INFORMATION BULLETIN / PUBLIC – BUILDING CODE
REFERENCE NO.: LARC Effective: 01-01-2011
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Previously Issued As: P/BC 2008-004

WOOD FRAME PRESCRIPTIVE PROVISIONS
ONE STORY RESIDENTIAL CONSTRUCTION ONLY

The wood frame prescriptive provisions are for one and two family dwellings and townhouses of wood frame construction, not exceeding one story in height. This Information Bulletin is for information and reference only and is not a substitute for accurate drawings prepared for each proposed construction project.

LARC refers to the Los Angeles City Residential Code. The number following R references the code section within the Los Angeles City Residential Code.

FOOTINGS ON EXPANSIVE SOILS

Footing systems on expansive soil shall be constructed in a manner that will minimize damage to the structure from movement of the soil. All soil in the City of Los Angeles is considered expansive unless proven otherwise by an approved soils report.

1. Depth of footings below the natural and finished grades shall not be less than 24 inches for exterior and 18 inches for interior footings.

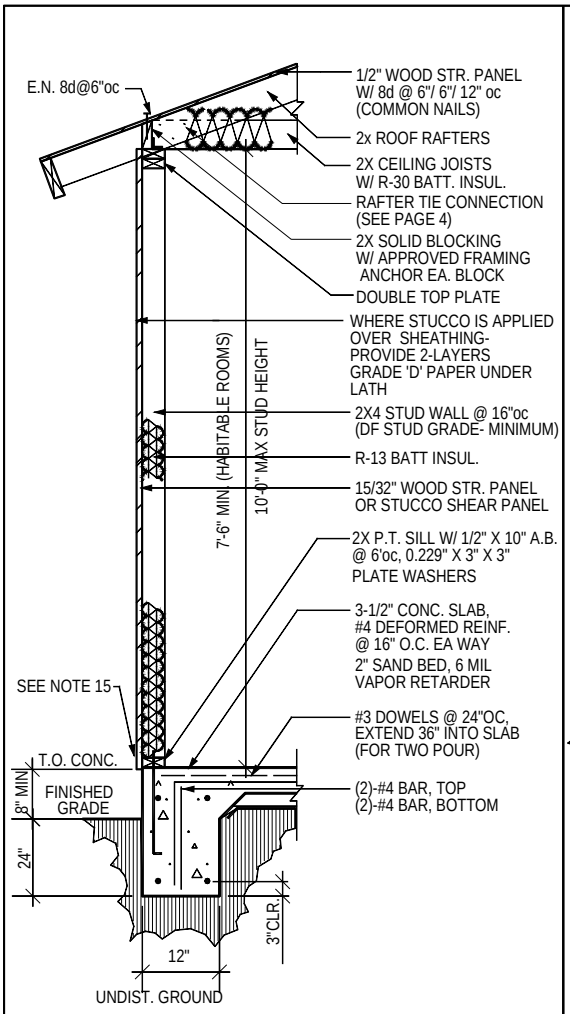
2. Exterior walls and interior bearing walls shall be supported on continuous footings.

3. Footings shall be reinforced with four ½-inch diameter deformed reinforcing bars. Two bars shall be placed 4 inches from the bottom of the footing and two bars within 4 inches from the top of the footing. Reinforcement shall have minimum 3-inch concrete cover for concrete cast against earth and reinforcement not exceeding 5/8-inch shall have minimum 1-1/2-inch concrete cover when not cast against earth.

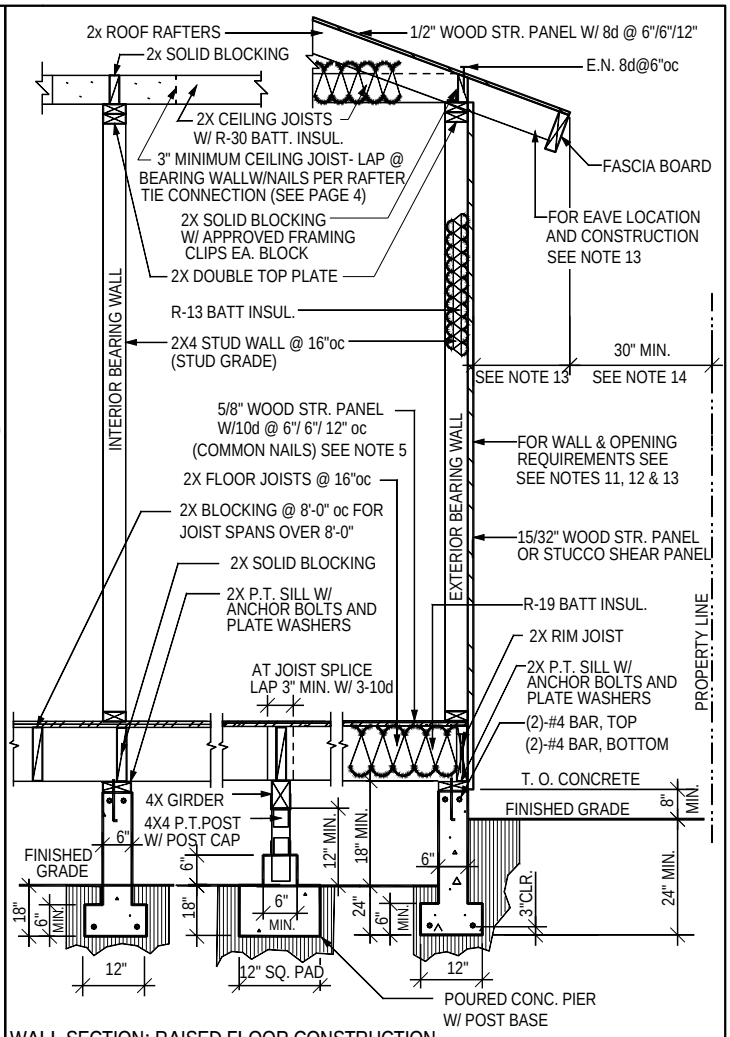
4. Concrete floor slabs on grade shall be placed on a 4-inch fill of coarse aggregate or on a 2-inch sand bed covered with a minimum 6 mil moisture barrier membrane. The slabs shall be at least 3-1/2 inches thick and shall be reinforced with ½" diameter deformed reinforcing bars. Reinforcing bars shall be spaced at intervals not exceeding 16 inches each way.

