

TOWN OF GEORGINA

BUILDING PERMIT GUIDE

NEW HOUSES AND ADDITIONS

ENCLOSED

- 1. SPECIFICATIONS AND REQUIREMENTS
- 2. PERMIT APPLICATION PROCESS CHECKLIST
- 3. SAMPLE SITE PLAN
- 4. CONSTRUCTION DETAILS -ATTACHMENTS
- 5. CONSTRUCTION SPECIFICATIONS AND SCHEDULES

This Information is provided for convenience purpose only. All projects must be evaluated in its own merits. More or less information may be required

New Houses and Additions

All new houses and additions to an existing building or structure required a building permit. Your first stop should be to the Town Planning & Building Department to obtain the zoning information that you will need in order to establish the parameters of construction. This inquiry will reveal height, depth, setback and lot coverage restrictions.

Design is the next step and you will need a set of construction drawings before the Building Division will issue the permits prior to construction. All addition projects are required to

- Demonstrate compliance with local zoning by-laws, Ontario building code and all applicable laws
- Clearance from Lake Simcoe Region Conservation authority (Most projects) and
- Lot grading approval from the Engineering Division

Once the completed set of building permit construction drawings are filed at the building division it takes up to 10 business days (after all applicable laws received) before the permits are issued

When applying for a building permit we require:

- Application for a Permit to Construct or Demolish
- Schedule 1 Designer Information
- (2) Copies of detailed site plan (showing all building, set back to lot lines of all existing and proposed building, lot dimensions etc.) Site plan should be based on a recent survey of the lot
- (2) Copies of all construction drawings drawn to scale and dimensioned.
- (2) Copies of the heat loss design and calculations
- Layouts for Engineered floor and roof systems
- Septic system information (If applicable)
- Letter of Authorization signed by owner (If applicant is an agent)
- Permit application process checklist
- Permit fees per ft2 for all floor area (Including attached garage space)
- Deck and porch construction drawings
- Connection to municipal services included
- Flat fee for Woodstove and each Masonry fireplace
- Occupancy Deposit to be paid. This Deposit is refunded if a Final Inspection is passed within 6 months of occupancy occurring.

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PERMIT APPLICATION PROCESS CHECKLIST

SINGLE FAMILY DWELLING/ADDITION

905-476-4301

building@georgina.ca

<u>Required for Application Submission</u>: Application and Schedule 1, Permit fees, 2 Copies of a Site Plan, 2 Sets of Construction Drawings. Additional required documents may follow at a later date.

