ROLANDO SOSA, ARCHITECT
FL LICENSE: AR 96264

Rolando Sosa
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TABLE R302.6
DWELLING-GARAGE SEPARATION

SEPARATION	MATERIAL
From the residence and attics	Not less than 1/2-inch gypsum board or equivalent applied to the garage side
From habitable rooms above the garage	Not less than 5/8-inch Type X gypsum board or equivalent
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less than 1/2-inch gypsum board or equivalent
Garages located less than 3 feet from a dwelling unit on the same lot	Not less than 1/2-inch gypsum board or equivalent applied to the interior side of exterior walls that are within this area

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

TABLE R301.2(4) NOMINAL (ASD) GARAGE DOOR WIND LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (PSF) [1, 2, 3, 4, 5]

Door Size		ULTIMATE DESIGN WIND SPEED (V_{ult}) DETERMINED IN ACCORDANCE WITH SECTION R301.2.1 (MPH-3 SECOND GUST)											
Width (ft)	Height (ft)	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph	190 mph	200 mph	
9	7	+10.0 -10.9	+11.4 -12.9	+13.7 -15.5	+16.1 -18.2	+18.5 -20.9	+21.3 -24.1	+24.3 -27.5	+27.6 -31.2	+30.6 -34.6	+34.2 -38.6	+38.0 -43.0	
16	7	+10.0 -10.3	+10.9 -12.2	+13.1 -14.6	+15.5 -17.2	+17.7 -19.7	+20.4 -22.7	+23.3 -26.0	+26.4 -29.4	+29.3 -32.6	+32.7 -36.5	+36.4 -40.6	
78 mph		85 mph	93 mph	101 mph	108 mph	116 mph	124 mph		132 mph	139 mph	147 mph	155 mph	
Nominal Design Wind Speed (V_{asd}) converted from V_{ult} per Section R301.2.1.3													

For SI: 1 foot = 304.8 mm, 1 mile per hour = 1.609 km/h, 1 psf = 47.88 N/m^2

1. For door sizes or wind speeds between those given above the load may be interpolated, otherwise use the load associated with the lower door size.
2. Table values shall be adjusted for height and exposure by multiplying by the adjustment coefficient in Table R301.2(3). Minimum positive wind load shall be 10 psf and minimum negative wind load shall be 10 psf.
3. Plus and minus signs signify pressures acting toward and away from the building surfaces.
4. Negative pressures assume door has 2 feet of width in building's end zone.
5. Table values include the 0.6 load reduction factor.

NOTES:

R302.5.1OPENING PROTECTION.
OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 13/8 INCHES (35 MM) IN THICKNESS, SOLID OR HONEYCOMBCORE STEEL DOORS NOT LESS THAN 13/8 INCHES (35 MM) THICK, OR 20-MINUTE FIRE-RATED DOORS.

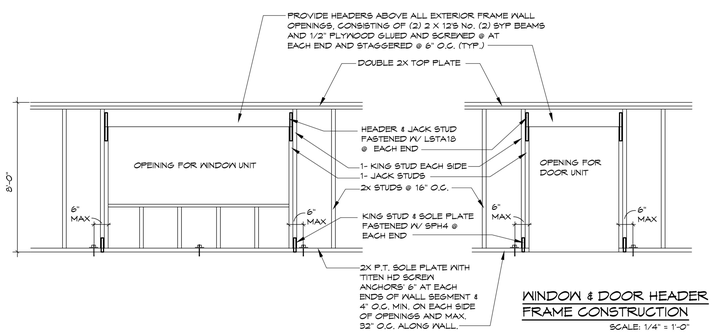
R302.5.2DUCT PENETRATION.
DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE (0.48 MM) SHEET STEEL, 1 INCH (25.4 MM) MINIMUM RIGID NONMETALLIC CLASS 0 OR CLASS 1 DUCT BOARD, OR OTHER APPROVED MATERIAL AND SHALL NOT HAVE OPENINGS INTO THE GARAGE.

R302.5.3OTHER PENETRATIONS.
PENETRATIONS THROUGH THE SEPARATION REQUIRED IN SECTION R302.6 SHALL BE PROTECTED AS REQUIRED BY SECTION R302.11, ITEM 4.