5. The soil below an interior concrete slab shall be saturated with moisture to a depth of 18 inches prior to placing the concrete.

6. All drainage adjacent to footings shall be conducted away from the structure by a 3-ft wide sloped apron draining into an approved non-erosive device.



WALL SECTION: SLAB-ON-GRADE CONSTRUCTION



WALL SECTION: RAISED FLOOR CONSTRUCTION

NOTES:

1. Anchor bolts ½" x 10" embedded 7" and spaced maximum 6' with 0.229" x 3" x 3"" plate washers, minimum 2 anchor bolts per piece, located not more than 12" or less than 7 bolt diameters from each end of the piece.
2. All foundation plates or sills and sleepers on a concrete or masonry slab, which is in direct contact with earth, and sills that rest on concrete or masonry foundations shall be preservative treated wood(AWPA U1) and field cut ends, notches, and drilled holes shall be field treated in accordance with AWPA M4. Fasteners (other than anchor bolts) in preservative treated wood or fire retardant treated wood shall be of hot dipped zinc coated galvanized steel or stainless steel.
3. Minimum concrete strength 2,500-psi.
4. Exterior walls, bearing walls and braced wall panels require continuous footings. R403.1
5. 23/32" plywood required for 24" joist spacing.
6. Where interior walls are shear walls, wall framing and sheathing shall extend to the roof sheathing.
7. Footings on or adjacent to slopes shall meet the requirements of Section R403.1.7.
8. Walls separating units in townhuses shall be provided with parapet in accordance with R302.2.2
9. Projects located in the Very High Fire Hazard Severity Zone (VHFHSZ) must also incorporate the requirements of Section R327 into the design.
10. Exterior walls of dwellings and accessory structures closer than 5-ft. (non-sprinklered) / 3-ft. (sprinklered) to the property line shall be 1-hr fire-resistance rated construction.
11. No openings other than approved foundation vents shall be permitted in the exterior walls of dwellings and accessory buildings where the exterior wall is less than 3-ft. to the property line.
12. The area of exterior wall openings of non-sprinklered dwellings and accessory buildings located = 3-ft. and < 5-ft. to the property line shall be limited to 25% of the wall area. Exterior wall openings are unlimited when exterior walls are located = 5-ft. for non-sprinklered buildings and = 3-ft. for sprinklered buildings.
13. Eaves shall be of 1-hr fire-resistive construction on the underside when located between 2-ft. and 5-ft. from the property line for non-sprinklered buildings and between 2-ft. and 3-ft. from the property line for sprinklered buildings. Detached garages within 2-ft of a property line may have a maximum 4-inch eave, provided the eave does not extend over the property line and is allowed by the Zoning Code.
14. Eaves shall not project more than 4" for each one foot of required side yard, and shall provide a minimum 30" clear space between the eave and the property line (LAMC 12.22C20(b)).
15. Exterior plaster (stucco) walls shall be provided with a corrosion resistant weep screed complying with Section R707.6.2.1

ALLOWABLE SPANS FOR DF #2 ROOF RAFTERS (DF-LARCH) Light Dead Load: up to 15 psf (Total including roofing) Max. Roofing Load: 6 psf (Asphalt Shingles) Live Load: 20 psf L/Δ = 240 (T-R802.5.1(2))			ALLOWABLE SPANS FOR DF #2 CEILING JOISTS (DF-LARCH) Dead Load: 10 psf Live Load: 20 psf L/Δ = 240 (T-R802.4(2))			ALLOWABLE SPANS FOR DF #2 FLOOR JOISTS (DF-LARCH) Light Dead Load: 10 psf Live Load: 40 psf L/Δ = 360 (T-R502.3(2))		
RAFTER SIZE	SPACING	ALLOWABLE SPAN	JOIST SIZE	SPACING	ALLOWABLE SPAN	JOIST SIZE	SPACING	ALLOWABLE SPAN
2x6	24” 16” 12”	10’-9” 13’-0” 14’-9”	2x4	24” 16” 12”	7’-2” 8’-9” 9’-10”	2x6	24” 16” 12”	8’-1” 9’-9” 10’-9”
2x8	24” 16” 12”	13’-6” 16’-7” 18’-11”	2x6	24” 16” 12”	10’-6” 12’-10” 14’-10”	2x8	24” 16” 12”	10’-3” 12’-7” 14’-2”
2x10	24” 16” 12”	16’-6” 20’-3” 23’-5”	2x8	24” 16” 12”	13’-3” 16’-3” 18’-9”	2x10	24” 16” 12”	12’-7” 15’-5” 17’-9”
2x12	24” 16” 12”	19’-2” 23’-6” 25’-10”	2x10	24” 16” 12”	16’-3” 19’-10” 22’-11”	2x12	24” 16” 12”	14’-7” 17’-10” 20’-7”

ALLOWABLE SPANS FOR DF #2 HEADERS FOR EXTERIOR BEARING WALLS Max. Roof/Ceiling Dead Load: 25 psf Max Live Load 20 psf (T-R502.5(1))							ALLOWABLE SPANS FOR DF #2 HEADERS FOR EXTERIOR BEARING WALLS Max. Roof/Ceiling Dead Load: 25 psf Max Live Load 40 psf (Roof/Limited Storage Attic) (T-R502.5(1))					
SIZE	20-ft Building Width	NJ	28-ft Building Width	NJ	36-ft Building Width	NJ	20-ft Building Width	NJ	28-ft Building Width	NJ	36-ft Building Width	NJ
2-2x6	5’- 5”	1	4’- 8”	1	4’- 2”	1	4 – 6”	1	4’- 0”	1	3’- 7”	2
2-2x8	6’- 10”	1	5’- 11”	2	5’- 4”	2	5’- 9”	2	5’- 0”	2	4’- 6”	2
2-2x10	8’- 5”	2	7’- 3”	2	6’- 6”	2	7’- 0”	2	6’- 2”	2	5’- 6”	2
2-2x12	9’- 9”	2	8’- 5”	2	7’- 6”	2	8’- 1”	2	7’- 1”	2	6’- 5”	2
3-2x8	8’- 4”	1	7’- 5”	1	6’- 8”	1	7’- 2”	1	6’- 3”	2	5’- 8”	2
3-2x10	10’- 6”	1	9’- 1”	2	8’-2”	2	8’- 9”	2	7’- 8”	2	6’-11”	2
3-2x12	12’- 2”	2	10’-7”	2	9- 5”	2	10’- 2”	2	8’- 11”	2	8’- 0”	2

a. Building width is perpendicular to ridge measured to exterior walls.
b. NJ – Number of Jack Studs required to support each end of header.

