

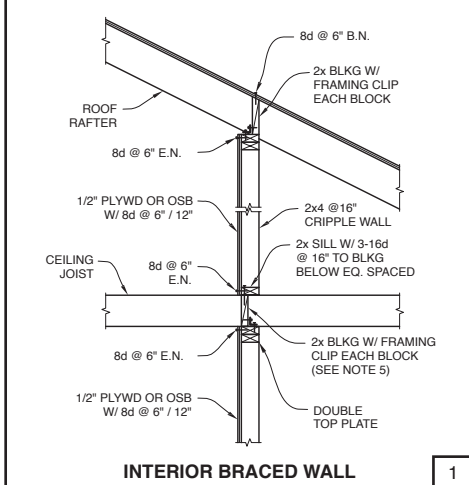


City of Stanton

Community Development: Building & Safety Division
 7800 Katella Avenue
 Stanton, CA 90680
 (714) 379-9222

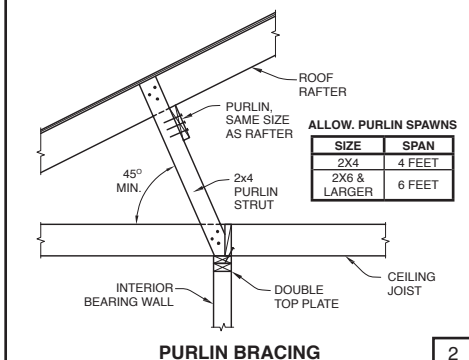
TYPE V SHEET / LIGHT FRAME CONSTRUCTION

SINGLE STORY CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET



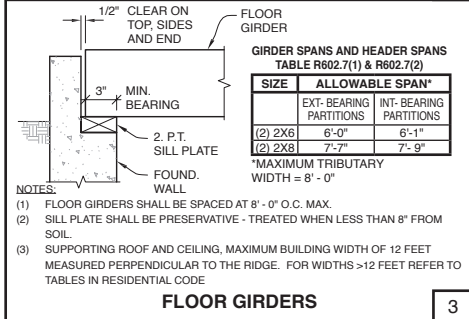
INTERIOR BRACED WALL

1



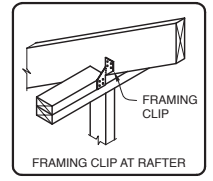
PURLIN BRACING

2

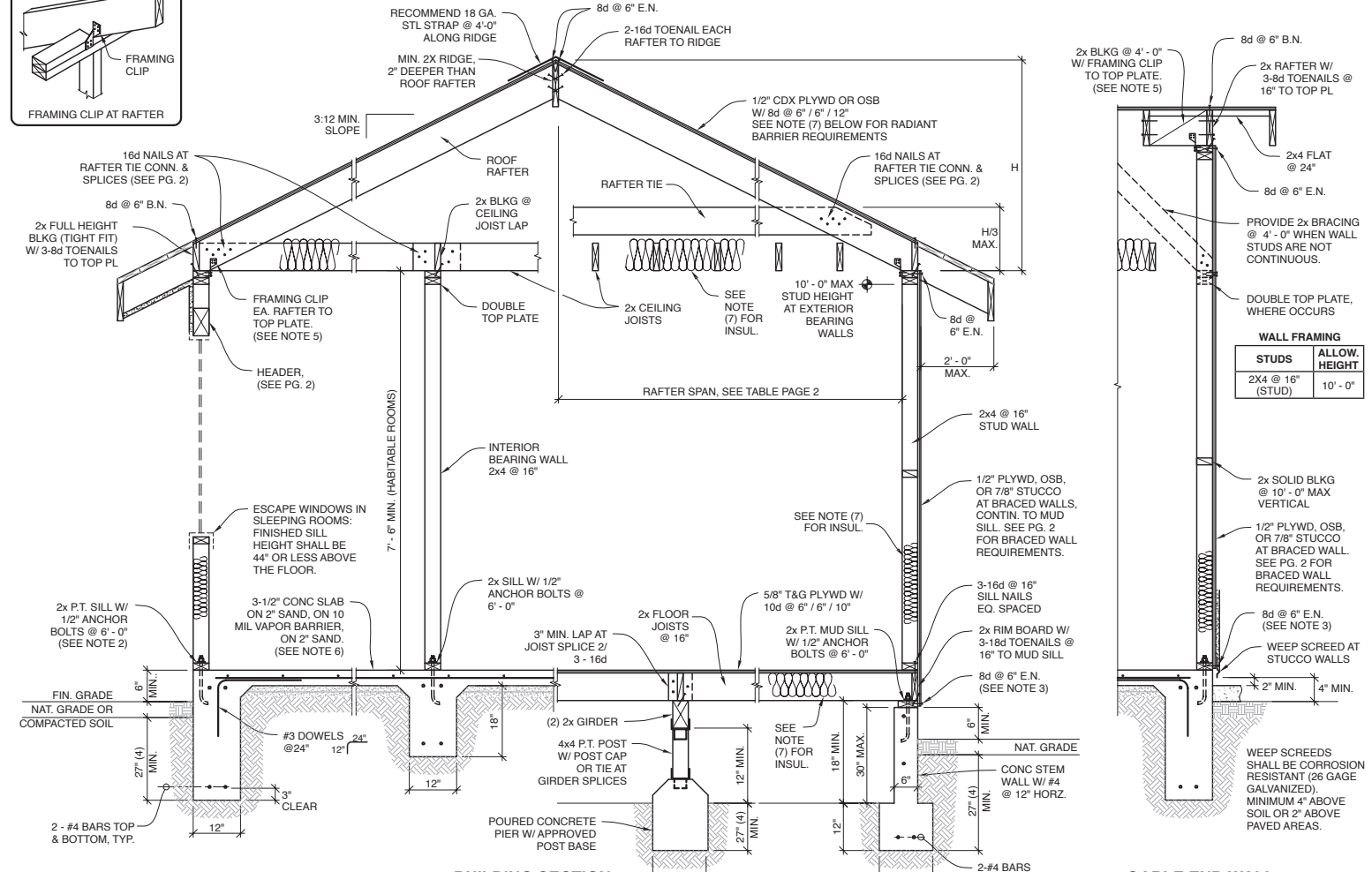


FLOOR GIRDERS

3



FRAMING CLIP AT RAFTER



BUILDING SECTION

GABLE END WALL

- NOTES:**
- (1) MINIMUM CONCRETE STRENGTH: 2500 psi.
 - (2) ANCHOR BOLTS SHALL BE EMBEDDED AT LEAST 7" INTO CONCRETE. FOR TWO-POUR FOUNDATIONS, THE REQUIRED EMBEDMENT SHALL BE PROVIDED IN THE FIRST POUR. ANCHOR BOLTS SHALL BE LOCATED NOT MORE THAN 12", OR LESS THAN 4 - 1/2" FROM SILL PLATE ENDS, CORNERS, AND SPLICES. ANCHOR BOLTS SHALL BE INSTALLED WITH 1/4" X 3" SQUARE PLATE WASHERS.
