

Home Improvements & New Dwellings Research

Statistics & Economics Program
2023



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Forest & Wood Products Australia

- From mid to late 2022 BIS Oxford Economics (BISOE) and Forest & Wood Products Australia (FWPA) held several discussions around the potential for BISOE to provide timber related research that FWPA would provide to its members, via a private members only, section of their website.
- Through these discussions it was determined, in the first instance, to focus on currently available research that BISOE had already undertaken via existing syndicated (multi-client) studies.
- The two most relevant studies were:
 - ❑ *Building Materials in New Dwellings, 2022*; and
 - ❑ *The Home Improvements Market in Australia, 2021*
- Both studies involved primary research, *Building Materials in New Dwellings*, via discussions with builders, designers & architects and *The Home Improvements Market in Australia*, via a detailed survey of 15,000 households (consumers).
- The detailed methodology of both projects is presented in the following pages.
- The scope of research provided from each project and the detailed methodology of both projects is presented in the following pages.
- A copy of all tables presented through the reports will also be provided in an excel file.
- As a final comment, BIS Oxford Economics is a leading provider of building material insights, having analysed the Australian market for over 40 years; our research reports meet the market information needs of a sector that lacks quality market data.
- Our understanding of the market and our continued dedication to ensuring our research is relevant and dynamic assists our clients position themselves to advantage.

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Scope of work:

- Relevant sections from each of the two projects are presented below, as per the proposal.

Building Materials in New Dwellings, 2022

Wall framing materials timber v steel:

- Published in late 2022 as part of the BISOE analysis of materials in new dwellings research.
- Table by state displaying timber & steel usage
- Drivers for timber framing
- Drivers for steel framing

The Home Improvements Market in Australia, 2021

Addition & extension projects:

- Published in late 2021 as part of BISOE major review of home improvement/renovation projects.
- Profile of home additions/extensions projects (incidence, ground v upper floor, mean \$)
- Flooring section of additions/extensions:
 - ❑ Base flooring material (slab on ground, fibre cement, particleboard, timber strip)
 - ❑ Main floor covering (carpet, floating engineered planks, solid timber, floating laminate, tiles, concrete)
 - ❑ Floor covering drivers
 - ❑ Key decision makers on floor coverings

Forest & Wood Products Australia

Scope of work:

- Relevant sections from each of the two projects are presented below, as per the proposal.

The Home Improvements Market in Australia, 2021

Decks & verandah projects:

- Published in late 2021 as part of BISOE major review of home improvement/renovation projects.
- Profile of deck/verandah projects (incidence, new v replacement deck, mean \$)
- Top of deck material (bricks, composite timber, pavers, timber, tiles)
- Deck substructure material (concrete slab, timber, sand/gravel, steel)

The Home Improvements Market in Australia, 2021

Fencing projects:

- Published in late 2021 as part of BISOE major review of home improvement/renovation projects.
- Profile of fencing projects (incidence, new v replacement deck, boundary/front/pool, mean \$)
- Fence material (front, boundary, pool)

Building Materials in New Dwellings, 2022

- BIS Oxford Economics is a leading provider of building material insights, having analysed the Australian market for over 40 years; our research reports meet the market information needs of a sector that lacks quality market data.
- Our understanding of the market and our continued dedication to ensuring our research is relevant and dynamic assists our clients position themselves to advantage.
- This report is part of a multi-volume study ***Building Materials in New Dwellings***. This current edition covers the following applications:
 - ✓ External cladding;
 - ✓ Internal wall & ceiling lining; &
 - ✓ Roofing
- Timing of these reports is largely dependent on client demand, although we attempt to run the reports every two years; unfortunately the COVID-19 pandemic impacted our ability to maintain that cycle – hence, this 2022 edition is our first since 2018.
- Going forward, our intent is to swing back into that two year cycle.
- The fieldwork for this current report was undertaken from mid August to mid September 2022; the time span for completing the 251 interviews was longer than in previous editions, due to the difficulty in organising interviews with builders, architects and designers – the pandemic and associated impact on materials/supply chains has created a very hectic environment, especially for builders, who are flat-out trying to finish projects for frustrated clients.
- Nevertheless, our long term fieldwork partners, Lighthouse Data Collection (an experienced field agency), did a fantastic job in completing the 251 interviews via telephone, using CATI (computer assisted telephone interviews).
- Once again, following from 2018, we included both architects and designers in our respondent mix (as suggested by clients), ensuring feedback from a wider mix of stakeholders across all states, except Tasmania and the Northern Territory.
- The 251 respondents completed the survey across detached, semi-detached and multi-unit segments of the survey – due to the length of the survey and associated time constraints, respondents were limited to one dwelling segment only; results were then weighted up to represent all new dwellings across targeted locations during the period.
- In additions, BIS Oxford Economics sources information from our own historical databases, online sources and the Australian Bureau of Statistics.
- The detailed profile of respondents is provided in the following page.

Building Materials in New Dwellings

➤ Respondent profile from our 2022 materials in new dwellings research:

Respondents, by profession, 2022

	Total	New South Wales			Victoria			Queensland			SA	WA
		Total	Metro	Regional	Total	Metro	Regional	Total	Metro	Regional	Total	Total
Builders												
Respondents	191	49	36	13	54	35	19	43	29	14	17	28
%	76	69	77	54	79	74	90	78	85	67	81	78
Architects												
Respondents	30	6	4	2	11	9	2	5	3	2	4	4
%	12	8	9	8	16	19	10	9	9	10	19	11
Designers												
Respondents	30	16	7	9	3	3	0	7	2	5	0	4
%	12	23	15	38	4	6	0	13	6	24	0	11
Total	251	71	47	24	68	47	21	55	34	21	21	36
%	100	100	100	100	100	100	100	100	100	100	100	100

Note: NSW metro includes ACT.

The Home Improvements Market in Australia, 2021

- This report is part of a major piece of research analysing the Australian home improvements landscape. The research covers a range of home improvement projects undertaken by householders over the past twelve months or so.
- BIS Oxford Economics has a long standing tradition of research into the home improvements market, pioneering research into the sector more than 30 years ago, at a level previously not reported; more recently we have undertaken major analysis of the sector in 2010 and 2016.
- The 2021 edition is the most comprehensive series of home improvements reports we have produced and includes numerous upgrades and additional angles of research designed to provide robust insights into each specific market.
- The projects covered in 2021 include:
 - ☐ Additions & Extensions
 - ☐ Decks & Verandahs
 - ☐ Relining Internals Walls & Ceilings
 - ☐ Kitchen Renovations
 - ☐ Fencing
 - ☐ Garages
 - ☐ Bathroom Renovations
 - ☐ Recladding & Rendering
 - ☐ Carports
 - ☐ Laundry Renovations
 - ☐ Re-Roofing
 - ☐ Windows Replacement
- The fieldwork for the 2021 edition was undertaken from late July to mid August 2021; the timing is around 18 months since the global COVID-19 pandemic was first reported in Australia.
- An unexpected outcome of the pandemic and its associated lockdowns and restrictions on movement and travel was a significant surge in retail spending, and the home improvements sector was no exception.
- With additional home time, reinforced by extended travel restrictions in place, home owners had plenty of time to research and discuss potential projects; it is likely many travel budgets were redirected into home improvements, culminating in many of the 'like-to-do' and 'when-time-allows' projects that had been lingering in the background to be tackled in earnest.
- Converting spare rooms into office space, gyms or hobby rooms, extensions and additions, decks and verandahs for entertaining, carports, kitchen, bathroom and laundry renovations are just a few of the many projects undertaken during this period.
- The results of our 2021 survey of 13,018 households supports this, with most analysed projects recording record levels of activity; this has the flow on effect of providing robust samples across the research, ensuring high levels of confidence.

The Home Improvements Market in Australia, 2021

- In total, 13,018 households were involved in the survey, which was conducted between Friday 20 July and Wednesday 18 August; geographically, the survey covered all states except Tasmania and the Northern Territory and interviews were conducted in both capital cities and regional areas across.
- The fieldwork and computer analysis were conducted by The Digital Edge on behalf of BIS Oxford Economics Pty Limited.
- The final sample of households is then weighted up to reflect all 9.2 million Australian households (note, NSW includes ACT); as at June 2021 BIS Oxford Economics household estimates are:
 - ❑ New South Wales: 4,463 sample to 3,124,250 households
 - ❑ Victoria: 3,652 sample to 2,469,100
 - ❑ Queensland: 2,615 sample to 1,906,800
 - ❑ South Australia: 1,096 sample to 702,000
 - ❑ Western Australia: 1,192 sample to 979,150
 - ❑ Total: 13,018 sample to 9,181,300



FVPA
Confidential

FRAMING - NEW DWELLINGS

1. Wall Framing – New Dwellings

Framing material

- Approximately what percentage of the dwellings you/your firm commenced in the past twelve months or so had STEEL versus TIMBER wall framing?

