

PROACTIVE INSPECTIONS PROGRAM

Activity Report

FINANCIAL YEAR 2022-23 Q3

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ABORIGINAL ACKNOWLEDGEMENT

The VBA respectfully acknowledges the Traditional Owners and custodians of the land and water upon which we rely. We pay our respects to their Elders past and present. We recognise and value the ongoing contribution of Aboriginal people and communities to Victorian life.

We embrace the spirit of reconciliation, working towards equality of outcomes and an equal voice.

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ABOUT



The VBA's Proactive Inspections Program (PIP) is an early intervention regulatory initiative which aims to identify non-compliant building and plumbing work under construction and ensures the work is rectified. Our team includes experienced building inspectors, building surveyors and licensed plumbers, who typically inspect more than 1000 domestic and commercial sites each month. Inspections focus on either building or plumbing work and sites are chosen using a variety of methods. These include:

- Random - identification of building permits lodged with the VBA based on predefined risk-factors, such as buildings intended for human occupation, buildings that are more than two storeys or costs of works.
- Intelligence based - involves targeted inspections of practitioners or sites of interest (based on a variety of information, including risk data) and/or a class of builder/building surveyor.
- Ad-hoc - inspectors use flexibility to inspect sites that come to their attention while attending other pre-determined sites.

When our inspectors identify compliance risks (potentially non-compliant building and plumbing work), they write to the practitioner, notifying them of the issues that need to be addressed. Once notified, the practitioner responsible (builder, plumber or building surveyor) must respond to the VBA within three days for serious issues and within 14 days for moderate or lesser risk issues. Critical life-safety issues must be addressed immediately, and, in these cases, the VBA will telephone the practitioner and relevant building surveyor, as well as notifying co-regulatory agencies such as WorkSafe.

The VBA uses a risk-rating scale (Appendix 1) to determine the level of scrutiny applied to a potential issue. The scale considers the potential adverse effects on the future safety of building occupants, people nearby and on the amenity of the building itself.

1.1 MINISTER'S STATEMENT OF EXPECTATION

In line with the Minister's Statement of Expectations, the VBA's goal is to inspect 10 per cent of all building permits issued in Victoria each year. This performance measure is currently being reviewed in consideration of VBA's risk-based approach to the regulatory oversight of building and plumbing work.

In some circumstances, the VBA will issue a Direction to Fix (DtF) to resolve the most critical issues. For example, where non-compliant wall cladding is identified, the VBA will issue a DtF requiring the cladding is removed before an occupancy permit is granted.

1.2 BENEFITS

The PIP improves safety and compliance outcomes for building and plumbing work in Victoria through early identification, rectification and, in some cases, by taking other enforcement action. By inspecting work under construction, the VBA can address significant failures earlier, resulting in better outcomes for all involved. At the same time, rectification is often easier and less costly, covered by the practitioner, rather than the owner. Rectification also greatly decreases the possibility of negative impacts on the safety, health and amenity of future occupants, especially when compared to a building where the compliance risk remains undetected or unresolved. Information and intelligence gathered through the PIP enables the VBA to provide advice on building and plumbing standards, as well as education and training for industry.

1.3 HOW WE CONDUCT PROACTIVE INSPECTIONS

Building and plumbing inspectors are provided with comprehensive electronic inspection checklists. The checklists have more than 500 elements grouped into three parts that address:

- building and plumbing work broken down into different building stages under the National Construction Code (NCC) – Volumes 1 and 2 (Building Code of Australia).
- mandatory requirements under the Building Act 1993, Building Regulations 2018 and Plumbing Regulations 2018.
- the display of permit information.
- occupational health and safety (OHS) elements, such as working at heights, temporary fencing, adequacy of propping and bracing and working in trenches. If any OHS items present an unacceptable risk, the relevant co-regulators (Environment Protection Authority, WorkSafe or Energy Safe Victoria) are contacted immediately by the building or plumbing inspector.

A comprehensive outline of the electronic inspection checklists is detailed in Appendix 2.

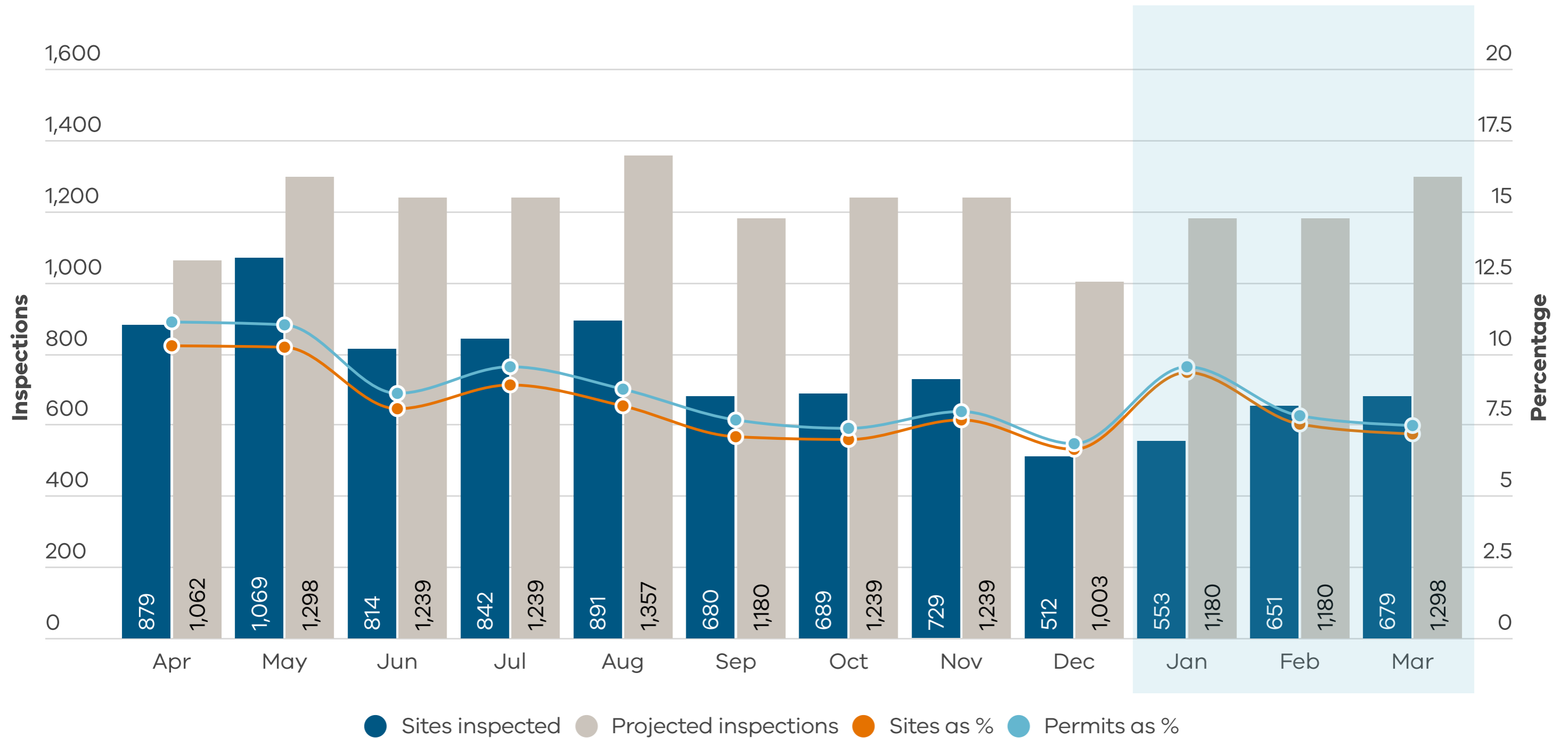
2022-23 QUARTER 2 (Q3) PERFORMANCE



2.1 PERFORMANCE YEAR TO DATE

The graph below illustrates the number of sites inspected each month and demonstrates how the VBA is tracking against the Minister’s Statement of Expectations to inspect 10 per cent of new building permits every year.

INSPECTIONS Q3 – JAN TO MARCH 2023



Projected inspections are based on a full financial year forecast of building permit activity across Victoria, as well as historic monthly building permit activity trends. Actual activity is reported from building permit levy data and may vary from projected totals. Discrepancies between projected and completed inspections may occur depending on unforeseen industry activity and resource allocation

TOTAL INSPECTIONS – 2022–23 Q3



1210
Plumbing
Inspections



677
Building
Inspections

A total of 1887 inspections (comprising 677 building and 1210 plumbing inspections) were conducted across 56 municipalities in Victoria, involving 781 Builders and 190 building surveyors.

INSPECTION MAP – 2022–23 Q3

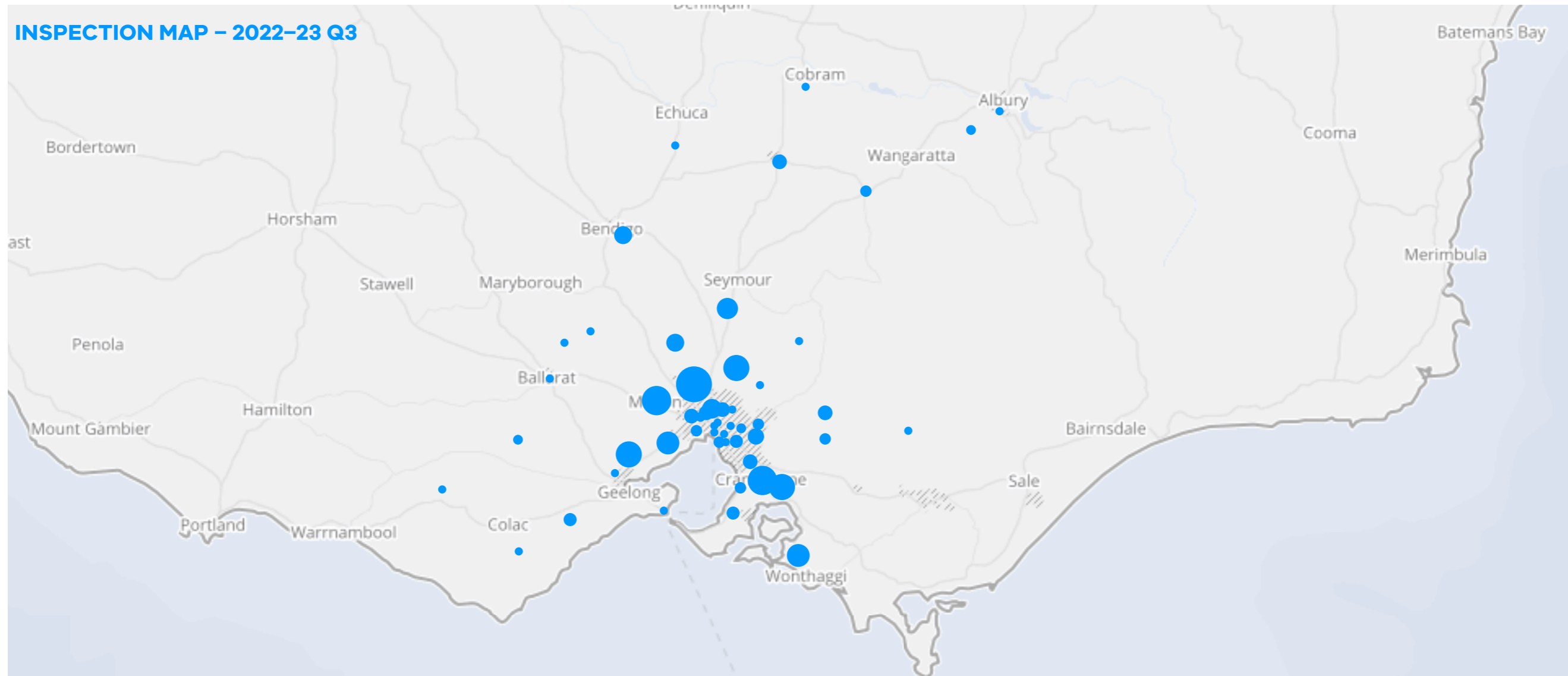


Figure 1: The dots represent the municipalities in which inspections occurred. The size of the dots correlates to the number of inspections.

[View the interactive map:](#)

NUMBER OF INSPECTIONS AT CONSTRUCTION STAGE 2022-23 Q3

The graphs below illustrate the number of inspections per construction stage throughout the financial year.

BUILDING INSPECTIONS

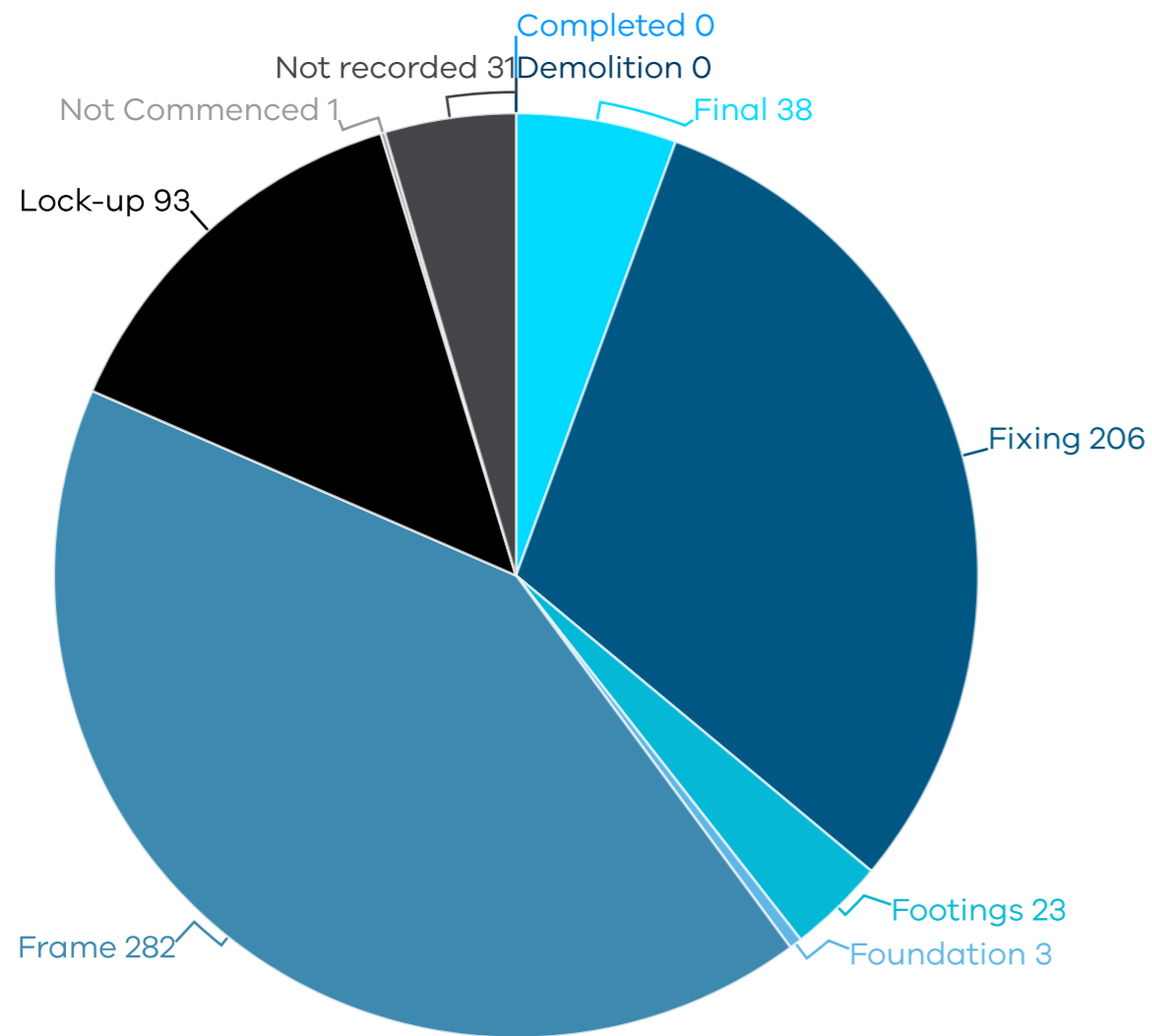


Figure 2: This figure shows the breakdown of the stages in which proactive building inspections were undertaken.

