

**APPENDIX D
HRC DESIGN CHECKLIST**

[The information contained in this Appendix D is not part of this American National Standard (ANSI) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Appendix D may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to this standard.]

Building Occupancy Type: _____
 Building Name: _____
 Address: _____

GENERAL WIND DESIGN REQUIREMENTS

104.3 DESIGN WIND SPEED, mph (3-sec gust) Wind Speed = -MPH (3 SEC GUST)
 104.4 EXPOSURE CATEGORY A B C D
 Wind Borne Debris Region: Yes Not Applicable
 Enclosure Classification: Open Partially Enclosed Enclosed Multiple Enclosure Classifications

CHECKLIST FOR BUILDINGS WITH WOOD-FRAMED EXTERIOR WALLS

102.1 BUILDING GEOMETRY
 Number of Stories
 Maximum number of stories allowed
 Building Width (12 ft - 60 ft 1 story, 18 - 60, 2 story) W =
 Building Length L =
 Length to Width Ratio (L/W) L/W =
 Maximum L/W allowed Max L/W =
 Minimum L/W allowed Min L/W =
 Building Height no greater than 30 ft maximum eave ht H = Yes No ----
 Ceiling Height no greater than 10 ft maximum Yes No ----
 Complies with limitations in Roof Type (Gable or Hip) Yes No ----
 Roof Pitch between 2:12 7:12 Yes No ----
 Roof Overhang at Sidewalls no greater than 4 ft maximum Yes No ----
 Rake Overhang at Gable Endwalls no greater than 12 in maximum Yes No ----

102.2 FOUNDATION TYPE (Check appropriate type):
 1. Stemwall Foundation w/Slab-On-Grade (3 ft high max)
 2. Stemwall Foundation w/Crawl Space (3 ft high max)
 3. Monolithic Slab-On-Grade
 4. Pile Foundation (requires engineering design)

105 NONRECTANGULAR BUILDINGS (Add Leg Dimensions)
 Number of Stories
 Maximum number of stories allowed
 Building Width (12 ft - 60 ft 1 story, 18 - 60, 2 story) W =
 Building Length L =
 Length to Width Ratio (L/W) L/W =
 Maximum L/W allowed Max L/W =
 Minimum L/W allowed Min L/W =
 Building Height no greater than 30 ft maximum eave ht H = Yes No ---
 Ceiling Height no greater than 20 ft maximum Yes No ---
 Complies with limitations in Roof Type (Gable or Hip) Yes No ---
 Roof Pitch between 2:12 - 7:12 Yes No ---
 Roof Overhang at Sidewalls no greater than 4 ft maximum Yes No ---
 Rake Overhang at Gable Endwalls no greater than 12 in maximum Yes No ---