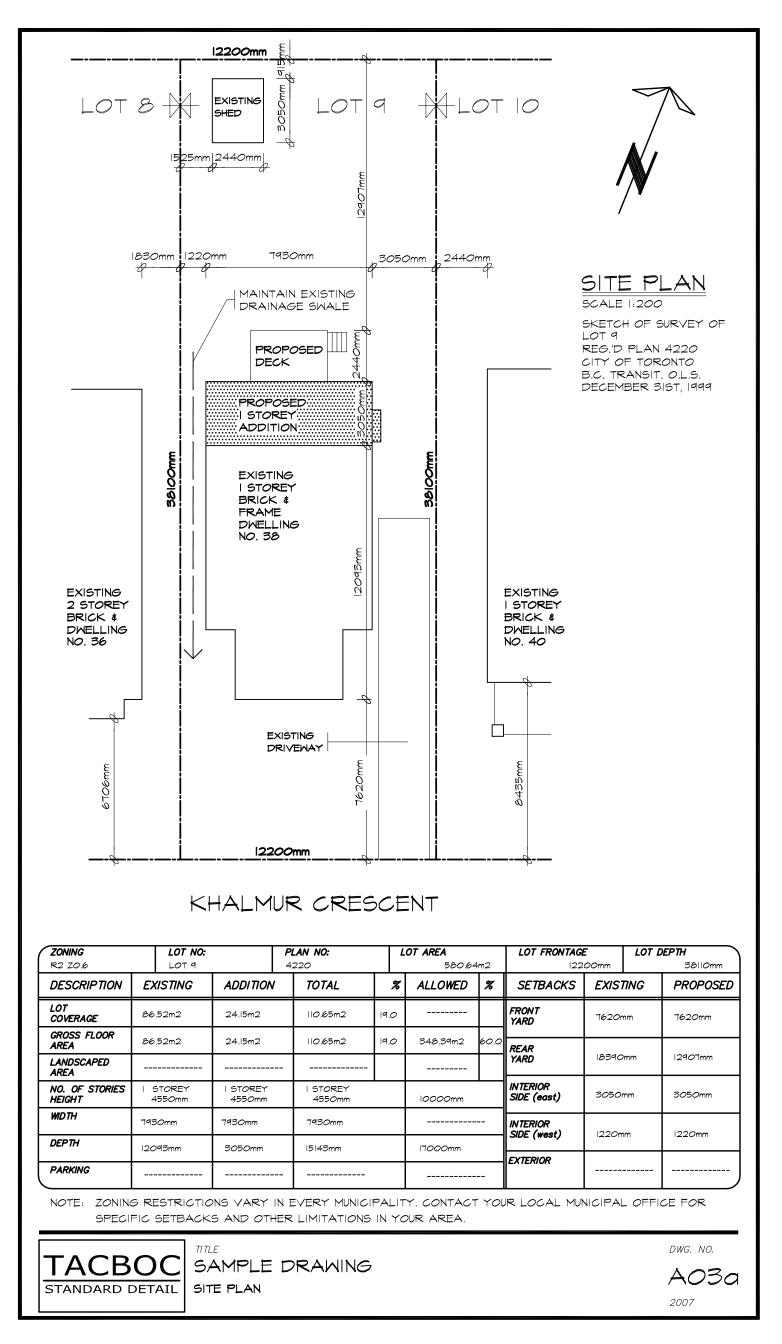
Application Number: _

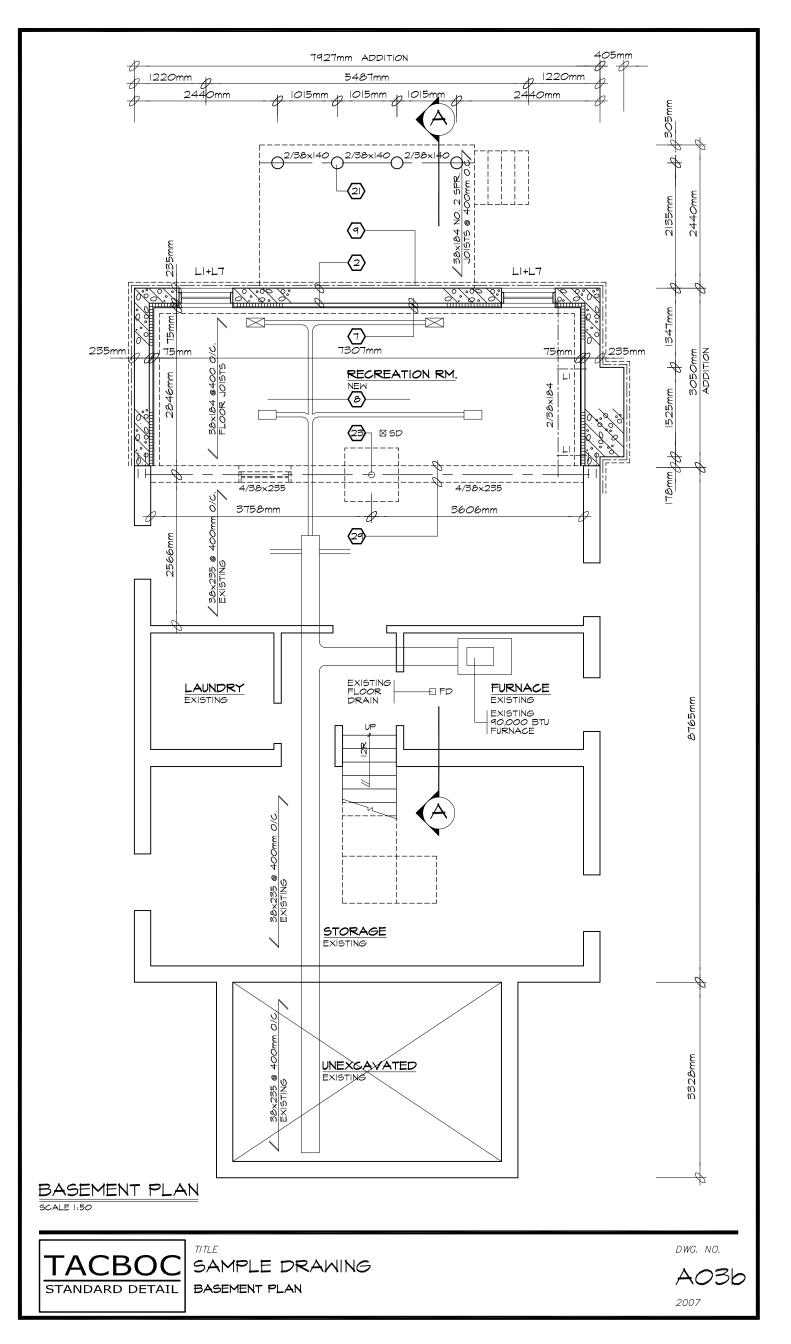
	-	
REQ'D	REC'D	
		Detailed Site Plan (showing all buildings, setbacks to lot lines of all existing and proposed buildings, lot dimensions, north indicator, civic address, wells/septic, driveway location, watercourses, ponds, rivers, street location). Highlight new construction. Site plan to
		match that submitted for lot grading and LSRCA approval.
		Foundation Plan (beams, layout of floor joists, size, span, specs of all joists and beams)
		For Additions: Existing foundation system and connection details
		Floor Plans (all rooms identified, bedroom closets, plumbing fixtures size, span, spacing
		of framing above i.e. second floor or roof plan)
		Cross Sections
		Elevations (all doors and windows indicated including lintel sizes, roofing material, exterior cladding)
		Truss Drawings Sealed by P. Eng
		or
		Roof Framing Details if Roof is Conventionally Framed (Cut-Roof)
		Heat Loss: Schedule 1 for Duct Design
		Heat Loss Calculations (for new and addition 15% of the living space,
		size and location of the duct required)
		Duct Design (or mechanical plans) Mechanical Ventilation Summary Sheet
		Energy Efficiency Summary Sheet
		Layouts for Engineered Floor or Roof Systems such as Nascor, Jagar, TJI etc.
		Spec Sheets for Products such as LVL, PSL, LSL Beams etc.
		Schedule 1 - Designer
		Part 8 Approval (for construction related to a septic system)
		Site Alteration Permit Provide Application, 2 copies Grading Plan, Fees \$
		Permit to Connect
		Entrance Permit Town Region (895-1231x75207) MTO (416-235-4276)
		For Town of Georgina Roads, Apply at the first floor Service Georgina counter \$ 200
		Lake Simcoe Region Conservation Authority Approval (if applicable) \$ (905-895-1281 ext. 266 or 1-800-465-0437)
		Letter of Authorization Signed by Owner
		House Number (please provide an 8x11 site plan)
		be removed within an area that would constitute a woodlot of more than 0.5 acres, please contact the cipality of York. 1-877-464-9675 x75258
** A Roa	ad Occup	ancy Permit is required for any work or parking of vehicles or construction equipment on a Town lowance. Please apply at the first floor Service Georgina Counter. 905-476-4301 ext. 2443
		review will be completed by the Zoning Examiner and Plans Examiner, at which time more information amendments to the drawings may be required.

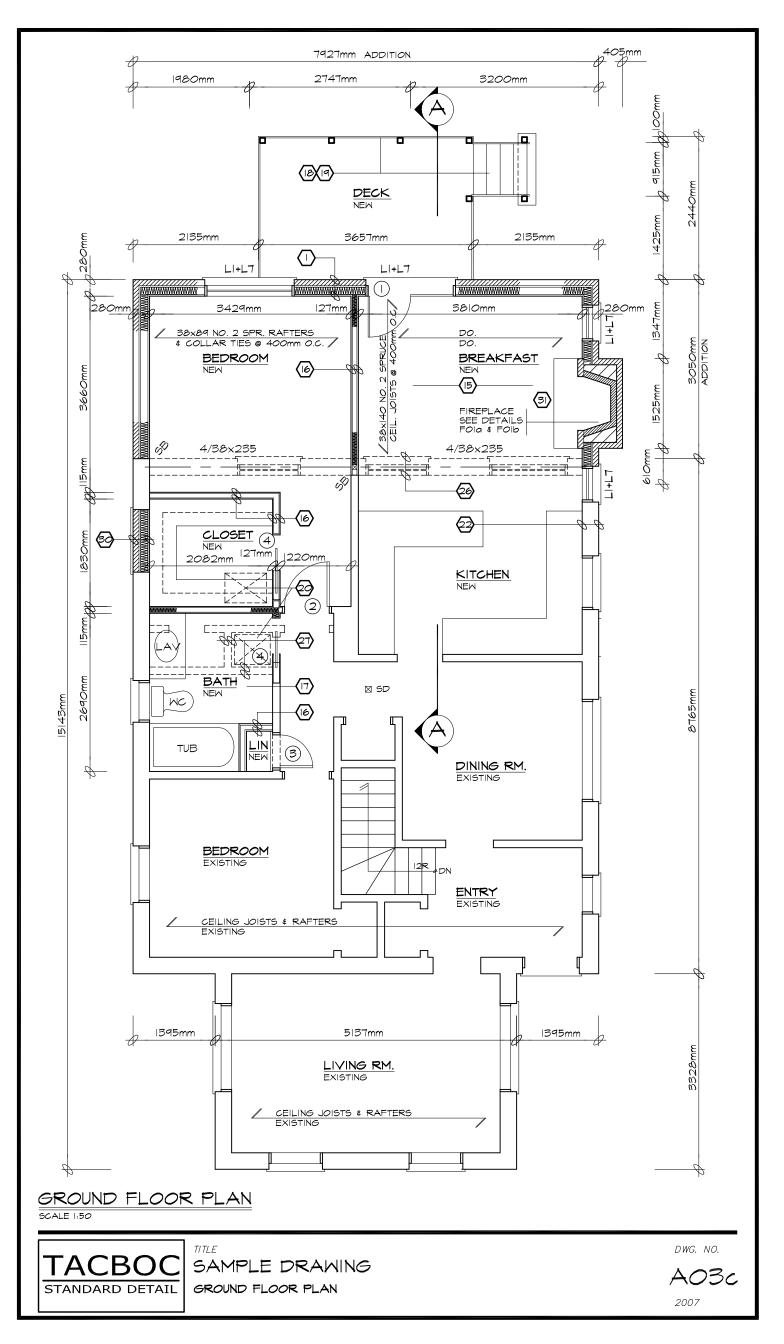
Please note that Developments Charges may apply, confirm with the Zoning Examiner