Total dwellings: Framing material, by location (%)

	2016	2018	2022											
	Total	Total	Total	New South Wales			Victoria			Queensland			SA	WA
				Total	Metro	Regional	Total	Metro	Regional	Total	Metro	Regional	Total	Total
Timber	95	87	90	90	89	92	92	93	92	84	86	81	93	92
Steel	5	13	10	10	11	8	8	7	8	16	14	19	7	8
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

House framing material, by dwelling type (%)

	Detached			Semi-detached			Multis 1-3 storeys		
	2016	2018	2022	2016	2018	2022	2016	2018	2022
Timber	95	91	91	97	88	88	80	73	82
Steel	5	9	9	3	12	12	20	27	18
Total	100	100	100	100	100	100	100	100	100

1. Wall Framing – New Dwellings

Timber frame drivers

➤ And what are the main drivers that determine whether timber wall framing is used ?

Total dwellings: Timber framing main drivers, by location (%)

	2016	2018	2022											
	Total	Total	Total	New South Wales			Victoria			Queensland			SA	WA
				Total	Metro	Region-al	Total	Metro	Region-al	Total	Metro	Region-al	Total	Total
Cost	40	60	49	43	43	44	62	65	54	8	2	17	67	80
I / builder prefers it	45	43	45	51	56	42	44	49	29	71	88	46	20	11
Easy to install	33	38	32	28	31	24	27	21	43	17	10	27	33	80
Installer prefers it	14	6	27	34	31	39	8	4	19	70	83	50	14	12
Availability	0	1	10	8	8	7	13	15	9	4	0	11	27	4
Tradespeople prefer it	20	7	10	9	9	9	14	14	13	12	8	18	5	6
Owner / client wants	8	6	5	8	1	19	3	0	13	7	2	15	0	0
Quality / durability	6	11	4	6	5	8	1	2	0	3	6	0	10	2
Strength	3	1	4	3	2	4	7	8	4	4	0	11	0	0
Compatible with cladding	10	2	3	1	0	4	3	3	0	1	0	2	15	
Architect nominates it	6	10	1	0	0	0	0	0	0	2	2	2	8	0
Developer nominates	0	6	1	1	1	0	1	0	4	0	0	0	0	0
Brand	0	0	1	2	3	0	0	0	0	0	0	1	0	2
Termite resistant	0	4	0	2	3	0	0	0	0	0	0	0	0	0

Note: Up to two responses permitted

1. Wall Framing – New Dwellings

Timber frame drivers

➤ And what are the main drivers that determine whether timber wall framing is used ?

Timber framing: Main drivers, by dwelling type (%)

	Detached		Semi-detached		Multis 1-3	
	2018	2022	2018	2022	2018	2022
Cost	65	51	45	47	63	26
I / builder prefers it	44	50	51	25	30	64
Easy to install	40	30	30	37	37	29
Installer prefers it	6	30	4	18	6	30
Availability	1	9	1	14	2	7
Tradespeople prefer it	8	8	5	21	7	8
Owner / client wants	5	5	10	2	4	6
Quality / durability	9	5	15	1	12	3
Compatible with cladding	2	3	0	2	2	0
Strength	2	2	0	11	2	7
Architect nominates it	8	1	12	0	17	2
Termite resistant	3	1	11	0	1	0
Brand	0	1	0	0	0	3
Developer nominates	3	0	15	0	7	6

Note: Up to two responses permitted

1. Wall Framing – New Dwellings

Steel frame drivers

➤ And what are the main drivers that determine whether steel wall framing is used ?

Steel framing: Main drivers, by dwelling type (%)

	Total			Detached		Semi-detached		Multi 1-3	
	2016	2018	2022	2018	2022	2018	2022	2018	2022
Availability	0	0	40	0	37	0	53	0	22
Cost	19	29	37	23	36	36	41	30	42
Easy to install	19	11	27	8	24	0	44	24	8
I/builder prefers it	20	34	25	38	17	32	48	31	35
Owner / client wants	28	12	20	12	28	19	0	7	6
Strength	7	18	11	26	15	7	0	17	6
Installer prefers it	0	0	11	0	13	0	0	0	23
Quality/durability	5	37	6	35	5	35	0	39	32
Compatible with cladding	8	6	5	2	7	6	0	12	0
Termite resistant	42	8	4	7	5	23	0	0	2
Architect nominates it	25	13	2	17	3	15	0	8	0
Tradespeople prefer it	0	0	2	0	2	0	2	0	0
Brand	0	0	2	0	3	0	0	0	0
Developer nominates	4	15	1	25	0	4	3	11	2

Note: Up to two responses permitted

1. Wall Framing – New Dwellings

Frame drivers - Summary

➤ And what are the main drivers that determine whether steel or timber wall framing is used ?

Main drivers, by frame material (%)

	Steel			Timber		
	2016	2018	2022	2016	2018	2022
Cost	19	29	37	40	60	49
I/builder prefers it	20	34	25	45	43	45
Easy to install	19	11	27	33	38	32
Installers prefer it	0	0	11	14	6	27
Availability	0	0	40	0	1	10
Tradespeople prefer it	0	0	2	20	7	10
Owner / client wants	28	12	20	8	6	5
Quality/durability	5	37	6	6	11	4
Strength	7	18	11	3	1	4
Compatible with cladding	8	6	5	10	2	3
Architect nominates it	25	13	2	6	10	1
Developer nominates	4	15	1	0	6	1
Brand	0	0	2	0	0	1
Termite resistant	42	8	4	0	4	0

Note: Up to two responses permitted



ADDITIONS & EXTENSIONS

2. Additions – Home Improvements

Incidence

- Over the past 12 months or so have you undertaken an upper storey addition or ground floor extension project?

Key Points...

- The ABS now reports specifically on the number of residential alteration and additions approvals, as collected through local councils; this data is available from July 2016 onwards.
- We have utilised this data, in conjunction with our survey feedback, specifically in relation to council approvals and confirmation of ground versus upper storey projects, to produce the 2021 estimates.
- We have adjusted up to account for Council non-reporting of projects by state and have disaggregated projects by ground floor and upper floor projects.

Number and incidence of total dwelling additions, by state, 2021 (June 2021)

	Total	New South Wales			Victoria			Queensland			SA	WA
		Total	Sydney Metro	Other NSW	Total	Melb Metro	Other VIC	Total	Brisbane Metro	Other QLD	Total	Total
Sample base	13,018	4,463	2,829	1,634	3,652	2,907	745	2,615	1,438	1,177	1,096	1,192
Total households												
Total households '000	9,181.3	3,124.3	1,862.0	1,262.3	2,469.1	1,848.9	620.3	1,906.8	911.8	995.0	702.0	979.2
Ground floor extension/addition...												
No. of projects '000	79.3	15.2	11.1	4.0	19.9	15.7	4.3	30.7	17.1	13.6	6.4	7.1
Incidence %	0.9	0.5	0.6	0.3	0.8	0.8	0.7	1.6	1.9	1.4	0.9	0.7
Upper storey addition/roof conversion...												
No. of projects '000	56.9	12.8	10.2	2.7	16.3	14.0	2.2	17.1	11.2	5.9	3.4	7.3
Incidence %	0.6	0.4	0.5	0.2	0.7	0.8	0.4	0.9	1.2	0.6	0.5	0.7
Total additions...												
No. of projects '000	136.2	28.0	21.3	6.7	36.2	29.7	6.5	47.8	28.3	19.5	9.8	14.4
Incidence %	1.5	0.9	1.1	0.5	1.5	1.6	1.0	2.5	3.1	2.0	1.4	1.5

2. Additions – Home Improvements

Incidence

➤ The following table provides a comparison of approvals data (with BISOE adjustment for Council non-reporting).

Key Points...

- This table has been provided to highlight the significant growth in home additions projects in 2021, relative to 2017 through 2020.
- In the period 2017 to 2020, approvals declined across New South Wales, Victoria and Western Australia and were flat in South Australia; the exception was Queensland, where additions projects shot up 40% from 25,500 in 2017 to 35,600 in 2020.
- From there, additions projects nationally have exploded by 28% to 136,200 projects, including a 34% in Queensland (47,800 projects).
- Multiple factors have contributed to this unprecedented increase in additions projects in 2021 including:

Additions projects, comparison ('000)

	Total	NSW	VIC	QLD	SA	WA
2017 to 2020 (end June)...						
2017	100.8	25.0	30.3	25.5	7.8	12.2
2018	103.1	25.0	31.1	27.2	7.8	12.0
2019	104.8	23.5	30.6	31.5	7.5	11.6
2020	106.7	21.9	29.9	35.6	7.8	11.6
Total 2017 - 2020	415.4	95.4	121.9	119.8	30.9	47.4
Mean 2017 - 2020	103.9	23.9	30.5	30.0	7.7	11.9
2021 (end June)						
2021	136.2	28.0	36.2	47.8	9.8	14.4
Change 2020 to 2021 (%)	28	28	21	34	26	24
Change mean 2017 - 2020 to 2021 (%)	31	17	19	59	27	21

- ❑ the HomeBuilder scheme (25,000 renovation related applications) for project between \$150k and \$750k.
- ❑ Surging houses values have provided home owners with ample capital to fund projects, that will further increase home values.
- ❑ Investing in current properties compared to selling and upgrading, can make considerable economic sense.
- ❑ COVID-19 restrictions have limited travel opportunities (and spend) and increased focus on the home front/space/arrangements with many fast tracking longer term plans.
- ❑ The sale and turnover of properties in the recent hot market, includes purchasers with plans for immediate addition-related renovations.

