## Heritage Building Conservation Technical Advice Sheet 2



### Checklist for inspection

Walk around the building and see if you can find any of these potential problems. You may not be able to answer all the questions – don't worry – but do consider getting help from an architect or builder experienced with work on heritage buildings.

## ✓ Don't be a fair-weather friend – go out in the rain

Do your first inspection in dry weather when it's convenient to have a thorough look around. Then look again in wet weather (when it's raining heavily!) to see what happens to water running off roofs.

	Is water	running	down	walls a	ind into	places	that it sho	uldn't l	oe!

☐ Are the gutters and downpipes blocked?

☐ Are they correctly aligned and connected to stormwater drains?

☐ Are the drains overflowing?

#### ✓ Check the difficult spaces – but take care

It's important to check difficult-to-access spaces, such as within roofs and under floors.

Check for	leaks f	rom f	lashings,	valleys,	and	lapped	joins	in	the
roof sheet	ing.		_	•					

Look for signs of termites	(mud	tubes)	or	borer	damage
(flight holes) in timber					

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П	Look for signs of loss of support for floor timbers (subsidence

Look for signs of	of loss of	support	tor floor	timbers (	(subsidence
fungal rot).					

☐ Musty smells and excessive dampness in underfloor spaces.

Are any ant caps	(termite shields)	missing on th	e floor stumps
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Be careful as these spaces can be hazardous. There may be live electrical wiring — if in doubt get it checked by an electrician. Roofs can be suffocatingly hot in summer time and if they are clad with asbestos sheeting they could be contaminated with fibres. Underfloor spaces may have been treated with chemicals like DDT (now banned) to control termites and these may persist in the soil — wear protective clothing and equipment, avoid making dust, and thoroughly wash everything afterwards.

#### ✓ Masonry walls and chimneys

Dampness in various forms is a common problem with masonry walls (brick, block, limestone). Rising damp is caused by porous masonry drawing moisture from the ground, and can be seen as a dark zone at the base of the walls, often with a high tide line.

The dampness may carry salts that then crystallise within the brick or stone and cause fretting and other forms of damage. Dampness may also enter at the tops of walls or penetrate sideways through basements and cellar walls. Old walls need to breathe and this is often compromised by impermeable materials like cement (as patches or renders), clear sealers and modern paints. These materials should not be used on old walls.

Are there open mortar joints or bricks that may be loose at the top of the chimneys?
☐ Are there cracks or open mortar joints in the parapet cappings?

Are the walls solid, or do they have a cavity between two

leaves of m	nasonry!						
Is there any	cracking ir	the walls	(often	stepping	around	bricks)	?

☐ Is there	mortar	missing	from	the	lower	parts	of the	walls?

Has missing mortar	been	patched	with	cement	(often
grey-coloured)?					

☐ Have the walls bee	en cement-rendered, painted	or sealed to
prevent moisture	penetration?	

	Are old	renders	cracked	or	loose	(drummy)?
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$\hfill \square$ Are the underfloor vent grilles blocked with	dust	and
cobwebs, or clogged with paint?		

Are the vents hidden by verandahs, p	oot	plants	or	other
obstructions such as a paving or gard	den	beds?		

	Do ground	levels	slope	towards	the	base	of	walls?
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	Are there any	garden bed	s set against th	e base of	f the walls	?
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Are th	iere a	ny s	signs	of	dampr	ness	in 1	the	wall	s (d	dark	stains	with	1
a high	tide l	ine)	)?											

Are there any signs of	of white	salts	on	the	surface	(often	nea
the high tide line)?							

Is there a damp proof course (DPC) (often a thin layer	of
bitumen below floor level)?	

Is the surrounding ground	level	higher	than	the	DPC	or	the
internal floor?							

Is there impermeable paving or a concrete slab (e.g verandal	n
floor) against the external walls?	

	lc	there	moss	growing	οn	external	walls
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Is there	a band	or patches	of peeling	paint and	l fretting	plaster
on inner	r face of	external v	valls?			

Are	tree	roots	disturb	inσ	walls	7

# Heritage Building Conservation Technical Advice Sheet 2



## Checklist for inspection

Timber	Water, water everywhere			
Like masonry, we need to keep timber as dry as reasonably possible to avoid damage caused by fungal rot and by insects, such as borers and termites.	☐ Does the garden watering system spray water against the base of the walls?			
Is there any timber in contact with the ground (apart from stumps)?	Are there plumbing leaks in kitchens, bathrooms, laundries or sewerage pipes?			
☐ Are the stumps missing ant caps (termite shields)?	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $			
☐ Do timber verandah posts sit directly on a concrete	☐ Are all windows and doors properly flashed?			
verandah floor?	$\square$ Are all doors and windows adequately weather proof?			
Are there any stored timbers, off-cut or tree stumps that could attract termites?	☐ Do gutters, especially box gutters, have a safe overflow point for extreme weather events or in case of blockages (tennis ball, etc.)?			
☐ Has the cross ventilation under a timber-framed house been obstructed?	Ventilation			
Are there signs of termites (mud tubes) or borer damage (flight holes) in timber?	Good ventilation of roofs and underfloor spaces is an important aspect of minimising the risk of fungal rot and intack on timbers.			
Are there signs of fungal rot (soft spongy timber) where water may be trapped?	☐ Is there adequate cross ventilation under timber floors?			
☐ Are painted surfaces buckling or mouldy?	☐ Is the roof space adequately ventilated?			
☐ Is the paintwork cracked or peeling?	Are bathrooms and kitchens well ventilated and are exhaust for ducted to the exterior of the building (not the roof space)?			
☐ Do timber floors bounce when you walk on them?	☐ Are chimneys blocked off?			
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	What to do next?			
☐ Are timber joinery elements (verandahs, doors, windows) in poor condition?	Work out what needs to be done to fix the things you've			
☐ Are windows painted shut?	identified. Set it out as a written plan. See the other Advice Sheets in this series for details and for guidelines for good conservation practice. Start with basic maintenance — clean			
Metals	the gutters!			
☐ Are downpipes split, cracked or rusting?	Who do I contact for further			
Do metal elements (like cast or corrugated iron) have rusted surfaces?	information?			
☐ Are paint coatings peeling exposing bare metal?	<b>E</b> info@fremantle.wa.gov.au			
☐ Are metal roof claddings, cappings or flashings rusted?	T 08 9432 9999 (ask to speak to a Heritage Officer)			
☐ Are roof penetrations (parapets, chimneys, vent pipes, skylights) or flashings damaged?	Text and drawings by David Young, Heritage Consultant, Melbourne and the City of Fremantle  Disclaimer:  Any representation, statement, opinion or advice expressed or implied in this publication is made in good faith but on the basis that the City of Fremantle, its agents and employees, and David Young are not liable (whether by reason of negligence, lack of care or otherwise) to any person for any damage or loss whatsoever which has occurred or may occur in relation to that person taking or not taking (as the case may be) action in respect of any representation,			
Are flashings and cappings on the roof incompatible with the roof cladding? (Check Bluescope Steel Australia technical data sheet on their website)				
☐ Is there metal (rods, pins, lintels, etc.) embedded in masonry which is rusting and expanding?				

statement or advice referred to above.