

Residential Technical Review Checklist

Building a Better and Safer Austin Together

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This document is intended for internal use by reviewers, however it is being provided as a reference tool for our customers. The following are some of the basic or frequently overlooked code requirements. This list is not intended to be exhaustive of all possible requirements. The more comprehensive list is contained in the 2021 International Residential Code and City of Austin Local Amendments. Neither this checklist nor the adopted building codes may be construed to allow deed restriction violation.

GENERAL	[] Live/work units in townhouses complying with IBC 508.5
[] Check for professional designer/engineer seal – engineers and architects are required to stamp documents prepared by them for regulatory approval. [] Construction documents submitted for building permit approval shall be address specific with the exception of master set prototypes submitted for Volume Builder	[] Owner-occupied lodgings with 5 or less guestrooms[] Care facility in dwelling unit with 6 or less persons
Program approval	[] Plot Plan
[] Applicant is using the correct technical code(s)	[] Floor Plans & Exterior Elevations
 [] Verify if text disclaimer will void arch plans [] Application completeness (BSPA/AW/Demo) [] Expired permit(s) check [] Owner's Letter of Authorization 	[] Structural (see structural checklist)[] Prototypical designs: Orientation (L or R) of all plan matches. Options clearly selected
Additions and/or Interior Remodel applications with	ACCESSIBILITY AND VISITABILITY R 320
greater than 50% of exterior walls demolished shall	Local Amendments to the Residential Code.
comply with Demolition Notification requirements.	ACCESSIBILITY:
ARCHITECTURAL SETS: SEALED AND UNSEALED	[] Three or more dwelling units or sleeping units in a single structure, IBC CH. 11, as required for R-3 occupancies.
SCOPE (IRC APPLICABILITY): R101.2 (local	Exceptions:
amendments);	[] IBC 1108.7 Multistory Units without elevator
[] One family dwellings, two family dwellings and	[] Live/Work Units non-residential portion shall be made
townhouses/townhouse units as defined in CH2	accessible in accordance with IBC 508.5.9 and 508.5.11.
[] Townhouse units must not overlap or be vertically	
stacked. [] <u>Separate means of egress</u> : no shared internal	portion shall comply with IBC 1108.6.2.1 VISITABILITY:
path of egress travel to a public way or yard	[] New construction dwellings subject to the IRC with
No more than three stories above grade plane	habitable space on the first floor
[] Basement is a story, but not above grade plane	Exceptions:
[] Enclosed interior stair serving an occupied roof	[] Remodels and additions to existing dwellings
not counted as a story if:	permitted on or after February 10 th , 2014 are to
[] Use is limited to enclosed stair; utility use	comply with sections R320.3 – R320.7
such as a mechanical closet is allowed.	[] Remodels and additions to existing dwellings
[] Height is the min. required to comply with	permitted on or after July 1, 2015 shall comply with
headroom clearance and ceiling height, wall and	
roof termination and drainage. [] Mezzanines per R325 are not a story (see	[] Architect or Certified Building Designer (RDP) [] Visitable Entrance clearly indicated
checklist)	[] Visitable Entrance clearly indicated
[] Habitable attics are a story above grade plane,	[] Visitable Exterior Route WAIVER when applicable
except where meeting all exceptions in R326 (see	[] Prof. Land Surveyor Survey
checklist)	[] Reg. Design Professional Substantiation required
Exceptions to Scope: Where a sprinkler system	Slope waiver: slope greater than 10% between

complying with P2904 is provided:

highest point to lowest point prior to development

[] Switchback waiver includes calculations from all viable points of origination (garage, driveway, sidewalk, street) demonstrating that the provision of a compliant ramp is not possible without a switchback.	[] Structural Independence per R302.2.6. New exception: [] Not required when a fire sprinkler system per P2904 or NFPA 13D is provided (exception 6) [] Fire Rated Wall Section from foundation to roof (roof parapet) showing fire rated wall assembly is required for
EXTERIOR WALL PROTECTION / LOCATION	review.
(R302, TABLES R302.1 (1) AND (2))	[] Coordination: wall section and details reflect
[] Refer to Table R302.1(1) or (2) for fire rating	correct orientation of trusses in framing plans.
requirements and opening restrictions (unlimited, 25%,	[] Critical intersections between fire rated wall
not allowed)	assembly and floor, floor/ceiling assembly and
[] No fire resistance rating if ≥ 5', or ≥ 3' with sprinklers	roof/ceiling assembly must be resolved in drawings.
[] Unprotected roof overhangs allowed with fireblocking at less than 5ft but not less than 2ft from lot line	[] Fireblocking where required per R302.11 [] Wall section matches tested assembly or
[] No overhangs allowed at less than 2ft of lot line	prescriptive assembly in Section 721 of the IBC as
[] Exception : detached garage accessory to a	applicable.
dwelling within 2ft of lot line may have a 4" max. roof	[] When analytical methods described in Section
eave projection	722 are used, reviewer may require calculations by
[] Fire rated assembly as required by tables	the architect as needed for review.
R302.1(1)(2) with exposure on both sides shall comply	[] 722.6 Wood Assemblies.
with one of the following:	[] Calculated fire resistance shall be limited
[] Approved assembly identified (1hr tested in	to 1 hour. See examples in IBC
accordance with ASTM E119 or UL 263): assembly	Commentary Vol. 1.
and detail	[] Dissimilar membranes requiring
[] Analytical methods in Section 703.2.2	exposure from both sides: calculations shall
[] Approved alternated methods in accordance with	be made from weaker side.
Section 104.11	[] Fire resistance rating is equal to the sum
TOWNULGUES DOOD O	of the time ratings assigned to:
TOWNHOUSES R302.2	Membrane on the fire exposed side
[] Separation Requirements:	Framing members
[] <u>Double Walls</u> : two 1-hr fire resistance rated assemblies tested per ASTM E119 or UL 263, or	Additional contributions such as
complying with IBC 721 or 722	insulation
[] Common Wall:	[] 30" <u>Parapet</u> required or exception R302.2.4 [] <u>Fire Sprinkler system</u> required by R313.1 (system
[] With Sprinkler System in accordance with	complying with P2904 or NFPA 13D)
Section P2904, 1 hr. fire resistance rated wall	complying with 2004 of Ni 1 A 100)
assembly tested per ASTM E119, UL 263, or	TWO-FAMILY DWELLINGS R302.3
IBC 703.2.2	[] <u>Separation</u> by a wall and/or floor/ceiling assembly 1-
[] If originally built w/o sprinklers complying with	hr rating.
Sect. P2904, 2 hr. fire resistance rated wall	[] Continuity: fire rated floor/ceiling assemblies extend
assembly tested per ASTM E119, UL 263, or	to and are tight against exterior wall and wall assemblies
IBC 703.2.2	extend from foundation to underside of roof deck.
[] Rated from both sides	Exceptions:
[] No plumbing, mech. equipment, ducts or	[] 1/2hr rating allowed with fire sprinklers in
vents [] Extending to and tight against ext. wall	accordance with P2904
sheathing or inside face of ext. wall without	[] Wall assemblies need not extend through attic
cavities, and underside of roof sheathing	where:
[] Exception : common wall may extend to	Ceiling is protected by 5/8" Type-X gyp. bd., Proffstenning per B202 12 clang and shave the
and tight against the inside of the ext. wall	Draftstopping per R302.12 along and above the fire rated well apparating dwellings.
provided that two 2x wood studs are	fire rated wall separating dwellings,
installed filling the cavity between the end of	 ½" gyp. bd. over structural framing supporting the ceiling
the common wall and the exterior wall	[] R302.3.1 <u>Construction supporting</u> a fire rated floor
sheathing.	assembly (i.e. bearing walls) has equal or greater fire
[] Continuity: R302.2.3: Fire resistant rating extends full	rating

rating

accessory structures

length of wall and wall extensions separating attached

[] Fire resistance rated wall and floor/ceiling assembly shown in section and details.