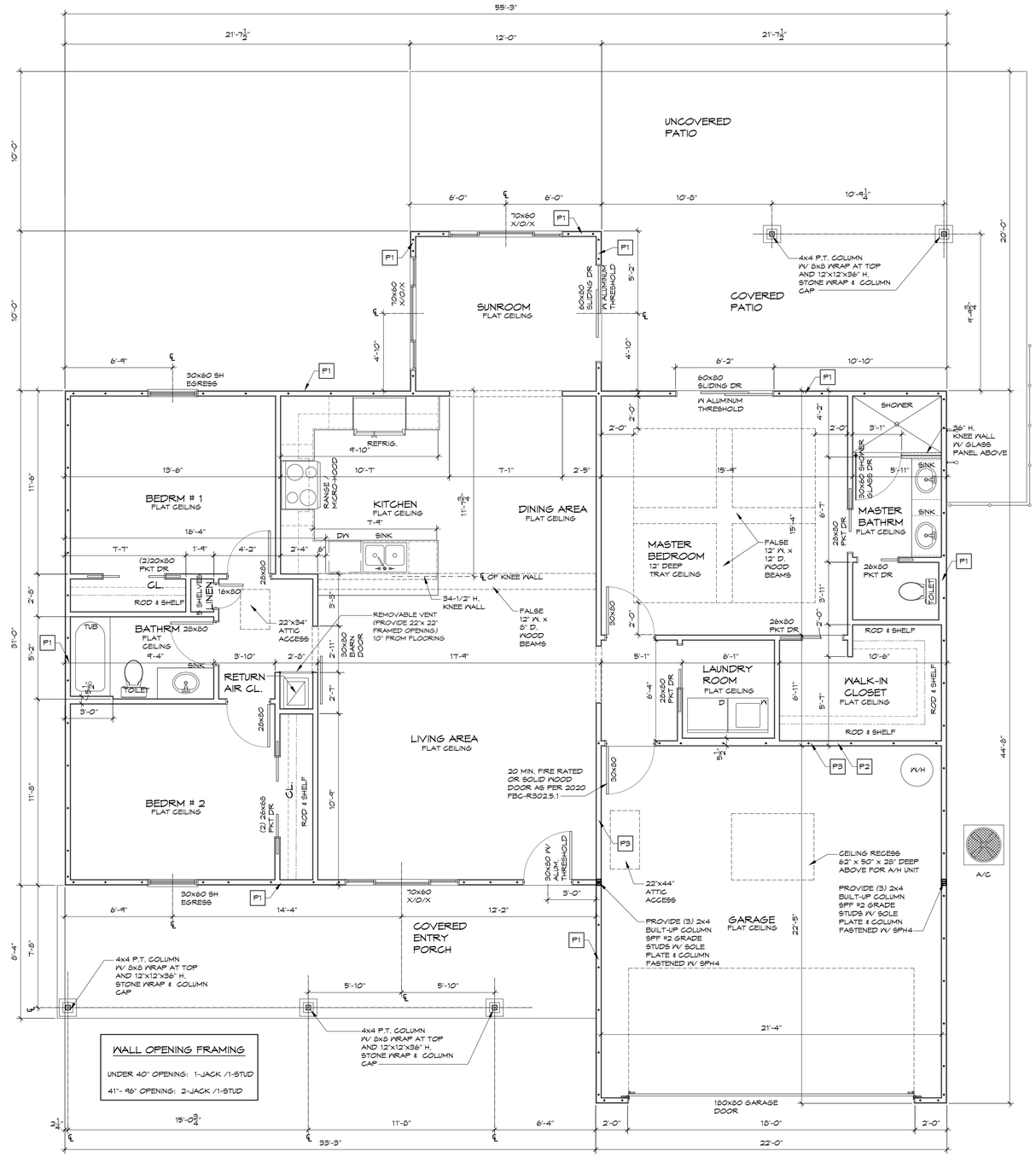
R302.6DWELLING-GARAGE FIRE SEPARATION.
THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6.
OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5.
ATTACHMENT OF GYPSUM BOARD SHALL COMPLY WITH TABLE R702.3.5. THE WALL SEPARATION PROVISIONS OF TABLE R302.6 SHALL NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT DWELLING UNIT WALL.

FIRE SEPERATION- GARAGE TO DWELLING:

1. 1/2" DRYWALL ON GARAGE SEPERATION WALLS.
2. 1/2" DRYWALL ON GARAGE CEILING. 5/8" TYPE 'X' DRYWALL OR EQUIVALENT SHALL BE APPLIED TO GARAGE CEILING SEPARATING HABITABLE SPACE ABOVE THE GARAGE.
3. SOLID WOOD DOOR, HONEY COMB CORE DOOR, OR STEEL DOOR NOT LESS THAN 1 3/8" THICKNESS OR 20 MIN. FIRE RATED DOOR.
4. ATTIC ACCESS W/ 1/2" DRYWALL ON GARAGE SIDE AND AIR TIGHT SEAL.
5. DUCT IN GARAGE OR DUCTS PENETRATING THE WALLS OR CEILING SEPERATING THE DWELLING FROM THE GARAGE SHALL BE MIN. 1" THICK NON METALLIC GLASS O OR GLASS 1 DUCT BOARD.