 - (3) FASTENERS FOR PRESERVATIVE TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.
 - (4) FOUNDATIONS SHOWN ABOVE ASSUME EXPANSIVE SOILS ARE PRESENT AT THE SITE. FOUNDATION REQUIREMENTS MAY BE REDUCED WHEN JUSTIFIED BY A GEOTECHNICAL REPORT OR APPROVED BY THE BUILDING OFFICIAL.
 - (5) FRAMING CLIPS SHALL BE 18 GAGE STEEL WITH FOUR 8d NAILS PER LEG (EIGHT 8d NAILS PER CLIP). FRAMING CLIPS SHALL BE ICC APPROVED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - (6) SLAB ON GRADE SHALL BE REINFORCED WITH #3 BARS @ 18" EACH WAY. REINFORCING SHALL BE LOCATED AT SLAB MID-HEIGHT.
 - (7) SEE PAGE 3 OF 3, TABLE 150.1A FOR RADIANT BARRIER AND INSULATION REQUIREMENTS BASED ON AHJ'S CLIMATE ZONE

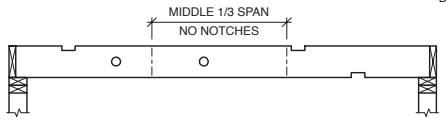
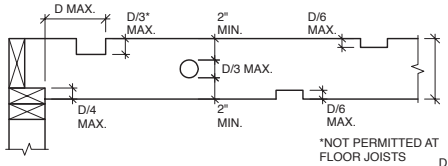
WALL FRAMING

| STUDS | ALLOW. HEIGHT |
|------------------|---------------|
| 2X4 @ 16" (STUD) | 10' - 0" |

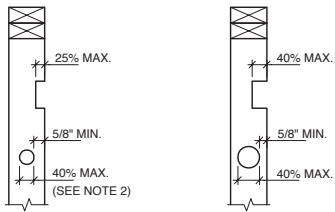
WEEP SCREENS SHALL BE CORROSION RESISTANT (26 GAGE GALVANIZED). MINIMUM 4" ABOVE SOIL OR 2" ABOVE PAVED AREAS.