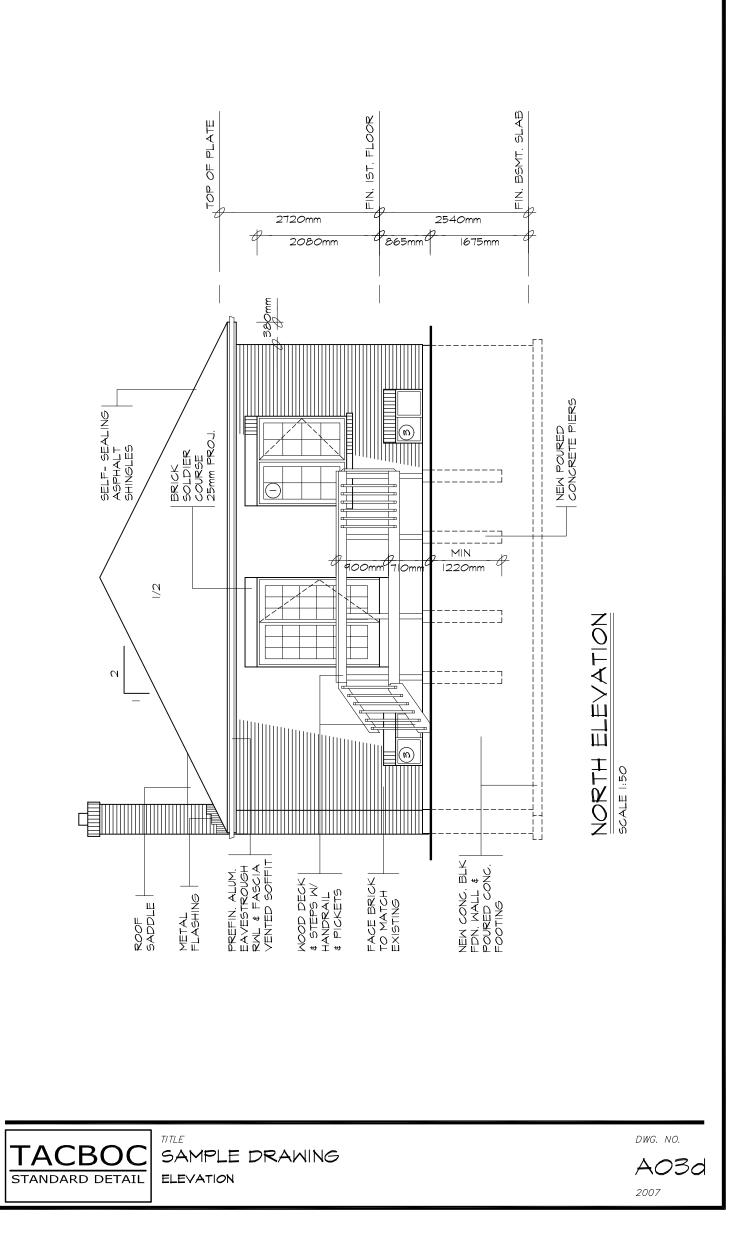
Please review the refund policy for building permits: <u>Building By-law 2015-0150</u> Section 16.1-16.

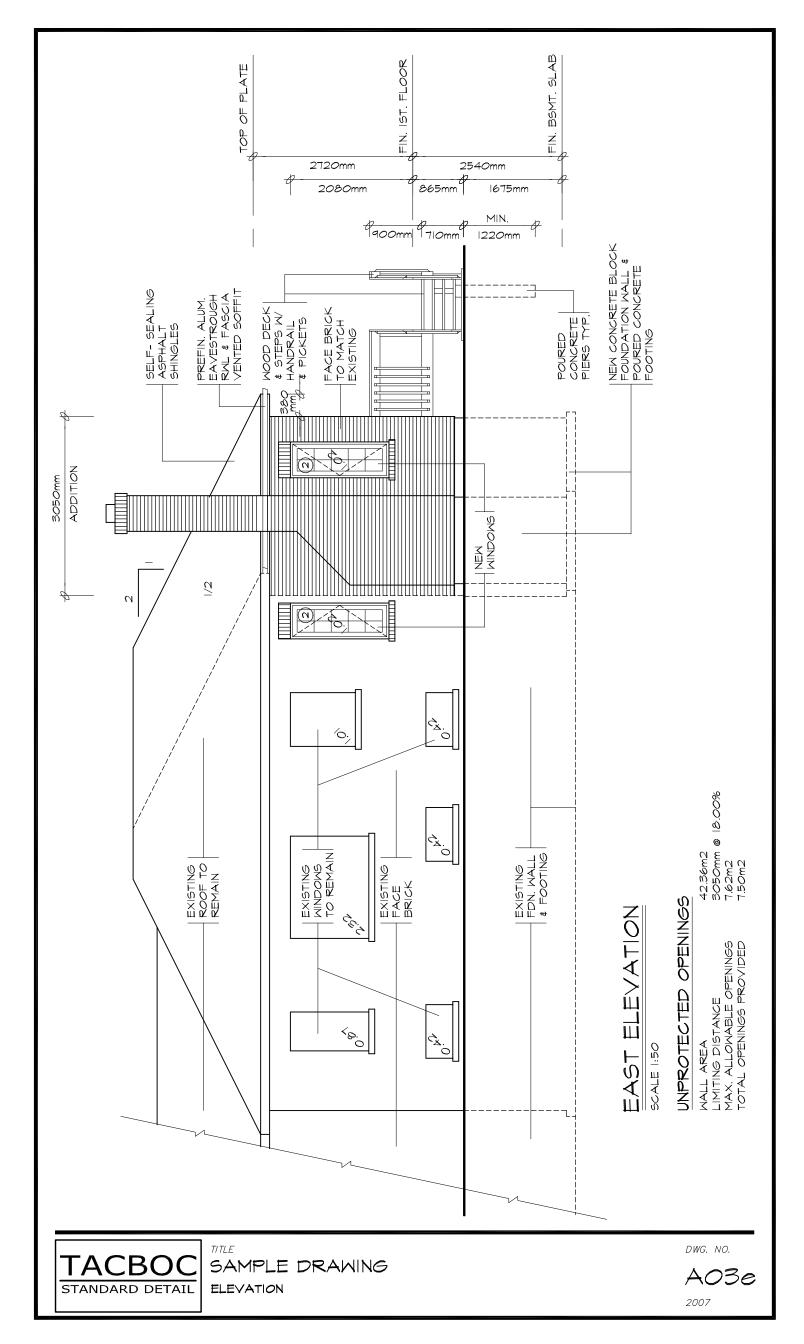
Y://FORMS/Permit App. Checklist – Single Family Dwelling or Addition – 2018/01/24