[] Fire resistance determined by one of the following:	ARCHITECTURAL NOT SEALED BY ARCH. / CBD
 [] Assembly tested in accordance with ASTM E119 or UL 263 [] Analytical methods in IBC 703.2.2 • Prescriptive fire resistance in IBC 721 • Calculated fire resistance in IBC 722 [] Alternate Method of Compliance (AMOC) MEZZANINES R325	GARAGE SEPARATIONS R302.5 and R302.6 [] No openings to rooms used for sleeping purpose [] Solid wood door 1-3/8" min. thickness, solid or honeycomb core steel door 1-3/8"min. thickness or 20 minute fire-rated door [] Doors shall be self-latching & equipped with a self-closing device on garage to home door
 [] <u>Definition</u>: Intermediate level between floor and ceiling of any story. A mezzanine complying with the requirements below is NOT a story. [] <u>Ceiling Height</u>: ≥ 7 ft. [] <u>Area limitation</u>: ≤ 1/3 of room size in which it is located. [] Exception: area ≤ ½ of room provided the requirements below are met: 	 [] Walls and ceilings with attic space above: 1/2" gypsum board [] Ceilings with habitable rooms above: 5/8" Type-X gypsum board [] Garages less than 3' from dwelling unit on same lot: min 1/2" gypsum board on interior side of exterior walls within the area
[] Sprinkler complying with P2904 [] Open to the room below except for closets and bathrooms [] Opening to room is unobstructed except for walls not more than 42" height, columns and posts [] Exceptions to R325.5: openness are NOT applied [] Egress: Compliance with R311 egress requirements [] Openness: Shall open to room below without obstructions except for walls not more than 36", columns and posts. Exceptions: [] 10% or less can be enclosed; [] Openness not required if ≤ 2 stories above grade plane and sprinklers throughout are provided in accordance with R313	FIRE PROTECTION OF FLOORS R302.13 [] Floor assemblies not required to be rated shall have 1/2" gypsum board, 5/8" wood structural panel, or equivalent on underside of floor framing members. Exceptions: [] Space below is equipped w/ sprinklers per NFPA 13D or P2094 [] Crawl space below not used for storage or with fuel or electric heating appliances [] Unprotected portions allowed if aggregate unprotected area doesn't exceed 80 SF per story and fireblocking compliant with R302.11.1 is applied around all unprotected portions [] Wood floor assemblies using dimension lumber or structural composite lumber with min. dim. 2x10 or other approved assemblies with equivalent fire performance
Page	LIGHT, VENTILATION R303 [] Aggregate glazing area: 8% of floor area [] Natural Ventilation: 4% of floor area Exception: [] For habitable rooms other than kitchens, glazed area need not be openable where not required by R310 and whole house mechanical ventilation system is installed in compliance with M1505 or mechanical system produces 0.35 air changes/hour [] For kitchens, glazed area need not be openable where not required by R310 and local exhaust installed per M1505 [] Exception to glazing: no glazed area required in rooms when not required to be openable and artificial light producing avg. 6 fc over the room at 30" above floor is provided [] Sunroom and patio covers allowed for ventilation if over 40% of exterior sunroom walls are open or enclosed only by insect screens [] Bathroom glazing: min. 3 sq. ft., one-half openable [] Exception: Artificial light and local exhaust system provided in compliance with M1505