302.1 FASTENERS AND CONNECTORS

	Corrosion Protection for Fasteners and Connectors.....	Yes	No	---
	1. Exposed to weather (stainless steel or hot dipped galv.).....	Yes	No	N/A
	2. Coastal area, salt air exposure (stainless steel or hot dipped galv.).....	Yes	No	N/A
303	FOOTINGS AND FOUNDATIONS			
303.1	MATERIALS			
	Concrete Masonry Units (ASTM C90 or C145, 1900 psi min.)	Yes	No	N/A
	Clay Masonry Units (ASTM C62, C216, or C52, 4400 psi min.)	Yes	No	N/A
	Mortar (Type M or S, ASTM C 270)	Yes	No	N/A
	Grout (3/8 in max. aggregate, 8-11 in slump, 2000 psi or ASTM C476).....	Yes	No	N/A
	Concrete (2500 psi minimum compressive strength)..... PSI = _____	Yes	No	N/A
	Reinforcing Steel (Grade 40 minimum).....ASTM A _____	-----	Grade	-----
	Corrosion Protection for Metal Accessories (galvanized)	Yes	No	N/A
303.2	STEMWALL FOUNDATION (min. 20 in wide x 10 in thick, w/2 #5)			
	Fig. 303A 8x8 bond beam w/1 #5 @ floor level			
	Fig. 303B Vertical reinf: #5 @ 4 ft o.c., w/90° hook, 25 in lap.....	T-----	W-----	-----
	Clay brick and hollow cmu (Fig. 303D1, D2 and D3)	T-----	W-----	-----
	Floor anchorage: 2x6 sill w/ 5/8-in anchor bolts spaced per 303.2.3.....	T-----	W-----	-----
303.3	MONOLITHIC SLAB-ON-GRADE			
	Monolithic Slab-On-Grade—Exterior w/2 #5 (T=20 in, W=12 @ 1 story, W=16 @ 2 story)	Yes	No	N/A
	Monolithic Slab-On-Grade—Interior w/2 #5 (T=W/2, W=12 @ 1 story, W=16 @ 2 story)	Yes	No	N/A
	Wall anchorage: 2 x sill w/ 5/8-in anchor bolts spaced per 303.3.2.....	Yes	No	N/A
303.4	WOOD PILES			
	Piles and girders designed by registered design professional.....	Yes	No	N/A
	Structural loads/connections designed for Table 303G loads.....	Yes	No	N/A
304	FLOOR SYSTEMS			
304.1	CONCRETE FLOORS			
	Suspended Concrete Slabs (hollowcore per manuf. Design)	Yes	No	N/A
	Monolithic Slab-On-Grade (3 1/2 inch thick min., 8 in above finish grade, double WWF @ perimeter.....	Yes	No	N/A
304.2	WOOD FLOORS			
	Floor Joists (sized per AF&PA span tables).....	Yes	No	N/A
	Floor Trusses (designed per TPI spec).....	Yes	No	N/A
	Floor Sheathing (7/16-inch wood structural panel)	Yes	No	N/A
	Floor Sheathing Spans (per Table 2307.6B of SBC)	Yes	No	N/A
	Bracing (4 ft o.c. first two framing spaces each end of floor	Yes	No	N/A
	Uplift connectors where wall framing connected to floor.....	Yes	No	N/A
	Sheathing fasteners (2306 SBC)	Yes	No	N/A
	Floor Diaphragm requirements (Tables 304B1 and 304B2)	-----	-----	plf
	Shear capacities for diaphragm assemblies (Tables 304C1 and 304C2).....	-----	-----	plf
	Diaphragm nailing requirements (Tables 304C1 and 304C2).....	-----	and	-----
305	WOOD-FRAMED WALL SYSTEMS			
305.2	EXTERIOR WALL FRAMING			
	Exterior loadbearing studs			
				Stud length = -----
				Stud spacing = -----
				Stud size = ----- X -----
				Min. Bending stress (Table 305B1), F_b = -----
	From Table 305A, required species = _____, grade = -----			
	Exterior non-loadbearing studs	Yes	No	N/A
				Stud length = -----
				Stud spacing = -----
				Stud size = ----- X -----
				Min. Bending stress (Table 305B2), F_b = -----
	From Table 305A , required species = _____, grade = -----			

Gable End Walls:

Full height studs (balloon framing) per Fig. 305J.....	Yes	No	N/A
Studs stop at top plate (platform framing) supported per Fig. 305K.....	Yes	No	N/A

Headers (sized per IRC 2308.3):

From Table 305C.....	Unsupported wall height =
(Repeat for each header span)	Stud spacing =
	Header span =
	No. Of header studs supporting end of header =
	No. Of full-length studs each end of header =
	Uplift connectors provided (Figs. 305D, 305E)

305.3 CONNECTIONS FOR EXTERIOR WALL FRAMING

Framing members connected per IRC plus Table 305F1 and 305F2:

Uplift load at sidewalls.....	Bldg. Width =
	Stud spacing =
	Roof, ceiling dead load =
	Uplift load =
Uplift load at endwall	Stud spacing =
	Uplift load =

If wood structural panel sheathing used for uplift, go to 305.6.....