ALLOWABLE SPANS FOR DF #2 HEADERS FOR INTERIOR BEARING WALLS Max. Roof/Ceiling Dead Load: 25 psf Max Live Load 20 psf (T-R502.5(2))							ALLOWABLE SPANS FOR DF #2 HEADERS FOR INTERIOR BEARING WALLS Max. Roof/Ceiling Dead Load: 25 psf Max Live Load 40 psf (Roof/Limited Storage Attic) (T-R502.5(2))					
SIZE	20-ft Building Width	NJ	28-ft Building Width	NJ	36-ft Building Width	NJ	20-ft Building Width	NJ	28-ft Building Width	NJ	36-ft Building Width	NJ
2-2x6	4’- 6”	1	3’- 11”	1	3’- 6”	1	3 – 2”	2	2’- 9”	2	2’- 5”	2
2-2x8	5’- 9”	1	5’- 0”	2	4’- 5”	2	4’- 1”	2	3’- 6”	2	3’- 2”	2
2-2x10	7’- 0”	2	6’- 1”	2	5’- 5”	2	4’- 11”	2	4’- 3”	2	3’- 10”	3
2-2x12	8’- 1”	2	7’- 0”	2	6’- 3”	2	5’- 9”	2	5’- 0”	3	4’- 5”	3
3-2x8	7’- 2”	2	6’- 3”	2	5’- 7”	2	5’- 1”	2	4’- 5”	2	3’- 11”	2
3-2x10	8’- 9”	2	7’- 7”	2	6’-9”	2	6’- 2”	2	5’- 4”	2	4’- 10”	2
3-2x12	10’- 2”	2	8’-10”	2	7-10”	2	7’- 2”	2	6’- 3”	2	5’- 7”	3

a. Building width is perpendicular to ridge measured to exterior walls.
b. NJ – Number of Jack Studs required to support each end of header.

ALLOWABLE SPANS FOR DF #2 FLOOR GIRDERS SUPPORTING ONE FLOOR ONLY Max. Floor Dead Load: 15 psf [1, 2] (T-R502.5(2))			
SIZE	20-ft Building Width	28-ft Building Width	36-ft Building Width
2-2x6	4'- 6"	3'- 11"	3'- 6"
2-2x8	5'- 9"	5'- 0"	4'- 5"
2-2x10	7'- 0"	6'- 1"	5'- 5"
2-2x12	8'- 1"	7'- 0"	6'- 3"
3-2x8	7'- 2"	6'- 3"	5'- 7"
3-2x10	8'- 9"	7'- 7"	6'-9"
3-2x12	10'- 2"	8'-10"	7-10" [3]

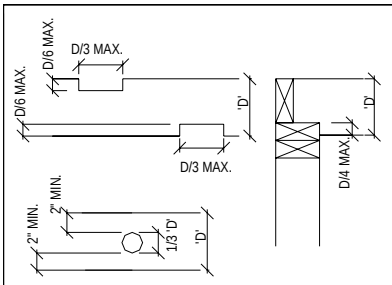
1. Building width is perpendicular to ridge measured to exterior walls.
2. Minimum 4x post
3. Minimum 4x6 post for 36' building width and 3-2x12 member.

RAFTER TIE CONNECTION ROOF LIVE LOAD 20-psf [Table R802.5.1(9)] Minimum number of 16d common nails at rafter tie connection.					
Rafter Slope	Tie Spacing (in)	Roof Span (ft)			
		12	20	28	36
3:12	16	5	8	10	13
	24	7	11	15	19
4:12	16	4	6	8	10
	24	5	8	12	15
5:12	16	3	5	6	8
	24	4	7	9	12

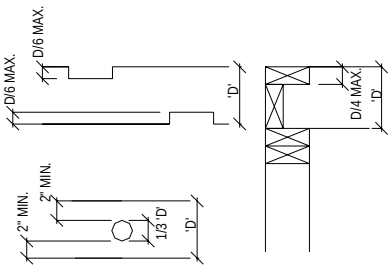
1. When nails are clinched, nailing may be reduced 25percent.
2. Roof span is measured between exterior walls or between exterior wall and roof purlin when interior bearing wall is used

ALLOWABLE SPANS AND LOADS FOR WOOD STRUCTURAL PANEL SHEATHING AND SINGLE-FLOOR GRADES CONTINUOUS OVER TWO OR MORE SPANS WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS NOTE: APPLIES TO PANELS 24" OR WIDER (T-R503.2.1.1(1))						
SHEATHING GRADES		ROOF				FLOOR
PANEL SPAN RATING Roof/Floor Span	MINIMUM PANEL THICKNESS (INCHES)	MAXIMUM SPAN (INCHES)		LOADS (PSF)		MAX. SPAN (INCHES)
		EDGE SUPPORT	NO EDGE SUPPORT	TOTAL LOAD	LIVE LOAD	Panel edges with tongue and groove joints or with blocking
24/0	3/8	24	20	40	30	
24/16	7/16	24	24	50	40	16
32/16	15/32, 1/2	32	28	40	30	16
40/20	19/32, 5/8	40	32	40	30	20
48/24	23/32, 3/4	48	36	45	35	24