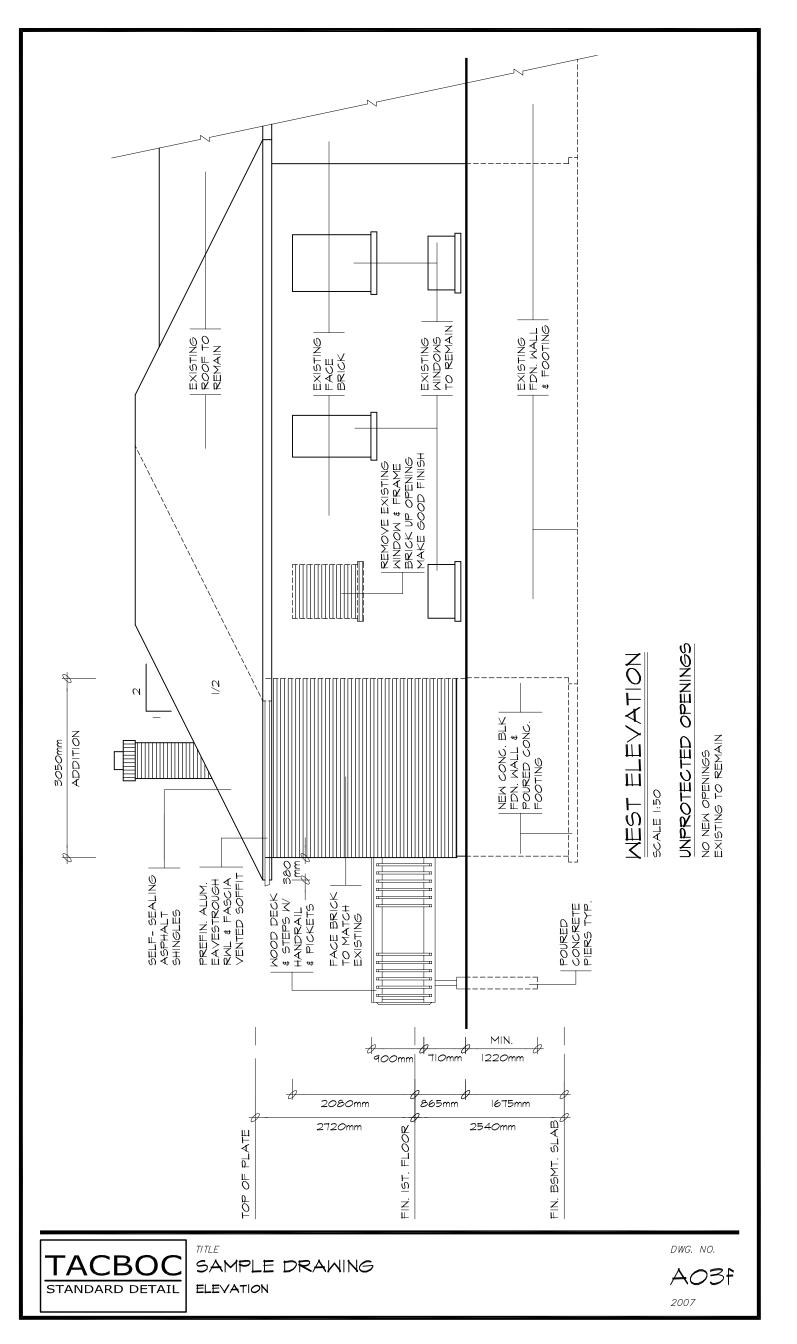


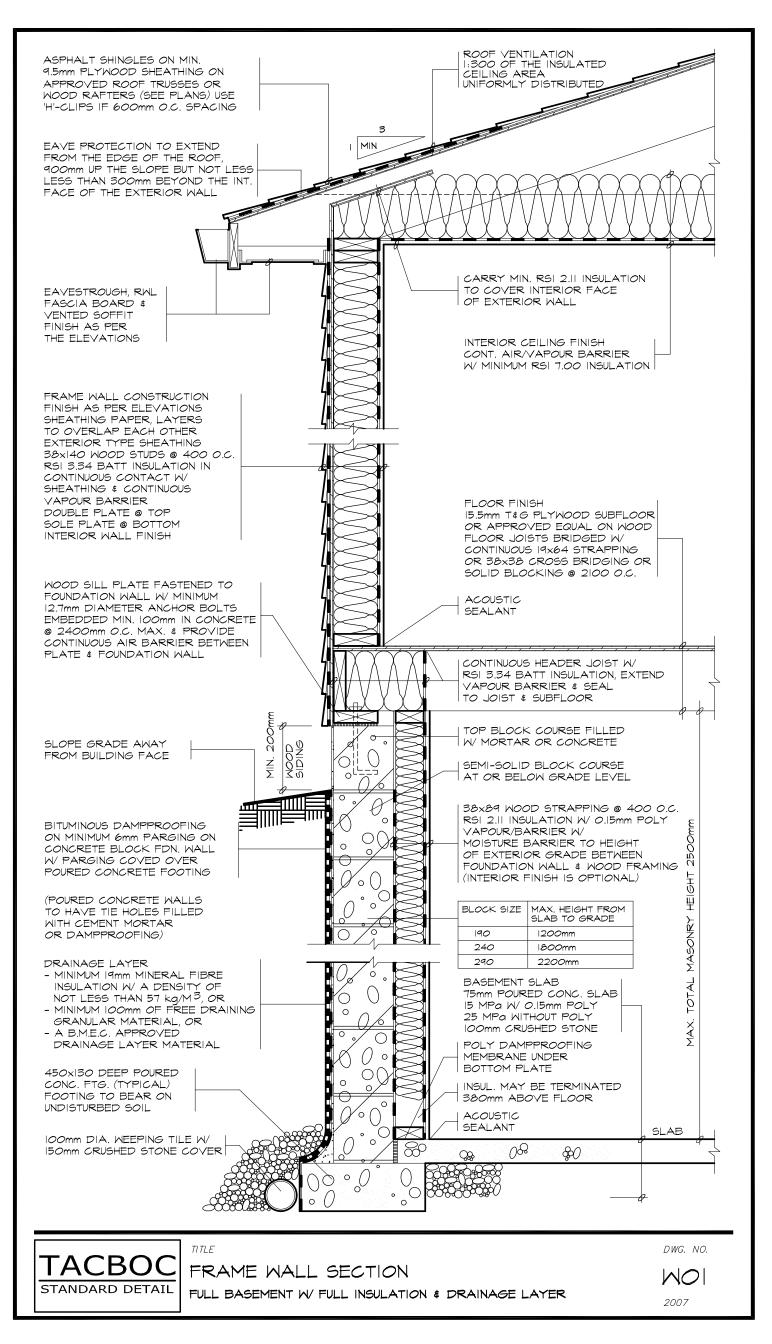


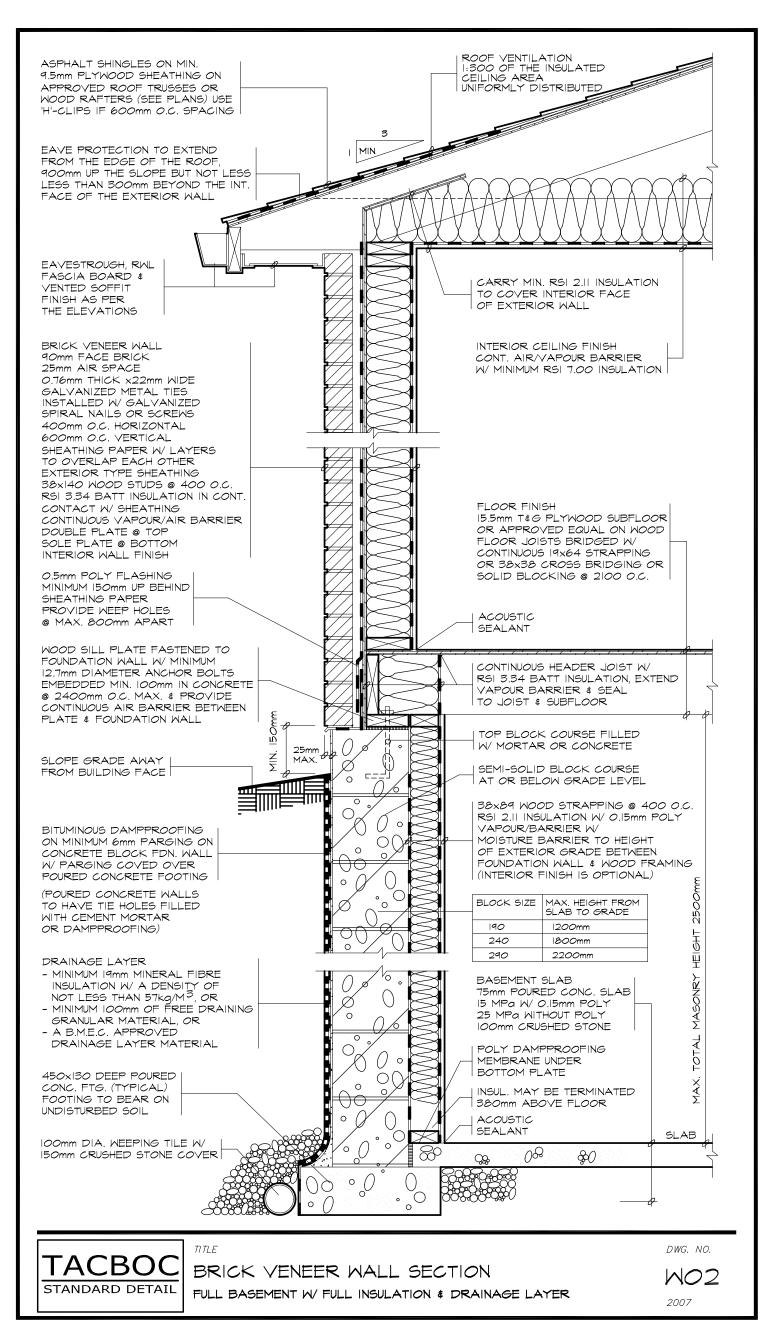


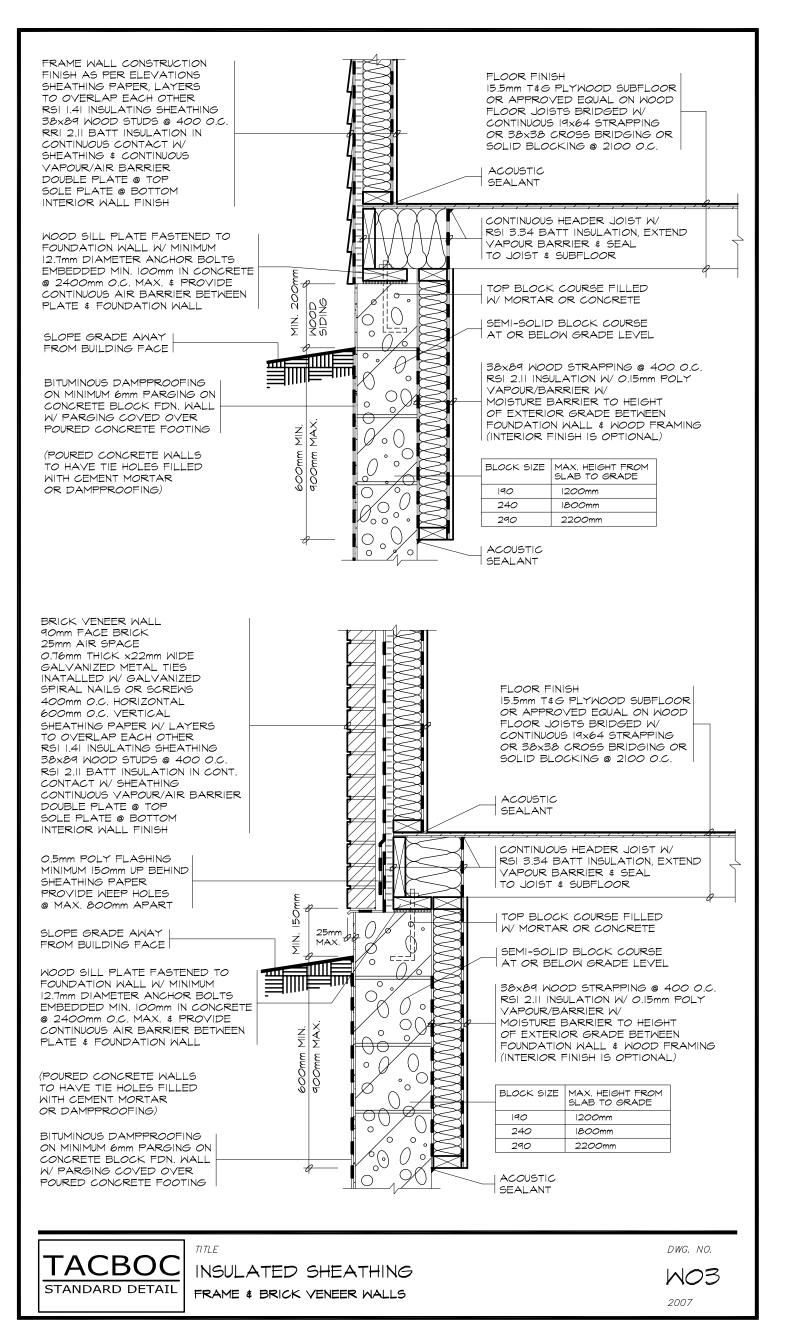


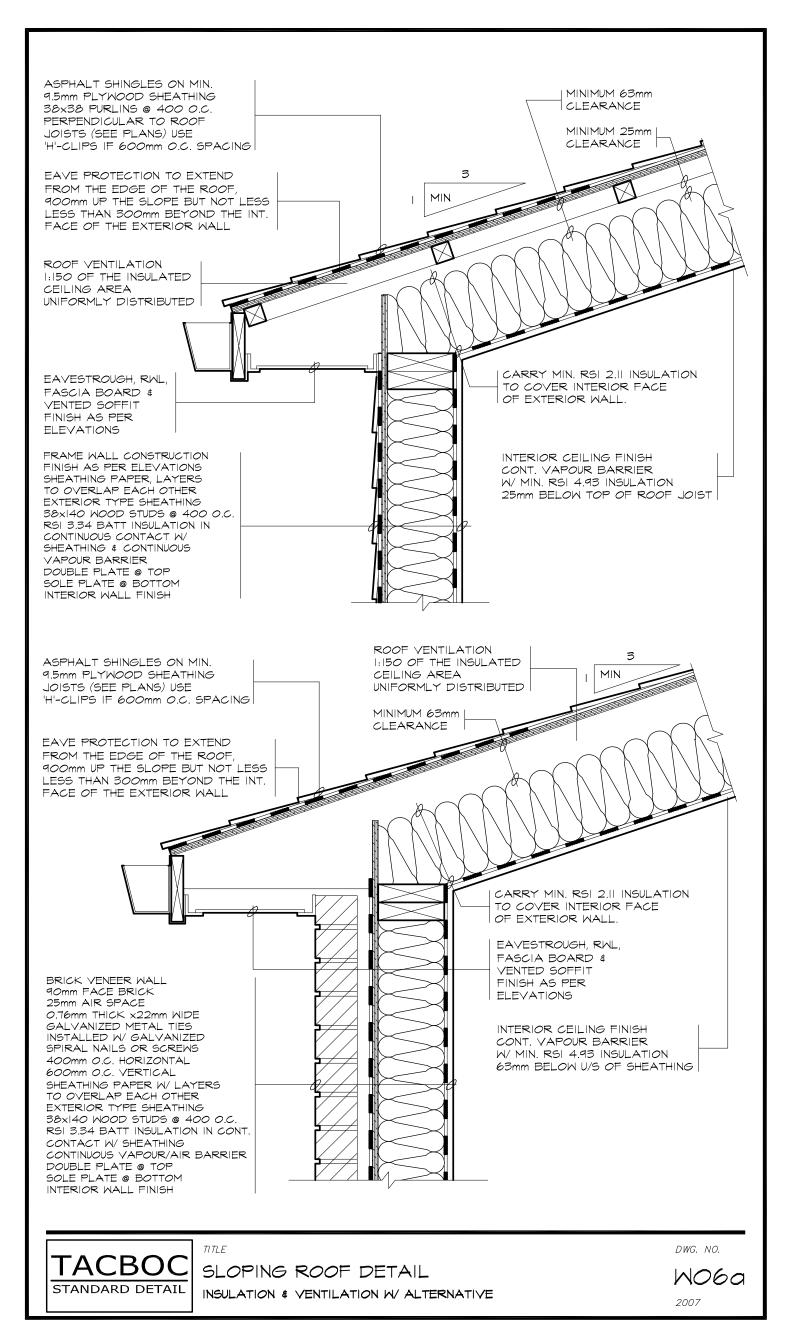


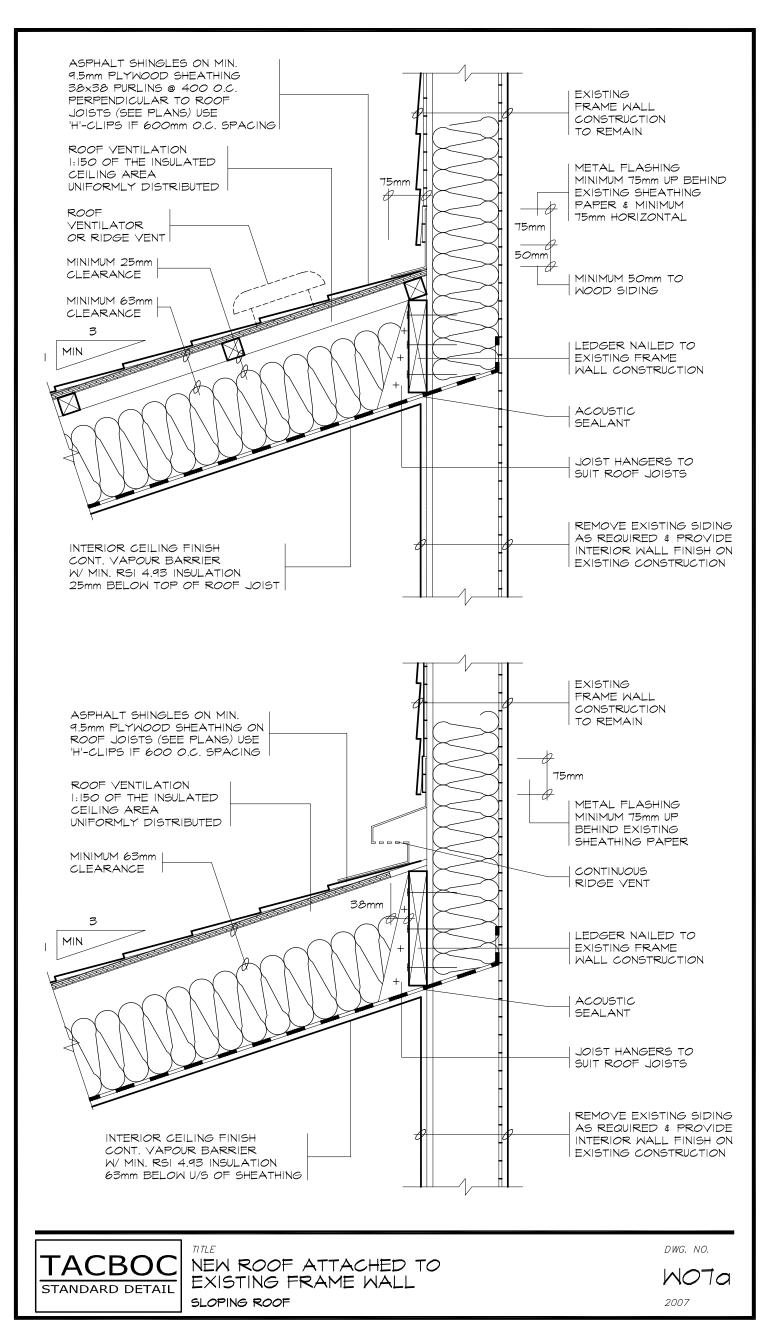












Excavation and Backfill

- Excavation shall be undertaken in such a manner so as to prevent damage to existing structures, adjacent property and utilities
- The topsoil and vegetable matter in unexcavated areas under a building shall be removed. The bottom of excavations for foundations shall be free of all organic material
- If termites are known to exist, all stumps, roots and wood debris shall be removed to a minimum depth of **300mm** in excavated areas under a building, and the clearance between untreated structural wood elements and the ground shall be no less than **450mm**
- Backfill within 600mm of the foundation walls shall be free of deleterious debris and boulders over 250mm in diameter

Dampproofing and Drainage

- In normal soil conditions, the exterior surfaces of foundation walls enclosing basements and crawl spaces shall be dampproofed. Where hydrostatic pressure occurs, a waterproofing system is required
- Masonry foundation walls shall be parged with 6mm of mortar coved over the footing prior to dampproofing
- **IOOmm** dia. foundation drains shall be laid on level, undisturbed ground adjacent to the footings at or below the top of the basement slab or crawl space floor, and shall be covered with **I5Omm** of crushed stone. Foundation drains shall drain to a storm sewer, drainage ditch, dry well or sump
- Window wells shall be drained to the footing level or to a ditch or sump pump.