MINIMUM ROOM AREAS R304	comply with the glazing requirements for
[] Habitable rooms ≥ 70 sq. ft. Exception : Kitchens	windows
[] Habitable room walls ≥ 7' Exception : Kitchens	[] Glazing adjacent to the fixed panel of a patio
[] Sloping ceiling < 5' or furred < 7' AFF shall not	door
contribute to habitable area	[] Glazing in windows when <i>all</i> below is met:
	[] Pane in excess of 9 sf
CEILING HEIGHT R305	[] bottom edge less than 18"above floor
[] Habitable spaces including hallways and habitable	[] top edge more than 36"above floor
basements: Min. height 7'. Bathrooms and laundry	[] walking surface within 36" horizontally
rooms: Min. height 6'-8."	[] Exceptions:
Exceptions:	[] Decorative glazing
[] Sloped ceilings: req. floor area has ceiling height	[] Re: glazing adj. to a walking surface where a
≥5'. 50% of req. area has a ceiling height ≥7'	horizontal rail is installed 34"-38" above walking
[] Habitable basements: beams, girders, ducts and	surface. Field verify: load requirements: 50#/lf.
similar obstructions allowed to project 6'-4" AFF	Cross sectional height 1.5"
[] Beams and girders spaced apart min. 36" are	[] Glazing in guards and railings
allowed to project 6'-6" AFF	[] Glazing surrounding wet surfaces: within 60"
[] Basements w/o habitable space: min. 6'-8"	horizontally in all directions under 60" vertically
[] Ceiling obstructions like beams and ducts in	[] Adjacent to stairs and ramps with bottom less than 36'
basements: 6'-4" AFF	from walking surface
	[] Adjacent to bottom of stair landing when lower than
TOILET, BATH AND SHOWER SPACES R307	36" and within a 60" horizontal <i>arc</i> . (Fig. R308.4.7)
[] Space required in accordance with fig R307.1.	[] Site built windows: comply with IBC 2404
[] WC, lavatory or bidet: 15" cl of fixture to wall	[] Skylights, roofs, and sloped glazing
[] WC, lavatory or bidet: 21" in front to any wall,	[] Materials: laminated glass (see R308.6.2 for
fixture or door	details), fully tempered glass, heat-strengthened
[] Shower compartments per 2021 UPC 408.6	glass, wired glass, approved rigid plastics
[] min. finished int. area 1024 sq. in.	[] Screens with fully tempered or heat strengthened
[] encompass a 30" dia. circle	glass as required by R308.6.3-308.6.7 (may be field
[] maintained 70" above shower drain; projections	verified)
allowed for shower head, soap dishes, shelves and	[] Curbs where required by R308.6.8 (may be field
grab bars	verified)
[] fold down seats in accessible showers allowed to	
protrude into 30" circle	EMERGENCY ESCAPE AND RESCUE OPENINGS
[] Exceptions:	(EERO) R310
[] Shower complying with ANSI 117.1 [] 30" X 60" showers	[] Basements, habitable attics and every sleeping room Exceptions :
	[] Storm shelters and basements not over 200sf
HAZARDOUS GLAZING R308	used for mechanical equipment
[] Glazing in doors	[] Basement sleeping units in dwellings with
Exceptions:	sprinklers complying with P2904, provided that
[] Openings through which a 3" sphere can't pass	basement has:
[] decorative glazing	[] One Means of Egress (MOE) per R311 and
[] Glazing adjacent to doors when < 60" above floor or	one EERO, <i>OR</i>
walking surface and:	[] Two MOE per R311
[] Glazing is within 24" of door in the same plane of	[] EERO opens to public way, <i>yard,</i> or court with min.
the door in closed position OR	width of 36".
[] Glazing on a wall less than 180 degrees from the	[] Exception: Yard not required to open to public
plane of the door in a closed position and within 24"	way where yard opens to an unobstructed 36" wide
of the hinge side of an in-swinging door	path from yard to public way
[] Exceptions:	[] Bottom of clear opening max. height: 44" AFF
[] Decorative glazing	[] Min net clear opening 5.7sf (821 sq. in.)
[] Intervening wall or other permanent barrier	[] Exception: Grade floor EERO min. net clear
between door and glazing	opening 5sf (720 sq. in.)
[] Where access through door is to a	
closet/storage 3' or less in depth, glazing shall	