PLUMBING INSPECTIONS

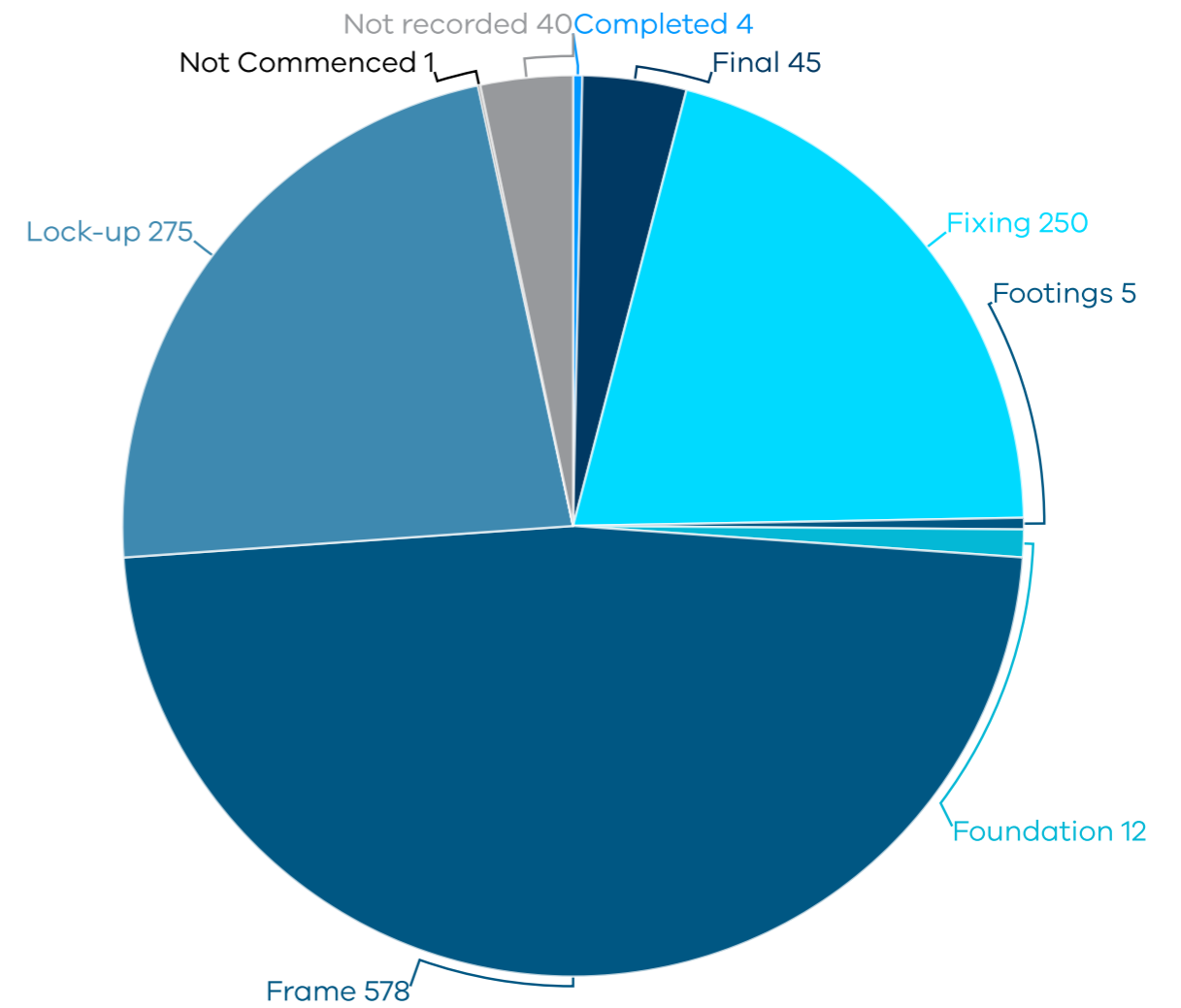


Figure 3: This figure shows the breakdown of the stages in which proactive plumbing inspections were undertaken.

2.2. WHAT WE FOUND

A total of 754 (40 per cent) of inspections conducted during the quarter identified at least one compliance risk - a six per cent decrease from the previous quarter. The drop in overall compliance risk observed was due to a change in the proportion of plumbing to building inspections undertaken this quarter. Historically, proactive inspections have comprised of a proportion of around 60 per cent building and 40 per cent plumbing, however this quarter plumbing inspections accounted for 64 per cent of all inspections. Building inspections typically have a higher prevalence of issues when compared to plumbing inspections.

OBSERVED COMPLIANCE RISK – ALL INSPECTIONS

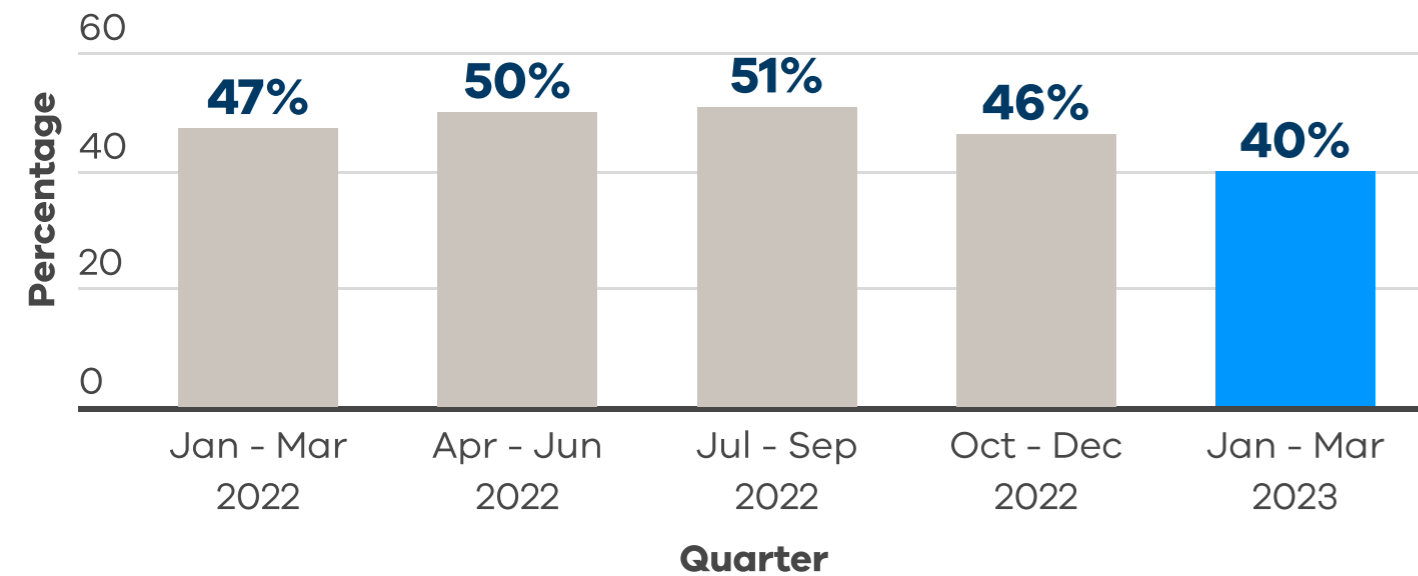


Figure 4: This graph shows the percentage of compliance risks observed during proactive inspections over the past year.

CRITICAL ISSUE

Non-compliant issues of a severity that could result in adverse effects on safety or amenity, financial loss for future occupants or loss of structural integrity if left untreated accounted for two per cent of inspections identified. This rate is consistent with previous findings across the past two years. Sites with OHS risk breaches in this category are referred to the relevant regulator on the same day. Details of the critical issues are outlined in Appendix 3

A compliance risk is defined as any non-compliant item (observed in a building under construction) which, if not appropriately considered or addressed, has the potential to cause:

- an adverse effect on the safety or amenity of future building occupants and/or the public.
- financial loss for future occupants or loss of structural integrity.

OBSERVED COMPLIANCE RISK – DOMESTIC WORKS

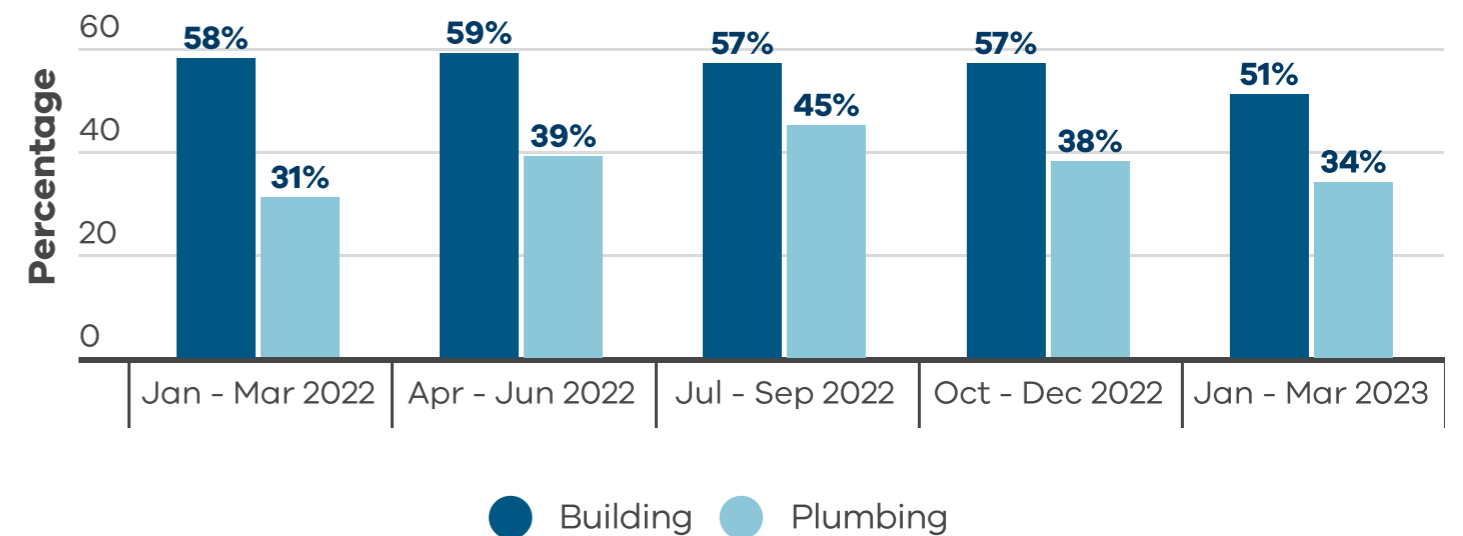


Figure 5: This graph shows the percentage of compliance risks (split between plumbing and building) observed during proactive inspections of domestic works over the past year.

OBSERVED COMPLIANCE RISK – COMMERCIAL WORKS

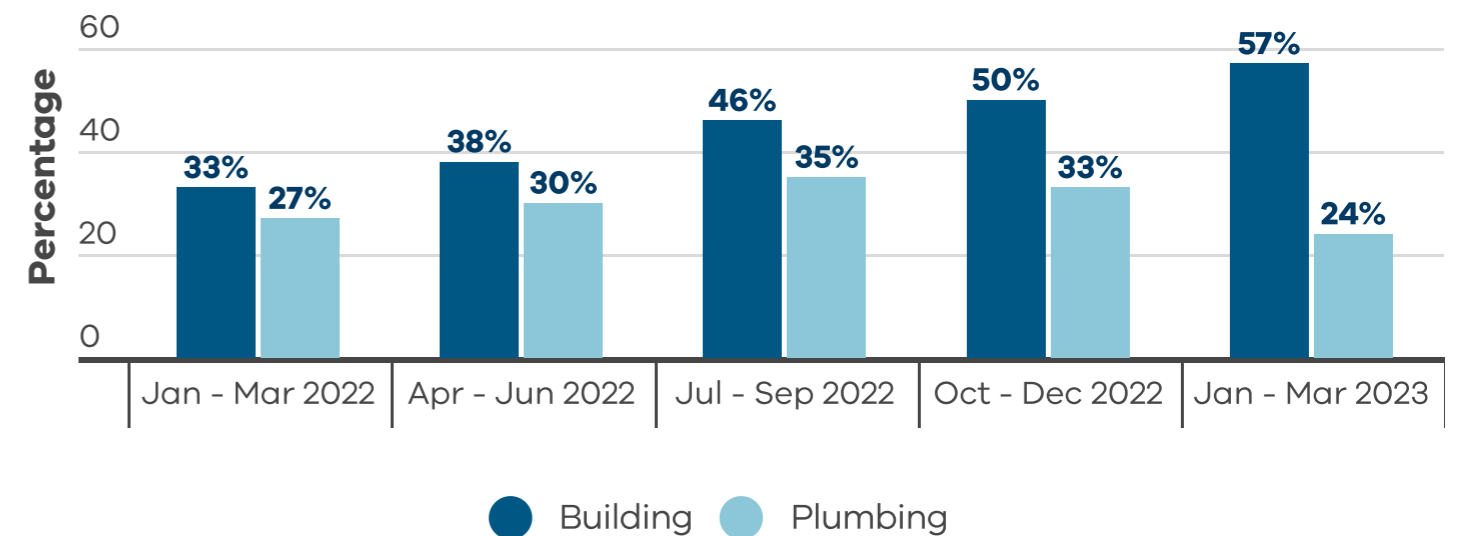


Figure 6: This graph shows the percentage of compliance risks (split between plumbing and building) observed during proactive inspections of commercial works over the past year.

2.3 ACTIONS TAKEN BY THE VBA IN 2022–23 Q3

The VBA sent 754 notifications to practitioners, requiring them to respond to the compliance risks identified by the PIP. Typically:

- 15 to 18 per cent of notifications sent to practitioners result in them providing all relevant documents, such as an approved performance solution, engineering drawings or certificate of compliance from a registered practitioner, demonstrating how the work meets the requirements of the relevant building legislation. This is because practitioners are not currently required to lodge this documentation with the VBA.
- 1 to 2 per cent of notifications sent to practitioners result in them demonstrating that the work is incomplete rather than non-compliant and will be resolved as the build progresses.
- The remaining notifications of non-compliant work typically require the practitioner to rectify the work and for them to provide the relevant building surveyor (RBS) or the VBA with proof that the work was rectified.

2.4 ENFORCEMENT ACTIVITY

The VBA expects the RBS to manage any required rectifications using their enforcement powers. Typically, a verbal DtF is issued to the builder. However, depending on the severity and risk of the issue, the RBS may choose to issue a written DtF or a Building Notice to the builder or owner and notify the VBA. The VBA monitors all sites that require rectification to ensure the appropriate work is carried out. In exceptional circumstances, the VBA will issue a written DtF to the builder instead of the RBS. This may occur when the RBS appears to have contributed to the non-compliance or where the issuance of an occupancy permit is imminent, and the VBA wants to ensure the non-compliance is addressed before the property is handed over to the owner. During this quarter the VBA issued no written DtF notices.