THIS SHEET IS A SUMMARY OF THE PROVISIONS OF THE 2019 CRC FOR USE WITH SINGLE-STORY CONSTRUCTION ONLY. DEAD LOAD SHALL NOT EXCEED 15 PSF FOR AVERAGE ROOF AND CEILING, OR EXTERIOR WALLS OR FLOORS AND PARTITIONS. FLOOR LIVE LOAD SHALL NOT EXCEED 40 PSF. THIS SHEET IS FOR REFERENCE ONLY AND IS NOT SUBSTITUTE FOR ACCURATE DRAWINGS PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT.

SINGLE STORY CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET



RAFTERS, CEILING JOISTS AND FLOOR JOISTS
CRC FIG R602.3(1)



BEARING PARTITIONS &
ALL EXTERIOR WALLS

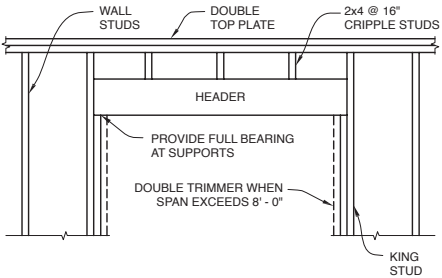
NON-BEARING
PARTITIONS

CRC FIG R602.6(1) & R602.6(2)

NOTES:

- BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION AS A CUT OR NOTCH.
- BORED HOLES IN BEARING STUDS MAY BE INCREASED TO 60% IF STUDS ARE DOUBLED; NO MORE THAN TWO SUCCESSIVE DOUBLE STUDS MAY BE BORED.

2



DF#1 HEADER, ALLOWABLE SPANS*

| SPAN | SIZE |
|---------------------|------|
| UP TO 3' - 6" | 4x4 |
| 3' - 7" TO 5' - 5" | 4x6 |
| 5' - 6" TO 6' - 10" | 4x8 |
| 6' - 10" TO 8' - 5" | 4x10 |
| 8' - 6" TO 9' - 9" | 4x12 |

HEADER/LINTEL

CRC TABLE R502.5(1)

3

GENERAL NOTES:

- SEE FASTENING SCHEDULE (TABLE R602.3(1)) FOR NAILING NOT SHOWN.
- BEARING WALLS AND BRACED WALLS REQUIRE CONTINUOUS FOOTINGS.
- "DF" ON THESE SHEETS REFERS TO DOUGLAS FIR-LARCH. SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION AGENCY.
- "DL" AND "LL" ON THESE SHEETS INDICATES "DEAD LOAD" AND "LIVE LOAD," RESPECTIVELY
- WOOD MEMBERS SHALL BE OF SUFFICIENT SIZE TO PREVENT SPLITTING DUE TO NAILING. SPLIT MEMBERS SHALL BE REMOVED AND REPLACED.
- "P.T." ON THESE SHEETS INDICATES PRESERVATIVE-TREATED WOOD.
- WHEN FRAMED WITH ENGINEERED WOOD TRUSSES, ROOF DIAPHRAGMS SHALL BE CONNECTED TO INTERIOR BRACED WALLS BY MEANS OF DRAG TRUSSES OR TRUSS BLOCKING.

