



GETTING IT RIGHT FIRST TIME!

YOUR GUIDE TO THE BUILDING INSPECTION PROCESS

This is intended as a guide only, to help you prepare for inspections by Timaru District Council Building Inspectors.

The intention of this booklet is to help prevent failed inspections and to save money and time.

Failed inspections may result in additional costs that will need to be paid prior to the issue of the Code Compliance Certificate.

This information will be updated regularly when requirements change so please ensure you have the most recent version.

The latest version is available for download from the Council website (www.timaru.govt.nz).

Each building site is unique and will have its own individual requirements so it's important you read the documents and pay particular attention to any conditions or endorsements.

Prior to starting any building work you need to ensure the consent has been paid for and you have received your consent. It is your responsibility to determine if a Resource Consent is required and, if so, that the Resource Consent has been applied for and approved.

All consent documentation must be kept on site at all times. To help identify your particular site, please ensure adequate signage is in place, especially in remote or rural locations.

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When booking an inspection

	What is your consent number and address?	What day would you like the inspection?
	What is your phone number and email address?	 Morning or afternoon? Contact name and phone number of the person on-site, and lock box (or gate) code
	What type of inspection? Refer to inspection schedule and the order in which the inspections are listed in the consent documents Any amendments relevant to the inspection being booked must be approved by Council before the inspection can be accepted (see page 18 for guidance on amendments) Oundation inspection uding standard concrete foundations, by	 Rural properties can be difficult to find – signs at the gate are helpful (provide rapid no or nearest no) Are you 100% ready for inspection?
	Confirm boundary peg locations and lot number Check building is sited as per consent plan Check FFL off datum Strip vegetation from building platform Excavate foundations – ensure foundations are plumb and level at base with all loose material removed Check firm bearing achieved Check consent documentation for special geotechnical or engineer requirements, including engineer's inspections	 Ensure foundation width and depth measurements are as specified Check reinforcing is installed as detailed including type, size, and spacing. Ensure reinforcing is correctly lapped, and supported with adequate cover Fit waste sleeves, ensuring adequate grade is achieved Sub-floor ventilation locations Book pre-pour inspections prior to booking concrete Provide compaction certificate from engineer / PS4 for made up ground
ΥI	les inspection	
_	Confirm siting as on previous page	Check adequate pile depth, width or



Blo	ockwork inspection		
	Correct type of block Correct number of courses Horizontal and vertical reinforcing tied and centred in block Clean outs in place, reinforcing tied Bond beam reinforcing as detailed, i.e. stirrups		Control joints in place Temporary bracing or propping required Engineer's inspection completed (if required) Engineer's site notes and PS4 may be required
Co	mpacted hardfill pre-D	P	M inspection
	Confirm any special requirements, i.e. engineer's hard fill inspection Building platform scraped to depth specified Correct hard fill used, compacted in a maximum of 150mm layers Set down for under floor insulation		Binding layer in place, i.e. sand, crusher dust - 25mm deep max or building paper Slab base level Slab thickenings formed in place Pipework in place, laid with adequate grade, lagging in place, bedded in sand
Pr	e-pour slab inspection		
	DPM laid - lapped and taped at joins Mesh reinforcing in place, correct type, lap, support and cover Slab ties in place		Waste pipes in position, correct number and location, gradients, ballast, pipe insulation HWC copper relief pipe in place
	Slab thickenings in place as per consent, check truss plan		Electrical earth bar to mesh installed (if wet area floor)
	Slab thickness and level correct Free joint in place if required		Engineer's inspection complete, if required

☐ Engineer's site notes and PS4 may be

☐ "As Built" truss design submitted to

■ Water test of under slab drainage -

required.

Council

AS.3500

☐ Rebates in place

required)

☐ Under slab insulation in place (if

Sub-floor inspection

	Correct pile size, treatment and height Bearer size, treatment and spacing Adequate bearing on piles Joist size, treatment and spacing Solid blocking in place Dwangs in place for brace panel hold downs	 Fixings - Stainless Steel (within 600mm of the ground or within sea spray zone) or galvanised Insulation in place, adequate access and ventilation DPM to ground if specified 	
Fir	rst floor framing inspec	ction (multiple level)	
	Correct joist size, spacing and treatment levels to wet areas Connections completed Boundary joists in place Solid blocking completed Structural steel in place Hold downs completed	 Beam support completed Flooring in place, correct treatment and fixings Pipes and services installed Engineer's inspection if required Engineer's site notes and PS4 may be required 	I
	Support framing in place, correct treatment and spacing Minimum fall achieved as shown in consent documents Ply substrate complete, H 3.2 sheets staggered, angle fillet in place	 Stainless screw fixings in place at correct spacing Scuppers, outlets and overflow relief in place Drip edge in place 	