- Downspouts not directly connected to a storm sewer shall have extensions to carry water away from the building, and provisions shall be made to prevent soil erosion
- Concrete slabs in attached garages shall be sloped to drain to the exterior
- The building site shall be graded so that surface, sump and roof drainage will not accumulate at or near the building and will not adversely affect adjacent properties

Footings

- minimum **I5MPa** poured concrete
- minimum 1200mm below finished grade
- Footings shall be founded on natural undisturbed soil, rock or compacted granular fill with minimum bearing capacity of 75kPa

100kPa for ICF

Footing Size

Floors	Supporting	Supporting	Column
Supported	Ext. Wall	Int. Wall	Area
· '	250mm	200mm	0.40m2
2	350mm	350mm	0.75m2
3	450mm	500mm	1.00m2

- Increase exterior footing width by 65mm for each storey of brick veneer supported, by 130mm for each storey of masonry and by 150mm for ICF
- Increase interior footing width by IOOmm for each storey of masonry above footing, and by IOOmm for each 2700mm of wall height above 5500mm
- The projection of an unreinforced footing beyond the wall supported shall not be greater than its thickness

Step Footings

600mm max. rise
 600mm min. run

Foundation Walls

- To be poured concrete, unit masonry, ICF or preserved wood (see drawings for type and thickness)
- Dampproofing shall be a heavy coat of bituminous material.
- Foundation wall to extend minimum **150mm** above finished grade.
- A drainage layer is required on the outside of a foundation wall where the interior insulation extends more than **900mm** below exterior grade. A drainage layer shall consist of
 - Min. I9mm mineral fibre insulation with min.