305.3.7 Top plate lap splice, wall supporting roof only.....

No. Of 16d nails each side of joint (Table 305L1) =	Yes	No	N/A
No. Of 1/2-inch bolts each side of joint (Table 305L2) =	Yes	No	N/A

CHECKLIST FOR BUILDINGS WITH WOOD-FRAMED EXTERIOR WALLS

305.4 EXTERIOR SHEARWALLS

Required shearwall capacity, Type I walls (Tables 305P1 and 305P2)	-----	-----	plf
Required shearwall capacity, Type II walls (Tables 305P1, 305P2, and 305P3)	-----	-----	plf
Shear capacities for shearwall (Tables 305N1 and 305N2)			
Shearwall attachment required (Tables 305N1 and 305N2)		and	-----
Maximum distance between shearwalls = 120 ft	Yes	No	N/A
Minimum shearwall length = 30% of its height.....	Yes	No	N/A
Shearwall segments connected by drag strut (double top plate spliced in accordance with 305.3.7			
	No of 16d nails =		
	or No. Of 1/2" dia. Bolts =		
Shearwall openings: 12 inch max. dimension, 1 sq ft max. total			
Double studs each end each shearwall segment for Type I walls and at each end of Type II walls	Yes	No	N/A

305.5 INTERIOR SHEARWALLS

When used parallel to endwalls, can decrease length/width ratio

L = distance between shearwalls	New L/W =
Shearwall supported per Figures 305R1 – 305R4.....	-----

305.6 WOOD STRUCTURAL PANEL SHEATHING USED FOR UPLIFT RESISTANCE

Used for both shearwalls and uplift:

Nailing pattern required for shearwall from Table 305N.....	-----d @ -----and-----
Alternate nail spacing top and bottom edges.....	-----
	Uplift capacity (Table 305S1) =
	Required uplift capacity (Table 305F1, 305F2) =

Used for uplift only:

Nailing pattern top and bottom 3/8-inch panel edges	-----d @ -----
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305.7 HOLDDOWN CONNECTORS

Double stud and holddown at each end shearwall segment.....	Yes	No	N/A
Holddown design load FOR 10' HIGH WALL = 10 x shear capacity from Tables 305P1, 305P2, and 305P3 ..	-----	-----	lbs.

Holddown design load FOR 8' HIGH WALL = 8 x shear capacity from Tables 305P1, 305P2, and 305P3 lbs.

306 CEILING SYSTEMS

306.1	CEILING DIAPHRAGMS (required when endwall stops at ceiling)			
	Gypsum ceiling diaphragm (length 2 x bldg width)	Yes	No	N/A
	Gypsum ceiling diaphragm at endwall, Figure 305K, 306H	Yes	No	N/A
	Wood structural panel ceiling diaphragm, Table 306A, Figure 306B	Yes	No	N/A
	Wood structural panel ceiling diaphragm at endwall, Figure 306C	Yes	No	N/A
	Wood structural panel ceiling diaphragm at sidewall, Figure 306D	Yes	No	N/A
306.4	Ceiling diaphragm alternates (Tables 306E and 306G)	Yes	No	N/A

307 ROOF SYSTEMS

307.1 RAFTER-JOIST FRAMING SYSTEMS

	Rafters: sized per AF&PA span tables (24 in o.c. max)	Yes	No	N/A
	Ridge Board: 2 x min. cut depth of rafter	Yes	No	N/A
	Collar Beam: 1 x 6 every third rafter pair	Yes	No	N/A
	Uplift connectors at rafter bearing (Table 307A) plus Appendix E fasteners	Yes	No	N/A

307.2 TRUSS FRAMING SYSTEMS

	Truss design per TPI spec	Yes	No	N/A
	Designs to indicate wind speed, height and uplift	Yes	No	N/A
	Maximum truss spacing at 24 inches	Yes	No	N/A
	Girder trusses designed as drag struts	Yes	No	N/A
	Step-down hip system used for hip roof (Figure 307C, Table 307B)	Yes	No	N/A
	Uplift connectors at truss bearing (Table 307A) plus lateral load (307.2.6)	Yes	No	N/A
	Drag strut required capacity = strut span x diaphragm capacity in Tables 307H1 and 307H2	-----		

307.3 BRACING

	Add blocking at 4 ft o.c. 1 st 2 framing spaces if no ceiling diaphragms	Yes	No	N/A
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CHECKLIST FOR BUILDINGS WITH WOOD-FRAMED EXTERIOR WALLS