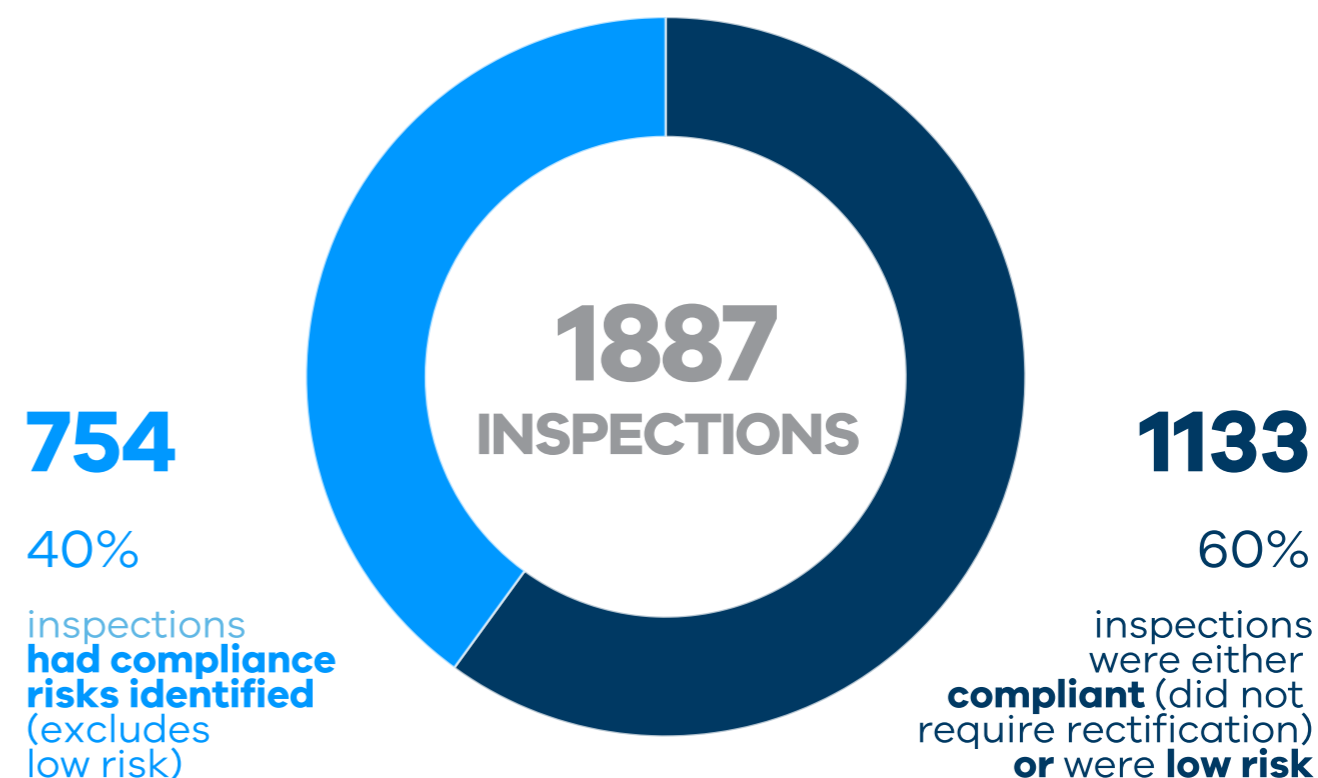
WHO RECEIVES THE NOTIFICATIONS?

The builder and RBS are notified when compliance risks are identified. However, the builder is the primary addressee for potentially non-compliant building work if the elements have not been subject to a mandatory inspection stage. Where elements have been subject to mandatory inspection, the RBS is the primary addressee.

The RBS will also be the primary addressee when the endorsed building permit documentation is considered to lack sufficient information to show compliance for the purposes of the inspection, such as a performance solution, or in situations where the RBS has not considered mandatory items, such as fire separation in dual-occupancy buildings.

The builder is also the primary addressee for potentially non-compliant plumbing work because the plumber is not named in the building permit documents. The VBA relies on the builder to provide the plumber's details. If provided, the VBA will also notify the plumber of any potential issues.

OBSERVED COMPLIANCE RISK – ALL INSPECTIONS



January 2023 - March 2023

Figure 7: This chart shows that 754 or 40 per cent of the proactive inspections observed during the quarter identified at least one compliance risk.

BUILDING INSPECTIONS 2022-23 Q3



3.1. OVERVIEW OF BUILDING INSPECTIONS CONDUCTED 2022–23 Q3

Total Building Inspections
677

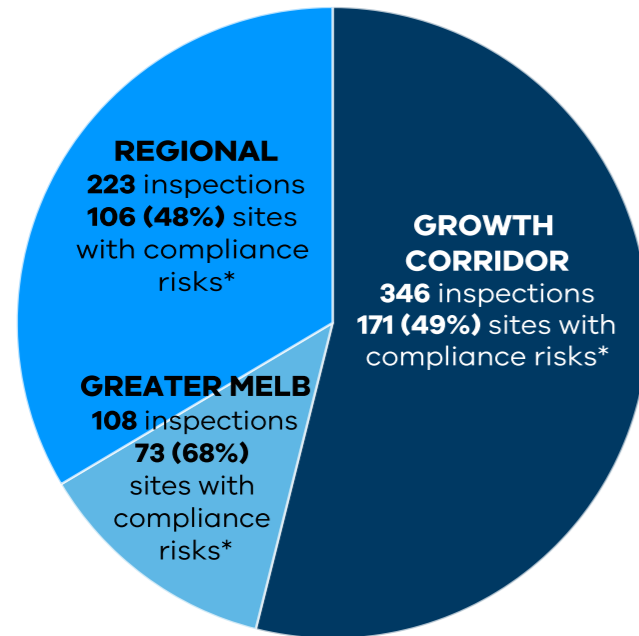


Figure 8: This chart shows the geographic trends in proactive inspection non-compliance rates in building inspections.

GEOGRAPHIC TRENDS

Volume – Melbourne ‘Growth Corridors’ had the highest number of inspections undertaken as this is where building permit activity is the greatest.

Inspection outcomes – Prevalence of non-compliant issues observed during building inspections were highest in ‘Greater Melbourne’. This trend is consistent with most of the previous quarters reported#.

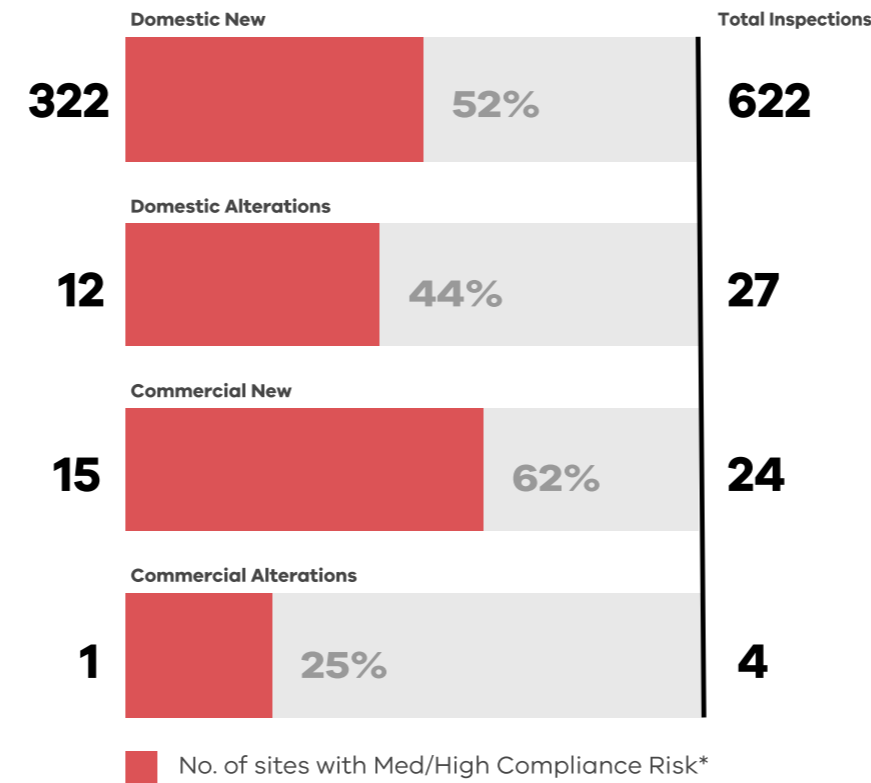


Figure 9: This graph compares rates of non-compliance in building work between new builds and alterations.

NEW BUILDS VS ALTERATIONS

Volume – ‘New Builds’ had the highest number of inspections undertaken, where building permit activity is also the greatest.

Inspection outcomes – A higher prevalence of non-compliant issues were observed during plumbing inspections of New Builds, in comparison to buildings undergoing ‘Alterations.’ This trend is consistent with most of the previous quarters reported#.

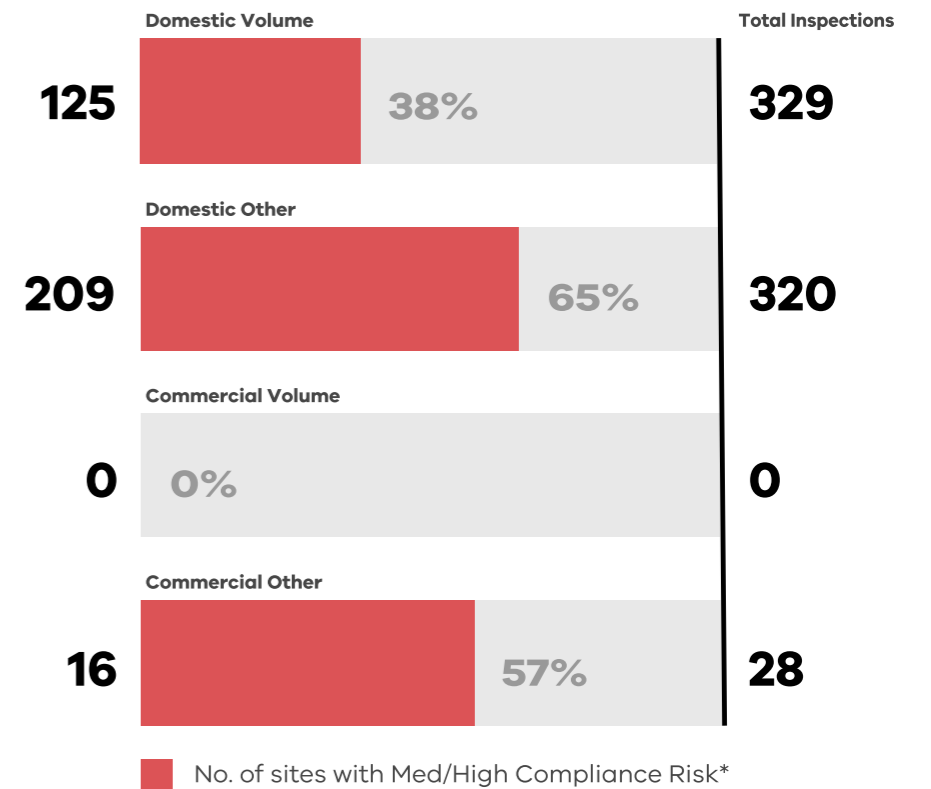


Figure 10: This graph compares rates of non-compliance in building work between volume builders and all other builders.

VOLUME VS OTHER BUILDERS

Volume – ‘Large Volume Builders’ proportionately have a higher volume of inspections undertaken because they typically build new dwellings in growth corridors where building activity is the greatest.

Inspection outcomes comparisons – Prevalence of non-compliant issues observed during building inspections were lower in Large Volume Builders. compared to all ‘Other Builders.’ This trend is consistent with most of the previous quarters reported#.

The VBA uses trends to update its risk-based site selection. This ensures sites are selected based on the highest risk of adverse effect on the safety and/or amenity of future building occupants and the public.

*Number of sites inspected with at least one medium/high compliance risk observed.

#Quarterly reporting commenced March 2020.

3.2. OVERVIEW OF WHERE THE COMPLIANCE RISKS ARE FOUND - BUILDING

COMMON NON-COMPLIANCE DOMESTIC - 2022-23 Q3

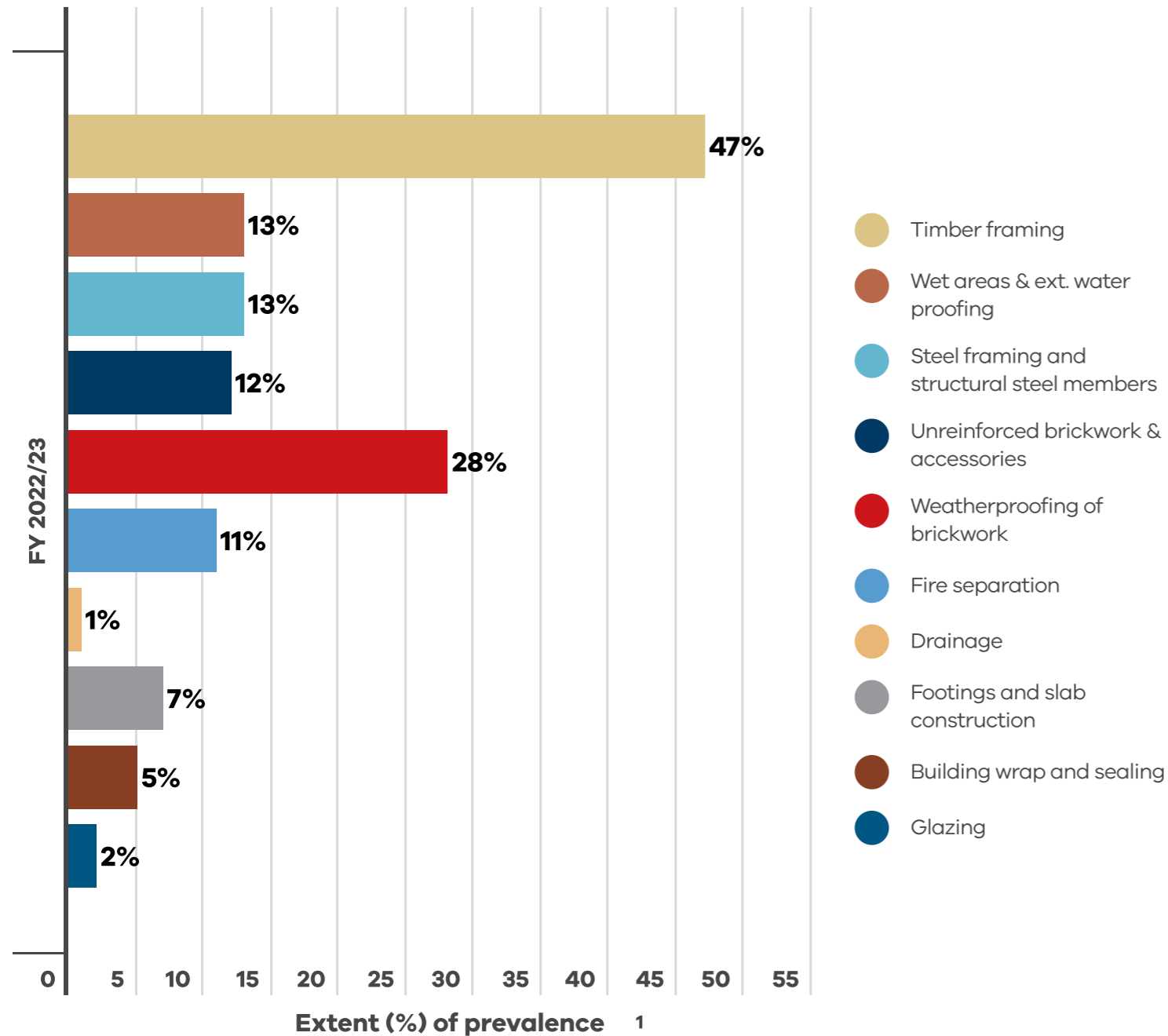


Figure 11: This graph shows the most prevalent categories where non-compliance risks are observed (medium and high risk) in domestic building inspections.

¹ **Extent (%) of prevalence** is calculated by 'number of times an item was observed as non-compliant over the number of times an item was inspected'.

For more information on the nature of non-compliant issues observed in this quarter go to Section 3.3 ('Overview of Building Compliance Risks').