[] Min opening height 24"	[] Tread depth ≥ 10"
[] Min opening width 20"	[] Winder tread 10" min. at intersections with
(typical: 2650 @ Grade floor openings; 3050	walkline (walkline of winder treads shall be
everywhere else)	concentric to the turn and parallel to the direction of
[] EERO under decks, porches and cantilevers	travel, and 12" from the inside of the turn)
[] fully openable	[] Winder tread min. 6" at any point
[] travel path min. 36" high and 36" wide to a yard or	[] Landings at top and bottom
court	[] Straight run stairs: landing must be 36" deep in
[] Area wells: req. where bottom of EERO is below grade	the direction of travel
[] min. 36" x 36" and as req. to allow EERO to fully open	[] width not less than the width of the flight
[] Exception: ladder or steps may encroach area	[] non rectangular shapes: depth at walk line and
by 6"	total area shall not be less than a quarter circle with
[] Ladder or steps req. with vertical depth above 44"	radius equal to the required landing width
[] Ladders and rungs: 12" min. inside width, project	[] top landing not required at interior flight of stairs
no less than 3" from wall, 18" max. spacing (field	including garage stair provided a door doesn't swing
verify)	over stair
[] Steps: 12" min. inside width, 5" min. tread depth,	[] Vertical rise for a flight of stairs ≤ 12'-7"
18" max. riser	[] Open risers over 30" from floor or grade, max. 4"
[] Full height of area well	openings
[] Drainage as required by R310.4.3: Field verify	
[] Replacement Window for EERO: Exempted from R310.2	HANDRAILS R311.7.8
& R310.4.4, provided that	[] Height not < 34" or > 38"
[] Manufacturer's largest standard size that fits within	[] Required for stairs with 4 or more risers
existing frame or rough opening	[] Required on one side
[] Replacement window is NOT part of a change of	[] Continuous for full length of flight
occupancy	
[] Dwelling additions, see R310.6	SPIRAL STAIRS R311.7.10.1
[] Alterations or repairs of existing basements, see R310.7	[] Clear width 26"
	[] Walkline radius 24-1/2"
MEANS OF EGRESS (MOE) R311	[] Tread depth min. 6-3/4" at walkline
[] Continuous, and unobstructed vertical and horizontal	[] Identical treads
path from all portions of dwelling to required egress door	[] Risers identical and 9-1/2" max.
without requiring travel through garage	[] Headroom 6'-6" min.
[] Exit door side hinged, min clear width 32" and clear	[] No opening limitation on risers
height 78" (3'0" x 6'8") opening to public way, yard or court	ALTERNATING TREAD DEVICES AND SHIPS
[] Min width of hallway 36"	ALTERNATING TREAD DEVICES AND SHIPS LADDERS
[] Egress door landings:	
[] Width: width of door min	[] Alternating Tread devices and Ship Ladders not used
[] Depth: 36" min. in direction of travel	as a means of egress
[] Interior side ≤ 1 ½" drop from threshold	Exceptions:
[] Exterior side ≤ 7 ¾" drop from threshold [] 2% max slope	[] May be used as an element of the MOE for lofts, mezzanines and similar if area does not exceed 200
	gross sf and do not provide exclusive access to a
[] Exterior landing is anchored to structure or self- supported. No nails or toe-nails	kitchen or bathroom
[] Other exterior doors: top landing not required for	[] Refer to R311.7.11 for Alternating Tread Devices
stairway of no more than 2 risers on ext. side of door	requirements
provided door doesn't swing over the stairway	[] Refer to R311.7.12 for Ships Ladders requirements
[] Storm and screen doors are allowed to swing over	[] Neler to No 11.7.12 for onlys Lauders requirements
exterior stairs and landings	GUARDRAILS R312.1
exterior stairs and landings	[] Porches, balconies, ramps, raised floor surfaces 30"
STAIRWAYS R311.7	above floor or grade at any point within 36" horizontally
[] Minimum width ≥ 36"	[] Height ≥ 36". On open side of stairs ≥ 34"
[] Handrails do not project more than 4-1/2"	[] When serving as handrails height is 34"-38"
[] Headroom: 6'-8"	[] Height measured from adjacent walking surfaces
[] Minimum landing width: stair width	(adj. fixed seating excluded)
[] Minimum landing depth: 36"	[] Openings shall not allow the passage of a 4" sphere
[] Max rise 7 ¾", variation no more than 3/8" within flight	[] Spermings small flot allow the passage of a + sprine
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Exceptions: [] Triangular openings between the bottom rail of a guard and stair steps shall not allow the passage of a 6" sphere [] Guards on the open side of stairs shall not allow the passage of a 4-3/8" sphere SMOKE ALARMS R314 [] Listing requirements. Smoke alarms: UL 217 Combination smoke alarms: UL 217 and UL 2034 [] Hard-wired, interconnected, battery backup (Battery powered allowed at remodels). Listed wireless smoke alarms allowed when one triggers the others	[] Alterations Repairs and Additions: as required for new dwellings. Exceptions: [] Work involving exterior surfaces of dwellings such as roofing, siding, window or door addition/replacement, porches and decks [] plumbing work [] mechanical work on mechanical systems that are not fuel fired ROOF VENTILATION R806 [] Required for enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the
[] Where required:[] In each sleeping room[] Outside each sleeping area in immediate vicinity	rafters [] Min. net free ventilation area (NFA) - 1/150 th of total area (1/16"-1/4" min. and max. openings)
[] On each additional story within the dwelling unit including basements, habitable attics [] Min. distance 3' from door to a bathroom with tub/shower unless this prevents the installation of a smoke alarm where required [] In hallway and room open to hallway where the ceiling height of a room open to hallway serving bedrooms exceed that of a hallway by 24" or more [] Installation near cooking appliances per R314.3.1 (field verify) [] Fire alarm systems in lieu of smoke alarms, see R314.7 [] Alterations, repairs and additions: same as required for new dwellings Exceptions: [] Work involving exterior surfaces of dwellings such as roofing, siding, window or door addition/replacement, porches and decks [] plumbing or mechanical work	Exceptions: [] Reduction to 1/300 allowed where 40%-50% of ventilation is located in the upper portion of attic or rafter space. Upper ventilators shall be located no more than 3' from ridge or highest point of space measured vertically. Where conflicts with framing members do not allow 3' or less distance from ridge or highest point, then more than 3' may be allowed [] Unvented attics and unvented enclosed rafter spaces shall be permitted with conditions as required by R806.5 ATTICS R807.1 [] Min access 22"x30" rough opening [] Live loads limit check (Table R301.5) [] Habitable Attic: Egress, stairs, SD, CO ***FOR STRUCTURAL REVIEW CHECKLIST SEE NEXT PAGE***
CO ALARMS R315 [] Listing requirements. CO alarms: UL 2034 Combination alarms: UL 217 and UL 2034 [] Hard-wired, interconnected, battery backup when more than one is required. Physical interconnection not required with listed wireless CO Alarms when all alarms sound upon activation of one [] Exception: Alterations or repairs that do not require removal of interior finishes that expose the structure, unless there is an attic, crawl space or basement that provides access for interconnection without removal of interior finishes [] Battery powered at remodels and buildings without commercial power	
[] Where required: [] Dwelling unit with attached garage with an opening communicating to the dwelling [] Dwelling unit with fuel-fired appliances [] Locations: immediate vicinity of sleeping areas [] Inside bedroom where fuel-burning appliance is located in bedroom or attached bathroom	