2. Additions – Home Improvements

Project spend

➤ The following table provides a comparison of approvals data (with BISOE adjustment for Council non-reporting).

Key Points...

- A previously mentioned the ABS now reports specifically on the number of residential alteration and additions approvals; a component of the data is total value of the additions projects - we have utilised the total value and total approval numbers to produce a mean value per project.
- We considered an adjustment factor to take into account non-reported projects, on the assumption they were likely of lower value (hence a slight reduction in mean project cost); however balancing that was anecdotal discussions suggesting the initial council reported value of addition approvals is likely surpassed as the project progresses, via a number of possible reasons, such as unexpected issues during the build phase that require more expensive design solutions and/or the inclusion of additional finishes/fixtures that were not considered in the planning phase.
- Hence we decided against any adjustment.
- All states recorded an increase in mean spend from 2017 to 2018, followed by relatively stability through to 2020, with the exception of New South Wales, where mean spend increased year to year recording \$140,784 in 2020 (well above any other state).
- In 2021, all states joined the spend increase, recording \$91,646 nationally and a high \$149,198 in New South Wales, followed by \$106,240 in Victoria.

Additions projects, mean spend comparison (\$)

	Total	NSW	VIC	QLD	SA	WA
2017 to 2020 (end June)...						
2017	85,443	121,142	96,422	63,807	55,838	50,651
2018	90,878	130,753	102,041	67,614	61,069	52,728
2019	89,275	133,750	103,270	63,357	61,594	51,841
2020	88,083	140,784	103,465	61,453	57,235	52,199
Mean 2017 - 2020	88,420	131,607	101,300	64,058	58,934	51,855
2021 (end June)						
2021	91,646	149,198	106,240	65,025	65,681	53,582
Change 2017 to 2021	7	23	10	2	18	6
Change mean 2017 - 2020 to 2021 (%)	4	13	5	2	11	3

Multiple factors have contributed to this increase in project spend for house additions and extensions, including:

- ❑ Increased cost of supplies – timber has been in short supply since the 2019 bush fires, combined with the record detached dwelling builds (see below) and global demand for imports
- ❑ Scarcity of builders & tradesmen – we have simultaneously recorded the highest ever number of new detached dwelling builds (133,600 to June 2021) squeezing availability which increases the cost of available builders/tradesmen
- ❑ The survey suggests an increase in number of rooms per addition; this translates to additional materials and costs
- ❑ Completion times have also increased due to the above mentioned materials and labour shortages, which can also increase costs

2. Additions – Home Improvements

Floor area

- And could you estimate the floor area of your addition/extension project, in square metres?
- NOTE: across all remaining tables data relates to survey data, as opposed to ABS additions data.

Mean size of dwelling additions projects, by state & project spend & segment 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	693	273	207	134	32	47	187	129	77	94	60	62	84	369	324
Up to 20m ²	12	9	14	15	16	3	33	6	9	2	5	1	3	16	6
30m ²	11	13	11	8	13	6	15	16	3	9	8	7	7	12	9
40m ²	9	7	12	9	6	12	14	16	12	3	6	2	3	10	8
50m ²	9	6	10	8	13	15	9	16	10	5	4	8	6	9	9
60m ²	11	13	6	12	1	17	7	13	19	13	4	16	7	10	12
70m ²	8	6	6	13	6	5	1	7	9	9	17	14	8	6	10
80m ²	8	11	6	6	6	5	6	6	11	15	6	6	5	6	10
90m ²	7	10	7	5	4	6	2	4	9	10	13	17	9	9	5
100m ²	7	7	6	4	19	11	3	6	7	18	7	6	3	5	9
100 - 119.9m ²	5	5	7	5	4	4	2	3	3	4	16	7	10	6	5
120 - 139.9m ²	6	5	5	7	0	8	4	3	1	6	6	6	14	4	7
140m ² or more	7	8	10	8	12	8	4	4	7	6	8	10	25	7	10
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean 2021 m ²	68.5	69.0	67.1	68.3	66.8	72.5	48.7	58.9	66.5	78.0	79.6	80.4	97.5	64.6	73.2
Mean 2016 m ²	67.2	70.5	63.3	67.1	66.4	66.3	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	62.2	74.2

2. Additions – Home Improvements

Rooms incorporated in project

➤ Which of the following types of rooms were incorporated in the project?

Type of rooms added in additions projects, by state, project spend & segment (%)

	2016	2021														
	Total	Total	NSW	VIC	QLD	SA	WA	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	578	693	273	207	134	32	47	187	129	77	94	60	62	84	369	324
Bedroom	65	75	83	73	67	68	76	61	73	74	78	93	89	83	69	83
Lounge room	39	50	49	52	50	40	50	39	44	46	48	57	55	72	51	48
Bathroom	40	45	52	46	36	23	53	33	44	43	30	58	58	70	40	52
Kitchen	36	41	42	43	42	21	42	34	38	35	34	51	43	65	46	36
Dining room	31	38	38	42	38	24	36	26	30	30	33	55	43	69	43	33
Separate toilet	28	27	30	29	24	7	30	17	18	20	24	28	35	59	23	32
Laundry	27	26	27	29	26	7	26	19	21	21	16	38	35	53	25	26
En suite bathroom	n.a.	26	25	25	23	23	42	16	20	28	14	38	36	51	23	30
Study/office	20	25	27	26	24	7	24	18	22	28	19	19	31	42	19	31
Verandah	21	21	23	21	21	9	15	16	13	22	14	13	22	47	20	21
Family/sunroom	22	20	21	20	21	14	21	16	15	22	13	20	22	41	18	23
Media/cinema room	13	15	15	16	16	6	17	9	13	14	9	18	18	34	13	18
Gym room	6	12	13	12	14	6	10	6	9	11	13	15	10	29	12	13
Other	9	5	7	7	3	0	2	6	10	4	0	7	7	3	6	5

n.a.: not available

Note: In 2016 en suite bathrooms were not collected separately to bathrooms.

2. Additions – Home Improvements

Lag & completion time

➤ Could you provide an estimate of the lag time between deciding to undertake the bathroom project and the actual commencement of the work?

Additions project lag time, by state & project spend & segment (%)

	2016	2021														
	Total	Total	NSW	VIC	QLD	SA	WA	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	578	693	273	207	134	32	47	187	129	77	94	60	62	84	369	324
Up to 1 month	9	26	32	18	28	20	19	40	20	24	32	18	19	11	26	25
1-3 months planning	38	29	29	27	35	34	23	32	32	28	31	29	35	17	31	28
4-6 months planning	30	25	25	28	18	31	28	21	25	26	23	33	20	31	24	26
7-12 months planning	11	13	10	15	13	6	18	4	12	18	12	17	23	16	11	14
Over 12 months planning	12	7	5	12	6	9	12	4	10	4	3	3	3	24	8	8
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

➤ And once the project commenced how long did it take to complete? This refers to elapsed time.

Project completion time, by state, project spend & segment (%)

	Total	NSW	VIC	QLD	SA	WA	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	693	273	207	134	32	47	187	129	77	94	60	62	84	369	324
Up to 3 months	16	18	14	17	21	13	34	21	15	5	7	4	4	16	17
3 to 4 months	20	16	20	27	13	19	29	27	15	20	12	12	8	23	17
5 to 6 months	17	19	15	18	20	11	13	15	32	12	25	10	19	18	15
7 to 9 months	16	16	15	17	9	20	8	18	15	27	15	24	17	17	16
10 to 12 months	12	14	12	6	17	15	10	5	12	19	21	17	10	12	12
13 months to 18 months	11	11	15	8	9	9	3	8	6	12	15	24	24	9	14
More than 18 months	7	6	8	5	11	13	4	6	6	5	4	8	19	5	10
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean months	7.7	7.5	8.4	6.8	8.1	8.6	5.2	6.6	7.1	8.4	8.5	10.1	11.6	7.2	8.4

2. Additions – Home Improvements

Project drivers – Top driver

➤ Why did you choose to undertake an addition/extension project?

Leading driver for additions project, by state & household structure (%)

	2016	2021												
	Total	Total	NSW	VIC	QLD	SA	WA	No child	Child pre-school	Child aged 5-17	Child aged 17+	Empty nesters	Shared	Single
(Sample base)	578	693	273	207	134	32	47	112	129	247	81	29	51	44
Modernise/upgrade the dwelling	13	24	20	23	27	28	38	31	25	23	17	12	19	40
Wanted additional space for entertaining/general living	20	24	22	27	24	27	17	25	17	25	28	33	19	21
Had a/more children needed space	9	14	18	11	13	15	12	7	17	17	24	6	6	2
Wanted kids to have own room/space	11	8	7	10	6	8	6	5	8	11	4	11	3	0
Decided to upgrade existing rather than sell and move	11	7	10	5	6	0	7	10	7	7	4	6	7	6
Recently purchased the dwelling and it was part of my/our plan	n.a.	6	6	8	5	7	5	10	8	4	5	4	5	10
Needed additional room for older/ aged relatives	7	5	5	3	8	8	1	4	5	4	9	6	5	2
Increase value of home	11	5	5	5	3	3	6	3	5	4	5	8	9	1
Inspired by TV Program	7	2	2	3	1	1	5	2	3	1	1	6	5	7
Disliked existing house plan/ structure	9	2	2	1	2	3	4	1	2	1	1	0	4	4
Others	2	3	3	4	5	0	0	2	3	3	2	8	18	7
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

n.a. not available

2. Additions – Home Improvements

Project drivers – 2nd driver

➤ Why did you choose to undertake an addition/extension project?