COMMON NON-COMPLIANCE COMMERCIAL - 2022-23 Q3

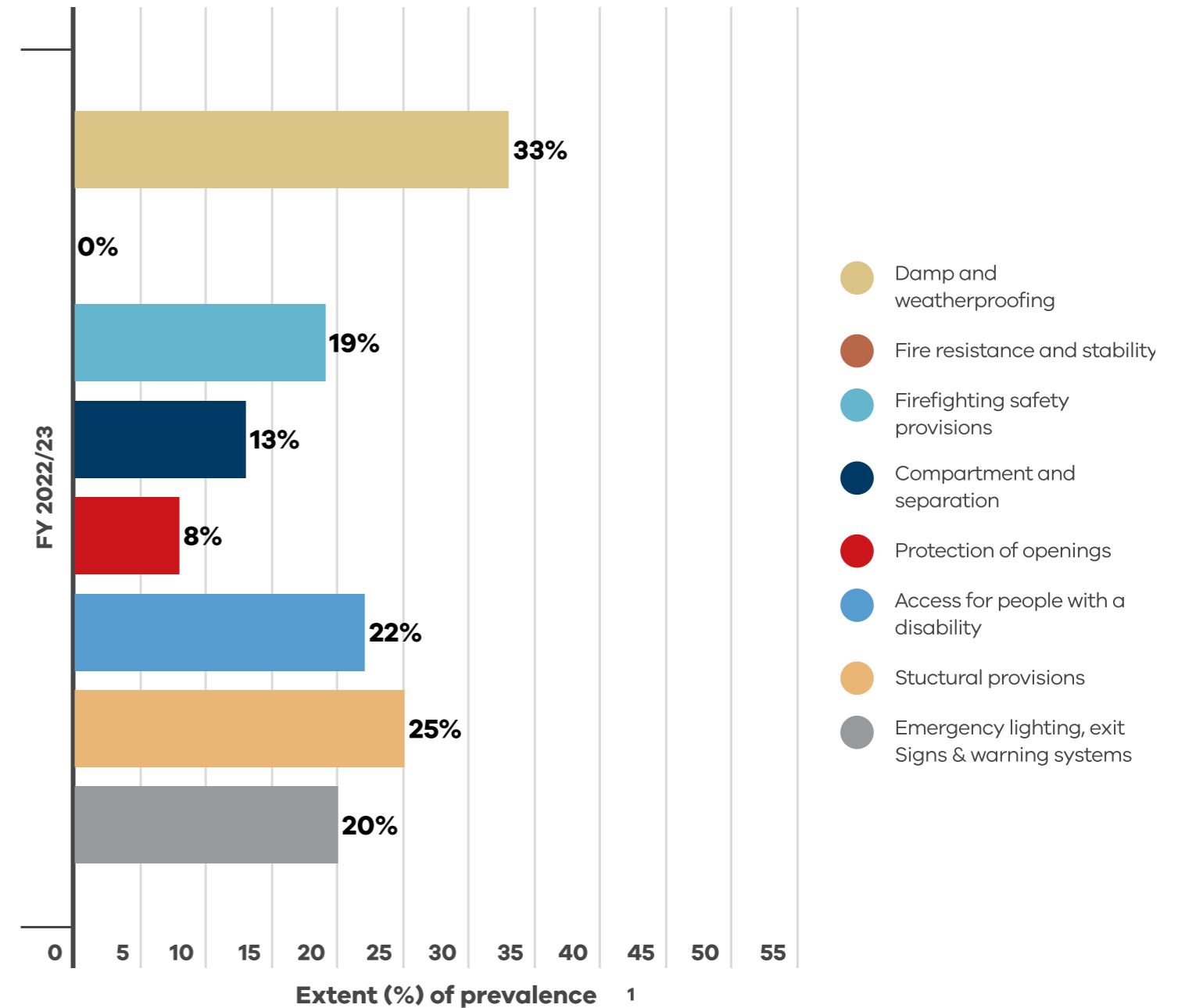


Figure 12: This graph shows the most prevalent categories where non-compliance risks are observed (medium and high risk) in commercial building inspections.

3.3. OVERVIEW OF BUILDING COMPLIANCE RISK DOMESTIC (CLASS 1)

DOMESTIC (CLASS 1)

Approximately **10,000** elements were assessed across **649 domestic building sites** during this quarter (an average of **15 elements** per inspection), of which **631 elements** were identified as a **compliance risk** (across 334 sites) and required rectification or justification. Of these elements **17 were critical** (across 12 sites) and required **immediate attention**.

The most common non-compliances observed within the TOP EIGHT CATEGORIES

Building Category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
Timber framing	166	<ul style="list-style-type: none"> Non-compliant penetrations due to services (mostly plumbing). Insufficient fixing. For example, nails used instead of hold bolts or failure to use two nails per stud in various items. Bottom plate overhang >10mm. Lintels missing from windows and door openings. Half trusses not braced at ends as per AS4440 - Installation of nail-plated timber roof trusses. 	<table border="1"> <caption>Prevalence of Timber Framing Non-Compliance</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>~55%</td> </tr> <tr> <td>Q1</td> <td>~55%</td> </tr> <tr> <td>Q2</td> <td>~52%</td> </tr> <tr> <td>Q3</td> <td>~48%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	~55%	Q1	~55%	Q2	~52%	Q3	~48%
Quarter	Prevalence (%)												
Q4	~55%												
Q1	~55%												
Q2	~52%												
Q3	~48%												
Wet areas and external water proofing	27	<ul style="list-style-type: none"> Water stops not installed in wet areas - around bath hob, beneath bath flange, shower enclosures, wet area thresholds and doors, floor junction of wet areas. Standard plaster board used behind laundry troughs. Shower/bathroom waterproofing damaged. 	<table border="1"> <caption>Prevalence of Wet Areas and External Water Proofing Non-Compliance</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>~15%</td> </tr> <tr> <td>Q1</td> <td>~20%</td> </tr> <tr> <td>Q2</td> <td>~19%</td> </tr> <tr> <td>Q3</td> <td>~13%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	~15%	Q1	~20%	Q2	~19%	Q3	~13%
Quarter	Prevalence (%)												
Q4	~15%												
Q1	~20%												
Q2	~19%												
Q3	~13%												

Building Category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
Weatherproofing of brickwork	21	<ul style="list-style-type: none"> Flashings missing around openings or not installed as required by manufacturer. Damp proof course not extending to full part of walls. Weep-holes to windows and other openings missing, weep-holes obstructed at garage slab, rendered weep-holes not cleaned out. Head flashings missing and not installed to brick openings. 	<table border="1"> <caption>Prevalence per quarter for Weatherproofing of brickwork</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>20%</td> </tr> <tr> <td>Q1</td> <td>8%</td> </tr> <tr> <td>Q2</td> <td>15%</td> </tr> <tr> <td>Q3</td> <td>28%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	20%	Q1	8%	Q2	15%	Q3	28%
Quarter	Prevalence (%)												
Q4	20%												
Q1	8%												
Q2	15%												
Q3	28%												
Fire separation	30	<ul style="list-style-type: none"> Fire separating boundary wall system not installed in accordance with manufacture installation requirements - no silicone along bottom track, no 20mm gap between frame and shaft liner, L clips are placed mid-way, clips not located at every stud, no mineral wool installed at wall junctions, brackets not installed on both sides of separating wall, use of damaged panels, using nails and not screws. Gaps and holes in fire separation system between dwellings 	<table border="1"> <caption>Prevalence per quarter for Fire separation</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>18%</td> </tr> <tr> <td>Q1</td> <td>20%</td> </tr> <tr> <td>Q2</td> <td>18%</td> </tr> <tr> <td>Q3</td> <td>12%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	18%	Q1	20%	Q2	18%	Q3	12%
Quarter	Prevalence (%)												
Q4	18%												
Q1	20%												
Q2	18%												
Q3	12%												
Unreinforced brickwork & accessories	42	<ul style="list-style-type: none"> No Lintel over meter box. Brick ties missing or not attached to studs and expansions ties upside down. No double row of ties at top of brick wall. No expansion foam within articulation joints. No gaps at window where articulation joint is located and required. 	<table border="1"> <caption>Prevalence per quarter for Unreinforced brickwork & accessories</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>18%</td> </tr> <tr> <td>Q1</td> <td>18%</td> </tr> <tr> <td>Q2</td> <td>18%</td> </tr> <tr> <td>Q3</td> <td>12%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	18%	Q1	18%	Q2	18%	Q3	12%
Quarter	Prevalence (%)												
Q4	18%												
Q1	18%												
Q2	18%												
Q3	12%												

Building Category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
Steel framing and structural steel member	41	<ul style="list-style-type: none"> • Lintels not galvanised. • No structural grout under base plate of columns. • Structural integrity - insufficient tightening of bolts at baseplates and steel member connection missing bolts and nuts not tightened to maintain structural integrity. 	<table border="1"> <caption>Prevalence per quarter for Steel framing and structural steel member</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>15%</td> </tr> <tr> <td>Q1</td> <td>18%</td> </tr> <tr> <td>Q2</td> <td>11%</td> </tr> <tr> <td>Q3</td> <td>13%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	15%	Q1	18%	Q2	11%	Q3	13%
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Q2	11%												
Q3	13%												
Footings and slab construction	37	<ul style="list-style-type: none"> • Brickwork overhang. • Reinforcing steel has exposed in the slab edge. • Slab cut for plumbing services. 	<table border="1"> <caption>Prevalence per quarter for Footings and slab construction</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>9%</td> </tr> <tr> <td>Q1</td> <td>11%</td> </tr> <tr> <td>Q2</td> <td>8%</td> </tr> <tr> <td>Q3</td> <td>7%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	9%	Q1	11%	Q2	8%	Q3	7%
Quarter	Prevalence (%)												
Q4	9%												
Q1	11%												
Q2	8%												
Q3	7%												
Building wrap and sealing	7	<ul style="list-style-type: none"> • Membrane not fixed to frame. • Discontinuous and incomplete vapour barrier. • Building wrap incomplete (not covering all external walls). 	<table border="1"> <caption>Prevalence per quarter for Building wrap and sealing</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>9%</td> </tr> <tr> <td>Q1</td> <td>8%</td> </tr> <tr> <td>Q2</td> <td>5%</td> </tr> <tr> <td>Q3</td> <td>5%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	9%	Q1	8%	Q2	5%	Q3	5%
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Q4	9%												
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Q2	5%												
Q3	5%												

3.3. OVERVIEW OF COMMON NON-COMPLIANT ITEMS OBSERVED

COMMERCIAL (CLASS 2 TO 9)

Approximately **350 elements** were assessed across **28 commercial building sites** during this quarter an average of 13 elements per inspection, of which 38 elements were identified as a compliance risk (**across 16 sites**) and required rectification or justification. There were no critical issues identified.

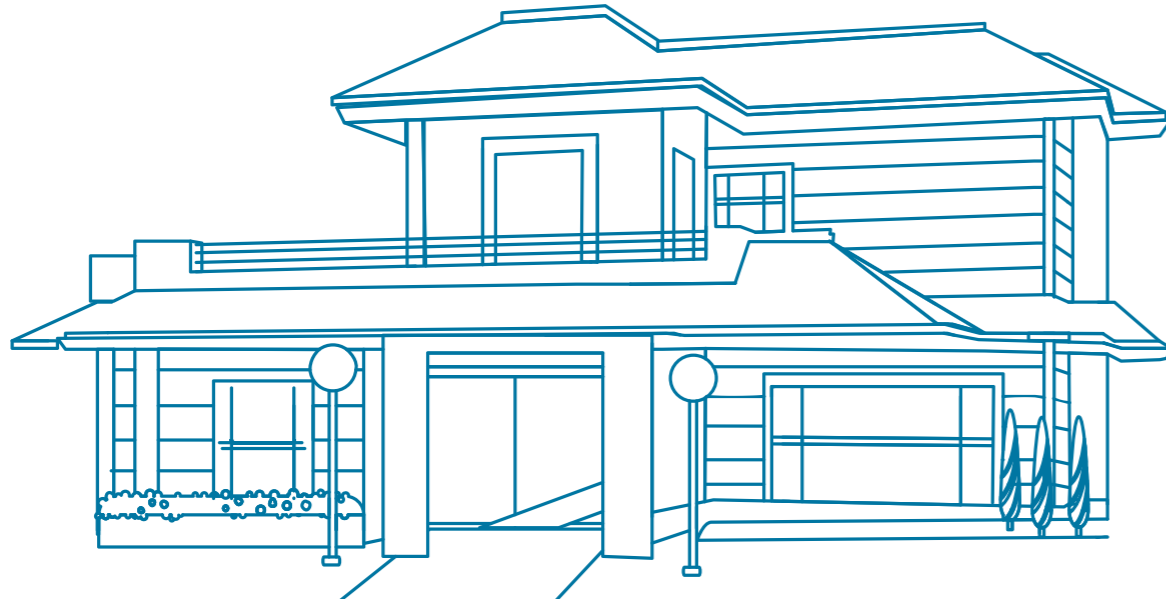
The most common non-compliances observed within the **TOP SIX CATEGORIES**

Building category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
Fire safety provisions	37	<ul style="list-style-type: none"> No temporary portable fire extinguishers provided to site or installed to every floor during construction. Clearance between fire hydrant not achieved e.g. clearance around the valve handwheel to the fire hydrant. Minimum width of 1m not provided between hydrant and stair balustrading between basement and ground floor fire isolated stair well. Booster assembly located within 10m of the front wall of the building without compliant shield wall. Fire isolated exit riser heights are not consistent with adjacent riser variations greater than 5mm. Fire-resistant door-sets have not been installed in accordance with AS1905, jamb cavities have not been backfilled in accordance with the section 5. 	<table border="1"> <caption>Prevalence per quarter for Fire safety provisions</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>18%</td> </tr> <tr> <td>Q1</td> <td>20%</td> </tr> <tr> <td>Q2</td> <td>26%</td> </tr> <tr> <td>Q3</td> <td>19%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	18%	Q1	20%	Q2	26%	Q3	19%
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Q4	18%												
Q1	20%												
Q2	26%												
Q3	19%												
Damp and weatherproofing	2	<ul style="list-style-type: none"> No thresholds at doorways (to bathrooms, units). No threshold between internal and external balcony. No overflow provision provided to external balconies. Inadequate fall for floor wastes in bathroom. 	<table border="1"> <caption>Prevalence per quarter for Damp and weatherproofing</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>18%</td> </tr> <tr> <td>Q1</td> <td>22%</td> </tr> <tr> <td>Q2</td> <td>20%</td> </tr> <tr> <td>Q3</td> <td>33%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	18%	Q1	22%	Q2	20%	Q3	33%
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Q2	20%												
Q3	33%												

Building category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
Access for people with a disability	2	<ul style="list-style-type: none"> • Accessible carparking space not provided for in carpark as required by D3.5 (a) of volume 1 of the BCA. • Circulation space not provided (2070mm x 1450mm not met). • Decals not contrasting. 	<table border="1"> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>20%</td> </tr> <tr> <td>Q1</td> <td>29%</td> </tr> <tr> <td>Q2</td> <td>22%</td> </tr> <tr> <td>Q3</td> <td>22%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	20%	Q1	29%	Q2	22%	Q3	22%
Quarter	Prevalence												
Q4	20%												
Q1	29%												
Q2	22%												
Q3	22%												
Structural provisions	4	<ul style="list-style-type: none"> • Structural integrity compromised for service openings. • Steel frame has section mixed with timber framing. • Exposed steel at slab edge and to accommodate the relocation of plumbing services. 	<table border="1"> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>8%</td> </tr> <tr> <td>Q1</td> <td>20%</td> </tr> <tr> <td>Q2</td> <td>21%</td> </tr> <tr> <td>Q3</td> <td>25%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	8%	Q1	20%	Q2	21%	Q3	25%
Quarter	Prevalence												
Q4	8%												
Q1	20%												
Q2	21%												
Q3	25%												
Emergency lighting, exit signs & warning systems	2	<ul style="list-style-type: none"> • Emergency lights missing over stairway. • Secondary exits signs missing, (in basement and the ground level stair discharge) not in accordance with E4.5 BCA. 	<table border="1"> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>13%</td> </tr> <tr> <td>Q1</td> <td>9%</td> </tr> <tr> <td>Q2</td> <td>22%</td> </tr> <tr> <td>Q3</td> <td>20%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	13%	Q1	9%	Q2	22%	Q3	20%
Quarter	Prevalence												
Q4	13%												
Q1	9%												
Q2	22%												
Q3	20%												
Protection of openings	4	<ul style="list-style-type: none"> • Penetrations through walls and floors requiring FRL • Openings within 3m of boundary. 	<table border="1"> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>5%</td> </tr> <tr> <td>Q1</td> <td>32%</td> </tr> <tr> <td>Q2</td> <td>22%</td> </tr> <tr> <td>Q3</td> <td>29%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	5%	Q1	32%	Q2	22%	Q3	29%
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Q1	32%												
Q2	22%												
Q3	29%												