307.4 ROOF SHEATHING (Figure 307F and 307G)

	15/32 Exposure 1 wood structural panel	Yes	No	N/A
	Typical fasteners: 8d ring-shank	Yes	No	N/A
	8d ring shank in roof zone 3 and 110 mph, and with Group III lumber in 100 mph zone	Yes	No	N/A
	4-in nail spacing at gable endwall/gable truss	Yes	No	N/A
	12-in intermediate spacing in roof zone 1 and 90 mph	Yes	No	N/A
	12-in intermediate spacing using Group II lumber in 100 mph zone	Yes	No	N/A
	Alter as required for stronger diaphragm per 307.5	Yes	No	N/A

307.5 ROOF DIAPHRAGM

	Required Diaphragm capacity from Tables 307H1 and 307H2	Dia. Capacity = -----		
	Roof diaphragm selected (from Tables 304C1 and 304C2)	Yes	No	N/A
	Diaphragm nailing requirements: 307.4.3 and Tables 304C1 and 304C2	-----	and	-----

308 OPEN STRUCTURES

308.1 GENERAL [type per 102.1(6)]

	Unenclosed attached (3 sides open)	Yes	No	N/A
	Unenclosed portions of building (2 sides open)	Yes	No	N/A
	Open unattached (all sides open)	Yes	No	N/A

308.2 COLUMNS

	Supporting unenclosed attached structures (Table 308B)			
		Structure width = -----		
		Column spacing = -----		
		Column size = -----		
		Minimum F _b = -----		
	From Table 308A, required species = _____, grade = -----			
	Supporting unenclosed portions of building (Table 308C)			
		Structure width = -----		

Column spacing = -----
 Column size = -----
 Minimum F_b = -----
 From Table 308A, required species = _____, grade = -----
 Supporting open unattached structures (Table 308D) -----
 Structure width = -----
 Column spacing = -----
 Column size = -----
 Minimum F_b = -----
 From Table 308A, required species = _____, grade = -----

308.3 COLUMN EMBEDMENT

Minimum column embedment from Table 308E ----- Roof angle, degrees = -----
 Backfill material = -----
 Column size = -----
 Minimum embedment = -----

308.4 COLUMN CONNECTIONS

Provide uplift connectors per Table 308F plus Appendix E fasteners -----
 Building width = -----
 Column spacing = -----
 Min. Uplift load = -----

308.5 GIRDERS

Designed per SBC 2307.2 and AF&PA Wood Structural Design Data ----- Yes No N/A

308.6 ROOF SYSTEM

Designed per 307 ----- Yes No N/A

CHECKLIST FOR BUILDINGS WITH MASONRY EXTERIOR WALLS

102.1 BUILDING GEOMETRY

Number of Stories -----
 Maximum number of stories allowed -----
 Building Width (12 ft - 60 ft 1 story, 18 - 60, 2 story) ----- W = -----
 Building Length ----- L = -----
 Length to Width Ratio (L/W) ----- L/W = -----
 Maximum L/W allowed ----- Max L/W = -----
 Minimum L/W allowed ----- Min L/W = -----
 Building Height no greater than 30 ft maximum eave ht ----- H = Yes No
 Ceiling Height no greater than 10 ft maximum ----- Yes No
 Complies with limitations in Roof Type (Gable or Hip) ----- Yes No
 Roof Pitch between 2:12 - 7:12 ----- Yes No
 Roof Overhang at Sidewalls no greater than 4 ft maximum ----- Yes No
 Rake Overhang at Gable Endwalls no greater than 12 in maximum ----- Yes No

102.2 FOUNDATION TYPE (Check appropriate type):

1. Stemwall Foundation w/Slab-On-Grade (3 ft high max) -----
2. Stemwall Foundation w/Crawl Space (3 ft high max) -----
3. Monolithic Slab-On-Grade -----
4. Pile Foundation (requires engineering design) -----

105 NONRECTANGULAR BUILDINGS (Add Leg Dimensions)

Number of Stories -----
 Maximum number of stories allowed -----
 Building Width (12 ft - 60 ft 1 story, 18 - 60, 2 story) ----- W = -----
 Building Length ----- L = -----
 Length to Width Ratio (L/W) ----- L/W = -----
 Maximum L/W allowed ----- Max L/W = -----