Second leading driver for additions project, by state & household structure (%)

	2016	2021												
	Total	Total	NSW	VIC	QLD	SA	WA	No child	Child pre-school	Child aged 5-17	Child aged 17+	Empty nesters	Shared	Single
(Sample base)	578	693	273	207	134	32	47	112	129	247	81	29	51	44
Recently purchased the dwelling and it was part of my/our plan	n.a.	15	15	8	17	23	24	20	11	16	14	11	11	9
Increase value of home	17	15	20	12	15	4	6	15	19	14	11	15	8	15
Wanted kids to have own room/space	9	13	11	15	16	14	11	6	17	15	15	5	8	15
Wanted additional space for entertaining/general living	12	12	12	12	11	6	18	12	12	12	13	9	10	12
Had a/more children needed space	8	11	13	14	4	16	4	9	11	10	18	10	6	8
Modernise/upgrade the dwelling	15	9	9	10	9	4	10	14	9	10	6	6	6	6
Decided to upgrade existing rather than sell and move	16	9	5	11	8	16	16	2	9	9	12	15	16	7
Needed additional room for older/ aged relatives	8	6	6	4	11	6	5	10	9	4	3	7	9	8
Inspired by another addition I saw	0	4	4	6	1	4	0	2	1	4	4	3	9	7
Inspired by TV Program	5	3	4	2	3	4	2	4	3	1	2	10	4	10
Disliked existing house plan/ structure	9	3	2	4	3	4	4	2	0	3	3	1	13	2
Others	1	1	0	1	1	0	0	4	0	0	0	8	0	0
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

2. Additions – Home Improvements

Base floor materials

➤ And what was the major base flooring material in your addition/extension project; this is the material below the floor coverings

Total flooring materials in additions, by state, 2021

		Total	NSW	VIC	QLD	SA	WA
Sample base		693	273	207	134	32	47
Particleboard/structaflor	'000m ²	2,591.5	577.1	679.8	921.9	154.3	258.4
	%	40	41	40	42	34	37
Concrete - slab on ground	'000m ²	2,323.7	473.9	595.9	846.8	199.1	208.0
	%	36	34	35	39	44	30
Timber strip flooring	'000m ²	1,128.5	255.9	320.3	316.1	68.3	167.9
	%	18	18	19	14	15	24
Fibre cement	'000m ²	253.7	65.8	76.5	63.9	14.7	32.8
	%	4	5	5	3	3	5
Concrete - suspended slab	'000m ²	132.8	19.7	31.8	45.0	13.2	23.1
	%	2	1	2	2	3	3
Total	'000m ²	6,430.1	1,392.4	1,704.3	2,193.5	449.7	690.2
	%	100	100	100	100	100	100

2. Additions – Home Improvements

Floor covering

➤ And what was the MAIN floor covering in the addition/extension? If more than one materials, indicate the split

Main floor covering material, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	693	273	207	134	32	47	187	129	77	94	60	62	84	369	324
Natural solid timber floorboards	26	27	27	22	24	29	24	28	17	28	22	24	34	22	31
Carpet	20	20	23	13	27	20	23	22	25	14	16	19	13	19	21
Floating engineered timber planks	13	11	12	14	20	19	12	15	17	13	12	13	12	14	12
Ceramic tiles	10	10	5	15	9	9	12	7	6	8	14	12	8	12	7
Floating laminate planks	5	5	6	5	4	4	6	4	9	4	2	8	5	5	5
Floating vinyl planks	5	4	4	6	3	6	7	2	11	6	3	2	2	5	4
Marble tiles	4	5	5	3	0	1	1	2	6	5	4	7	6	5	3
Concrete/polished concrete	4	3	4	8	2	1	7	6	1	3	3	0	2	5	3
Terracotta tiles	3	3	3	3	3	2	1	2	2	5	5	5	4	3	3
Granite tiles	3	3	2	4	2	3	1	2	1	4	8	2	5	3	3
Terrazzo tiles	2	3	2	1	0	3	1	2	0	5	4	2	2	2	2
Vinyl / lino sheets or tiles	2	3	1	1	3	4	1	5	2	1	1	1	1	2	2
Slate tiles	1	2	1	2	1	0	1	0	0	3	1	3	2	1	2
Other tiles	1	2	1	0	1	0	1	2	0	1	2	1	2	1	1
Other	2	0	4	2	0	0	2	2	3	0	3	0	1	1	2
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

2. Additions – Home Improvements

Floor covering

- And what was the MAIN floor covering in the addition/extension? If more than one materials, indicate the split
- Note: the table below is provided as a guide only and is based on the use of 'carpet area' as being defined as the area between the inner walls that could theoretically be covered by carpet (or other flooring materials), excluding the area of inner walls, stairs and balconies; convention suggests the carpet area is 70% of the floor area.

Main additions floor covering material, by state, 2021 (carpet area estimate)

		Total	NSW	VIC	QLD	SA	WA
Sample base		693	273	207	134	32	47
Natural solid timber floorboards	'000m ²	1,161.5	267.9	328.1	345.5	77.1	142.9
	%	26	27	27	22	24	30
Carpet	'000m ²	880.4	199.8	280.2	215.2	86.5	98.8
	%	20	21	24	14	28	21
Floating engineered timber planks	'000m ²	600.4	103.3	137.8	207.8	61.7	89.8
	%	13	11	12	14	20	19
Ceramic tiles	'000m ²	439.6	93.2	54.7	223.3	26.9	41.4
	%	10	10	5	15	9	9
Floating laminate planks	'000m ²	235.1	50.2	77.4	77.3	12.8	17.4
	%	5	5	7	5	4	4
Floating vinyl planks	'000m ²	220.2	40.5	48.3	94.3	10.0	27.0
	%	5	4	4	6	3	6
Concrete/polished concrete	'000m ²	194.4	25.0	43.6	115.3	7.8	2.8
	%	4	3	4	8	3	1
Marble tiles	'000m ²	169.3	45.2	64.8	52.6	0.0	6.7
	%	4	5	5	3	0	1

		Total	NSW	VIC	QLD	SA	WA
Sample base		693	273	207	134	32	47
Terracotta tiles	'000m ²	133.8	30.6	32.5	48.5	10.9	11.2
	%	3	3	3	3	4	2
Granite tiles	'000m ²	123.3	24.5	20.2	58.2	7.2	13.2
	%	3	3	2	4	2	3
Terrazzo tiles	'000m ²	85.6	26.2	26.6	20.3	0.0	12.5
	%	2	3	2	1	0	3
Vinyl / lino sheets or tiles	'000m ²	78.6	28.2	13.1	7.4	10.7	19.2
	%	2	3	1	1	3	4
Slate tiles	'000m ²	59.2	14.9	11.9	30.6	1.7	0.2
	%	1	2	1	2	1	0
Other tiles	'000m ²	50.8	25.0	17.7	6.5	1.6	0.0
	%	1	3	2	0	1	0
Other	'000m ²	68.9	0.0	36.1	32.8	0.0	0.0
	%	2	0	3	2	0	0
Total		100	100	100	100	100	100
Carpet area ('000 m ²)		4,501.1	974.7	1,193.0	1,535.5	314.8	483.1
Total floor area ('000 m ²)		6,430.1	1,392.4	1,704.3	2,193.5	449.7	690.2

2. Additions – Home Improvements

Material drivers – Top driver

➤ What were the key factors in deciding to use your chosen floor covering?

Key driver for chosen flooring material, by state & material, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Carpet	Natural solid timber	Floating eng. timber	Floating laminate	Floating vinyl	Ceramic tiles	Terra-cotta tiles	Marble tiles	Terrazzo tiles	Granite tiles
Sample base	693	273	207	134	32	47	159	191	100	34	30	58	16	28	11	11
Appearance/aesthetics	23	22	22	24	23	23	28	26	26	23	16	18	0	4	17	10
Low maintenance	13	10	11	16	34	17	12	13	10	11	12	14	27	3	22	0
Ease of installation	13	16	9	13	10	11	15	11	11	17	14	28	22	4	0	0
Colour choice	12	11	13	11	8	15	11	12	13	8	19	15	23	0	18	10
Price	11	9	12	11	17	9	5	11	9	20	17	10	8	16	10	10
Matched other house flooring	7	8	6	8	0	4	7	8	9	1	3	1	0	13	0	10
Durability of material	5	6	4	5	0	5	2	3	5	0	8	6	0	12	10	13
Recomm by friends/family	5	3	7	5	0	5	7	3	6	6	0	1	8	6	0	4
Reputation of supplier	3	5	4	0	0	1	2	5	1	0	8	0	9	7	10	19
Recomm by builder/tradie	2	1	3	2	3	3	2	0	2	9	3	1	0	16	0	0
Recomm by flooring specialist	2	2	3	3	0	0	3	1	3	0	0	2	0	4	0	16
Availability	2	2	1	1	5	4	3	1	1	3	0	0	2	7	0	0
Warranty	2	3	1	1	1	0	2	3	0	2	0	0	0	0	0	7
Other	1	2	3	0	0	2	0	3	4	0	0	4	1	8	13	1
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Note: flooring material is presented as a guide only; where 2 or more materials were used they were not asked separately

2. Additions – Home Improvements

Material drivers – Top driver

➤ What were the key factors in deciding to use your chosen floor covering?