Structure / pre-roof inspection

	All previous site instructions completed	Lintel hold downs and fixings completed
	"As Built" truss design approved by	Lintel sizes checked
	Council - variation	Post / beam connections completed
	Control cuts to slab completed	Valley board in place – ends supported
	Framing, correct grade, treatment and	Brace hold downs completed
_	spacing	Locations checked
	DPC to plates	Bracing ply completed with all fixings in
	Plate hold downs completed	place
	Frame connections complete	Bottom chord restraints in place
	Truss and rafter connections complete	Fire wall hold downs and solid blocking
	Purlin size, spacing and fixings as	completed
	detailed	Engineer's inspection completed, if
	Z nails to outriggers	required
	Roof bracing completed - including gable end / roof strap / roof plane and dragon	Engineer's site notes and PS4 may be required
	ties	reganies
	Stud to top plate fixings	
Rı	uilding wran inspection	
Βι	uilding wrap inspection	
Βι		Sill tangs in place - must be installed as
Bu	All previous site instructions completed	Sill tapes in place - must be installed as per manufacturer's installation details
Bu	All previous site instructions completed Correct building wrap selected - i.e.	per manufacturer's installation details
Bu	All previous site instructions completed	per manufacturer's installation details Thermal break in place (steel frame)
Bu	All previous site instructions completed Correct building wrap selected - i.e. direct fix, cavity, metal framing or	per manufacturer's installation details
	All previous site instructions completed Correct building wrap selected - i.e. direct fix, cavity, metal framing or cladding. Wrap must be approved for specific applications Wrap installation - wrap securely	per manufacturer's installation details Thermal break in place (steel frame) Penetrations sealed through wrap /
	All previous site instructions completed Correct building wrap selected - i.e. direct fix, cavity, metal framing or cladding. Wrap must be approved for specific applications Wrap installation - wrap securely fastened with adequate lap	per manufacturer's installation details Thermal break in place (steel frame) Penetrations sealed through wrap / pipes / wires etc
	All previous site instructions completed Correct building wrap selected - i.e. direct fix, cavity, metal framing or cladding. Wrap must be approved for specific applications Wrap installation - wrap securely fastened with adequate lap Wrap returned in to openings, adequate	per manufacturer's installation details Thermal break in place (steel frame) Penetrations sealed through wrap / pipes / wires etc Wrap supported with blue banding to prevent insulation sagging Fire walls - correct linings installed to
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Note: For ease of inspection - do not complete air seals to openings at this stage.

Mid-height veneer inspection

 □ Cavity - min 40mm achieved and no more than 70mm □ Cavity clean and clear of mortar □ Brickwork - max 20mm overhang at foundation. If overhang is greater than 20mm, a solution is required □ Brick ties in place, spacing and fixings □ Weep holes in place, including columns at correct spacing □ Slip joints in place □ Minimum brick panel size achieved (230mm) □ Flashings in place - DPC jamb and sill flashing with 15mm minimum kick out □ Lintel bars, shelf angles in position with flashing tape or additional layer of wrap over □ WANZ support bars in place - full length level, fixings completed. Galvanized or stainless steel □ All panels as close as possible to half high 		
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	Brick ties in place, spacing and fixings Weep holes in place, including columns at correct spacing	over WANZ support bars in place – full length, level, fixings completed. Galvanized or stainless steel All panels as close as possible to half

Pre-clad inspection

Including all types of weatherboard and sheet claddings.

All previous site instructions complete Cavity battens in place – correct size,	WANZ support bars - full length, level fixing complete at required spacing
treatment and spacing set out as per cladding specifications	AAC Cladding cavity system to be installed as per consent plans or
Cavity closers in place	amendment approved
Flashings:	
 All appropriate flashings / back 	

Sill trays in place for direct fix claddings

flashings in place

ends, sealed to wrap

Back flashings in place at change of cladding junctions

• Head flashings in place – turn ups to

Note: Builders must use manufacturer's installation instructions for each specific product to achieve the cladding system requirements.

For mid heights sheet cladding inspections - inspectors require a partially clad building with some flashings, support bars, cavity battens, back flashings and fixings visible to give an overall assessment, confirming manufacturers installation instructions are being followed.