	Minimum L/W allowed.....	Min L/W = -----		
	Building height no greater than 30 ft maximum eave ht.....	H =	Yes	No
	Ceiling Height no greater than 20 ft maximum.....		Yes	No
	Complies with limitations in Roof Type (Gable or Hip).....		Yes	No
	Roof Pitch between 2:12 - 7:12.....		Yes	No
	Roof Overhang at Sidewalls no greater than 4 ft maximum.....		Yes	No
	Rake Overhang at Gable Endwalls no greater than 12 in maximum.....		Yes	No
202.1	MATERIALS			
	Concrete Masonry Units (ASTM C90, 1900 psi min. Type M or S mortar, 2150 psi min. Type N mortar).....		Yes	No N/A
	Clay Masonry Units (ASTM C62, C216 or C652 H40V, 4400 psi min. Type M or S mortar, 5500 psi min. Type N mortar) minimum 6 in. thick.....		Yes	No N/A
	Mortar (Type M, S, or N, ASTM C270).....		Yes	No N/A
	Grout (3/8 in max. aggregate, 8-11 in slump, 2000 psi in accordance with ASTM C1019, or in accordance with ASTM C476.....		Yes	No N/A
	Concrete (2500 psi minimum compressive strength).....	PSI =	Yes	No N/A
	Reinforcing Steel (Grade 40 minimum).....	ASTM A	-----	Grade -----
	Corrosion Protection for Metal Accessories (galvanized).....		Yes	No N/A
	Corrosion Protection for Fasteners and Connectors.....		Yes	No
	1. Exposed to weather (stainless steel or hot dipped galv.).....		Yes	No N/A
	2. Coastal area, salt air exposure (stainless steel or hot dipped galv.).....		Yes	No N/A
202.3	REINFORCING STEEL			
	Size of steel reinforcing bars.....	No.	-----	
	Splice length.....		-----	
202.4	Cover over reinforcing steel.....		-----	
303	FOOTINGS AND FOUNDATIONS			
303.1	MATERIALS			
	Concrete Masonry Units (ASTM C90 or C145, 1900 psi min.).....		Yes	No N/A
	Clay Masonry Units (ASTM C62, C216, or C52, 4400 psi min.).....		Yes	No N/A
	Mortar (Type M or S, ASTM C270).....		Yes	No N/A
	Grout (3/8 in max. aggregate, 8-11 in slump, 2000 psi or ASTM C476).....		Yes	No N/A
	Concrete (2500 psi minimum compressive strength).....	PSI =	Yes	No N/A
	Reinforcing Steel (Grade 40 minimum).....	ASTM A		Grade
	Corrosion protection for Metal Accessories (galvanized).....		Yes	No N/A
303.2	STEMWALL FOUNDATION (min. 20 in wide x 10 in thick, w/2 #5)			
	Fig. 303A 3x3 bond beam w/1 #5 @ floor level			
	Fig. 303B Vertical rein: #5 @ 4 ft o.c., w/90° hook, 25 in lap.....		T	W
	Clay brick and hollow cmu (Fig. 303D1, D2, and D3).....		T	W
	Floor anchorage: 2x6 sill w/5/8-in anchor bolts spaced per 303.2.3.....		T	W
303.3	MONOLITHIC SLAB-ON-GRADE			
	Monolithic Slab-On-Grade—Exterior w/2 #5 (T = 20 in, W = 12 @ 1 story, W = 16 @ 2 story).....		Yes	No N/A
	Monolithic Slab-On-Grade—Interior w/2 #5 (T = W/2, W = 12 @ 1 story, W = 16 @ 2 story).....		Yes	No N/A
	Wall anchorage: 2 x sill w/5/8-in anchor bolts spaced per 303.3.2.....		Yes	No N/A
303.4	WOOD PILES			
	Piles and girders designed by registered design professional		Yes	No N/A
	Structural loads/connections designed for Table 303G loads.....		Yes	No N/A

CHECKLIST FOR BUILDINGS WITH MASONRY EXTERIOR WALLS

204	FLOOR SYSTEMS			
204.1	CONCRETE SLAB ON GRADE (3 1/2 inch thick min., no reinforcement required).....		Yes	No N/A
204.2	SUSPENDED CONCRETE SLABS			
	Slabs (hollowcore per manuf. Design).....		Yes	No N/A
204.3	WOOD FRAME FLOOR SYSTEMS			
	Floor Joists (sized per AF&PA span tables).....		Yes	No N/A