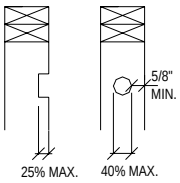
CONNECTION	FASTENING	REMARKS
Roof		
Blocking between joists or rafters to top plate	3-8d (2-1/2" x 0.113")	Toe nail
Ceiling joist to plate	3-8d (2-1/2" x 0.113")	Toe nail
Ceiling Joist not attached to parallel rafter, laps over partitions	3-10d (3" x 0.128")	Toe nail
Collar tie rafter, face nail or 20-gage ridge strap	3-10d (3" x 0.128")	
Rafter to plate	2-16d (3-1/2" x 0.135")	Toe nail
Roof rafters to ridge, valley or hip rafters: Toe nail Face nail	 4-16d (3-1/1" x 0.135") 3-16d (3-1/2 "x 0.135")	
Wall		
Built-up corner studs	10d (3" x 0.128")	24" o.c.
Built-up header two pieces with ½" spacer	16d (3-1/1" x 0.135")	16" o.c. along each edge
Continued Header two pieces	16d (3-1/1" x 0.135")	16" o.c. along each edge
Continuous header to stud	4-8d (2-1/2" x 0.113")	Toe nail
Double Studs	10d (3" x 0.128")	24" o.c.
Double top plates	10d (3" x 0.128")	24" o.c. face nail
Double top plates, minimum 24-inch offset of end joints, face nail in lapped area	8-16d (3-1/1" x 0.135")	Face nail
Sole plate to joist or blocking	16d (3-1/1" x 0.135")	16" o.c. Face nail
Sole plate to joist or blocking at braced wall panels	3-16d (3-1/1" x 0.135")	16" o.c.
Stud to sole plate	3-8d (2-1/2" x 0.113") or 2-16d (3-1/2 "x 0.135")	Toe nail
Top or sole plate to stud	2-16d (3-1/2 "x 0.135")	End nail
Top plates, lap at corners and intersections	2-10d (3" x 0.128")	Face nail
Floor		
Joist to sill or girder	3-8d (2-1/2" x 0.113")	Toenail
Rim Joist to top plate (roof application also)	8d (2-1/2" x 0.113")	6" o.c.
Built-up girders and beams, 2-inch lumber layers	10d (3" x 0.128")	Nail each layer as follows: 32" o.c. at top and bottoms and staggered. Two nails at ends and at each splice
Ledger strip supporting joists or rafters	3-16d (3-1/2 "x 0.135")	At each joist or rafter



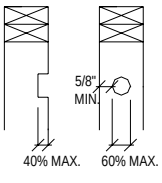
NOTCHING & BORING FLOOR JOIST
(NOTCHING NOT PERMITTED IN MIDDLE 1/3 JOIST SPAN)



NOTCHING & BORING RAFTERS AND CEILING JOIST
(NOTCHING NOT PERMITTED IN MIDDLE 1/3 JOIST SPAN)
(HOLES SHALL NOT BE LOCATED WITHIN 2 IN OF A NOTCH)

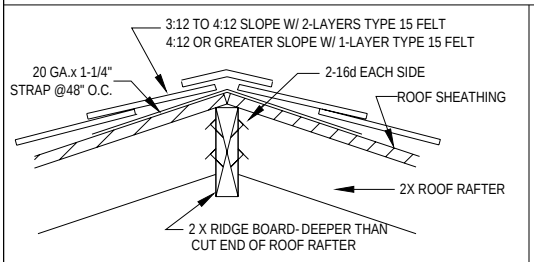


EXTERIOR WALLS AND
BEARING PARTITIONS

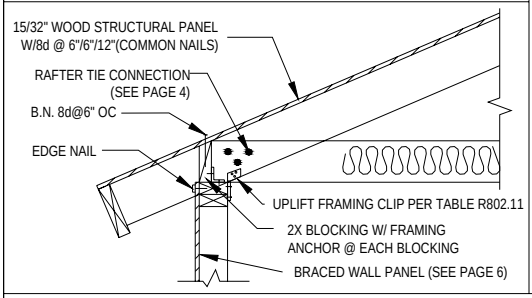


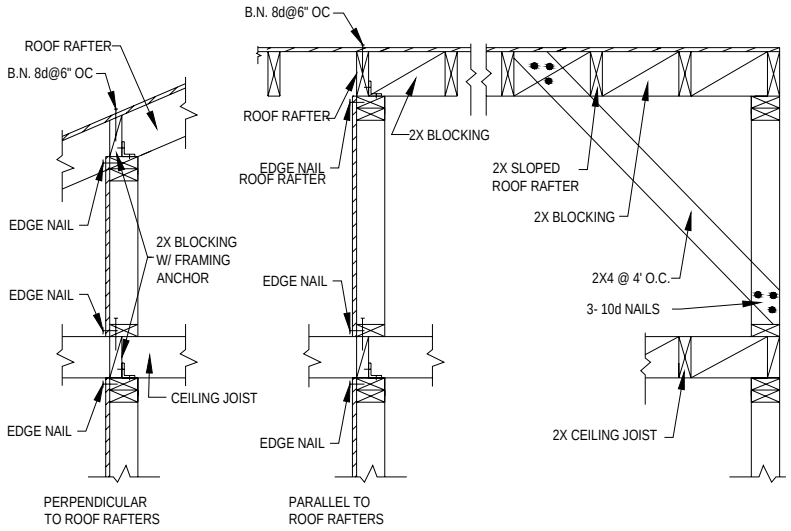
NON-BEARING PARTITIONS

EXTERIOR WALLS AND BEARING WALLS MAY HAVE BORED HOLES BETWEEN 40 AND 60 PERCENT WHEN STUD IS DOUBLED AND NOT MORE THAN TWO SUCCESSIVE DOUBLE STUDS ARE BORED (R502.1, R802.7.1 R602.6)