Pre-line / building / plumbing inspection

	All previous instructions completed	Fra	ming:
	Exterior claddings completed including all roof flashings and penetrations		Hold downs to bottom plates including all brace elements complete
	(weather tight)		Flush boxes are 90mm minimum from
	required to garage doors, chimney caps	_	brace panel edges
		Moisture content	
Ins	sulation:		Ceiling battens - spacing and fixings
	Wall and ceiling insulation complete,		Stiffeners in place to stud / plate penetrations over 35mm diameter
	snug fit, clearances to roof underlay.		Solid blocking for ceiling diaphragms -
	Correct R value		penetrations to be in middle third each
Air	Seals:		way
	Complete to all openings including meter box and garage door jambs		Metal angles in place to tiled showers fixed at 300mm centres
	,		Solid blocking to fire walls
	glass labels in place		Fire wall penetrations suitably fire rated
	Backing rod in place behind air seal to prevent over filling cavity		·
	Packers sealed over		
	Silicone sealant in place to narrow gaps		
Pip	pework:		
	Pipework completed, clipped and lagged outside insulation		
	Pressure tested		
	Correct pipework size / runs / distance to HWC		
	Solar pipework installed		
	Gas pipework installed.		
	Wastes and vents in place, soil stacks, fire collars		

Pre-stop inspection

 All previous site instructions completed Correct linings in place Bracing completed – appropriate linings and fixings in place as per brace system used Wet area water-resistant linings in place as specified Fixings completed to tiled areas as required Fire walls - appropriate linings and fixings completed as per system requirements Diaphragm ceilings completed fixings as specified my manufacturer and approved consent plans 	 Penetrations located as specified by manufacturer Manhole access openings have been located in the middle third as per manufacturer's requirements in a ceiling diaphragm
Tanking inspection — All previous instructions completed	 Slope achieved to recess and floor
Membrane:	Penetrations sealed
 Tanking product as specified in building consent Required number of coats applied Bandaging to internal/external corners 	 Accredited or approved applicator Inspection carried out prior to any tiles being laid PS3 to be provided by accredited applicator
Pre-plaster inspection –	ACC panels
 All previous instructions completed All panels in place, fixings complete Control joints in place as per manufacturer's requirements Proprietary flashing systems completed to openings and cladding junctions Base of cladding flashings in place 	 Clearances to cladding at apron flashings etc Penetrations sealed Reinforcing to cut panels primed Rebate coated with bituminous emulsion if required (check installation specifications

Drainage inspection

	Drain layers details and registration		Primer used on glued joints
	umber available		Septic tank system and location as per
	Stormwater, sewer pipework laid in		consent
	position and exposed with correct		As-laid plan accurately drawn
	inspection point locations		Inspection openings, terminal vents
	Adequate grade achieved		Manhole - structure and launching
	Pipework supported, laid in chip or clean sand	_	
			Oil interceptor - grease trap
	Sumps and soak holes completed		
\Box	Water test on to sewer		

Note: If "As Built" drainage plan provided - dimensions to all connections at dwelling including stormwater, inspections and change of direction must be shown with clear dimensions from the building.

Effluent field inspection

- Field to be located as per consentCorrect type and size
- ☐ Field to be fenced from vehicles and stock
- PS3 to be provided by installer
- ☐ As built drainage plan



Heating unit inspection

Note: If an inbuilt heating unit is to be installed - Council require a completed preinstallation inspection.

- Ensure fire being installed is as per consent
- ☐ Installation to be carried out in strict accordance with the manufacturer's instructions including:
 - Hearth type and size
 - Seismic restrings
 - Unit clearances to combustibles
 - · Flue shielding
 - Flue type, flue connections, spacers
 - Ceiling penetrations as per flue system specifications
 - Number of flues and clearances to combustibles
 - Ceiling plate ventilated?
 - Flue / roof penetration additional support, soaker flashings
 - Flue height and support
 - Wetback installation HWC open vented
 - Header / top up tank required to rural installations
 - Smoke alarms in place
 - · Installer's sheet received
 - Room/heating unit ventilation in place (if required)

Note: It is very important that the heating unit and flue system is installed EXACTLY as per the manufacturer's specifications - e.g. if a flue penetration requires a square hole, then do not cut a round hole!



Final inspection

A final inspection is carried out when all other listed inspections have been completed and passed, and all detail on approved consent documentation has been completed.

Sometimes, other than the final inspection, there will be inspections (including effluent field, heating unit and solar hot water system) which need to also be completed. Please ensure that these inspections are also booked in so additional time has been allocated. This assists us in distributing all the inspection bookings.

This is the last opportunity the Council has to inspect the completed building and it is therefore important that all aspects of the building are complete.

In order for the Council to carry out this inspection, the building must be completed to a standard where it has a good chance of passing. It is not designed to provide a list for the contractor to complete!