 Density of 57 kg/m³
 - Min. IOOmm of free drainage granular material, or
 - An approved system which provides equivalent performance
- Foundation walls shall be braced or have the floor joists installed before backfilling

Concrete Floor Slabs

- Garage, carport and exterior slabs and exterior steps shall be 32MPa concrete with 5-8% air entrainment
- Basement slab 25MPa concrete, minimum 75mm thick, placed on a minimum 100mm of coarse, clean, granular material
- All fill other than coarse clean material placed beneath concrete slabs shall be compacted to provide uniform support

Masonry Walls

- Where constructed of **90mm** brick, wall shall be bonded with a header course every **600mm** o/c vertically and horizontally and **900mm** o/c for block or tile.
- Provide 50mmsolid masonry, concrete filled top course or continuous 38x89 wood plate under all roof and floor framing members
- Provide 190mm solid masonry under beams and columns
- Masonry wall to be tied to each tier of joists with 40mm x 4.76mm corrosion resistant steel straps, keyed minimum 100mm into masonry. When joists are parallel to wall, ties are to extend across at least 3 joists @ 2000mm o.c.
- Inside of wall to be parged and covered with No. 15 breather-type asphalt paper
- For reduced foundation walls to allow a brick facing while maintaining lateral support, tie minimum 90mm brick to minimum 90mm backup block with corrosion resistant ties at least 17.8mm² in cross sectional area, spaced 200mm vertically and 900mm horizontally, with joints completely filled with mortar
- Masonry over openings shall be supported on corrosion resistant or prime painted steel lintels with a minimum of ISOmm end bearing