DF #2 RAFTERS, ALLOWABLE SPANS*

| RAFTER SPACING | DL = 10 PSF, LL = 20 PSF | | | | |
|----------------|--------------------------|-----------|----------|----------|----------|
| | 2x4 | 2x6 | 2x8 | 2x10 | 2x12 |
| 12" | 10' - 10" | 16' - 10" | 21' - 4" | 26' - 0" | -- |
| 16" | 9' - 10" | 14' - 7" | 18' - 5" | 22' - 6" | 26' - 0" |
| 24" | 8' - 2" | 11' - 11" | 15' - 1" | 18' - 5" | 21' - 4" |

* DATA TAKEN FROM TABLE R802.4.1(1)

DF #2 CEILING JOISTS, ALLOWABLE SPANS*

| JOIST SPACING | ATTICS WITHOUT STORAGE, LL = 10 PSF | | | | | ATTICS WITH LIMITED STORAGE, LL = 20 PSF | | | | |
|---------------|-------------------------------------|----------|----------|----------|---------|--|-----------|----------|-----------|------|
| | 2x4 | 2x6 | 2x8 | 2x10 | 2x12 | 2x4 | 2x6 | 2x8 | 2x10 | 2x12 |
| 12" | 12' - 5" | 19' - 6" | 25' - 8" | -- | -- | 9' - 10" | 14' - 10" | 18' - 9" | 22' - 11" | -- |
| 16" | 11' - 3" | 17' - 8" | 23' - 4" | -- | -- | 8' - 11" | 13' - 0" | 16' - 6" | 20' - 2" | -- |
| 24" | 9' - 10" | 15' - 0" | 19' - 1" | 23' - 3" | 7' - 3" | 10' - 8" | 13' - 6" | 16' - 5" | -- | -- |

*DATA FROM CRC TABLE R802.5.1(1) & R802.5.1(2) ATTICS WITH STORAGE ARE THOSE WHERE THE CLEAR HEIGHT BETWEEN THE CEILING JOIST AND RAFTER IS 42" OR GREATER. ATTICS SHALL BE UNINHABITABLE. CEILING DEAD LOAD SHALL NOT EXCEED 5 PSF.

RAFTER TIE CONNECTIONS, # 16d COMMON NAILS, SEE NOTE (5)*

| TIE SPACING | ROOF PITCH | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|------------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|-------|-----|-----|-----|---|---|
| | 3:12 | | | | 4:12 | | | | 5:12 | | | | 7:12 | | | | 9:12 | | | | 12:12 | | | | | |
| | 12' | 20' | 28' | 36' | 12' | 20' | 28' | 36' | 12' | 20' | 28' | 36' | 12' | 20' | 28' | 36' | 12' | 20' | 28' | 36' | 12' | 20' | 28' | 36' | | |
| 12" | 4 | 6 | 8 | 10 | 3 | 5 | 6 | 8 | 3 | 4 | 5 | 6 | 3 | 4 | 4 | 5 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 |
| 16" | 5 | 8 | 10 | 13 | 4 | 6 | 8 | 10 | 3 | 5 | 6 | 8 | 3 | 4 | 5 | 6 | 3 | 4 | 4 | 5 | 3 | 3 | 4 | 4 | 4 | 4 |
| 24" | 7 | 11 | 15 | 19 | 5 | 8 | 12 | 15 | 4 | 7 | 9 | 12 | 3 | 5 | 7 | 9 | 3 | 4 | 6 | 7 | 3 | 4 | 4 | 4 | 4 | 4 |

*CRC TABLE R802.5.2 VALUES ADJUSTED FOR DF#2 FRAMING. THE NUMBER OF NAILS SPECIFIED IN THE TABLE SHALL BE PROVIDED AT EACH CONNECTION. WHEN FULL-HEIGHT INTERIOR BEARING WALLS OR PURLIN BRACING ARE PROVIDED, RAFTER TIE NAILING MAY BE REDUCED PROPORTIONAL TO THE REDUCTION IN RAFTER SPACING; NO LESS THEN 3 NAILS SHALL BE PROVIDED AT EACH CONNECTION. NO SNOW LOAD

DF #2 FLOOR JOISTS, ALLOWABLE SPANS*

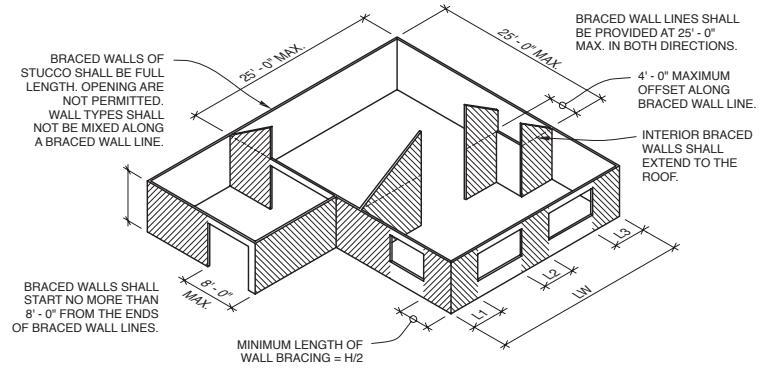
| JOIST SPACING | DL = 10 PSF, LL = 40 PSF | | |
|---------------|--------------------------|----------|----------|
| | 2x6 | 2x8 | 2x10 |
| 12" | 10' - 9" | 14' - 2" | 18' - 0" |
| 16" | 9' - 9" | 12' - 9" | 15' - 7" |
| 24" | 8' - 3" | 10' - 5" | 14' - 9" |