Key driver for chosen flooring material, by project spend & segment, 2021 (%)

	Total	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	693	187	129	77	94	60	62	84	369	324
Appearance/aesthetics	23	24	22	14	17	33	32	19	22	23
Low maintenance	13	17	13	16	10	6	13	14	15	12
Ease of installation	13	11	14	7	17	15	14	10	11	15
Colour choice	12	10	7	13	15	17	10	16	12	12
Price	11	13	14	8	12	11	3	7	12	9
Matched other house flooring	7	3	4	10	8	4	8	13	6	8
Durability of material	5	5	8	4	2	5	4	3	6	3
Recomm by friends/family	5	5	6	9	5	2	2	2	4	5
Reputation of supplier	3	1	2	4	1	3	3	9	3	3
Recomm by builder/tradie	2	2	2	5	3	0	4	1	2	3
Recomm by flooring specialist	2	3	2	1	3	3	0	0	3	1
Availability	2	3	2	2	1	0	3	0	2	2
Warranty	2	1	2	3	2	0	1	4	1	2
Other	1	1	1	3	3	0	2	2	1	2
Total	100	100	100	100	100	100	100	100	100	100

2. Additions – Home Improvements

Material drivers – 2nd driver

➤ What were the key factors in deciding to use your chosen floor covering?

2nd key driver for chosen flooring material, by state & material, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Carpet	Natural solid timber	Floating eng. timber	Floating laminate	Floating vinyl	Ceramic tiles	Terra-cotta tiles	Marble tiles	Terrazzo tiles	Granite tiles
Sample base	693	273	207	134	32	47	159	191	100	34	30	58	16	28	11	11
Price	16	13	17	24	12	12	18	12	17	29	30	24	25	8	8	0
Low maintenance	13	14	13	11	4	18	10	13	7	18	0	18	11	15	10	10
Ease of installation	9	9	10	9	18	7	10	10	11	7	10	8	7	16	7	0
Durability of material	9	10	8	9	8	8	9	9	4	7	14	12	0	16	5	0
Matched other house flooring	8	4	9	8	16	12	10	9	7	0	4	8	7	4	20	0
Recomm by friends/family	8	9	8	4	9	11	4	10	15	3	6	7	7	0	0	28
Appearance/aesthetics	6	7	10	2	3	2	7	6	3	6	4	1	6	13	22	0
Reputation of supplier	6	7	4	8	3	1	4	6	7	0	10	8	0	4	10	16
Colour choice	5	7	3	4	11	8	7	4	5	7	0	5	5	6	10	0
Availability	4	5	2	7	3	5	2	7	4	3	7	5	19	5	9	0
Environment friendly	4	5	3	5	4	5	4	4	8	1	6	0	0	5	0	20
Recomm by builder/tradien	4	5	5	5	6	0	4	4	2	7	3	0	8	6	0	7
Recomm by flooring specialist	4	4	4	3	3	10	6	2	7	12	6	2	6	3	0	19
Other	3	2	4	1	0	1	5	4	3	0	0	2	0	0	0	0
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Note: flooring material is presented as a guide only; where 2 or more materials were used they were not asked separately

2. Additions – Home Improvements

Material drivers – 2nd driver

➤ What were the key factors in deciding to use your chosen floor covering?

2nd key driver for chosen flooring material, by project spend & segment, 2021 (%)

	Total	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	693	187	129	77	94	60	62	84	369	324
Price	16	18	14	21	16	15	15	14	17	15
Low maintenance	13	13	12	14	15	16	16	7	13	13
Ease of installation	9	10	13	5	11	9	12	5	9	10
Durability of material	9	12	7	7	11	6	7	8	10	8
Matched other house flooring	8	7	7	6	3	11	11	10	9	6
Recomm by friends/family	8	4	10	9	8	10	1	12	8	7
Appearance/aesthetics	6	5	3	7	4	5	5	13	8	4
Reputation of supplier	6	3	4	5	6	13	9	7	6	5
Colour choice	5	5	7	2	5	5	7	5	3	8
Availability	4	4	3	5	8	3	4	3	5	4
Environment friendly	4	4	5	3	5	4	6	4	4	5
Recomm by builder/tradie	4	6	9	6	3	0	0	2	3	6
Recomm by flooring specialist	4	6	3	7	3	1	3	6	4	5
Other	3	2	2	3	2	2	4	4	1	4
Total	100	100	100	100	100	100	100	100	100	100

2. Additions – Home Improvements

Materials decision-maker

➤ Regarding the specific materials chosen for your main floor covering who was most responsible for the final choice?

Main floor covering material choice decision-maker, by state & floor cover, 2021

	Total	NSW	VIC	QLD	SA	WA	Carpet	Natural solid timber	Floating eng. timber	Floating laminate	Floating vinyl	Ceramic tiles	Terra-cotta tiles	Marble tiles	Terrazzo tiles	Granite tiles
Sample base	693	273	207	134	32	47	159	191	100	34	30	58	16	28	11	11
Me/householder	46	49	40	53	38	36	51	44	35	69	36	54	21	22	17	36
Builder/tradesman	25	24	29	25	19	24	23	31	30	6	25	22	36	33	17	25
Flooring supplier	16	16	14	12	30	21	14	13	16	18	13	14	27	29	37	22
Architect/designer	10	8	12	7	14	18	8	10	12	2	14	9	13	14	20	17
Family/friends	3	3	5	3	0	1	2	2	7	4	12	2	2	1	10	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Note: flooring material is presented as a guide only; where 2 or more materials were used they were not asked separately

Main floor covering material choice decision-maker, by project spend & segment, 2021

	Total	Up to \$30k	\$31k - \$50k	\$51k - \$70k	\$71k - \$100k	\$101k - \$150k	\$151k - \$200k	Over \$200k	Ground floor	Upper floor
Sample base	693	187	129	77	94	60	62	84	369	324
Me/householder	46	55	42	39	38	37	52	46	50	41
Builder/tradesman	25	19	26	26	30	34	30	24	23	29
Flooring supplier	16	17	18	14	17	15	6	18	16	16
Architect/designer	10	6	10	16	12	11	10	10	9	11
Family/friends	3	3	4	5	3	3	3	3	3	3
Other	0	0	0	0	0	0	0	0	0	0
Total	100	100	100	100	100	100	100	100	100	100



DECKS & VERANDAHS

3. Decks & Verandahs – Home Improvements

Incidence

- Over the past 12 months or so have you undertaken a deck/verandah project, including both replacement of an existing deck/verandah and a brand new deck/verandah?

Number and incidence of deck/verandah projects, by state, 2021

	Total	New South Wales			Victoria			Queensland			SA	WA
		Total	Sydney	Other NSW	Total	Melbourne	Other VIC	Total	Brisbane	Other QLD	Total	Total
Sample base	13,018	4,463	2,829	1,634	3,652	2,907	745	2,615	1,438	1,177	1,096	1,192
Total households '000	9,181.3	3,124.3	1,862.0	1,262.3	2,469.1	1,848.9	620.3	1,906.8	911.8	995.0	702.0	979.2
Household deck/verandah projects '000	461.4	152.6	85.1	67.5	131.3	98.9	32.3	99.1	48.3	50.8	30.3	48.2
Incidence %	5.0	4.9	4.6	5.3	5.3	5.4	5.2	5.2	5.3	5.1	4.3	4.9
New decks/verandahs...												
'000	239.8	74.9	45.3	29.5	72.4	58.9	13.5	47.5	23.5	24.0	14.6	30.5
%	52	49	53	44	55	60	42	48	49	47	48	63
Replacement decks/verandahs...												
'000	221.6	77.7	39.8	37.9	58.9	40.0	18.9	51.6	24.8	26.7	15.7	17.7
%	48	51	47	56	45	40	58	52	51	53	52	37
Total	%	100	100	100	100	100	100	100	100	100	100	100

3. Decks & Verandahs – Home Improvements

Incidence - Historical

- Over the past 12 months or so have you undertaken a deck/verandah project, including both replacement of an existing deck/verandah and a brand new deck/verandah?