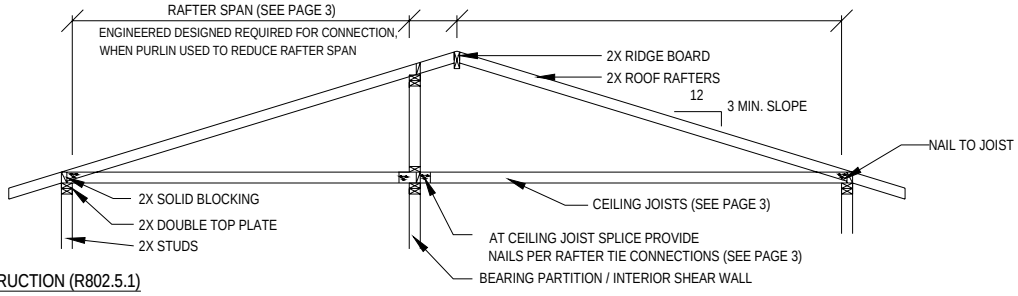
ROOF SLOPE-COMP SHINGLES (R905.2) RIDGE (R802.3) NAILS (TABLE R602.3(1))



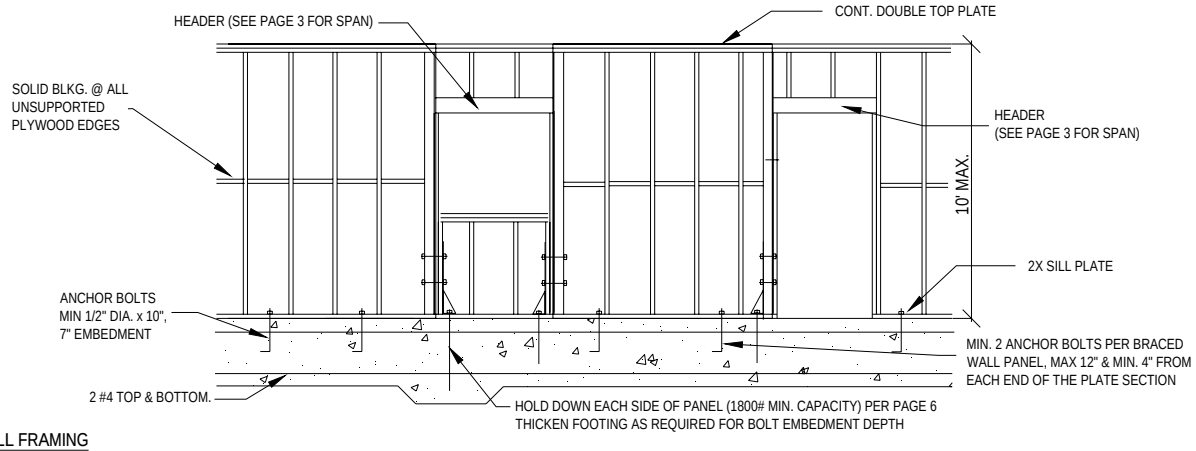


INTERIOR SHEAR WALL AT ATTIC

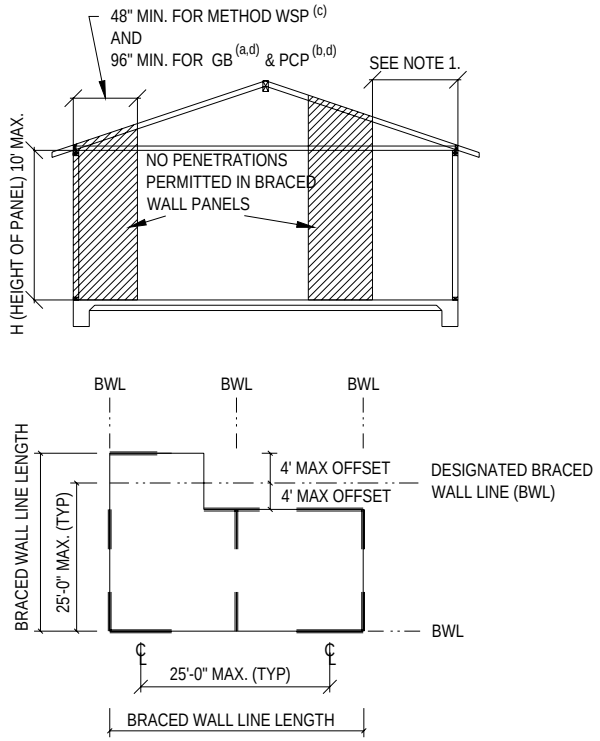
GABLE SUPPORT



BRACED RAFTER CONSTRUCTION (R802.5.1)



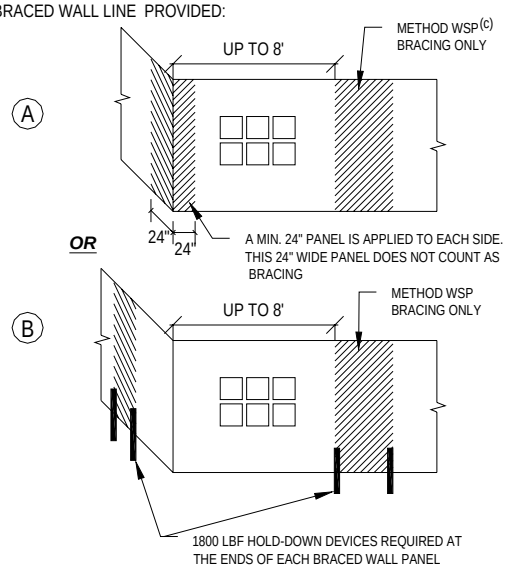
WALL FRAMING



BRACED WALL PANEL REQUIREMENTS

NOTES:

1. BRACED WALL LINES AT EXTERIOR WALLS SHALL HAVE A BRACED WALL PANEL LOCATED AT EACH END OF THE BRACED WALL LINE.
   ***EXCEPTION*:** FOR METHOD WSP (c) , THE BRACED WALL PANEL SHALL BE PERMITTED TO BEGIN NO MORE THAN 8 FEET FROM EACH END OF THE BRACED WALL LINE PROVIDED:



2. MIXING BRACING METHODS WITHIN A BRACED WALL LINE IS NOT PERMITTED.
3. INTERIOR BRACE WALL PANEL SHALL BE LOCATED NOT MORE THAN 12.5-FT FROM THE END OF A BRACED WALL LINE AND THE TOTAL COMBINED DISTANCE FROM EACH END SHALL NOT EXCEED 12.5 FT AS DEMONSTRATED IN FIGURE R602.10.1.4(2) OF THE LARC
4. HOLD-DOWN DEVICE SHALL BE APPROVED BY CURRENT LOS ANGELES CITY RESEARCH REPORT.

BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY

Roof/Ceiling Dead Load = 15-psf Wall Height = 10-ft Floor Dead Load = 10-psf Braced Wall Line Spacing = 25-ft			Minimum Total Length of Braced Wall Panels Required Along each Braced Wall Line (ft)	
Seismic Design Category (SDC)	Story Location	Braced Wall Line Length	Methods GB [a, d] and PCP [b, d]	Method WSP [c]
SDC D_2		10	8	4
		20	16	5
		30	24	7.5
		40	32	10
		50	40	12.5

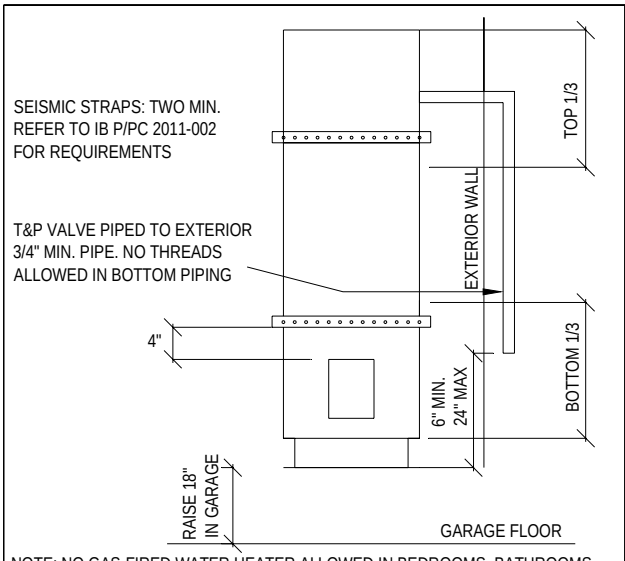
(a). Method GB (Gypsum Board) = ½-in. minimum thickness gypsum board with 1-1/2-in. galvanized roofing nail, or 1-1/4-in. screws, Type W or S. for exterior sheathing, or 5d cooler nail, 0.086-in. diameter, 1-5/8-in. long, 15/64-in head for interior gypsum board. Maximum fastener spacing shall be 7-in. o.c. at panel edges, including top and bottom plates, and along intermediate supports. When method GB panels are applied to only one face of a braced wall panel, the minimum total length in the table shall be doubled.

(b). Method PCP (Portland Cement Plaster) = 7/8-in. minimum thickness Portland cement plaster with 1-1/2-in., 11-gage, 7/16-in. head nails at 6-in. spacing (16-in stud spacing required). ½-in. minimum gypsum wallboard shall be installed on the side of the wall opposite the bracing material, except when the minimum total length of braced wall panel in the Table is multiplied by a factor of 1.5.

(c). Method WSP (Wood Structural Panel) = 15/32-in. minimum thickness wood structural panel with 8d common (2-1/2-in x 0.131-in.) nails at 6-in. spacing along panel edges, 12-in. spacing at intermediate supports, and 3/8-in. distance to panel edge. ½-in. minimum thickness gypsum wall board shall be installed on the side of the wall opposite the bracing material, except when the minimum total length of braced wall panel in the Table is multiplied by a factor of 1.5.

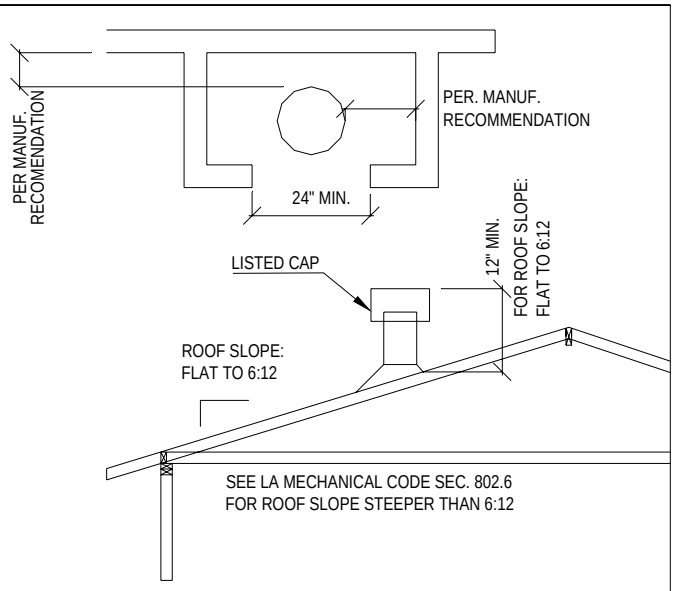
(d). Method GB and PCP braced wall panel height to width ratio (h/w) shall not exceed 1:1.

(e). Multiply required braced wall panel lengths specified in the table by 1.32 when combined Roof Ceiling Dead load is between 15 psf and 25 psf.

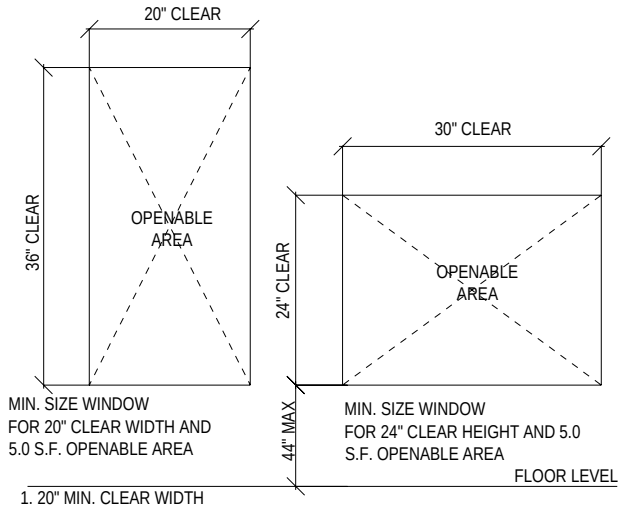


NOTE: NO GAS-FIRED WATER HEATER ALLOWED IN BEDROOMS, BATHROOMS, CLOTHES CLOSETS, OR ANY SPACE OPENING INTO A BEDROOM OR BATHROOM.