STRUCTURAL CHECKLIST – SEALED DRAWINGS	WOOD FRAMED WALLS R602
[] Check for engineer seal on foundation plans [] Check for architect or engineer seal on framing and bracing plans	 [] Stud height, spacing, wood grade: R602.2, R602.3 [] Headers: size, span, material: R602.7 [] Typical wall details [] Foundation, floor, ceiling connection details
[] Foundation plan matches orientation and outline of floor plan	[] Foundation anchorage: R403.1.6
 [] Foundation details including anchorage to foundation [] Floor framing plans [] Roof framing plans [] Truss layout (direction and spacing) [] Truss support structure (headers, beams, walls, columns) [] Typical framing details (wall-to-floor, wall-to-roof) [] Braced wall plan with braced wall lines (Ref. IRC R106.1.3, R602.10.1 and BCM 4.4.4.3) [] Bracing information (Ref. R106.1.3): [] methods used (fasteners/nail pattern, specific bracing method details, portal frame details) [] location and length of braced wall panels are indicated [] foundation requirements of braced wall panels at 	WOOD FRAMED FLOORS R502 [] Live loads supported: Table R301.5 [] Joist size, spacing, wood grade – R502.3 [] Girders: R502.5 [] Floor sheathing: R503 [] Framing layout: Figure R502.2 WOOD FRAMED ROOFS [] Live load supported: Table R301.6 [] Ceiling joist size, spacing and grade: R802.5 [] Rafter size, spacing and grade: R802.4.1 [] Roof sheathing: R803 [] Rafter Ties and Collar Ties: R802.4.6 [] Purlins: R802.4.5
top and bottom [] Structural verification report in lieu of structural drawings where allowed per BCM 4.4.4.6	WALL BRACING R602.10 [] Braced wall lines layout: Fig. R602.10.1.1 [] Braced wall methods used: Table R602.10.4 [] Braced wall panel locations: R602.10.2 [] Minimum length of braced wall panels: R602.10.5
STRUCTURAL CHECKLIST – UNSEALED DRAWINGS: BELOW AND RIGHT	[] End requirements for continuous sheathing: R602.10.7
ENGINEER SEAL REQUIRED Engineer stamp required for the following (BCM 4.4.4.4): [] Foundation Plans and Details on expansive soils [] Unsupported spans greater than 24 feet [] Pre-engineered systems and components	[] Sheathing attachment: Table R602.3(3) [] Details for portal frames: Fig. R602.10.6.2/3/4 WOOD DECKS R507 [] Min. uniform live load 40psf [] Architect or Engineer required: Decks with a
ENGINEER OR ARCHITECT SEAL REQUIRED [] Framing plans and details, the layout of preengineered systems, wall bracing plans and details for buildings that are: [] More than one story [] Do not meet prescriptive requirements in the IRC [] Designed as per IBC or ASCE 7 [] Decks over 4 feet in height measured vertically at any point within 36" horizontally	concentrated load, over 4 ft. in height, outside of the limitations of the IRC Tables, or not following prescriptive requirements shall require an engineered design per R301.1.3 [] Submittal requirements: [] Architectural plan and elevation(s), section(s) showing general dimensions, drop from door threshold, guards, and stairs. Enough information to show compliance with requirements for stairs and guards [] Structural plans showing footing locations, details
FOOTINGS R403 [] Footing material depth and dimensions (depth below surface min 12") [] Footing locations/dimensions [] Footing details [] Connection details	and notes, framing plan, framing details showing connections of post to footing, beam to post, joist to beams, ledger attachment, hold downs where required, and any other information necessary to demonstrate compliance with code [] Min. no. 2 grade lumber. Preservative treated where required by R317 – Field verify
PIERS IN AND SLABS ON EXPANSIVE SOILS SHALL BE DESIGNED BY A TEXAS REGISTERED ENGINEER	 [] <u>Fasteners</u> and connectors per R507.2.3 [] <u>Flashing</u> at deck attachment per R507.2.4 [] <u>Footings</u> per R507.3: Architect or Engineer registered in the State of Texas required for decks over 4 ft. in