3.4. PREVALENCE OF BUILDING COMPLIANCE RISKS - SINGLE OCCUPANCY VS DUAL OCCUPANCY

SINGLE OCCUPANCY



Common Building Issues

- Timber framing
- Waterproofing and external weatherproofing
- Unreinforced brickwork and accessories
- Steel framing and structural steel members
- Weatherproofing of brickwork
- Fire separation

● Prevalence of Compliance Risk

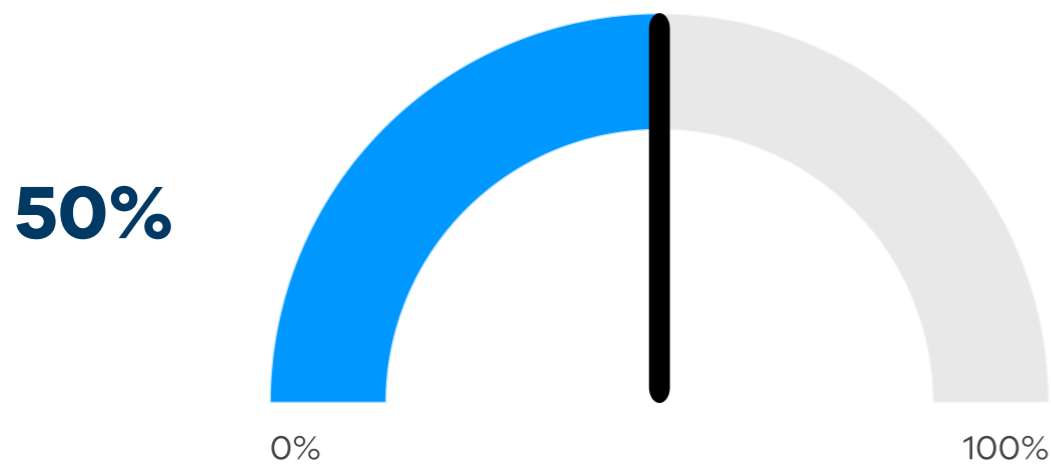
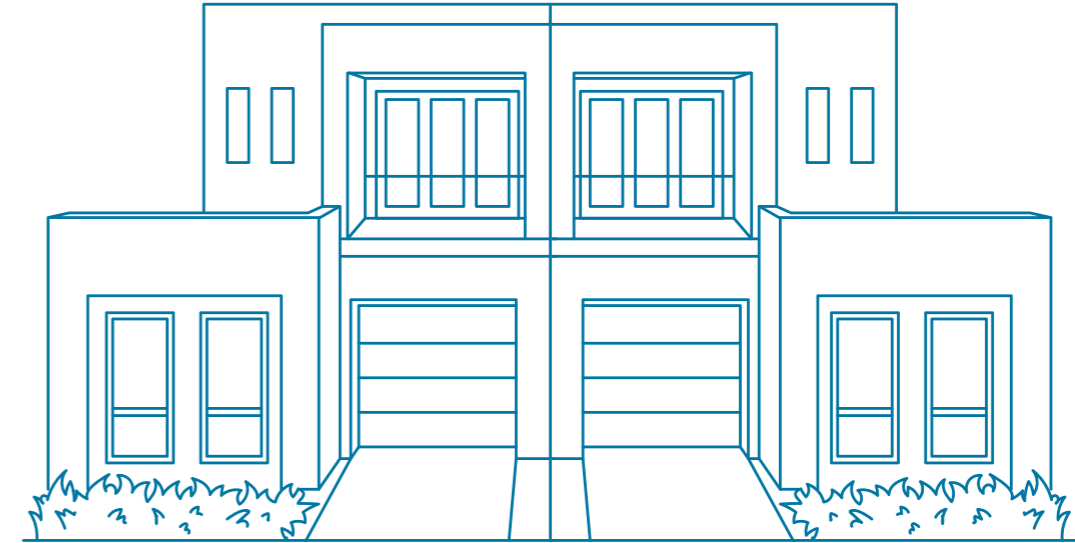


Figure 13: This graph shows the prevalence of compliance risks observed in building inspections of single occupancy dwellings.

DUAL OCCUPANCY



Common Building Issues

- Fire separation
- Timber framing
- Steel framing and structural steel members
- Unreinforced brickwork and accessories
- Footings and slab construction
- Waterproofing and external weatherproofing

● Prevalence of compliance risk

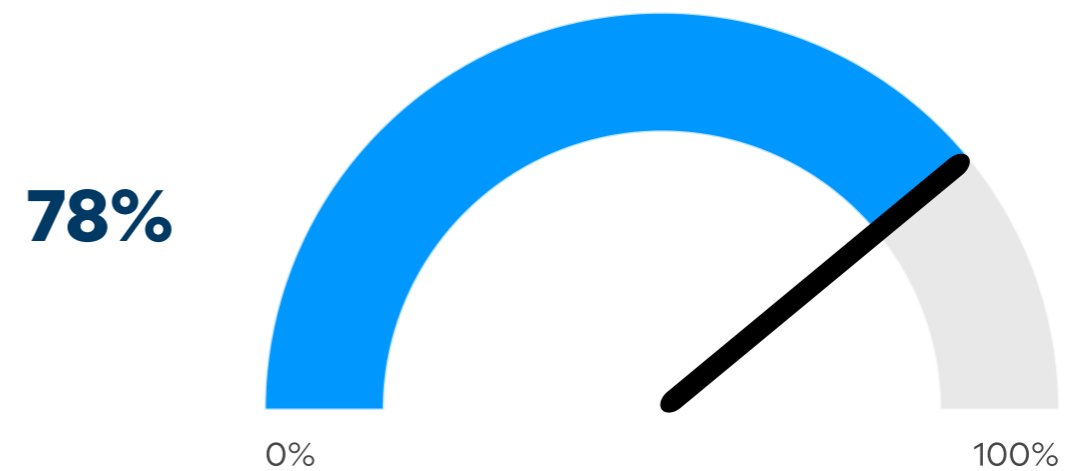


Figure 14: This graph shows the prevalence of compliance risks observed in building inspections of dual occupancy dwellings.

3.5. PREVALENCE OF BUILDING COMPLIANCE RISKS BY CLASS

Class	No. of sites inspected in Q3	% of compliance risks across class from all inspections	Areas of serious compliance risk for building
Domestic (Class 1 and 10)	649	51%	<ul style="list-style-type: none"> • Timber framing • Weatherproofing of masonry • Wet areas and external weatherproofing • Steel framing and structural steel members • Unreinforced brickwork and accessories • Fire separation • Footings and slab construction • Building wrap and sealing • Glazing • Drainage
Apartments ≥2 sole occupancy (Class 2 + mixed use) and group dwellings and hospitals (Classes 3, 4, 9)	9	78%	<ul style="list-style-type: none"> • Protection of openings • Damp and weatherproofing • Structural provisions • Firefighting equipment
Assembly building with no dwellings (Class 9b)	6	33%	<ul style="list-style-type: none"> • Cold water services • Structural provisions • Firefighting equipment

Class	No. of sites inspected in Q3	% of compliance risks across class from all inspections	Areas of serious compliance risk for building
Office buildings and cafes, shops and markets with no dwellings (Classes 5, 6 + mixed use)	9	56%	<ul style="list-style-type: none"> • Protection of openings • Firefighting equipment, construction of exits • Access for people with a disability • Emergency lighting, exit signs and warning systems
Warehouse, factories and carparks – no dwellings (Classes 7a, 7b, 8)	4	50%	<ul style="list-style-type: none"> • Structural provisions • Damp and weatherproofing • Firefighting equipment



3.6. CASE STUDY - BUILDING

CLASS 1 DWELLING – SERIOUS NON-COMPLIANCES IDENTIFIED

Overview

A proactive inspection of a double storey Class 1 dwelling under construction identified serious non-compliances. Site cuts on the boundary of the property were undermining the adjoining properties and the concrete slab had not been constructed in accordance with approved engineer's design that required the slab to also act as a retaining wall. Upon further investigation, it was identified that the mandatory slab steel inspection had been approved.

Response

A VBA notification to the RBS and builder prompted the builder to rectify the issues. The builder obtained amended engineering drawings and ensured rectification was carried out in line with these drawings. The rectification work included the construction of the retaining walls for the site cuts and backfilling behind the retaining walls, constructing the slab to include square-hollow-section uprights.

Three-months later, due to the seriousness of the issues, the VBA re-inspected the site to determine if all the building work issued in the amended documents for the slab construction and retaining wall had been addressed.

The re-inspection identified several other non-compliant framing items that were also not in accordance with the building permit and approved engineering documentation. The non-compliant items included:

- P2 posts not installed and fixed to the slab as per the engineering documentation.
- Bottom plates installed on large amounts of packers, including having inadequate bottom plate fixings.
- Timber bottom plates overhanging slab by 50mm.
- Wall braces not installed and missing and not in accordance with the engineering documentation.

Additionally, these non-compliant framing items were not identified on the partial mandatory frame stage inspection that had been carried out and approved.

Further action

Based on the findings, the VBA issued a written Direction to Fix building work to address the non-compliant items identified on site. The builder then obtained amended engineering documents and carried out the rectification in accordance with these documents. Upon receiving the engineer's certification of the rectification work, the VBA cancelled its written Direction to Fix building work.

Outcome

The actions the VBA took to ensure the non-compliant building work was rectified in line with the Act, regulations and building permit, protected the end consumer (both current or any future owners) from the burden of non-compliant work.

For example, the unaddressed issues in the worst case could have led to structural failure or, at the minor end, caused damage to building and internal linings with possible movement and failure in the framing due to inadequate fixings, connections and bracing of the frame

Site cuts on the boundary of the property undermining adjoining properties.



Concrete slab had not been constructed in accordance with approved engineer's design which included square hollow sections installed within the slab.



Timber bottom plates overhanging slab by 50mm.



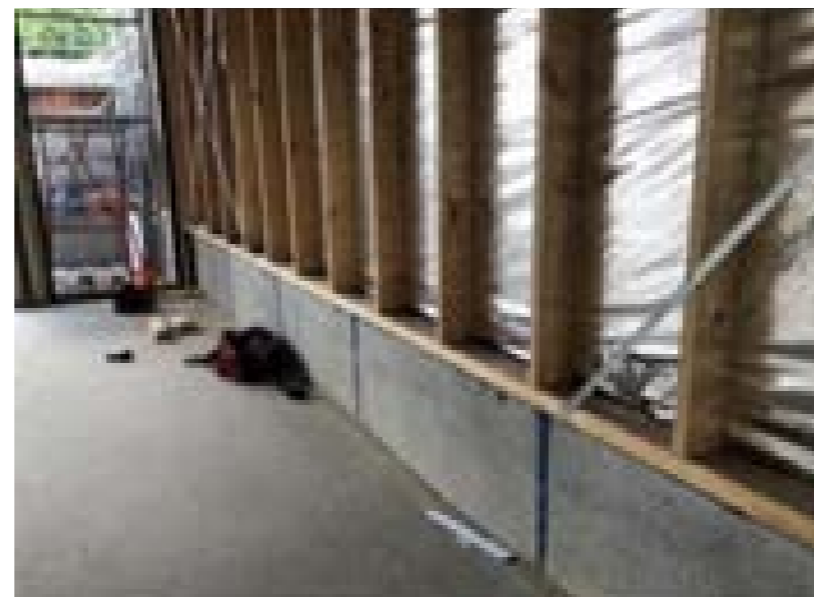
P2 posts were not installed as per the engineering documents and bolted connection from above fell within square hollow section.



Bottom plates installed on large amounts of packers with inadequate fixings.



Wall braces not installed in accordance with the engineering documentation and missing



PLUMBING INSPECTIONS 2022-23 Q3



4.1. OVERVIEW OF PLUMBING INSPECTIONS CONDUCTED Q3

Total Plumbing Inspections
1210

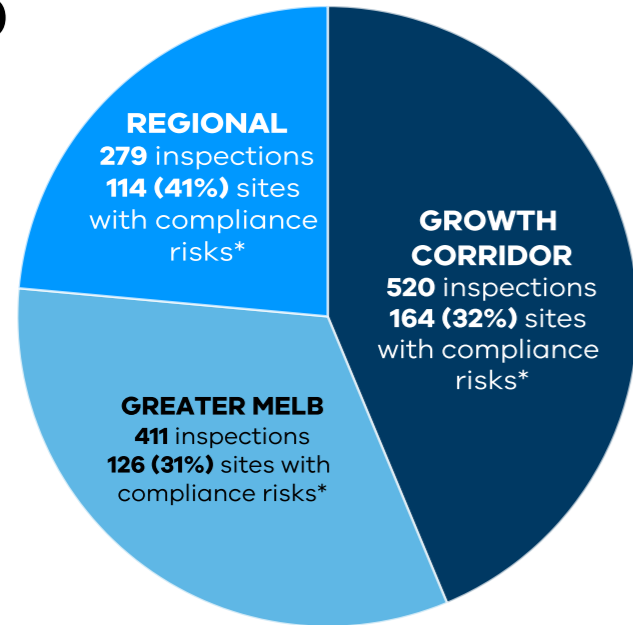


Figure 15: This chart shows the geographic trends in proactive inspection non-compliance rates in plumbing inspections.

GEOGRAPHIC TRENDS

Volume – Greater Melbourne ‘Growth Corridors’ had the highest number of inspections undertaken as this is where building permit activity is the greatest.

Inspection outcomes – Prevalence of non-compliant issues observed during plumbing inspections were highest in ‘Regional Victoria’. This trend in compliance risk is consistent with the previous quarter.

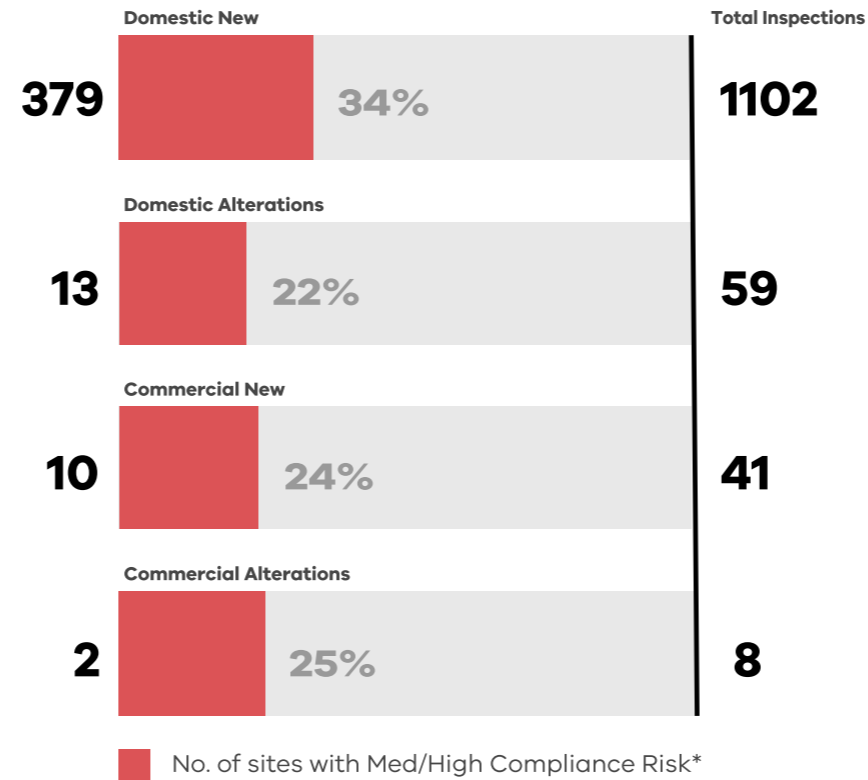


Figure 16: This graph compares rates of non-compliance in plumbing work between new builds and alterations.

NEW BUILDS VS ALTERATIONS

Volume – ‘New Builds’ had the highest number of inspections undertaken, where building permit activity is also the greatest.

Inspection outcomes – A higher prevalence of non-compliant issues were observed during plumbing inspections of New Builds, in comparison to buildings undergoing ‘Alterations.’ This trend in compliance risk is consistent with the previous quarter.