WATER HEATERS

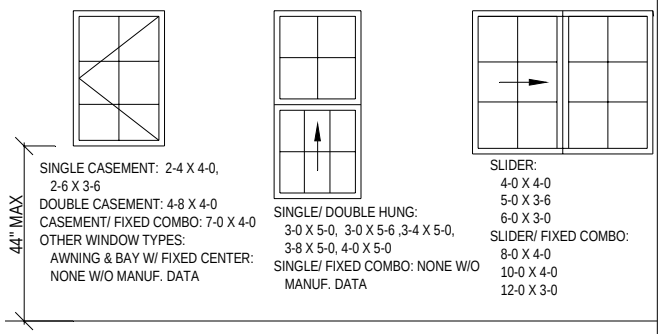


WATER HEATER VENT AND ACCESS REQUIREMENTS



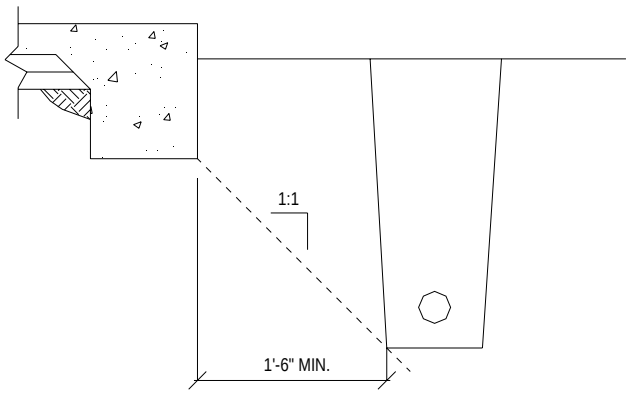
1. 20" MIN. CLEAR WIDTH
2. 24" MIN. CLEAR HEIGHT
3. 5.0 SF MIN. OPENABLE AREA AT GRADE-FLOOR ONLY, 5.7 SF MIN. ELSEWHERE.

THE FOLLOWING WINDOW SIZES WILL BE THE MINIMUM ALLOWED FOR 5.0 SF.

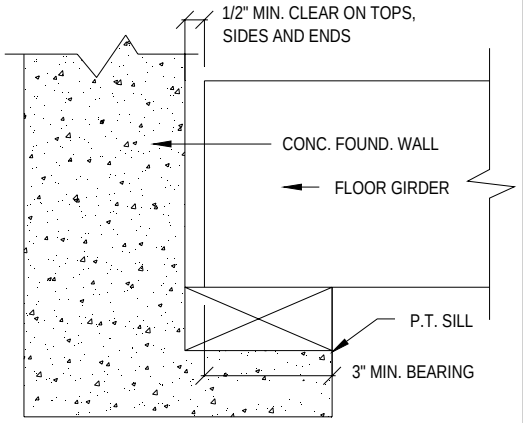


NOTE: SIZES ARE TAKEN FROM DATA SUPPLIED BY WINDOW MANUFACTURERS. HOWEVER, THESE ARE GENERAL DIMENSIONS AND MUST BE VERIFIED WITH ACTUAL WINDOWS INSTALLED TO MEET MINIMUM EGRESS REQUIREMENTS.

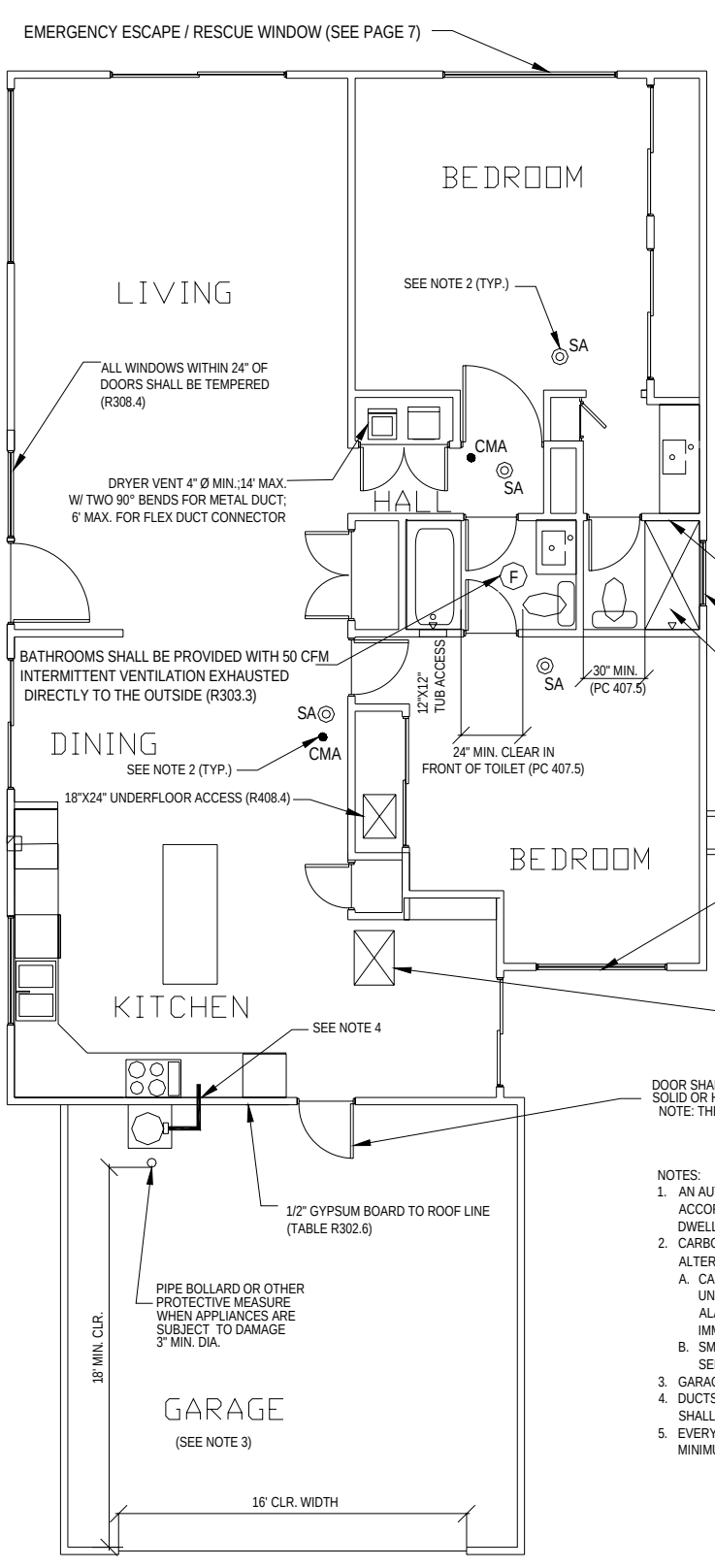
EMERGENCY ESCAPE/ RESCUE OPENING (R310)