Some of the following are items that are commonly identified as failed items at final inspection. These items should be checked by the contractor prior to inspection:

□ Electrical / gas certificate

□ Application for CCC

□ LBP memorandums

□ AS built drainage plan

□ Producer statements

Final external

	Finished ground level, clearances to cladding		Ventilation / weep holes in place to brick or stonework veneers
	Paved area levels / falls and stormwater control completed		Drainage venting to sewer completed
			Snow straps in place to spouting
	Finished height of gully traps		Vermin proofing completed, i.e. below
	Stormwater disposal complete – i.e. strip drains, sumps, down pipes		garage door reveals and at cladding junctions
	Soffit / window / doors sealed		Hot water cylinder relief drains
	Drain ventilation installed and flashed	terminating i	terminating in a safe location
	etc		190mm maximum step down from door
	Mechanical vents complete		openings
	Cladding / soffits painted		

Final internal

	middle / bottom Smoke alarms to be in place		Gas hob protection in place if required Ventilation to all rooms where hot water tap in place (scullery) Fixtures to be sealed to wall All plumbing work / fit off to be completed
Fii	nal roof space		
	Insulation to be tidy and cut neatly around all ducting Down lights are CA rated with insulation cut neatly around Down light transformers above the insulation		Mechanical vents - ducting to be connected Screw fixings missing purlins and at hips Vertical insulation unsupported
	nal paperwork We would like all producer statements and	d rec	quired paperwork to be available at time
	of final inspection. (Refer to attached fina		•
	LBP information prepared / completed		
	Producer statements must be completed f	ully	and contain:
	• Consent number		
	Address		
	• Date		
	 Type of work covered 		

• Signature (from the person who completed / supervised the work)

Farm shed - final

	Timber treatment, size and span as per	Purlin, girt fixings completed
	design Roof / wall bracing in place	 Stormwater disposal as per building consent
	Roof / wall bracing in place Roof / wall claddings securely fastened, flashings in place, ground clearances checked Post / rafter connections in place Solid blocking to rafters	 Completed Form 6. Electrical certificate - if power connected to shed If steel frame shed - all portal frame connections, hold downs and bracing to be completed
Sv	vimming pool - final	
	Fencing in place - to minimum 1.2m height	 Backflow preventer fitted to nearest outside tap
	No gaps to be wider than 100mm	☐ Completed Form 6
	No artificial or natural footholds that	Electrical certificate
	allow access to pool area	 Excavation inspection completed
	Pool gate in place - must open away from pool	 All pre-pour inspections completed (if applicable)
	Gate to be self-closing, min 1.5m above ground level to latch	☐ Producer Statement Construction (PS3)
	ground level to laten	

Dealing with amendments

Getting amendments approved quickly is essential otherwise your job might grind to a halt.

Some amendments can be approved and documented by the Building Inspector but others need to be delivered to Council for processing and approval. Examples listed below should not be taken as a comprehensive list. The Building Inspector can give you some guidance on the type of work that could be approved on site.

Minor amendments that can be done on-site are:
 Minor bracing panel change with bracing calculations checked for overall bracing unit numbers
☐ Moving a window slightly (bracing panels may need to be considered)
☐ Gas hot water unit changed (to another brand of similar function)
☐ Foundation reinforcing — three HD12's can be substituted for two HD16's
☐ Tiled shower being installed when acrylic shown on plans
 An additional tanking membrane inspection will be required with membrane details documented at the tanking membrane inspection
☐ Building wrap changes — types / Eco-Barrier plywood etc
As a general rule the following work would be sent to Council for review and approval. You must include a completed amendment application form which can be downloaded from timaru.govt.nz.
Examples of major amendments are:
☐ A change of heating unit
☐ Major changes to bracing
☐ Changes to roof and wall claddings
☐ Rib-raft type found / slab system changed to standard foundation and slab (and vice-versa)

Helpful hints

Arrange written approval from the owner or agent when changes from the building
consent are being proposed. Often a simple building wrap change can cause frustration if
the designer / agent / owner is unaware of it.

- ☐ To avoid delays it is vital that the following documentation is provided:
 - Amendment application is signed by owner / agent. If an agent is applying, the owner must sign the agent authorisation
 - Specific installation / construction details
 - Amended plans using the most recently consented drawings
 - Highlight or cloud the specific changes for ease of processing
 - Ensure original Design Memorandum is still applicable. This may require the applicant to provide a revised memorandum specific to the amendment. If in doubt, please consult the original designer
 - Applicants should be aware that, under the Building Act, amendments may legally take
 working days to process
 - The size of the amendment in no way relates to the amount of time it may take to be processed

Notes