height per the BCM. Engineer required for footing	
designs that are not prescriptive.	LESS COMMON BUILDING TYPES
[] Min. depth 12"	
[] Min. sizes per table R507.3.1 based on tributary	(INTERMODAL) SHIPPING CONTAINTERS
area and soil bearing capacity. If soil bearing	CHECKLIST 2021 IBC Section 3115
capacity is unknown, lowest bearing capacity shall	[] Engineered design required per R301.1.3
be assumed	[] Same submittal requirements as site built homes and
Exceptions:	their accessory structures
[] Footings shall not be required for free-standing	[] Anchored to foundation or other structure, shown in
decks consisting of joists directly supported on	stamped foundation or framing plans
grade over their entire length	[] Container Information IBC 3115.3 shall bear a data
[] Footings shall not be required for free standing	plate as required by IBC 3115.3. Provide legible image
decks meeting <i>all</i> of the following:	of data plate showing the required information
[] Joists bear directly on precast concrete pier	[] Joints and voids between connected or stacked
blocks at grade w/o support by beams or posts [] Deck area does not exceed 200 sq. ft.	containers at fire rated assemblies shall be protected by a fire resistant joint system
[] Walking surface not more than 20 in. above	[] Detailed design procedure shall be submitted per
grade at any point within 36 in. measured	IBC 3115.8.4, unless the simplified design detailed in
horizontally from the edge	IBC 3115.8.5 is used
[] Post sizes per Table R507.4	[] Simplified structural design of single unit containers
[] Post to footing per Fig. R507.3	per IBC 3115.8.5
Manufactured post connections or post	Limitations:
embedment min. 12" into soil or concrete pier	[] single, stand-alone detached unit supported in a
[] <u>Beam sizes</u> per R507.5 and table R507.5(1)	foundation
[] Cantilevers not to exceed ¼ of beam span	[] no notches, cuts or removal in top and bottom
[] Beam connections per R507.5.2 and Fig.	rails, corner castings, columns or any portion thereof
R507.5.1(1) and (2)	[] Level and horizontal over floor structure
[] <u>Joists</u>	[] Linear length of openings limited to 50% of side
[] Size per Table R507.6	length per Fig. 3115.8.3(1)
[] Spacing per Table R507.7	[] Min. braced wall length: 4 ft. per Fig. 3115.8.3(2)
[] Hanger at ledger and beam connections	[] Braced walls require new or existing boundary
[] Cantilevered joists: blocking over beam or other lateral restraint	elements to form a continuous load path with
[] Ledger	adequate strength and stiffness, as shown in Fig. 3115.8.5.3(3)
[] Min. 2x8 pressure preservative treated or	[] All openings to walls framed with steel with cross
naturally durable wood, min. no. 2 grade lumber	section and material grade equal or greater than the
[] no concentrated load from beams or girders	material removed
not supported on stone or masonry veneer	[] Penetrations in braced walls shall be limited per
[] flashing as req. to protect from water infiltration	IBC 3115.8.5.3, #5. Penetrations in other walls shall
[] Connections to floor framing:	not be limited
[] band joist min. 2 in. nominal solid sawn	[] End wall doors used as part of the lateral force
lumber or 1 in. engineered wood rim joist	resisting system shall be welded closed
[] band joist shall bear fully on the structure	
[] Fasteners shall comply with Table	3-D HOUSES CHECKLIST 2021 Appendix AW 3-D
R507.9.1.3	PRINTED BUILDING CONSTRUCTION
[] Placement of lag screws and bolts to be	[] Architectural plans, building elevations/sections and
field verified	details as required to show compliance with this code
[] Prescriptive lateral connections:	See applicable architectural review checklists for
[] Figure R507.9.2(1) – two hold down devices	additional review requirements
per deck within 24" from end, each having an ASD capacity of 1500#, or	[] Foundation Plans and details stamped by a Texas
[] Figure R507.9.2(2) – four hold downs per	Registered Professional Engineer [] Structural Plans and Details as required by R106:
deck each having an ASD capacity of 750#, one	Construction Documents and demonstrate compliance
within 24" of each end of ledger	with Section R301: Design Criteria, stamped by Texas
[] Deck guards to comply with R312: See	Registered Architect or Professional Engineer
GUARDRAILS checklist	[] Design Organization: Structures and building
[] Compliance with R507.10 – Field verify	elements shall be designed by an organization certified