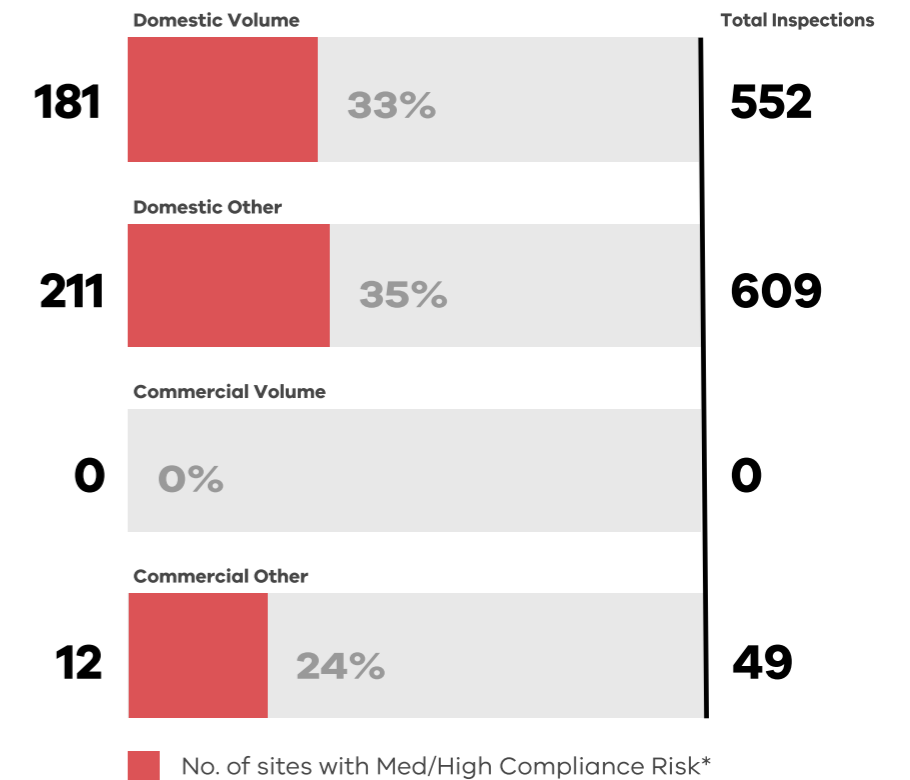


Figure 17: This graph compares rates of non-compliance in plumbing work between volume builders and all other builders.

LARGE VOLUME BUILDERS VS OTHER BUILDERS

Volume – Large Volume Builders proportionately have a higher volume of inspections undertaken because they build a lot of the new dwellings in the growth corridor areas of Melbourne.

Inspection outcomes comparisons – Prevalence of non-compliant issues observed during plumbing inspections were slightly lower in Large Volume Builders compared to all ‘Other Builders.’ This trend in compliance risk is consistent with the previous quarter.

The VBA uses trends to update its risk-based site selection. This ensures sites are selected based on the highest risk of adverse effect on the safety and/or amenity of future building occupants and the public.

*Number of sites inspected with at least one medium/high compliance risk observed.

4.2. OVERVIEW OF WHERE THE COMPLIANCE RISKS ARE FOUND - PLUMBING

COMMON NON-COMPLIANCE DOMESTIC - 2022-23 Q3

The most prevalent categories where non-compliance risks are observed (excluding low risk), remain consistent each quarter.

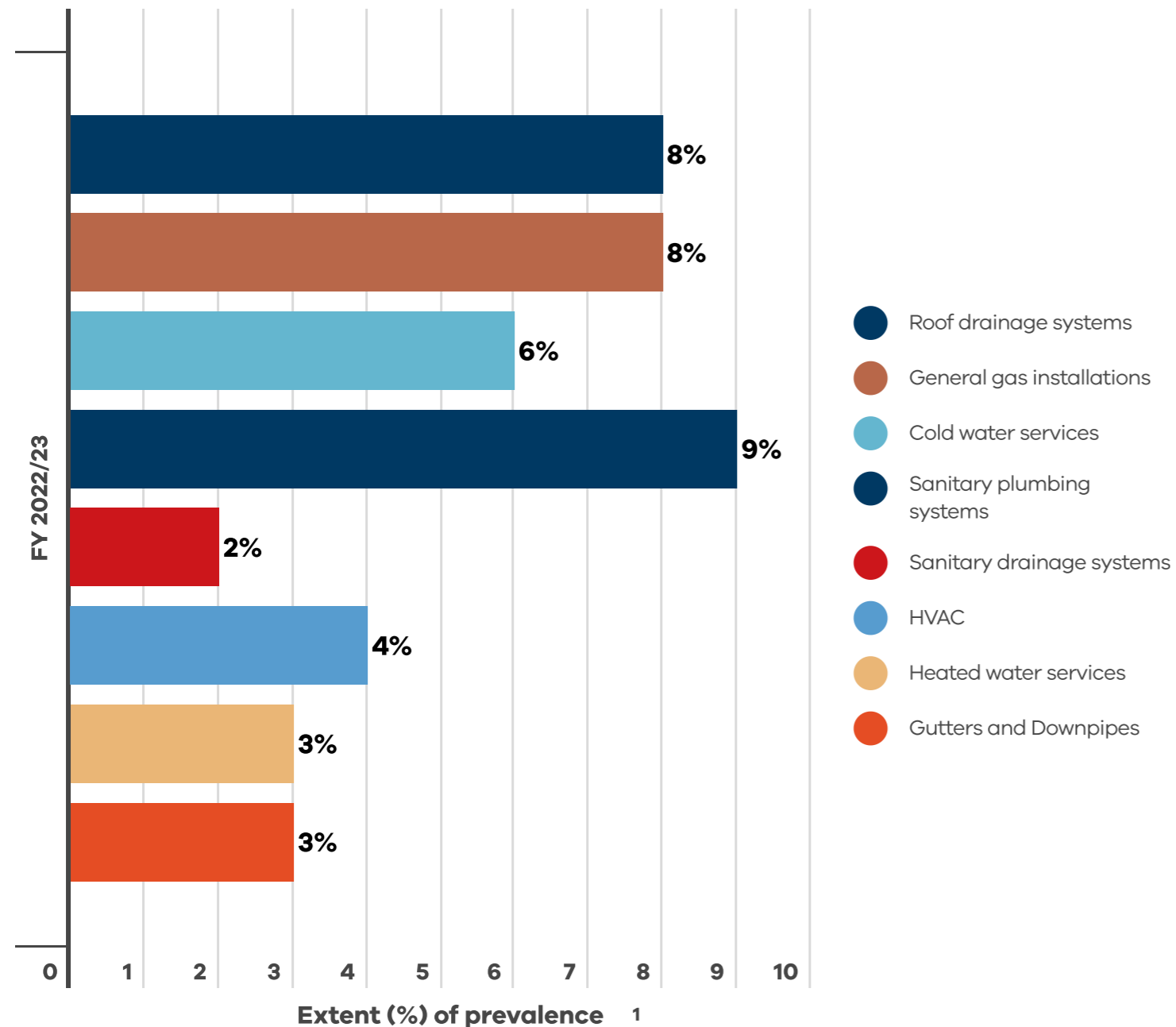


Figure 18: This graph shows the most prevalent categories where non-compliance risks are observed (medium and high risk) in domestic plumbing inspections.

¹ **Extent (%) of prevalence** is calculated by 'number of times an item was observed as non-compliant over the number of times an item was inspected'.

For more information on the nature of non-compliant issues observed this quarter go to Section 4.3 ('Overview of Plumbing Compliance Risks').

COMMON NON-COMPLIANCE COMMERCIAL - 2022-23 Q3

The most prevalent categories where non-compliance risks are observed (excluding low risk), remain consistent each quarter.

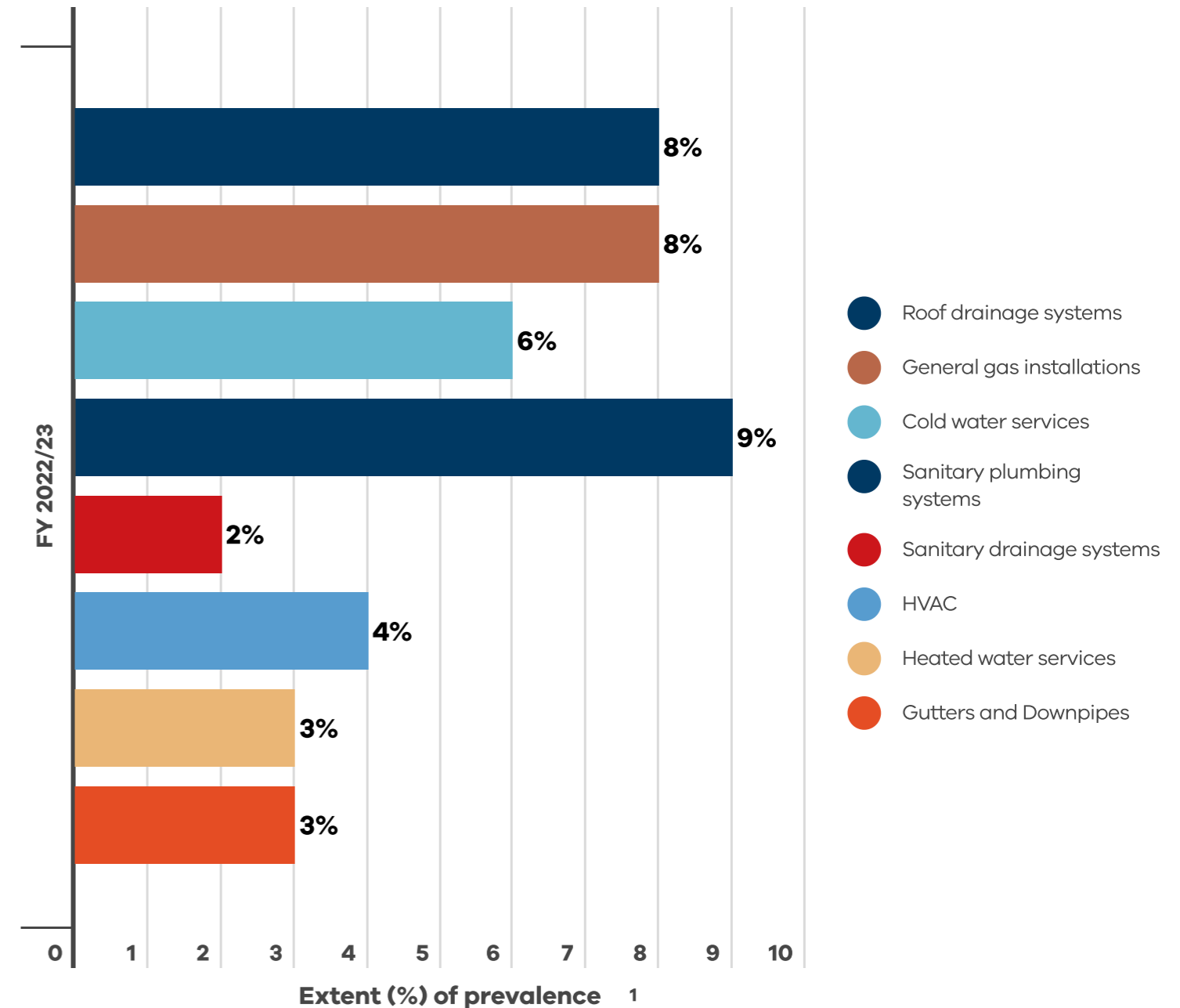


Figure 19: This graph shows the most prevalent categories where non-compliance risks are observed (medium and high risk) in commercial plumbing inspections.

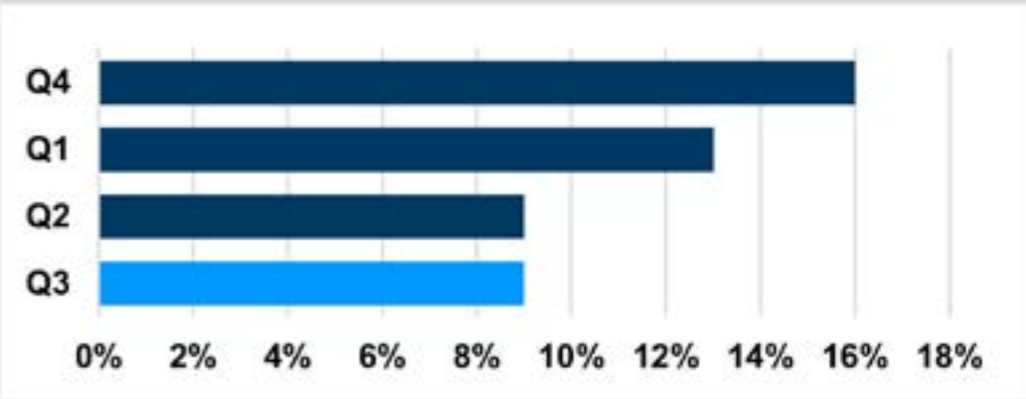
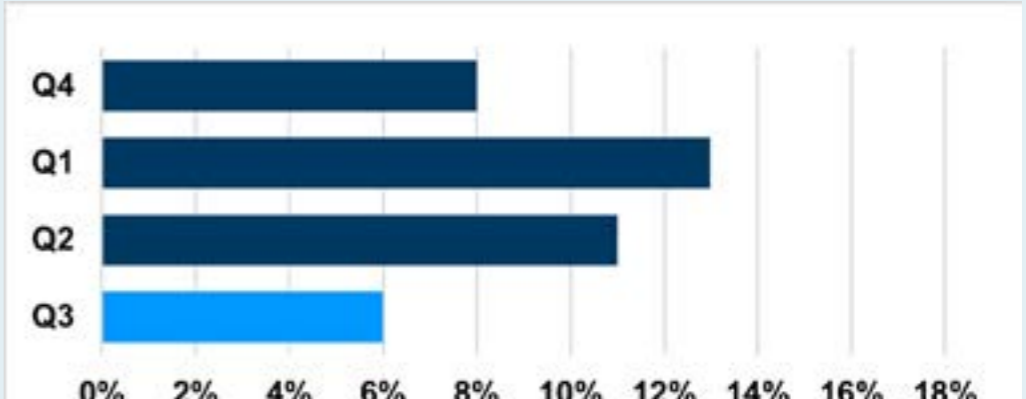
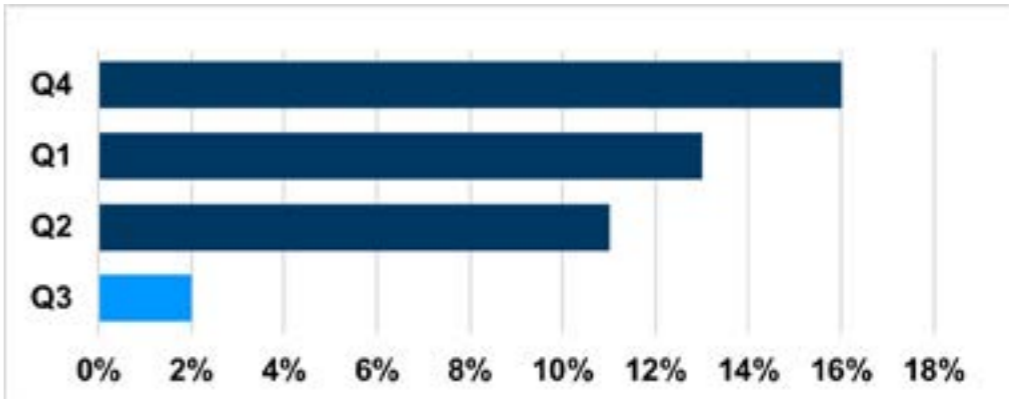
4.3. OVERVIEW OF PLUMBING COMPLIANCE RISK DOMESTIC (CLASS 1)

DOMESTIC

Approximately **13,000 elements** were inspected across **1161 inspections** (an average of **11 elements** per inspection) and **679 elements** (across **392 sites**) were identified as a compliance risk requiring rectification or justification. A total of 4 critical issues (across 4 sites) were observed, which comprised of OHS issues and swimming pool access issues.