	Floor Trusses (designed per TPI spec).....	Yes	No	N/A
	Floor Sheathing (7/16-inch wood structural panels).....	Yes	No	N/A
	Floor Sheathing Spans (per Table 2307.6B of SBC).....	-----	-----	-----
	Bracing (4 ft o.c. first two framing spaces each end of floor)	Yes	No	N/A
	Sheathing fasteners.....	Yes	No	N/A
	Connection to Masonry Wall (Table 204E1 and Figure 204F1).....	Yes	No	N/A
			(Optional)	
	Stemwall Connection (per Figure 203D).....	Yes	No	N/A
204.4	FLOOR DIAPHRAGM (check capacity with Tables 204G and 204H).....	-----	-----	plf
	Shear capacities of diaphragm assemblies (Tables 304C1 and 304C2)			
	Connection to ICF Wall (Table 204E2 and Figures 204F2, 204F3, 204F4, 204F5, and 204F6)	-----	-----	plf
205	MASONRY WALLS			
	8-inch Thick (205.1).....	-----	-----	inches
205.2	BOND (TIE) BEAMS (at top, each floor and gable).....	Yes	No	N/A
	Size of bond beam.....	-----	-----	-----
	Approved precast bond beam per 205.2.5.....	Yes	No	N/A
	Reinforcement of Bond Beam per 205.2.6.....	Yes	No	N/A
205.3	VERTICAL REINFORCEMENT			
	One #4 each corner.....	Yes	No	N/A
	One bar each side of openings wider than 6 ft for masonry walls.....	Yes	No	N/A
	Additional bar(s) each side of openings.....	Yes	No	N/A
	One bar where girders or girder trusses bear on masonry walls.....	Yes	No	N/A
	Vertical reinforcement at ends of shearwall segments per 205.5.5.....	Yes	No	N/A
	Wall reinforcement per Table 205D.....	Yes	No	N/A
205.4	CONTINUOUS MASONRY GABLE			
	Rake Beam: cip concrete, 4-in high min. w/1 #5.....	Yes	No	N/A
	2x nailer bolted to rake beam, spaced in accordance with 205F.....	Yes	No	N/A
	Alternate: Ceiling diaphragm per 207.....	Yes	No	N/A
205.5	EXTERIOR SHEARWALLS			
	Required shearwall length perp to ridge (Table 205H1 to H3).....	-----	-----	-----
	Required shearwall length parallel to ridge (Table 205J1 to J3).....	-----	-----	-----
	Maximum distance between shearwalls = 2.5 x bldg. Width.....	-----	-----	2.5W = -----
	Minimum shearwall length = 2 ft or 4 ft per 205.5.1.....	-----	-----	-----
	Sum of shearwall segments per 205.5.2.....	-----	-----	-----
	Shearwall segments connected by bond beam.....	Yes	No	N/A
	Shearwall openings: 5 in. For piers and 12 in. Above and below piers max. dimension, 144 in ² max.....	Yes	No	N/A
	Shearwall reinforcing per 205.5.1.....	Yes	No	N/A
205.6	INTERIOR SHEARWALLS			
	When used, can decrease length/width ratio.....	-----	-----	New L/W = -----
	Interior bond beam full width of building.....	Yes	No	N/A
	Top of shearwall supported per Figure 207H.....	Yes	No	N/A
205.7	CONTINUITY OF VERTICAL WALL REINFORCEMENT			
	Minimum lap splices: Table 2.2A.....	-----	-----	-----
	Standard hook embedded 6 inches into bond beam: 10-in leg for #5.....	Yes	No	N/A
	14-in leg for #7.....	Yes	No	N/A

CHECKLIST FOR BUILDINGS WITH MASONRY EXTERIOR WALLS

205.8	ASSEMBLIES AND BEAMS SPANNING OPENINGS			
	Pre-engineered assemblies for masonry walls:			
	Extend 4 inches past each side of opening.....	Yes	No	N/A
	Precast—bottom story and top story of 2 story, Table 205P1.....	Yes	No	N/A
	Precast—bottom story of 2 story, second and bottom story of three-story building w/wood floor, Table 205P2.....	Yes	No	N/A
	Precast—bottom story of 2 story, second and bottom story of three-story building w/hollowcore floor, Table 205P3.....	Yes	No	N/A