Masonry Veneer

- Minimum **70mm** thick if joints are not raked and **90mm** thick if joints are raked
- Minimum 25mm air space to sheathing
- Provide weep hole's @ 800mm o.c. at the bottom of the cavity and over doors and windows
- Direct drainage through weep holes with 0.5mm poly flashing extending minimum 150mm up behind the sheathing paper
- Veneer ties minimum O.76mm thick x 22mm wide corrosion resistant straps spaced @ 500mm vertically and 600mm horizontally
- Fasten ties with corrosion resistant 3.18mm diameter screws or spiral nails which penetrate at least 30mm into studs



SPECIFICATION - BUILDING CODE STANDARDS Excavation, concrete & masonry



Wood Frame Construction

- All lumber shall be spruce-pine-fir No. **| \$ 2**, and shall be identified by a grade stamp
- Maximum moisture content 19% at time of installation
- Wood framing members which are supported on concrete in direct contact with soil shall be separated from the concrete with O.O5mm polyethylene or type 'S' roll roofing

Walls

- Exterior walls shall consist of:
- cladding
- air barrier system lapped 100mm at joints
- · lumber, plywood, OSB or gypsum sheathing
- 38x140 studs @ 400mm o.c.
- RSI 3.34 insulation
- 38x140 bottom plate
- 38x140 double top plate
- Interior loadbearing walls shall consist of:
 - 38x89 studs @ 400mm o.c.
 - 38x98 bottom plate and double 38x89 top plate
 - 38x89 mid-girts if not sheathed
 - 12.7mm gypsum board sheathing

Floors

- See **SOld** for floor joist size and spacing requirements
- Joists to have minimum **38mm** of end bearing
- Joists shall bear on a sill plate fixed to foundation with 12.7mm anchor bolts @ 2400mm o.c
 Header joists between 1200mm and 3200mm in
- length shall be doubled. Header joists exceeding **3200mm** shall be sized by calculations Trigunga joists alkall be adducted by calculations
- Trimmer joists shall be doubled when supported header is between 800mm and 2000mm. Trimmer joists shall be sized by calculations when supported header exceeds 2000mm
- 38x38 cross bridging required not more than 2100mm from each support and from other rows of bridging
- Joists shall be supported on joist hangers at all flush beams, trimmers, and headers.
- Non-loadbearing partitions shall be supported on a joist or on blocking between joists.
- See 501d for subflooring requirements

Roof & Ceilings

- See SOId for rafter, roof joist and ceiling joist size and spacing requirements
- Hip and valley rafter shall be 38mm deeper than common rafters
- 38x89 collar ties @ rafter spacing with 19x89 continuous brace at mid span if collar tie exceeds 2400mm in length
- See SOId for roof sheathing requirements

Notching & Drilling of Trusses, Joists, Rafters

- Holes in floor, roof and ceiling members to be not larger than 1/4 the actual depth of member and not less than 50mm from edges
- Notches in floor, roof and ceiling members to be located on top of the member within 1/2 the actual depth from the edge of bearing and not greater than 1/3 the joist depth
- Wall studs may be notched or drilled provided that no less than 2/3 the depth of the stud remains, if load bearing, and 40mm if non-load bearing
- Roof truss members shall not be notched, drilled or weakened unless accommodated in the design

Roofing

- Fasteners for roofing shall be corrosion resistant. Roofing nails shall penetrate through or at least I2mm into roof sheathing
- Every asphalt shingle shall be fastened with at least 4 nails for IOOOmm wide shingle (or 6 IImm staples)
- Eave protection shall extend **900mm** up the roof slope from the edge, and at least **300mm** from the inside face of the exterior wall, and shall consist of Type M or Type S Roll Roofing laid with minimum **100mm** head and end laps cemented together, **or** glass Fibre or Polyester Fibre coated base sheets, **or** self sealing composite membranes consisting of modified bituminous coated material or **NO.15** saturated felt lapped and cemented. Eave protection is not required for unheated buildings, for roofs exceeding a slope of **1 in 1.5**, or where a low slope asphalt shingle application is provided
- Open valleys shall be flashed with 2 layers of roll roofing, or 1 layer of sheet metal min.
 600mm wide
- Flashing shall be provided at the intersection of shingle roofs with exterior walls and chimneys
- Sheet metal flashing shall consist of not less than
 I.73mm sheet lead, 0.33mm galvanized steel, 0.33mm copper, 0.35mm zinc, or 0.48mm aluminum

Columns, Beams & Lintels

- Steel beams and columns shall be shop primed 350W steel.
- Minimum 89mm end bearing for wood and steel beams, with 190mm solid masonry beneath the beam.
- Steel columns to have minimum outside diameter of 73mm and minimum wall thickness of 4.76mm
- Wood columns for carports and garages shall be minimum 89mm x 89mm; in all other cases either 140mm x 140mm or 184mm round, unless calculations based on actual loads show lesser sizes are adequate. All columns shall be not less than the width of the supported member
- Masonry columns shall be a minimum of 290mm x 290mm or 240mm x 380mm
- Provide solid blocking the full width of the supported member under all concentrated loads

Insulation & Weatherproofing

Ceiling with attic		RSI	7.00
Roof without attic		RSI	4.93
Exterior Wall		RSI	3.34
Foundation Wall		RSI	2.11
Foundation > 50%	exposed	RSI	3.34
Exposed Floor		RSI	4.40
Slabs on Grade	(unheated)	RSI	1.41
	(heated)	RSI	1.76

- Supply Ducts in unheated space RSI 2.11 Insulation shall be protected with gypsum board or an equivalent interior finish, except for unfinished basements where 0.15mm poly is sufficient for fibreglass type insulations
- Ducts passing through unheated space shall be made airtight with tape or sealant
- Caulking shall be provided for all exterior doors and windows between the frame and the exterior cladding
- Weatherstripping shall be provided on all doors and access hatches to the exterior, except doors from a garage to the exterior
- Exterior walls, ceilings and floors shall be constructed so as to provide a continuous barrier to the passage of water vapour from the interior and to the leakage of air from the exterior



SPECIFICATION - BUILDING CODE STANDARDS WOOD FRAME CONSTRUCTION & INSULATION



Natural Ventilation

- Every roof space above an insulated ceiling shall
- be ventilated with unobstructed openings equal to not less than 1/300 of the insulated ceiling area
- Insulated roof spaces not incorporating an attic shall be ventilated with unobstructed openings equal to not less than I/I50 of the insulated ceiling area.
- Roof vents shall be uniformly distributed with min. 25% at top of the space and 25% at bottom of the space designed to prevent the entry of rain, snow or insects
- Unheated crawl spaces shall be provided with O.Im² of ventilation for each 50m²
- Minimum natural ventilation areas, where mechanical ventilation is not provided, are: Bathrooms: 0.09m² other rooms: 0.28m²

Unfinished basement: 0.2% of floor area

Doors and Windows

- Every floor level containing a bedroom and not served by an exterior door shall contain at least I window having an unobstructed open area of 0.35m² and no dimension less than 380mm, which is openable from the inside without tools. Maximum sill height 1000mm for fin. floors above grade.
- Exterior house doors and windows within 2000mm from grade shall be constructed to resist forced entry. Doors shall have a deadbolt lock
- The principal entry door shall have either a door viewer, transparent glazing or a sidelight

Exterior Walls

- No windows or other unprotected openings are permitted in exterior walls less than 1200mm from property lines
- 15.9mm type 'x' fire rated drywall shall be installed on the inside face of attached garage exterior walls and gable ends of roofs which are less than 1200mm and not less than 600mm from property lines
- Non combustible cladding shall be installed on all exterior walls less than 600mm from property lines