The most common non-compliances observed within the **TOP FIVE CATEGORIES**

Plumbing category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
General gas Installation	85	<ul style="list-style-type: none"> Gas flue clearance at a minimum of 500mm above roof is not achieved. Insufficient separation of gas piping with other services (electrical and water). Gradient to the ducted heater flue grading away from the appliance towards the flue elbow. Reversion fittings not installed on the accessible multilayer gas piping. Exposed multi-layer gas pipe to UV and Proprietary gas piping not labelled at gas meter. 	<table border="1"> <caption>Prevalence per quarter for General gas Installation</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>10%</td> </tr> <tr> <td>Q1</td> <td>17%</td> </tr> <tr> <td>Q2</td> <td>13%</td> </tr> <tr> <td>Q3</td> <td>8%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	10%	Q1	17%	Q2	13%	Q3	8%
Quarter	Prevalence												
Q4	10%												
Q1	17%												
Q2	13%												
Q3	8%												
Roof drainage systems	89	<ul style="list-style-type: none"> Pressure flashing not constructed appropriately and not fixed at the required intervals, valley gutters not fixed at required intervals. Sumps undersize and/or discharge through non-compliant side chutes. Soaker flashing undersized and/or soaker flashing installed against the direction of flow and stand appears to be undersized. Inadequate support of suspended stormwater drains and downpipes. Several 'box gutter' issues (change of direction, incorrectly terminated, reduced in size and/or insufficient overflow provision). Box gutter fixed to frame. Multiple flashings/capping issues: Undersized, missing pressure flashings and pressure flashings applied to unsmooth brickwork, spreaders discharging over flashings, incorrect fall away from roof on parapet capping, apron flashings not secured at 500mm intervals, lead flashing not stepped/flushed. 	<table border="1"> <caption>Prevalence per quarter for Roof drainage systems</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>11%</td> </tr> <tr> <td>Q1</td> <td>12%</td> </tr> <tr> <td>Q2</td> <td>11%</td> </tr> <tr> <td>Q3</td> <td>8%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	11%	Q1	12%	Q2	11%	Q3	8%
Quarter	Prevalence												
Q4	11%												
Q1	12%												
Q2	11%												
Q3	8%												

Plumbing category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
Sanitary plumbing systems	100	<ul style="list-style-type: none"> Sanitary and drainage vents not supported appropriately, drainage vents with insufficient gradient. 88-degree junctions installed on a graded sewer. Expansion joints not clipped and not installed on above ground sanitary drains. Junction fittings installed in exclusion zones at several sites. 	 <table border="1"> <caption>Prevalence per quarter for Sanitary plumbing systems</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>16%</td> </tr> <tr> <td>Q1</td> <td>13%</td> </tr> <tr> <td>Q2</td> <td>9%</td> </tr> <tr> <td>Q3</td> <td>9%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	16%	Q1	13%	Q2	9%	Q3	9%
Quarter	Prevalence												
Q4	16%												
Q1	13%												
Q2	9%												
Q3	9%												
Cold water services	69	<ul style="list-style-type: none"> Water services not protected through concrete slab. Evaporative cooling unit water connection installed between roof covering, flashing and condensate drains do not discharge over a down pipe. Issues with separations between water and other services 	 <table border="1"> <caption>Prevalence per quarter for Cold water services</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>8%</td> </tr> <tr> <td>Q1</td> <td>13%</td> </tr> <tr> <td>Q2</td> <td>11%</td> </tr> <tr> <td>Q3</td> <td>6%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	8%	Q1	13%	Q2	11%	Q3	6%
Quarter	Prevalence												
Q4	8%												
Q1	13%												
Q2	11%												
Q3	6%												
Sanitary drainage systems	29	<ul style="list-style-type: none"> Minimum required separation between overflow relief gully (ORG) and the lowest fixture not met. No inspection opening cover and ORG grate not removable. Inspection shaft covers not installed and not independently supported. No concrete support under drainage bends and sewer drainage with incorrect fall. 	 <table border="1"> <caption>Prevalence per quarter for Sanitary drainage systems</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>16%</td> </tr> <tr> <td>Q1</td> <td>13%</td> </tr> <tr> <td>Q2</td> <td>11%</td> </tr> <tr> <td>Q3</td> <td>2%</td> </tr> </tbody> </table>	Quarter	Prevalence	Q4	16%	Q1	13%	Q2	11%	Q3	2%
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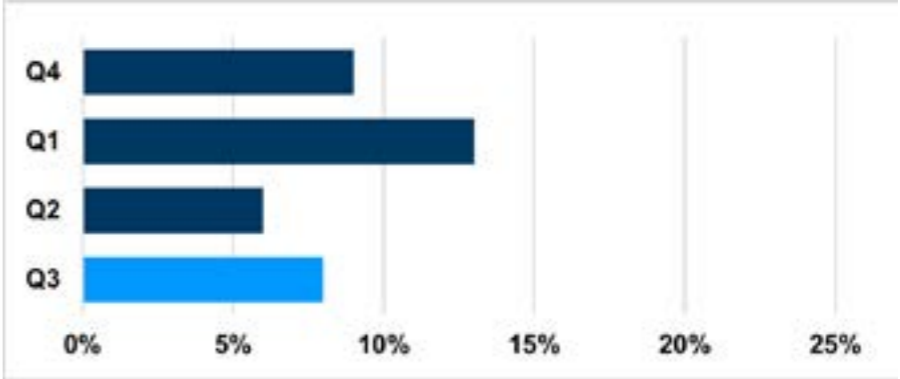
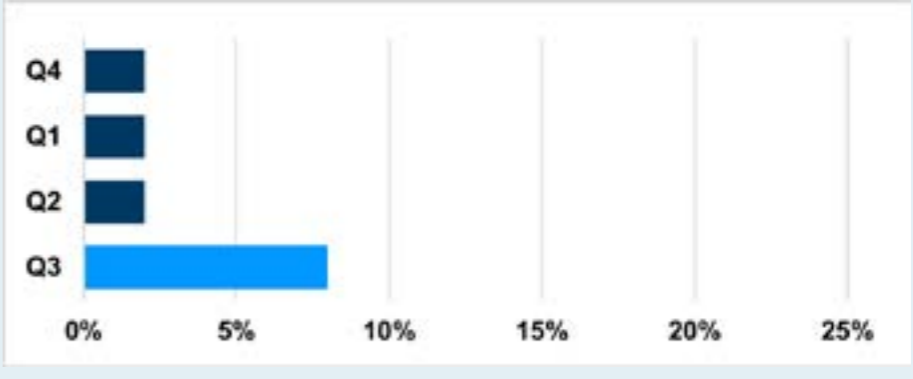
4.3. OVERVIEW OF COMMON NON-COMPLIANT ITEMS OBSERVED

COMMERCIAL (CLASSES 2–9)

Approximately 1,000 elements were inspected across **49 sites** and **38 elements (across 33 sites)** were identified as a compliance risk requiring rectification or justification. No critical issues were found.

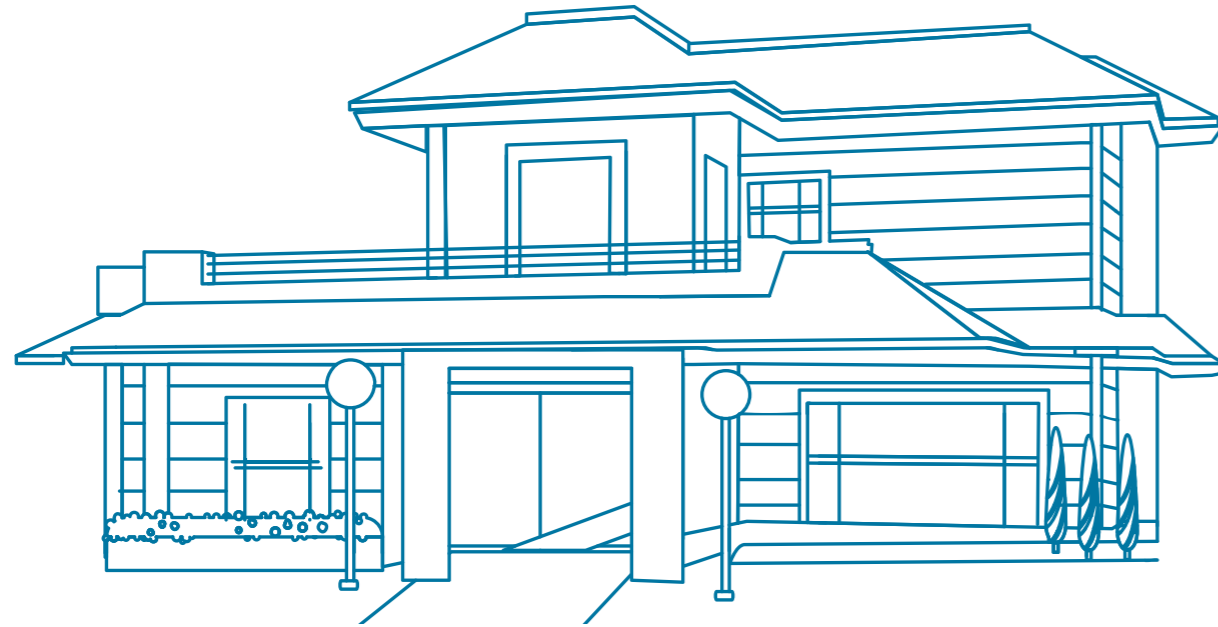
The most common non-compliances observed within the **TOP FOUR CATEGORIES**

Building category	No. of non-compliant items in category	Common non-compliance in each category	Prevalance per quarter										
Roof drainage Systems	3	<ul style="list-style-type: none"> Sumps undersize and/or discharge through non-compliant side chutes. Insufficient width of box gutter for commercial (200mm vs 300mm min width required). Several box gutter issues: incorrectly terminated, reduced in size and/or insufficient overflow provision. Roofing: valley gutter installed on a four-degree pitched roof, upper roof discharging uncontrolled onto the lower roof, valley catchment exceeding 20sqm of roof. 	<table border="1"> <caption>Prevalance per quarter for Roof drainage Systems</caption> <thead> <tr> <th>Quarter</th> <th>Prevalance (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>~14%</td> </tr> <tr> <td>Q1</td> <td>~17%</td> </tr> <tr> <td>Q2</td> <td>~17%</td> </tr> <tr> <td>Q3</td> <td>~6%</td> </tr> </tbody> </table>	Quarter	Prevalance (%)	Q4	~14%	Q1	~17%	Q2	~17%	Q3	~6%
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Q3	~6%												
Sanitary plumbing systems	4	<ul style="list-style-type: none"> Sanitary and drainage vents not supported appropriately and drainage vents with insufficient gradient. 88-degree junctions installed on a graded sewer. Expansion joints not clipped and not installed on above ground sanitary drains. Junction fittings installed in exclusion zones at several sites. 	<table border="1"> <caption>Prevalance per quarter for Sanitary plumbing systems</caption> <thead> <tr> <th>Quarter</th> <th>Prevalance (%)</th> </tr> </thead> <tbody> <tr> <td>Q1</td> <td>~5%</td> </tr> <tr> <td>Q2</td> <td>~9%</td> </tr> <tr> <td>Q2</td> <td>~9%</td> </tr> <tr> <td>Q3</td> <td>~8%</td> </tr> </tbody> </table>	Quarter	Prevalance (%)	Q1	~5%	Q2	~9%	Q2	~9%	Q3	~8%
Quarter	Prevalance (%)												
Q1	~5%												
Q2	~9%												
Q2	~9%												
Q3	~8%												

Plumbing category	No. of non-compliant items in category	Common non-compliance in each category	Prevalence per quarter										
Cold water	4	<ul style="list-style-type: none"> • Backflow prevention required on flexible shower hoses that reach the floor and toilet. • Insufficient separation from electrical and gas services and recycled water, fire and water services clipped together. • No pressure limiting devices installed into meter assembly. • Water service not protected through slab. 	 <table border="1"> <caption>Prevalence per quarter for Cold water</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>~9%</td> </tr> <tr> <td>Q1</td> <td>~13%</td> </tr> <tr> <td>Q2</td> <td>~6%</td> </tr> <tr> <td>Q3</td> <td>~8%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	~9%	Q1	~13%	Q2	~6%	Q3	~8%
Quarter	Prevalence (%)												
Q4	~9%												
Q1	~13%												
Q2	~6%												
Q3	~8%												
General Gas installations	4	<ul style="list-style-type: none"> • Insufficient separation of gas piping with other services (electrical and water). • Reversion fittings not installed on the accessible multilayer gas piping. • Exposed multi-layer gas piping. 	 <table border="1"> <caption>Prevalence per quarter for General Gas installations</caption> <thead> <tr> <th>Quarter</th> <th>Prevalence (%)</th> </tr> </thead> <tbody> <tr> <td>Q4</td> <td>~2%</td> </tr> <tr> <td>Q1</td> <td>~2%</td> </tr> <tr> <td>Q2</td> <td>~2%</td> </tr> <tr> <td>Q3</td> <td>~8%</td> </tr> </tbody> </table>	Quarter	Prevalence (%)	Q4	~2%	Q1	~2%	Q2	~2%	Q3	~8%
Quarter	Prevalence (%)												
Q4	~2%												
Q1	~2%												
Q2	~2%												
Q3	~8%												

4.4. PREVALENCE OF PLUMBING COMPLIANCE RISKS - SINGLE OCCUPANCY VS DUAL

SINGLE OCCUPANCY



Common Plumbing Issues

- General gas installation
- Roof drainage systems
- Sanitary plumbing systems
- Cold water services
- Heated water services
- Heating, ventilation and air-conditioning systems

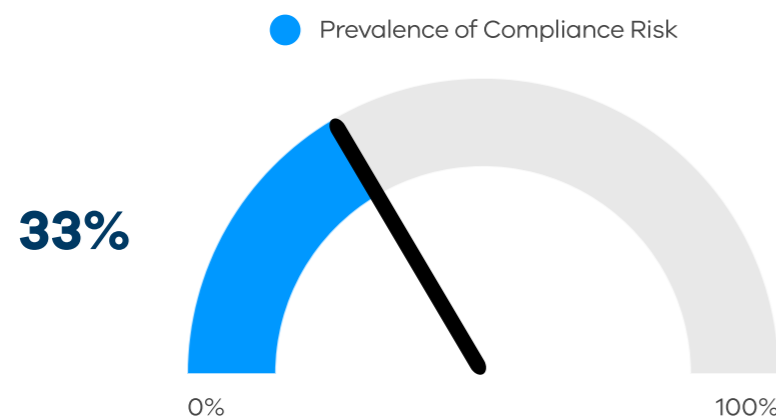
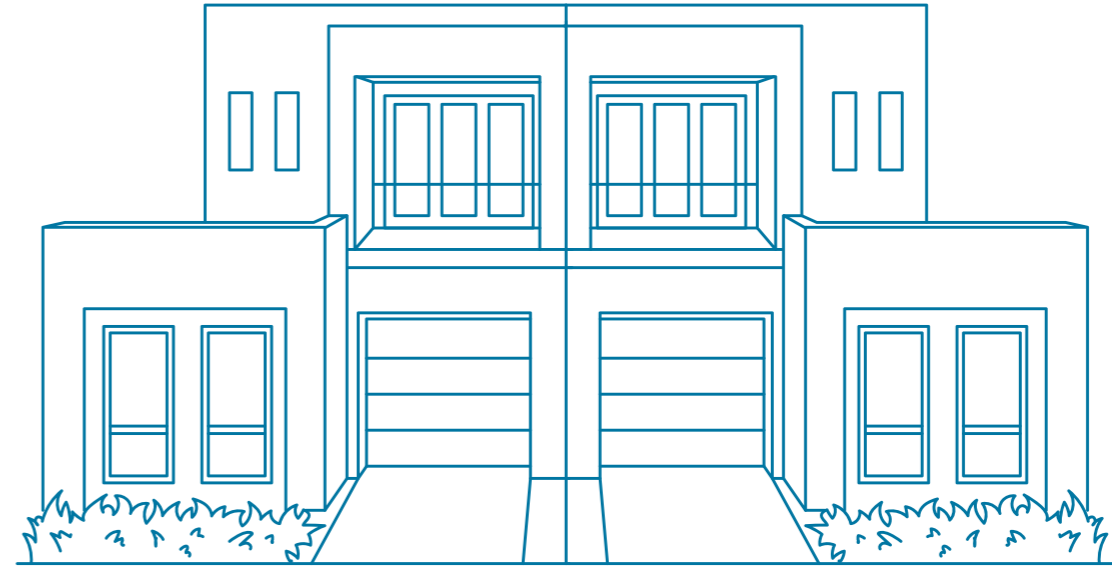


Figure 20: This graph shows the prevalence of compliance risks observed in plumbing inspections of single occupancy dwellings.