	Continuous Bond Beam Acting as Lintel: 1 story and top story of 2 story, Table 205R1.....	Yes	No	N/A
	Bottom story of 2 story, second and bottom story of three-story building w/wood floor, Table 205R2	Yes	No	N/A
	Bottom story of 2 story, second and bottom story of three-story building w/hollowcore floor, Table 205R3.....	Yes	No	N/A
	Bond Beam Combined with Lintel:			
	1 story and top story of 2 story, Table 205S1	Yes	No	N/A
	Bottom story of 2 story, second and bottom story of three-story building w/wood floor, Table 205S2.....	Yes	No	N/A
207	INSULATED CONCRETE FORM (ICF) WALL SYSTEMS			
207.4	Reinforcement			
	Flat ICF walls (Table 207A).....	Yes	No	N/A
	Waffle-grid ICF walls (Table 207B)	Yes	No	N/A
	Screen-grid ICF walls (Table 207C).....	Yes	No	N/A
207.6	Lintels			
207.7	ICF Shearwalls			
	Minimum 15% of total wall length for walls supporting light-framed roof	Yes	No	N/A
	Minimum 20% of total wall length for walls supporting ICF or light-framed second story and light-framed roof			
	Required length (Table 207K)	Yes	No	N/A
207.8	Continuous ICF Gable			
	Rake beam: cip concrete, 4-in high minimum w/1 #5	Yes	No	N/A
	2x Nailer bolted to rake beam	Yes	No	N/A
	Alternate: Ceiling diaphragm per 207.....	Yes	No	N/A
207	CEILING SYSTEMS			
207.1	Ceiling joist spans.....			
207.2	Gypsum ceiling diaphragm at sidewall, Figure 207C (DELETING????????)	Yes	No	N/A
206	ROOF SYSTEMS			
206.1	RAFTER-JOIST FRAMING SYSTEMS			
	Rafters: sized per AF&PA span tables (24 in o.c. max).....	Yes	No	N/A
	Ridge Board: 2x min. cut depth of rafter	Yes	No	N/A
	Collar Beam: 1x6 every third rafter pair	Yes	No	N/A
206.2	TRUSS FRAMING SYSTEMS			
	Truss design per TPI spec	Yes	No	N/A
	Designs to indicate wind speed, height and uplift	Yes	No	N/A
	Maximum truss spacing at 24 inches	Yes	No	N/A
	Girder trusses designed as drag struts	Yes	No	N/A
	Step-down hip system used for hip roof (Figure 206K).....	Yes	No	N/A
206.3	ROOF SHEATHING			
	15/32 Exposure 1 wood structural panel.....	Yes	No	N/A
	Typical fasteners: 8d ring shank	Yes	No	N/A
	8d ring shank in roof zone 3 and 110 mph, and with Group III lumber in 100 mph zone.....	Yes	No	N/A
	4-in nail spacing at gable endwall/gable truss.....	Yes	No	N/A
	12-in intermediate spacing in roof zone 1 and 90 mph	Yes	No	N/A
	12-in intermediate spacing using Group II lumber in 100 mph zone.....	Yes	No	N/A
	Alter as required for stronger diaphragm per 206.5	Yes	No	N/A
206.4	BRACING			
	Add blocking at 4 ft o.c. 1 st 2 framing spaces if no ceiling diaphragms.....	Yes	No	N/A
206.5	ROOF DIAPHRAGM			
	Required diaphragm capacity from Tables 206C and 206D	Yes	No	N/A
	Roof diaphragm selected (Tables 304C1 and 304C2).....	Yes	No	N/A
	Diaphragm nailing requirements (206.3.3, Tables 304C1 and 304C2).....	Yes	No	N/A
206.6	CONNECTIONS FOR WOOD ROOF SYSTEMS			
	Sidewall, Truss/Rafter to Bond Beam:			
	Connectors rated for uplift (Table 206E)	Yes	No	N/A