Ceramic Tile

 When ceramic tile is applied to a mortar bed with adhesive, the bed shall be a minimum of 12.5mm thick & reinforced with galvanized diamond mesh lath, applied over polyethylene on subflooring on joists at no more than 400mm o.c. with at least 2 rows cross bridging

Access to Attics and Crawl Spaces

- Access hatch minimum 545mmx 588mm to be provided to every roof space which is IOm² or more in area and more than 600mm in height
- Access hatch minimum 500mmx 700mm to be provided to every crawl space

Garage Gasproofing

- The walls and ceiling of an attached garage shall be constructed and sealed so as to provide an effective barrier to exhaust fumes
- All plumbing and other penetrations through the walls and ceiling shall be caulked
- Doors between the dwelling and attached garage may not open into a bedroom and shall be weatherstripped and have a self-closer

Alarms and Detectors

- At least one smoke alarm shall be installed on or near the ceiling on each floor and basement level
 900mm or more above an adjacent level
- Smoke alarms shall be interconnected and located such that one is within 5m of every bedroom door and no more than 15m travel distance from any point on a floor
- A carbon monoxide detector shall be installed adjacent to every sleeping area for dwellings with fuel burning fireplace or stove, or an attached garage

Stairs

- Maximum Rise
 Minimum Run
- Minimum Tread

6

Minimum Head Room 1950mm

200mm

210mm

235mm

860mm

- Minimum Width
- Curved stairs shall have a min. run of ISOmm at any point and a minimum average run of 200mm
- Winders which converge to a point in stairs must turn through an angle of no more than 90°, with no less than 30° or more than 45° per tread. Sets of winders must be separated by 1200mm along the run of the stair
- A landing is required at the top of any stair leading to the principal entrance to a dwelling and other exterior entrances with more than 3 risers
- Exterior concrete stairs with more than 2 risers require foundations

Handrails and Guards

- A handrail is required for interior stairs containing more than 2 risers and exterior stairs containing more than 3 risers
- Guards are required around every accessible surface which is more than 600mm above the adjacent level and where the adjacent surface has a slope more than 1:2
- Interior and exterior guards min. 900mm high.
 Exterior guards shall be 1070mm high where height above adjacent surface exceeds 1800mm
- Guards shall have openings smaller than 100mm and no member between 140mm and 900mm that will facilitate climbing

Plumbing

- Every dwelling requires a kitchen sink, lavatory, water closet, bathfub or shower stall and the installation or availability of laundry facilities
- A floor drain shall be installed in the basement, and connected to the sanitary sewer where gravity drainage is possible. In other cases, it shall be connected to a sewage ejection pump.

Electrical

- An exterior light controlled by an interior switch is required at every entrance
- A light controlled by a switch is required in every kitchen, bedroom, living room, utility room, laundry room, dining room, bathroom, vestibule, hallway, garage and carport. A switched receptacle may be provided instead of a light in bedrooms and living rooms
- Stairs shall be lighted, and except where serving an unfinished basement shall be controlled by a 3 way switch at the head and foot of the stairs
- Basements require a light for each 30m², controlled by a switch at the head of the stairs

Mechanical Ventilation

- A mechanical ventilation system is required with a total capacity at least equal to the sum of:
 - 10.0 L/S each for basement and master bedroom
 - 5.0 L/S for each other room
- A principal dwelling exhaust fan shall be installed and controlled by a centrally located switch identified as such
- Supplemental exhaust shall be installed so that the total capacity of all kitchen, bathroom and other exhausts, less the principal exhaust, is not less than the total required capacity
- A Heat Recovery Ventilator may be employed in lieu of exhaust to provide ventilation. An HRV is required if any solid fuel burning appliances are installed
- Supply air intakes shall be located so as to avoid contamination from exhaust outlets



SPECIFICATION - BUILDING CODE STANDARDS GENERAL INFORMATION, ELECTRICAL, MECHANICAL



				MA	١X	мим	CLEAR	SPAN	N (N	٨)				
	F	ROOF SI	NOW LO	AD 1.5	kF	°a		ROC	DF S	SNOW	LOAD 2	.0 kPa		
RAFTER SIZE	RAFTER SPACING (mm) O.C.			RAFTER SPACING (mm) 0.0				o	
	300	600			300 400			400	600					
38x89	2.72		2.47			2.16			2.47		2.24		1.96	
38x140	4.28		3.89			3.40		3.89	3.89		3.53		3.08	
38x184				4.41					4.64			3.89		
38x235	7.18		6.52		5.	39		6.52			5.82		4.75	
ROOF	JOIST	<u>S</u> (WHERE	CEILING	; 19	S INS	TALLED))						
				MA	١X	MUM	CLEAR	SPAN	N (N	A)				
IOIOT	F	ROOF SI	NOW LO	AD 1.5	kF									
JOIST SIZE		JOIST SI	PACING	(mm)	mm) 0.C.			JOIS	ST S	SPACIN	IG (mm) O.C.		
	300		400		6	00		300			400		600	
38x89	2.16		1.96		1.			1.96			1.78		1.56	
38x140	3.40		3.08			69		3.08			2.80		2.45	
38x184	4.46		4.05			54		4.05			3.68		3.22	
38x235	5.70		5.18		4.	52		5.18			4.70		4.11	
LOOR	JOIS	15												
				MA	XII	MUM	CLEAR	SPAN	1 (N	1)				
	19x64m						ROSS			STRAP	PING			NCRET
JOIST	OR DRY			BRID			<u> </u>							<u> </u>
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38x89	1.86	1.72	1.58	1.99	<u> </u>	.81	1.58	1.99	_	1.81	1.58	1.99	1.81	1.58
38x140	2.92	2.71	2.49	3.14	-	2.85	2.49	3.14		2.85	2.49	3.14	2.85	2.49
38x184	3.54	3.36	3.20	3.81	3	3.58	3.27	3.99		3.72	3.27	4.12	3.75	3.27
38x235	4.17	3.96	3.77	4.44	+	1.17	3.92	4.60	_	4.29	4.00	5.27	4.79	4.13
38x286	4.75	4.52	4.30	5.01	4	4.71 C		5.17		4.82	4.49	6.23	5.81	4.79
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MA		CLEAR	SPAN (M)]			_					
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38x89 38x140	3.11	2.8		2.47		4	00	15.5			15.9	17.0		
38x184				3.89 5.11		5	00		15.5			15.9 1		9.0
38x235			6.52		60	00			18.5		19.0	1	9.0	
ROOF	SHEA	THIN	G											
ROOF	ROC	DF SHE	EATHING			CKNES	s R	DOF S	SHE	ATHIN			KNESS	
FRAMING (mm) 0.C		JPPORTED	EDGES	(mm)						IOVE, 'H' E SUPPC		mm)		
300 7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER						7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER								
9.5 PLYWOOD, 11.1 WAFER BD.							7.5	5 PLYWO	OD, S	9.5 WAF	ER BD.			
12.5 PLYWOOD						OR 17.0 LUMBER 9.5 PLYWOOD, 11.1 WAFER BD. OR 19.0 LUMBER								
		<u>19.0 LUMB</u>						19.0 LL	JMBEI	ĸ				l
GENE	RAL	NOTE	2											
	LUMBER TO								- 0					
	PPING & C S OF STRAI				JUM				αι	UNER				
	NG JOIST T SSIBLE BY			IED ONLY	WH	IERE A	TTIC IS N	ЮТ						
4. WHEF	RE FINISHED	FLOORIN	G CONSIS	TS OF 19m	nm	WOOD	STRIPS,	SUBFLO	OR					
MAY	BE REDUC	EU IU 12.	/mm.											
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