to exceed 10	J0sqin in any			
	1	IUUSqft. Annular area in the memb	brane shall not			
	e	SCEED 1/8 CRC R302.4.2	nonad factor			
	5	within the floor joist hav include n	posed laces			
	F (each side of fixture) and under su	ub floor All			
		oints and penetrations to be seale	ed with Fire-			
	, ,	Caulk	F			
	E	Existing 2x floor joist Sub floor (pe	er plan)			
	F	loor/ceiling assembly constructio	n shall be	E D		
	_ d	lesigned to meet the required 1hr	fire/STC 50			
	۲ s	sound ratings of CRC R302.3 which	ch includes	assembly membrane penetration construction		
	e	extending rate of protection to incl	ude all			
	S	supporting structural members of	the assembly.			
	ELECTRIC	CAL PANEL A 1HR FIRE R	ATED ASSEMBLY			
	Elect	rical panels recessed within th	e rated wall cavity require 5 side prote	ction of non rated panel.		
	(Reco	ommend installing panel over	fire membrane within a furring wall to	avoid fire protection discontinuity.		
				×		
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A Typical wall framing B 5/8 inch type X drywall or		descri	ption	71ty 1		
		5/9 inch type X drawall on all sides and back of cavity, joints				
		and screws fire taped or fire cau	Iked NOTE: spacing must	e field		
		be framed over 16" o c in order	framed over 16" o.c. in order to accommodate thickness			
		of drywall				
	С	Typical electrical panel				
				extend to accompagate		
				sound channels, well drywall as required		
	Exterior W	/alls R302 1				
	Cons	struction projections openir	has and penetrations of exterior wal	ls of dwellings and accessory		
		ings shall comply with Table		s of dwellings and decessory		
	Dullu	ings shall comply with rable	F 1(302.1(1)			
	I					
	E	XTERIOR WALL ELEMENT	MINIMUM FIRE-RESISTANCE RATING	DISTANCE		
		(Fire-resistance rated)	1 hour-tested in accordance with ASTM E119	< 3 feet		
	Walls		or UL263 with exposure from both sides			
Projection		(Not fire-resistance rated)	0 hours	> or equal 3 feet		
		(Fire-resistance rated)	1 hour on the underside	> or equal 2teet to 3 feet		
		ns (Net fire resistance rated)	0 k ==	2 feet		
	Projection	in Not allowed	0 hours	3 feet		
	Projectior Opening walls	in Not allowed	0 hours N/A 0 hours	3 feet < 3 feet 3 feet		
	Projectior Opening walls	in Not allowed Unlimited	0 hours N/A 0 hours Comply with Section R302.4	3 feet < 3 feet 3 feet < 3 feet		
	Projectior Opening walls Penetratio	in <u>Not allowed</u> Unlimited	0 hours N/A 0 hours Comply with Section R302.4 None required	3 feet < 3 feet 3 feet < 3 feet 3 feet		