Number and incidence of deck/verandah projects, 2010 to 2021

		Total	New South Wales			Total	Victoria		Queensland			SA	WA
			Total	Sydney	Other NSW		Melbourne	Other VIC	Total	Brisbane	Other QLD	Total	Total
2021...													
Total households	'000	9,181.3	3,124.3	1,862.0	1,262.3	2,469.1	1,848.9	620.3	1,906.8	911.8	995.0	702.0	979.2
Household deck/ verandah projects	'000	461.4	152.6	85.1	67.5	131.3	98.9	32.3	99.1	48.3	50.8	30.3	48.2
Incidence	%	5.0	4.9	4.6	5.3	5.3	5.4	5.2	5.2	5.3	5.1	4.3	4.9
2016...													
Total households	'000	8,542.7	2,890.5	1,705.7	1,184.9	2,254.5	1,680.2	574.3	1,764.0	837.5	926.5	682.2	951.6
Household deck/ verandah projects	'000	389.7	140.6	75.3	65.3	107.2	78.8	28.4	72.3	32.3	39.9	27.6	42.1
Incidence	%	4.6	4.9	4.4	5.5	4.8	4.7	5.0	4.1	3.9	4.3	4.0	4.4
2010...													
Total households		7,945.0	2,746.5	1,609.5	1,137.0	2,051.1	1,484.3	566.8	1,640.8	721.9	918.9	659.2	847.8
Household deck/ verandah projects	'000	403.9	136.9	71.9	65.0	119.2	84.4	34.8	74.9	30.6	44.3	26.1	46.7
Incidence	%	5.1	5.0	4.5	5.7	5.8	5.7	6.1	4.6	4.2	4.8	4.0	5.5

3. Decks & Verandahs – Home Improvements

Deck/verandah segment

➤ And did you replace an existing deck/verandah or build a new deck/verandah?

Deck/verandah project segments, by state and project spend, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k - \$9.9k	\$10.0k - \$14.9k	\$15.0k or more
Sample base	706	236	224	145	55	46	87	117	112	75	78	107	53	77
New project	51	49	55	48	48	63	27	51	44	68	67	44	64	60
Replacement project	49	51	45	52	52	37	73	49	56	32	33	56	36	40
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Deck/verandah project segment, 2010 - 2021 (%)

	Total	NSW	VIC	QLD	SA	WA
2021...						
Sample base	706	236	224	145	55	46
New project	51	49	55	48	48	63
Replacement project	49	51	45	52	52	37
Total	100	100	100	100	100	100
2016...						
Sample base	707	231	239	128	44	65
New project	51	48	57	41	56	58
Replacement project	49	52	43	59	44	42
Total	100	100	100	100	100	100
2010...						
Sample base	506	169	152	94	34	57
New project	62	55	62	64	63	75
Replacement project	38	45	38	36	37	25
Total	100	100	100	100	100	100

3. Decks & Verandahs – Home Improvements

Floor area

- And could you estimate the floor area of your newly installed deck/verandah, in square metres?
- Note: in 2021 we improved this question by providing several images covering a range of decks with accompanying m² sizing; the decline in mean deck size in 2021 is likely associated with the provision of the images and more accurate reporting.

Floor area of decks/verandahs, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k - \$9.9k	\$10.0k - \$14.9k	\$15.0k or more	New	Replacement
Sample base	706	236	224	145	55	46	87	117	112	75	78	107	53	77	384	322
Less than 5m ²	9	8	9	7	8	15	21	16	8	12	10	0	2	0	8	9
5 - 9m ²	19	15	24	19	13	20	27	21	26	24	24	12	5	9	18	20
10 - 15m ²	24	28	20	22	20	22	25	30	27	29	17	18	27	15	21	26
16 - 20m ²	14	14	11	17	11	16	5	11	17	12	14	19	18	12	15	12
21 - 30m ²	21	23	21	17	24	17	17	13	18	10	21	34	28	26	24	18
31 - 40m ²	5	4	4	7	11	7	5	5	1	7	5	3	3	14	5	6
41 - 50m ²	5	4	6	3	9	1	0	4	3	2	8	8	10	4	5	5
51m ² and over	4	3	5	6	3	2	0	0	0	4	1	5	7	20	4	5
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean m ² 2021	19.6	19.0	19.9	20.4	22.2	16.8	14.0	15.4	15.8	17.1	19.5	24.0	23.5	30.4	19.8	19.4
Mean m ² 2016	23.7	23.9	23.7	21.7	20.7	28.0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Mean m ² 2010	21.2	19.5	17.5	24.8	32.5	23.1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

n.a.: not available

3. Decks & Verandahs – Home Improvements

Project spend

➤ Could you please provide an approximate total spend of your deck/verandah project (including all labour spends, materials and fittings)?

Mean spend on deck/verandah projects, by state, segment & who undertook project, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	New	Replace -ment	DIY/ myself	DIY/ tradie	Tradie/ builder	Combo
Sample base	706	236	224	145	55	46	384	322	238	94	284	90
Less than \$1,000	11	14	10	12	12	6	6	17	25	10	2	7
\$1,000 to \$1,999	17	11	16	20	22	29	16	17	19	25	11	21
\$2,000 to \$2,999	16	15	15	13	18	25	13	18	22	13	13	8
\$3,000 to \$3,999	10	11	10	9	7	17	14	7	9	11	10	16
\$4,000 to \$5,999	11	9	12	14	8	6	14	7	9	18	11	8
\$6,000 to \$9,999	16	20	15	13	10	11	13	18	8	15	20	20
\$10,000 to \$14,999	8	10	11	4	5	4	10	6	5	4	12	10
\$15,000 and over	11	10	10	15	18	2	13	9	3	3	20	11
Total	100	100	100	100	100	100	100	100	100	100	100	100
Mean spend \$	5,613	5,970	5,902	5,592	5,756	3,652	6,233	5,095	3,483	4,236	7,811	6,066

3. Decks & Verandahs – Home Improvements

Project spend

- Could you please provide an approximate total spend of your deck/verandah project (including all labour spends, materials and fittings)?

Mean spend & value estimates on deck/verandah projects

2021...						
Mean spend \$	5,613	5,970	5,902	5,592	5,756	3,652
Projects '000	461.39	152.56	131.25	99.071	30.319	48.191
Estimated value \$m	2,589.9	910.7	774.6	554.0	174.5	176.0
2016...						
Mean spend \$	4,440	4,866	3,714	4,984	4,157	4,120
Projects '000	389.8	140.6	107.2	72.3	27.6	42.1
Estimated value \$m	1,730.8	684.1	398.2	360.3	114.7	173.4
2010...						
Mean spend \$	3,872	4,219	2,745	5,603	4,524	2,592
Projects	403.8	136.9	119.2	74.9	26.1	46.7
Estimated value \$m	1,563.6	577.6	327.2	419.7	118.1	121.0

3. Decks & Verandahs – Home Improvements

Lag & completion time

➤ Could you provide an estimate of the lag time between deciding to undertake the deck project and the actual commencement of the work?

Deck/verandah renovation project lag time, by state, project spend & segment (%)

	2016	2021																
	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k - \$9.9k	\$10.0k - \$14.9k	\$15.0k or more	New	Replacement	
Sample base	707	706	236	224	145	55	46	87	117	112	75	78	107	53	77	384	322	
1 to 2 weeks planning	15	21	22	21	18	19	23	47	28	17	22	16	18	6	10	16	27	
3 to 4 weeks planning	n.a.	27	32	24	25	27	26	22	34	32	28	27	23	35	16	27	28	
1-3 months planning	46	30	30	25	35	37	28	14	21	31	34	32	39	34	37	32	28	
4-6 months planning	22	11	9	16	11	7	11	5	10	9	8	16	10	18	21	13	10	
7-12 months planning	8	5	4	5	5	6	8	4	4	8	6	4	3	5	6	6	4	
Over 12 months planning	9	5	2	9	6	5	4	8	3	4	3	5	7	2	10	6	4	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

Note: '1 to 2 weeks' and '3 to 4 weeks' were not offered in 2016; instead, 'urgent/less than 1 month' was the minimum option, and the response was 15%.

➤ And once the deck project commenced how long did it take to complete? This refers to elapsed time.

Project completion time, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k - \$9.9k	\$10.0k - \$14.9k	\$15.0k or more	New	Replacement
Sample base	706	236	224	145	55	46	87	117	112	75	78	107	53	77	384	322
About 1 week	35	34	35	33	40	38	62	40	36	35	25	27	32	21	29	41
About 2 weeks	24	27	21	26	25	18	24	28	23	26	27	27	15	20	24	25
About 3 weeks	10	12	11	9	5	10	4	10	7	15	13	12	9	15	13	8
About 4 weeks	7	6	8	9	6	7	2	5	10	8	5	8	17	7	7	7
About 5 weeks	2	3	1	3	0	3	1	2	3	1	2	6	0	3	4	1
6 to 8 weeks	5	4	4	8	5	3	0	3	5	5	6	7	11	5	5	5
Around 3 months	8	7	10	6	7	15	3	5	10	8	13	11	1	14	11	5
More than 3 months	7	6	10	6	12	5	3	7	7	3	9	4	15	14	8	7
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean weeks	4.2	3.8	4.7	3.9	4.6	4.4	2.4	3.6	4.3	3.5	5.1	4.2	5.0	6.1	4.7	3.8

3. Decks & Verandahs – Home Improvements

Project drivers – Top driver

➤ Why did you decide to undertake the deck/verandah project?