by UL3401. The UL3401 report of findings shall be submitted for review and approval [] Visitability requirements apply RELOCATIONS [] From outside the CoA jurisdiction to inside the CoA jurisdiction, requirements at plan review:	 [] Fire separation requirements must be maintained and will be field verified [] Deferred submittal requirements: [] Texas Department of Housing and Community Affairs (TDHCA) Notice of Installation (Form T) completed by qualified TDHCA installer – due at
[] Technical review required only where the scope of work includes additions and alterations. Otherwise, if a technical review is assigned, it may be closed as "Review Not Required" [] Residential New Construction and Addition permit required [] Architectural plan exhibits required. See	field inspections RELOCATION OF A MANUFACTURED HOME [] Relocation permit not required for manufactured homes [] Plumbing and electrical permits are required for the capping of utilities
architectural review checklist [] Structural verification report for the existing house [] Structural plans documenting the addition. See	MANUFACTURED HOMES IN MOBILE HOME PARKS [] Permits shall be obtained from The Service Center
structural review checklist	MODULAR (INDUSTRIALIZED) HOMES
[] Visitability requirements DO NOT apply	[] Modular Homes licensed by TDLR
[] Additions, alterations and repairs shall comply with this code to the extent required by R102.7.1	[] Technical review will not be performed, only a completeness check. When a review is required per
[] Relocations within the CoA jurisdiction:	the exceptions listed below, additions and alterations
[] Same as above	to the approved TDLR design shall meet the City of
[] Relocation permit application required	Austin's currently adopted residential code and local
[] Visitability requirements shall be maintained if the	amendments
relocated house was permitted as new on or after	Exceptions:
February 10, 2014	[] Additions [] Alterations beyond the scope of an Express
MANUFACTURED HOMES WHERE ALLOWED IN	Permit
SINGLE FAMILY LOTS AND MH SUBDIVISIONS	[] Minimum fire separation distance complying
[] Manufactured homes and their building service	with 2021 IRC Tables R302.1 (1) and (2) shall be
equipment: uncovered decks, porches, ramps and stairs	maintained. Fire-resistant construction complying
[] <u>Technical review not required</u> Exceptions:	with 2021 IRC R302 shall be required where minimum fire separation distance cannot be
[] Uncovered decks in excess of 200 sq. ft.	maintained. Compliance required at plan review
[] Uncovered decks over 48 in. above grade	[] Submittal requirements
Permanent additions that are not building	[] Residential New Construction and Addition
service equipment	application
[] If a technical review is assigned but not required,	[] Plot plan
it may be closed as "Review Not Required" [] Submittal Requirements for Technical Review:	[] Architectural and Structural Plans and Details from manufacturer required for record set
[] Residential New Construction and Addition	[] Architectural and Structural Plans and Details
Permit Application	for additions, alterations beyond the scope of an
[] Plot plan	Express Permit and fire-resistant construction
[] Image of manufacturer compliance seal or label	details shall be required
[] Architectural, foundation, and framing plans, and	[] Permanent foundations as required for site
details as required by BCM for permanent additions	built homes. See structural review checklist
and decks requiring a review [] Permanent additions shall be structurally	[] Visitability requirements DO NOT apply [] Modular homes not licensed by TDLR
separated	[] Same requirements as any site built home
Exception:	[] ICC ES reports may be accepted as part of an
[] Structural details design by a Texas	AMOC or modification
Registered Design Professional. Calculations	
may be required to justify omission of structural	
separation [] Visitability requirements DO NOT apply	
[] violability requirements DO NOT apply	