Connectors rated for lateral load [206.6.1(2)].....	Yes	No	N/A
Sidewall, Bolted Top Plate Alternate:			
Bolt, washer, nut, top plate material per 206.6.2(1).....	Yes	No	N/A
Bolt spacing (24 in @ 90 mph, 21 in @100 mph, 18 in. @110 mph)	Yes	No	N/A
9/16 inch max. dia. bolt hole in top plate	Yes	No	N/A
Bolts 6 in. Max. Each side of plate splice	Yes	No	N/A
Bolts 12 in. Max. From end of plate.....	Yes	No	N/A
Truss rafters fastened to top plate w/rated connector per 207.6.1.....	Yes	No	N/A
Continuous Gable Endwalls:			
Pressure treated 2x nailer bolted to rake beam w/ 1/2-in anchor bolt spaced per Table 205E	Yes	No	N/A
Gable Truss Endwalls (permitted only where clg. Diaphragm needed).....	Yes	No	N/A
Shear connector rated for diaphragm capacity in Table 206D times connector spacing (feet).....	Yes	No	N/A
OR 2x wood plate bolted to bond beam (1/2-in dia. @ 4 ft o.c.).....	Yes	No	N/A
Wood Framed Gable Endwalls: Refer to 403.....	Yes	No	N/A
Hip Roof Trusses at Endwalls: Modify sidewall details using Table 206J	Yes	No	N/A
Interior Shearwall to Roof: Similar to endwalls (Figure 206H)	Yes	No	N/A

209 OPEN STRUCTURES

209.1 GENERAL

Foundations: Same as 1 story building of same size.....	Yes	No	N/A
Common Wall: #5 infilled cell at juncture	Yes	No	N/A
Bond Beams/Lintels: Rated for loads of Tables 209A, 209C, 209E	Yes	No	N/A
OR from 205.8, Beams Spanning Openings.....	Yes	No	N/A
Columns (max. 10 ft high to top of bond beam).....	H =	-----	-----
Corner Columns:.....	Size =	-----X-----	-----
Vert. Rein. (4 #3 for 8x8, 4 #5 all others)	-----	#-----	-----
Standard hooks, column to foundation.....	-----	#-----	-----
Standard hooks, column to bond beam	-----	#-----	-----
Column ties	#-----	@-----	-----
Intermediate Columns.....	Size = #	-----X-----	@-----
Vert. Reinf. (4 #3 for 8x8, 4 #5 all others)	-----	#-----	-----
Standard hooks, column to foundation.....	-----	#-----	-----
Standard hooks, column to bond beam	-----	#-----	-----
Column ties	#-----	@-----	-----

**CHECKLIST FOR COMBINED CONCRETE, MASONRY, OR ICF AND WOOD EXTERIOR WALL CONSTRUCTION
(CHAPTER 4)**

402 CONCRETE, MASONRY, OR ICF FIRST STORY, WOOD FRAME SECOND STORY	Yes	No	N/A
403 WOOD FRAME GABLE ENDWALLS ABOVE CONCRETE, MASONRY, OR ICF WALLS	Yes	No	N/A

**CHECKLIST FOR ROOFING
(CHAPTER 5)**

501 ASPHALT SHINGLES	Yes	No	N/A
502 CONCRETE ROOF TILES	Yes	No	N/A

**CHECKLIST FOR WINDOWS AND DOORS
(CHAPTER 6)**

602 WINDOWS, DOORS AND UNIT SKYLIGHTS INSTALLED IN WALL/ROOF SYSTEMS			
Design Pressure Requirements	-----	-----	psf
Anchorage Methods.....	Yes	No	N/A
Mullions Occurring Between Individual Window and door Assemblies.....	Yes	No	N/A
603 PROTECTION OF OPENINGS			
603.1 Windborne Debris Protection of Glazed Openings	Yes	No	N/A
603.2 Windborne Debris Protection of Unglazed Openings.....	Yes	No	N/A

CHECKLIST FOR EXTERIOR WALL COVERINGS

(CHAPTER 7)

701.3 EXTERIOR WALL COVERINGS

All exterior wall coverings have been tested and approved for the basic wind speed at this location	Yes	No	N/A
All exterior soffits have been tested and approved for the basic wind speed at this location	Yes	No	N/A