Key driver for deck/verandah projects, by state, project spend & segment (%)

	2016	2021															
	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k - \$9.9k	\$10.0k - \$14.9k	\$15.0k or more	New	Replacement
Sample base	707	706	236	224	145	55	46	87	117	112	75	78	107	53	77	384	322
Wanted a space for outdoor entertaining	n.a.	31	31	35	27	37	27	15	29	27	40	39	26	49	38	55	7
Condition/age of the deck	28	30	37	26	32	19	24	46	30	34	24	18	35	31	20	0	63
Improve appearance of home	32	20	17	22	21	18	23	19	20	24	20	26	19	11	14	28	11
Increase value of the home	13	5	4	6	7	8	1	2	6	4	4	10	6	3	9	7	4
Disliked previous deck/verandah	9	4	3	2	4	6	9	3	4	3	3	0	4	1	10	0	8
Part of major renovation	7	3	3	2	4	5	4	3	1	3	2	5	3	3	5	4	2
Fire/storm damage	3	2	1	1	2	6	0	1	2	3	0	0	4	0	0	0	3
Inspired by TV Program	2	1	2	1	1	0	2	1	1	1	0	1	2	0	3	2	1
Inspired by other deck I saw	n.a.	1	1	1	1	1	3	3	1	1	2	0	0	0	0	2	0
Other	6	3	2	4	1	0	7	6	4	0	5	1	2	2	2	3	2
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

n.a.: not available

3. Decks & Verandahs – Home Improvements

Project drivers – 2nd driver

➤ Why did you decide to undertake the deck/verandah project?

2nd top driver for deck/verandah projects, by state, project spend & segment (%)

	2016	2021															
	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k - \$9.9k	\$10.0k - \$14.9k	\$15.0k or more	New	Replacement
Sample base	707	706	236	224	145	55	46	87	117	112	75	78	107	53	77	384	322
Improve appearance of home	34	33	38	33	24	37	31	35	35	32	24	33	29	44	33	35	30
Increase value of the home	23	17	11	20	19	12	27	6	16	17	26	16	18	16	19	24	9
Wanted a space for outdoor entertaining	n.a.	15	16	12	20	10	14	15	9	16	18	17	13	15	20	19	11
Disliked previous deck/verandah	12	9	11	11	6	7	3	10	9	13	13	8	9	6	5	0	19
Condition/age of the deck	12	6	5	5	6	16	6	12	7	4	1	6	9	4	3	0	12
Inspired by TV program	3	5	6	4	7	5	6	4	8	6	8	2	6	0	6	6	5
Inspired by other deck I saw	n.a.	5	3	6	8	0	9	7	7	6	4	2	3	8	5	7	3
Part of major renovation	7	5	6	3	5	9	4	3	4	2	4	8	7	5	5	6	4
Fire/storm damage	2	2	2	3	3	2	0	3	3	3	1	2	4	3	0	0	5
Other	7	2	3	3	1	3	0	5	3	1	0	5	2	0	3	3	2
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

3. Decks & Verandahs – Home Improvements

Top of deck material

➤ And what material was used for the top of the deck/verandah?

Deck/verandah top of deck materials, by state & segment

		2010	2016	2021						
		Total	Total	Total	NSW	VIC	QLD	SA	WA	New Replacement
Sample base		506	707	706	236	224	145	55	46	384 322
Deck/verandah projects		403.9	389.8	461.4	152.6	131.3	99.1	30.3	48.2	239.8 221.6
Mean deck area		21.2	23.7	19.6	19.338	19.9	20.4	22.2	16.8	19.8 19.4
Decking ('000m ²)		8,562.7	9,238.3	9,053.0	2,950.2	2,610.2	2,017.7	672.5	808.1	4,735.9 4,287.9
Timber	000m ²	325.2	473.7	442.7	136.4	153.0	101.7	32.7	18.9	232.2 210.5
	%	46	67	63	58	68	70	59	41	60 65
Composite timber	000m ²	0.0	42.4	94.1	39.6	32.1	9.0	2.8	10.7	61.5 32.6
	%	0	6	13	17	14	6	5	23	16 10
Tiles	000m ²	169.7	49.5	80.6	36.9	15.8	16.2	8.1	3.6	45.4 35.3
	%	24	7	11	16	7	11	15	8	12 11
Pavers	000m ²	155.5	70.7	43.7	9.4	7.7	10.8	6.1	9.6	25.6 18.0
	%	22	10	6	4	3	7	11	21	7 6
Bricks	000m ²	49.5	14.1	10.1	5.7	1.9	0.9	0.8	0.7	4.3 5.8
	%	7	2	1	2	1	1	1	2	1 2
Other	000m ²	14.1	56.6	34.8	8.1	13.5	6.4	4.5	2.4	15.6 19.3
	%	2	8	5	3	6	4	8	5	4 6
Total	000m ²	714.1	707.0	706.0	236.0	224.0	145.0	55.0	46.0	384.6 321.4
	%	101	100	100	100	100	100	100	100	100 100

Note: Columns may not always add perfectly due to rounding.

3. Decks & Verandahs – Home Improvements

Deck substructure material

➤ And what material was used for the substructure of the deck (i.e. the structure/material that supports the top of the deck)?

Deck/verandah sub-structure materials, by state (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k - \$9.9k	\$10.0k - \$14.9k	\$15.0k or more	New	Replace- ment
Sample base	706	236	224	145	55	46	87	117	112	75	78	107	53	77	384	322
Timber	65	65	70	64	59	55	77	64	64	82	63	65	56	46	62	68
Concrete slab	18	23	13	17	18	9	11	14	16	6	25	18	23	30	18	17
Sand/gravel	8	4	8	7	13	21	8	11	11	3	3	5	10	9	8	7
Steel	7	5	5	10	5	15	2	8	5	9	3	7	11	11	8	6
Other	3	3	4	2	5	0	2	2	4	0	5	4	0	3	3	2
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

FLVPA
Confidential

FENCING

4. Fencing – Home Improvements

Incidence

- Over the past 12 months or so have you undertaken a fencing project, including both replacement of an existing fence and a brand new fence?

Number and incidence of fencing projects, by segment, 2021

		Total	New South Wales			Victoria			Queensland			SA	WA
			Total	Metro	Rural	Total	Metro	Rural	Total	Metro	Rural	Total	Total
Sample base		1,195	344	224	120	383	317	66	256	145	111	83	129
Total households	'000	9,181.3	3,124.3	1,862.0	1,262.3	2,469.1	1,848.9	620.3	1,906.8	911.8	995.0	702.0	979.2
Household one or more fencing projects	'000	746.5	218.0	131.6	86.4	212.5	165.3	47.2	175.2	90.1	85.1	52.2	88.6
Incidence	%	8.1	7.0	7.1	6.8	8.6	8.9	7.6	9.2	9.9	8.6	7.4	9.0
Boundary fence...													
No. of projects	'000	533.2	157.5	90.0	67.5	164.2	126.0	38.2	120.4	62.1	58.3	36.0	55.1
% incidence		5.8	5.0	4.8	5.3	6.7	6.8	6.2	6.3	6.8	5.9	5.1	5.6
Front fence...													
No. of projects	'000	143.8	43.8	25.9	17.9	44.7	36.0	8.7	28.7	11.9	16.8	9.7	16.9
% incidence		1.6	1.4	1.4	1.4	1.8	1.9	1.4	1.5	1.3	1.7	1.4	1.7
Pool fence...													
No. of projects	'000	164.8	63.2	42.5	20.7	29.1	21.2	7.9	41.7	20.6	21.1	9.4	21.4
% incidence		1.8	2.0	2.3	1.6	1.2	1.1	1.3	2.2	2.3	2.1	1.3	2.2
Total	'000	841.8	264.5	158.4	106.1	238.0	183.2	54.8	190.8	94.6	96.2	55.1	93.4
Mean fencing projects per fencing household	'000	1.1	1.2	1.2	1.2	1.1	1.1	1.2	1.1	1.0	1.1	1.1	1.1

4. Fencing – Home Improvements

Incidence - Historical

➤ Over the past 12 months or so have you undertaken a fencing project, including both replacement of an existing fence and a brand new fence?