TRENCHES AT FOOTINGS



GIRDER (R317.1 / R502.6)



MINIMUM ROOM DIMENSIONS: (R304 & R305)

1. AT LEAST ONE HABITABLE ROOM SHALL HAVE NOT LESS THAN 120 SF. AND OTHER HABITABLE ROOMS SHALL HAVE A FLOOR AREA OF NOT LESS THAN 70 SF.
2. HABITABLE ROOMS SHALL NOT BE LESS THAN 7 FT. IN ANY HORIZONTAL DIMENSION.
3. HABITABLE SPACE, HALLWAYS, BATHROOMS, TOILET ROOMS, AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FT.

LIGHT: (R303) ALL ROOMS REQUIRE NATURAL LIGHT BY MEANS OF EXTERIOR WINDOWS OR SKYLIGHTS MIN. 8% OF THE FLOOR AREA OF THE ROOM.

VENTILATION: (R303) ALL ROOMS REQUIRE NATURAL VENTILATION BY MEANS OF OPENABLE WINDOWS MIN. 4% OF THE FLOOR AREA OF THE ROOM. BATHROOMS, WATER CLOSET COMPARTMENTS AND SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREA IN WINDOWS OF NOT LESS THAN 3 SQ. FT. ONE HALF OF WHICH MUST BE OPENABLE WHEN MECHANICAL VENTILATION IS NOT PROVIDED.

UNDER-FLOOR SPACES SHALL BE VENTILATED BY OPENINGS INTO THE UNDER-FLOOR SPACE EXTERIOR WALLS. SUCH OPENINGS SHALL HAVE A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER-FLOOR AREA. ONE VENTILATION OPENINGS SHALL BE LOCATED WITHIN 3-FT. OF EACH CORNER OF THE BUILDING AND PROVIDE CROSS VENTILATION. VENTILATION OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT MESH W/ LEAST DIMENSION NOT EXCEEDING 1/4".

THE NET FREE VENTILATING AREA OF ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED, EXCEPT THAT REDUCTION OF TOTAL THE AREA TO 1/300 IS PERMITTED PROVIDED THAT AT LEAST 50% AND NOT MORE THAN 80% OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3-FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. AS AN ALTERNATIVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR CLASS II VAPOR BARRIER IS INSTALLED ON THE WARM-IN-WINTER SIDE OF THE CEILING. A MINIMUM OF 1-INCH CLEARANCE SHALL BE PROVIDED BETWEEN THE INSULATION AND ROOF SHEATHING.

6' HIGH NONABSORBENT SURFACE @ SHOWER WALLS (R307.2)

IF LESS THAN 60" ABOVE STANDING SURFACE (R308.4), WINDOWS AT SHOWERS & TUBS SHALL BE TEMPERED.

SHOWER DOORS SHALL SWING OUT. NET AREA OF SHOWER RECEPTOR SHALL BE MIN. 1024 SQ. IN. OF FLOOR AREA, AND ENCOMPASS 30 IN. Ø CIRCLE (PC 411.7)

16"X24" UNDERFLOOR ACCESS THROUGH A PERIMETER WALL (R408.4)

GLAZING SHALL MEET THE FOLLOWING:
U-FACTOR = 0.38 MAX, SHGC - 0.31 MAX. GLAZING AREA LIMITS:
20% MAX OF TOTAL FLOOR AREA.
5% MAX OF THAT CAN BE WEST FACING.
OTHERWISE PROVIDE TITLE 24 ENERGY CALCS.

22" X 30" ATTIC ACCESS, OR 30" X 30" IF FURNACE IS IN ATTIC. MIN HEADROOM OF 30". (R807.1, MC 904.11)

DOOR SHALL BE A SELF-CLOSING & SELF-LATCHING 1-3/8" THICK SOLID WOOD OR SOLID OR HONEYCOMB CORE STEEL DOOR OR 20-MIN. FIRE RATED DOOR. (R302.5.1)
NOTE: THE GARAGE SHALL NOT OPEN INTO A SLEEPING ROOM.

NOTES:

1. AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION R313.3 OR NFPA 13D FOR A NEW ONE- AND TWO-FAMILY DWELLING AND TOWNHOUSES. (R313)
2. CARBON MONOXIDE ALARMS (CMA) AND SMOKE ALARMS (SA) ARE REQUIRED FOR ALTERATIONS, REPAIRS OR ADDITIONS WHERE A PERMIT VALUATION EXCEEDS $1,000:
   A. CARBON MONOXIDE ALARMS SHALL BE PROVIDED IN EXISTING DWELLINGS OR SLEEPING UNITS THAT HAVE ATTACHED GARAGES OR FUEL-BURNING APPLIANCES. LOCATE SUCH ALARMS OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM(S).
   B. SMOKE ALARMS SHALL BE INSTALLED IN EACH SLEEPING ROOM AND OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM(S).
3. GARAGE FLOOR SURFACE SHALL BE OF APPROVED NON-COMBUSTIBLE MATERIAL. (R309)
4. DUCTS PENETRATING WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MIN. 26 GAGE SHEET STEEL OR APPROVED MATERIAL.(R302.5)
5. EVERY INTERIOR DOOR IN A DOORWAY THROUGH WHICH OCCUPANTS PASS SHALL HAVE A MINIMUM WIDTH OF 32"

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