WINDOW & DOOR HEADER FRAME CONSTRUCTION
SCALE: 1/4" = 1'-0"



WALL OPENING FRAMING

UNDER 40" OPENING: 1-JACK /1-STUD

41"- 96" OPENING: 2-JACK /1-STUD

FLOOR PLAN
SCALE: 1/4" = 1'-0"

SQ. FT. DATA

LIVING AREA	1,644 SQ. FT.
GARAGE	490 SQ. FT.
COVERED ENTRY	266 SQ. FT.
COVERED BACK PATIO	216 SQ. FT.
UNCOVERED BACK PATIO	472 SQ. FT.
TOTAL	3,088 SQ. FT.

LEGEND

NOTE: SEE WALL SECTIONS FOR MORE INFORMATION

P1 — WALL SYMBOL

WALL TYPES

P1 — EXTERIOR PARTITION WALL:
- 2x4 OR 6 WOOD STUDS FRAMED WALL W/ 1/2" SHEETHING FASTENED W/ 8(d) AT 6" O.C. ON EDGES & 12" O.C. INFIELD AND 1/2" GYP. BD. W/ LIGHT ORANGE PEEL TEXTURE PAINTED ON INSIDE OF 2X4 WOOD STUD @ 16" O.C. W/ (DOUBLE) 2X4 TOP PLATE AND (P.T.) 2X4 BASE PLATE SECURED TO SLAB W/ TITEN HD SCREW ANCHORS

P2 — INTERIOR PARTITION WALL: (LOAD BEARING)
-CONSISTING OF 5/8" GYPSUM BOARD W/ LIGHT ORANGE PEEL TEXTURE PAINTED ON EACH SIDE OF 2x_ WOOD STUDS AT 16" O.C. W/ BLOCKING AT 3RD POINTS OF WALL HEIGHT AND DOUBLE 2 X _ TOP PLATES AND (1) 2 X _ P.T. BOTTOM PLATE SECURED TO SLAB W/ TITEN HD HEAVY DUTY SCREW ANCHORS & ROUND CUT WASHER OR PLATE WASHER @ 32" O.C. (MAX.) TYPICAL TO CONC. SLAB. (MAX. HEIGHT 12'-0)

P3 — FIRE SEPARATION WALL: GARAGE TO DWELLING
- 1/2" TYPE _'G' GYPSUM BOARD ON EACH SIDE OF 2 X _ WOOD STUD @ 16" O.C. W/ 2X _ TOP PLATE AND P.T. 2X _ BOTTOM PLATE SECURED TO SLAB WITH R-13 KRAFT FACED FIBERGLASS BATT INSULATION.

INTERIOR PARTITION WALL (NON LOAD BEARING):
- CONSISTING OF 1/2" GYP. BD. W/ LIGHT ORANGE PEEL TEXTURE PAINTED ON EACH SIDE OF 2x_ WOOD STUDS AT 16" O.C. W/ 2x_ TOP PLATES AND P.T. 2x_ BASE PLATE SECURED TO FLOOR .

INTERIOR PARTITION WALL (LOAD BEARING):
- INDICATES TITEN HD SCREW ANCHORS' 6" AT EACH ENDS OF WALL SEGMENT & 4" O.C. MIN. ON EACH SIDE OF OPENINGS AND MAX. 32" O.C. ALONG WALL.

WINDOW SCHEDULE
Wood Frame Walls
3500 Series: Aluminum or Vinyl Single Hung Windows
(Can be substituted with equal window by other manufacturer)

Quantity	Type	Size
2	3060	71-3/4 x 72-1/2
2	3050	71-3/4 x 60-1/2
2	3044	71-3/4 x 52-1/2
2	3030	71-3/4 x 36-1/2
2	3024	71-3/4 x 28-1/2
1	3060	36-1/4 x 72-1/2
1	3050	36-1/4 x 60-1/2
1	3044	36-1/4 x 52-1/2
1	3030	36-1/4 x 36-1/2
1	3024	36-1/4 x 28-1/2
1	2060	24-1/4 x 72-1/2
1	2050	24-1/4 x 60-1/2
1	2044	24-1/4 x 36-1/2
1	2030	24-1/4 x 28-1/2
1	2024	24-1/4 x 28-1/2

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