* DATA FROM CRC TABLE R502.3.1(2)

PLYWOOD OR OSB FLOOR AND ROOF SHEATHING, ALLOWABLE SPANS*

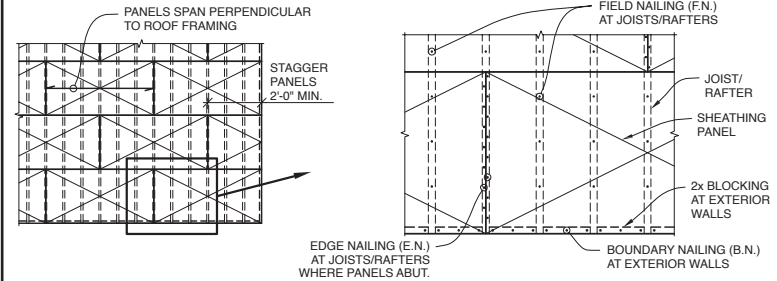
| SHEATHING GRADES | ALLOWABLE LL (psf) | ROOF | | | | FLOOR | | |
|------------------|--------------------|-------------------|----------------------|--------------|-----------|---|----|----|
| | | MAX. SPAN (in.) | | LOADS (psf.) | | PANEL EDGES WITH T&G JOINTS OR BLOCKING | | |
| | | WITH EDGE SUPPORT | WITHOUT EDGE SUPPORT | TOTAL LOAD | LIVE LOAD | MAX. SPAN (in.) | | |
| 24/0 | 3/8 | 100 | 30 | 24 | 20 | 40 | 30 | 0 |
| 24/16 | 7/16 | 100 | 40 | 24 | 24 | 50 | 40 | 16 |
| 32/16 | 15/32, 1/2 | 180 | 70 | 32 | 28 | 40 | 30 | 16 |
| 40/20 | 19/32, 5/8 | 305 | 130 | 40 | 32 | 40 | 30 | 20 |
| 48/24 | 23/32, 3/4 | - | 175 | 48 | 36 | 45 | 35 | 24 |

* DATA FROM CRC TABLE R503.2.1.1(1) SHEATHING PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS AND PERPENDICULAR TO SUPPORTS. FOR 1/2" SHEATHING MAXIMUM SPAN SHALL BE 24". EDGE SUPPORT MAY BE PROVIDED BY TONGUE AND GROOVE EDGES, 2X BLOCKING OR PANEL EDGE CLIPS.



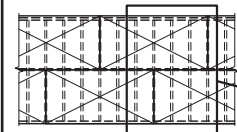
BASIC COMPONENTS OF THE LATERAL BRACING SYSTEM

1



PARTIAL ROOF/FLOOR PLAN

ROOF/FLOOR SHEATHING



PARTIAL WALL ELEVATION

PANEL NAILING SCHEDULE

| | B.N. / E.N. / F.N. |
|---------|--------------------|
| ROOFS: | 8d @ 6" / 6" / 12" |
| FLOORS: | 8d @ 6" / 6" / 10" |
| WALLS: | 8d @ 6" / 12" |

NOTES:

- NAILS SHALL BE PLACED 3/8" FROM PANEL EDGES.
- PROVIDE 1/8" GAP BETWEEN SHEATHING PANELS
- MINIMUM DIMENSION OF SHEATHING PANEL IN ANY DIRECTION SHALL BE 2'-0".
- WALL SHEATHING PANELS MAY BE INSTALLED WITH THE LONG DIRECTION ORIENTED VERTICALLY