DUAL OCCUPANCY



Common Plumbing Issues

- Roof drainage systems
- Cold water services
- Sanitary plumbing systems
- General gas installation
- Gutters and downpipes

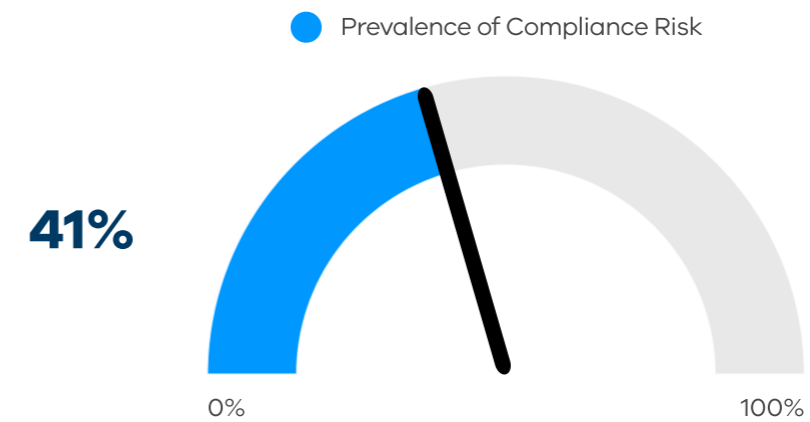


Figure 21: This graph shows the prevalence of compliance risks observed in plumbing inspections of dual occupancy dwellings.

4.5. PREVALENCE OF PLUMBING COMPLIANCE RISKS BY CLASS

Class	No. of sites inspected	% of compliance risks across class from all inspections	Areas of serious compliance risk for building
Domestic (Class 1 and 10)	1161	34%	<ul style="list-style-type: none"> • General gas installation • Sanitary plumbing systems • Cold water services • Roof drainage systems • Sanitary drainage systems
Apartments ≥2 sole occupancy (Class 2 + mixed use) and group dwellings and hospitals (Classes 3, 4, 9)	12	41%	<ul style="list-style-type: none"> • General gas installation • Sanitary plumbing systems • Cold water services • Heated water Services • Heating, ventilation and air-conditioning systems
Assembly building with no dwellings (Class 9b)	12	8%	<ul style="list-style-type: none"> • Unlicensed/unregistered in: Mechanical services
Office buildings and cafes, shops and markets with no dwellings (Classes 5, 6 + mixed use)	8	25%	<ul style="list-style-type: none"> • Sanitary drainage systems • Below ground Stormwater drainage
Warehouse and factories and carpark – no dwellings (Classes 7a, 7b, 8)	17	24%	<ul style="list-style-type: none"> • Roof drainage systems • Cold water services • Sanitary plumbing systems • Sanitary drainage Systems

3.6. CASE STUDY - PLUMBING

DUAL OCCUPANCY CLASS 1 DWELLING – SERIOUS NON-COMPLIANCES IDENTIFIED

Overview

A proactive plumbing inspection of two double storey dwellings under construction identified non-compliances that presented safety concerns.

The plastic gas pipework installed throughout the dwellings used non-compliant material for use above ground and below a building. It was not terminated with a minimum of 300mm horizontally below ground and extended vertically above ground by means of a metallic riser. AS/NZS 5601.1 2013 cl 2.4.1, 2.4.2, 5.4.1, 5.4.7 and Table 4.1.

Response

A VBA notification to the RBS and builder prompted the builder to notify the responsible plumber about the non-compliant work. The plumber provided the VBA with photographic evidence to demonstrate rectification of the gas fitting work, however the evidence was insufficient to determine if the issue was brought into compliance. Additionally, the photographic evidence provided by the plumber demonstrated further non-compliant gas fitting work. Additionally, the subsequent site revisit by the VBA confirmed the original non-compliant work had not been suitably rectified.

Further action

Due to the serious concerns for the amenity of the future occupants and the imminent issuing of an occupancy permit, the VBA sought immediate rectification, however, no action was forthcoming from the RBS, builder, and plumber to rectify the gas fitting work. As a result, the VBA escalated the matter to the gas distributor who subsequently removed the gas meters. Upon the VBA communicating this action to the RBS, builder, and plumber, the original plumber ended his involvement with the site and lodged a certificate of compliance for work completed to that time.

Outcome

The findings by the VBA in this case, as well as action taken to bring the building work into compliance with the Act, regulations and building permit, ensured the end consumer received a home that is compliant, and the burden of non-compliant work was not passed onto the current or any future owners.

For example, the unaddressed issues in the worst case could have led to structural failure or, at the minor end, caused damage to building and internal linings with possible movement and failure in the framing due to inadequate fixings, connections and bracing of the frame.

Non-compliant plastic gas pipework material used below a building.



Non-compliant plastic gas pipework material used above ground.



APPENDICES

APPENDIX 1: PROACTIVE INSPECTIONS PROGRAM - RISK RATING SCALE

The following table shows the PIP risk rating matrix.

The level of risk observed during inspection determines the VBA's response and any actions required of the relevant building practitioners.

LOW RISK (PASS)	Non-compliance is not identified at inspection, or any non-compliance that is consistent with work in progress and is reasonably expected to be resolved as work progresses.
LOW RISK (LOW-IMPACT)	It is unlikely that the compliance risk, if left untreated, would cause an adverse effect on the safety and/or amenity of the occupants. Financial loss for future occupants or loss of structural integrity is unlikely.
MEDIUM RISK	It is possible that the compliance risk, if left untreated, would cause an adverse effect on safety and/or amenity of the occupants/public. Financial loss for future occupants or loss of structural integrity is possible.
HIGH RISK	It is almost certain that the compliance risk, if left untreated, would cause an adverse effect on the safety and/or amenity of the occupants/public. Structural integrity would be significantly compromised and/or total loss of project value would be incurred.

APPENDIX 2: PROACTIVE INSPECTIONS PROGRAM - ELECTRONIC CHECKLIST

SECTION ONE

Guidance on mandatory requirements under the Building Act 1993 and Building Regulations 2018

Building Regulation 2018 Provision and display of permit information (Regulation 41)

Building Act 1993 Part 3 Building Permits (Section 16 - works without a Building Permit or not in accordance with Building Permit, Section 24A- appropriate certificate of insurance issued for cost of building work >\$16,000 , Section 24B – Specification of builders in relation to specific building work, Section 25B – Restrictions on owner builders.

Building Act 1993 Part 5 Occupancy Permits

Building Regulation 2018 Part 5 Siting (Regulation 73 to 97 when applicable)

Building Regulation 2018 Part 7 Protection of adjoining property and public

Building Regulations 2018 Part 8 and Part 10 Building work and Designation of special areas of building work (Regulation 132, 150, 152, 153,154)

APPENDIX 2: PROACTIVE INSPECTIONS PROGRAM - ELECTRONIC CHECKLIST CONTINUED

SECTION TWO

Guidance on building work relevant to residential inspections and is broken down into different building stages under the National Construction Code of Australia BCA Vol 2 (class 1 and 10)

Site preparation Earthworks and Site cuts, site surface drainage and termite risk management

Footings and Slabs Preparation Concrete and Reinforcing, site classification, and footings and Slab construction

Masonry Unreinforced and reinforced, accessories, weatherproofing and earth wall construction

Framing Sub-floor ventilation, Timber/Steel Framing, Structural Steel members

Roof and Wall Cladding Roof cladding, Gutters and Down-pipes, Wall Cladding

Glazing

Fire Safety Separation, Smoke Alarms, Heating appliances, bushfire areas, Alpine Area

Health and Amenity Wet Area and External water

Safe movement and Access Stair Construction, Balustrading and Handrails, Swimming pool Safety Barriers, Swimming pool Water recirculation

Additional Construction High Wind, Earthquake and Flood Hazard

Structural Design

Energy Efficiency Building fabric, external glazing, Building Sealing, Air Movement

SECTION THREE

Guidance on building work relevant to commercial inspections and is broken down into different building stages under the National Construction Code of Australia BCA Vol 1 (class 2 to 9)

Section B: Structure

Section C: Fire Resistance Fire Resistance and Stability, Compartment and Separation, Protection of Openings

Section D: Access and Egress Provision of Escape, Construction of Exits, Access for People with Disability

Section E: Services and Equipment Fire Fighting Equipment, Smoke Hazard Management, Lift Installations, Emergency Lighting, Exit Signs and Warning Systems.

Section F: Services and Equipment Damp and Weatherproofing, Sanitary and Other Facilities, Room Heights, Light and Ventilation, Sound Transmission and Insulation.

Section G: Ancillary Provisions Minor Structure and Components, Heating Appliances, Fireplaces, Chimneys and Flues, Atrium Construction, Construction in Alpine Areas and Bush-Fire Prone Areas

Section H: Special Use Buildings Theatres, Stages and Public Halls, Public Transport Buildings

Section J: Energy Efficient Energy Efficient, Building Fabric, Glazing, Building Sealing, Air-Condition and Ventilation Systems, Artificial Lighting and Power, Heated Water Supply and Swimming Pool and Spa Plant, Access for Maintenance and Facilities Monitoring.

APPENDIX 2: PROACTIVE INSPECTIONS PROGRAM - ELECTRONIC CHECKLIST CONTINUED

SECTION FOUR

Guidance on requirements under the Plumbing Regulations 2018, NCC: Plumbing Code of Australia Volume 3 2019 Victorian section and relevant standards that apply to residential and commercial properties in the following categories.

Water Services (Section B of the NCC PCA Vol 3 2019 Vic and AS/NZS 3500:1:2018 and 3500:4:2018) - Cold Water Services, Heated Water Services, Non-Drinking Water Services, Firefighting Water Service

Sanitary plumbing and drainage systems (Section C of the NCC PCA Vol 3 2019 Vic and AS/NZS 3500:2:2018) - Sanitary Plumbing Systems and Sanitary Drainage Systems

Stormwater Drainage Systems (Section F of the NCC PCA Vol 3 2019 Vic and AS/NZS 3500:3:2018) - Roof Drainage Systems, Surface and Subsurface Drainage Systems

Heating, Ventilation and Air-conditioning (Section G of the NCC PCA Vol 3 2019 Vic)

On-Site Wastewater Systems (Section G of the NCC PCA Vol 3 2019 Vic and AS/NZS 3500:2:2018) - On-Site Wastewater Management Systems; On-Site Liquid Trade Waste Systems

Gas Installations as per AS/NZS 5601:1:201 General Gas Installation, Type A Servicing Work, Type A Conversion Work

Unlicensed plumber in the relevant field Unlicensed in: Drainage, Fire Protection, Gas fitting, Irrigation, mechanical, Roofing -Sanitary Water Supply

SECTION FIVE

Guidance on elements concerning immediate life-safety issues to ensure these items are inspected first.

OHS Practices at the site and hazards etc.

Scaffolding Makeshift working platforms, Guard Rails & Kick boards

Electrical Risk Exposed Live Electrical, Power leads & Power boards

Excavation Working in trenches over 1.5m Deep, site cut over 1.5m

Asbestos Debris or removal

Temporary Fencing Site entry is restricted or affecting public

Amenity and housekeeping at the site Rubbish control, materials storage and site toilets

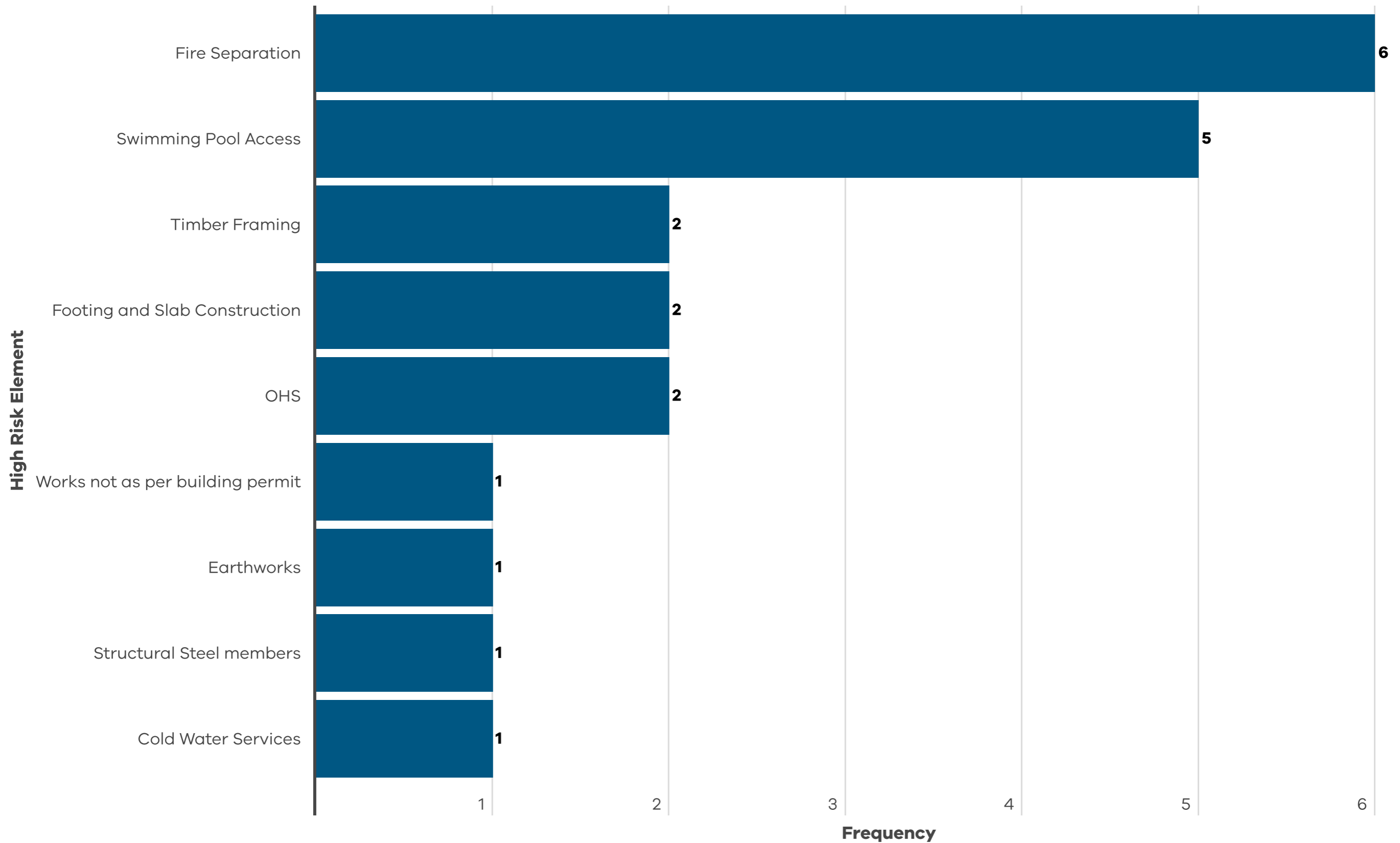
Fall risks Working over 2m in height (Opening in platforms/stair voids, Secured access ladders

Structure Stability Adequate temporary propping & bracing

COVIDSafe Requirements A separate checklist is used during COVID restrictions and covers adherence to mandatory COVIDsafe requirements; physical-distancing, mask wearing, worker limits, QR codes and evidence of a COVIDSafe plans.

IF THESE ITEMS PRESENT AN UNACCEPTABLE RISK, THE RELEVANT CO-REGULATORS ARE CONTACTED IMMEDIATELY BY THE BUILDING INSPECTOR.

APPENDIX 3: HIGH RISK INSPECTIONS - COMPOSITION OF HIGH RISK ELEMENTS 2022-23 Q3





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