City of Stanton Climate Zone 8

2019 California Energy Code Low Rise Residential Buildings Table 150.1-A Component package - Single Family Standard Building Design

| SINLE FAMILY | | CLIMATE ZONE | | | | | | | | | | | | | | | | |
|-------------------------------------|--|---|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| Building Envelope Insulation | | | | | | | | | | | | | | | | | | |
| BUILDING ENVELOPE | Roofs/Ceilings | Option B (Meets §150.1(c)(9A)) | Below Roof Deck Insulation ^{1,2} (With Air Space) | NR | NR | NR | R-19 | NR | NR | NR | R-19 | R-19 | R-19 | R-19 | R-19 | R-19 | R-19 | |
| | | | Ceiling Insulation | R-38 | R-38 | R-30 | R-38 | R-30 | R-30 | R-30 | R-38 | R-38 | R-38 | R-38 | R-38 | R-38 | R-38 | R-38 |
| | | | Radiant Barrier | NR | REQ | REQ | NR | REQ | REQ | REQ | NR | NR | NR | NR | NR | NR | NR | NR |
| | | Option C (Meets §150.1(c)(9A)) | Ceiling Insulation | R-38 | R-30 | R-30 | R-30 | R-30 | R-30 | R-30 | R-30 | R-30 | R-30 | R-38 | R-38 | R-38 | R-38 | R-38 |
| | | | Radiant Barrier | NR | REQ | REQ | REQ | REQ | REQ | REQ | REQ | REQ | REQ | REQ | REQ | REQ | REQ | NR |
| | | | | | | | | | | | | | | | | | | |
| | Walls | Above Grade | Framed ³ | U 0.048 | U 0.048 | U 0.048 | U 0.048 | U 0.048 | U 0.065 | U 0.065 | U 0.048 | U 0.048 | U 0.048 | U 0.048 | U 0.048 | U 0.048 | U 0.048 | |
| | | | Mass Wall Interior ^{4,5} | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.059 R-17 |
| | | | Mass Wall Exterior ⁶ | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.125 R-8.0 | U 0.077 R-13 |
| | | Below Grade | Below Grade Interior | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.077 R-13 | U 0.067 R-15 |
| | | | Below Grade Exterior | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.200 R-5.0 | U 0.100 R-10 | U 0.053 R-19 |
| | | | | | | | | | | | | | | | | | | |
| | Floors | Slab Perimeter | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | U 0.58 R-7.0 | |
| | | Raised | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | |
| | | Concrete Raised | U 0.092 R-8.0 | U 0.092 R-8.0 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | U 0.037 R-19 | |
| | Quality Insulation Installation (QII) | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| | Roofing Products | Low-Sloped | Aged Solar Reflectance | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 0.63 | NR | 0.63 | NR |
| | | | Thermal Resistance | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 0.75 | NR | 0.75 |
| | | Steep-sloped | Aged Solar Reflectance | NR | NR | NR | NR | NR | NR | NR | NR | NR | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | NR |
| | | | Thermal Resistance | NR | NR | NR | NR | NR | NR | NR | NR | NR | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | NR |
| fenestration | Maximum U-factor | | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | | |
| | Maximum SHGC | | NR | 0.23 | NR | 0.23 | NR | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | NR | |
| | Maximum Total Area | | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | |
| | Maximum West Facing Area | | NR | 5% | NR | 5% | NR | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | NR | |
| Door | Maximum U-factor | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | | |

1 Install the specified R-value with an airspace present between the roof and the roof deck, such as standard installation of concrete or clay tile.
 2 R-values shown for below roof deck insulation are for wood-frame construction with insulation installed between the framing members. Alternatives including insulation above rafters or above roof deck shall comply with the performance standards.
 3 Assembly U-factors for exterior framed walls can be met with cavity insulation alone or with continuous insulation alone, or with both cavity and continuous insulation that results in an assembly U-factor equal to or less than the U-factor shown. Use Reference Joint Appendices JA4 Table 4.3.1, 4.3.1(a), or Table 4.3.4 to determine alternative insulation products to be less than or equal to the required maximum U-factor.
 4 Maximum U-factor.
 5 Mass wall has a heat capacity greater than or equal to 7.0 Btu/h-ft².
 6 "Interior" denotes insulation installed on the inside surface of the wall. "Exterior" denotes insulation installed on the exterior surface of the wall.
 7 "Below grade interior" denotes insulation installed on the inside surface of the wall; and "Below grade exterior" denotes insulation installed on the outside surface of the wall.