Number and incidence of fencing projects, 2010 to 2021

		Total	New South Wales			Victoria			Queensland			SA	WA
			Total	Sydney	Other NSW	Total	Melb-ourne	Other VIC	Total	Bris-bane	Other QLD	Total	Total
2021...													
Total households	'000	9,181.3	3,124.3	1,862.0	1,262.3	2,469.1	1,848.9	620.3	1,906.8	911.8	995.0	702.0	979.2
Household one or more fencing projects	'000	746.5	218.0	131.6	86.4	212.5	165.3	47.2	175.2	90.1	85.1	52.2	88.6
Incidence	%	8.1	7.0	7.1	6.8	8.6	8.9	7.6	9.2	9.9	8.6	7.4	9.0
2016...													
Total households	'000	8,542.7	2,890.5	1,705.7	1,184.9	2,254.5	1,680.2	574.3	1,764.0	837.5	926.5	682.2	951.6
Household one or more fencing projects	'000	675.0	230.3	129.0	101.3	190.2	141.7	48.5	149.9	71.2	78.7	43.2	61.4
Incidence	%	7.9	8.0	7.6	8.5	8.4	8.4	8.4	8.5	8.5	8.5	6.3	6.5
2010...													
Total households		7,945.0	2,746.5	1,609.5	1,137.0	2,051.1	1,484.3	566.8	1,640.8	721.9	918.9	659.2	847.8
Household one or more fencing projects	'000	684.3	216.6	119.0	97.6	195.7	138.7	57.0	149.0	56.5	92.5	46.4	76.6
Incidence	%	8.6	7.9	7.4	8.6	9.5	9.3	10.1	9.1	7.8	10.1	7.0	9.0

4. Fencing – Home Improvements

Fence segments

➤ And was the fencing project related to a front fence, boundary fence or pool fence?

Fencing projects, by state & project spend (%)

	2010	2016	2021											
	Total	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	982	1,335	1,195	344	383	256	83	129	226	312	216	159	150	132
Boundary fence	62	62	57	52	61	60	62	54	57	62	61	58	55	42
Pool fence	19	18	27	34	23	26	22	30	25	22	26	30	28	42
Front fence	20	20	16	14	17	14	17	16	18	17	13	12	17	16
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Fence segments

➤ And did you replace an existing fence or build a new fence?

First or replacement fencing project, by state & project spend (%)

	2010	2016	2021											
	Total	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	982	1,286	1,195	344	383	256	83	129	226	312	216	159	150	132
Boundary														
Replacement fence	79	86	83	82	81	83	83	92	82	85	86	82	80	77
First fence	21	14	17	18	19	17	17	8	18	15	14	18	20	23
Front														
Replacement fence	57	57	55	61	59	52	46	42	56	60	57	32	53	60
First fence	43	43	45	39	41	48	54	58	44	40	43	68	47	40
Pool														
First fence	0	52	54	47	63	43	64	69	37	57	43	54	70	65
Replacement fence	100	48	46	53	37	57	36	31	63	43	57	46	30	35
Total														
Replacement fence	60	73	69	69	67	72	67	66	72	72	75	65	62	57
First fence	40	27	31	31	33	28	33	34	28	28	25	35	38	43
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Note: In 2010 all pool fences were classified as new

4. Fencing – Home Improvements

Front fence analysis

➤ What was the approximate height of the new front fence?

Front fence height estimate, by state & project spend (%)

	2016	2021											
	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	267	216	56	77	44	16	23	46	58	37	25	27	23
Up to 0.9m	4	5	5	9	4	6	0	8	10	7	0	0	0
1.0 to 1.2m	26	35	44	37	22	35	29	41	48	35	21	27	11
1.3 to 1.5m	38	22	30	13	26	5	29	19	13	23	39	33	19
1.6 to 1.8m	24	36	19	39	44	44	40	33	28	36	39	28	64
1.9m or higher	7	3	1	2	3	10	1	0	1	0	0	12	6
Total	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean height (m)	1.4	1.4	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.4	1.5	1.5	1.6

➤ And was the front fence constructed with a single material or a combination of materials?

Front fence analysis, single versus combination materials, by state & project spend (%)

	2016	2021											
	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	267	216	56	77	44	16	23	46	58	37	25	27	23
Single	71	71	75	68	68	64	76	70	73	75	70	71	60
Combination	29	29	25	32	32	36	24	30	27	25	30	29	40
Total	100	100	100	100	100	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Front fence analysis

➤ And what is the approximate total length of the new front fence?

Front fence total length estimate, by state & project spend, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	216	56	77	44	16	23	46	58	37	25	27	23
5m to 6m	20	17	22	21	0	28	43	16	23	9	14	0
7m to 8m	13	18	11	13	24	0	11	14	13	17	6	15
9m to 10m	13	20	11	4	18	13	15	14	9	5	15	12
11m to 12m	9	8	13	7	8	1	0	10	21	10	5	7
13m to 14m	6	7	7	9	3	1	9	3	9	4	11	4
15m to 16m	8	2	6	13	0	21	9	14	3	12	0	1
17m to 18m	8	6	4	12	10	14	8	6	9	7	6	15
19m to 20m	8	7	4	11	10	12	1	3	7	21	13	11
21m to 24m	7	6	9	3	19	5	2	9	0	12	15	11
25m to 30m	3	3	5	1	0	5	0	5	0	2	10	6
31m or more	5	6	8	6	8	0	2	8	6	1	5	18
Total	100	100	100	100	100	100	100	100	100	100	100	100
Mean length (m)	13.9	13.4	13.8	14.2	16.5	13.3	10.2	14.0	12.3	14.4	15.8	19.5

4. Fencing – Home Improvements

Boundary fence analysis

➤ Which boundary fences were erected/replaced?

Boundary fence analysis, historical, by state & project spend (%)

	2010	2016	2021											
	Total	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	568	828	639	159	219	149	50	62	119	176	119	85	85	55
One side	49	53	51	44	54	56	46	49	63	53	50	50	42	31
Back only	14	15	15	12	16	11	21	21	17	21	17	9	8	4
Both sides & back	16	10	13	14	11	15	15	9	4	5	12	16	24	45
Both sides	10	10	11	19	9	9	4	10	8	10	10	16	16	13
One side & back	12	12	10	10	10	8	14	11	8	12	11	10	10	7
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

➤ What was the approximate height of the new boundary fence?

Boundary fence height estimate, by state & project spend, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	639	159	219	149	50	62	119	176	119	85	85	55
Up to 0.9m	1	1	1	2	3	1	6	0	1	0	0	2
1.0 to 1.2m	7	7	6	9	6	10	12	10	7	3	1	8
1.3 to 1.5m	13	20	11	11	17	9	16	14	14	9	18	7
1.6 to 1.8m	71	68	70	74	69	76	62	67	72	80	77	78
1.9m or higher	7	4	12	4	4	4	4	9	6	9	5	7
Total	100	100	100	100	100	100	100	100	100	100	100	100
Mean height (m)	1.6	1.6	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.7	1.7	1.6

4. Fencing – Home Improvements

Boundary fence analysis

➤ And what was the approximate total length of the new boundary fencing?

Boundary fence total length estimate, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more	One side	Back only	Both sides & back	Both sides	One side & back
Sample base	639	159	219	149	50	62	119	176	119	85	85	55	304	92	98	81	64
5m or less	5	7	3	3	6	5	16	4	2	2	1	0	6	5	0	7	0
6m to 10m	15	17	12	19	17	10	35	15	11	6	5	10	20	18	5	8	6
11m to 15m	15	10	19	14	18	17	19	20	16	10	9	9	15	29	2	18	13
16m to 20m	16	16	21	13	4	19	13	24	21	6	12	8	16	28	10	15	10
21m to 25m	10	10	7	12	12	13	6	8	10	19	13	7	11	9	5	8	16
26m to 30m	9	10	9	10	5	10	4	6	12	21	9	9	11	2	7	11	14
31m to 40m	12	12	12	9	20	13	3	12	12	16	21	7	12	4	12	11	20
41m to 50m	8	7	8	10	5	4	2	4	7	10	9	24	6	4	19	5	9
51m to 60m	2	2	2	3	3	3	0	1	1	2	9	6	1	0	10	4	2
61m or more	8	8	8	7	9	7	2	6	8	9	11	21	3	1	28	13	9
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean length (m)	26.3	25.8	26.6	26.5	27.2	25.9	14.6	23.5	26.5	31.6	34.9	39.4	22.3	17.4	45.4	29.4	31.7

4. Fencing – Home Improvements

Pool fence analysis

➤ How many sides of the specific pool fencing did you install? This does not include boundary fencing that may surround the pool.

Pool fence, number of sides fenced, by state & project spend (%)

	2016	2021											
	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	240	394	142	108	74	22	48	69	89	66	56	47	67
One	25	22	30	18	19	32	8	33	26	13	8	35	15
Two	42	40	37	35	42	41	53	32	47	41	46	33	38
Three	19	20	18	25	16	21	23	12	14	28	15	23	30
Four	14	18	16	22	23	6	16	23	12	18	31	10	17
Total	100	100	100	100	100	100	100	100	100	100	100	100	100

➤ Where this is the first pool fence in this position, are you fencing an existing or brand new pool?

If first pool fence in this location, is this a new pool, by state & project spend (%)

	2016	2021											
	Total	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	240	231	77	72	36	14	32	31	53	33	30	36	48
Fencing new pool	48	81	83	82	85	63	80	82	75	78	84	86	83
Fencing existing pool	52	19	17	18	15	37	20	18	25	22	16	14	17
Total	100	100	100	100	100	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Pool fence analysis

- And what is the approximate total length of the new pool fencing?
- Note: pool fence height was not asked and for area calculation purposes is assumed to be 1.2m, as per council regulation across most Australian locations.

Pool fence total length estimate, by state, project spend & sides fenced, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more	One	Two	Three	Four
Sample base	394	142	108	74	22	48	69	89	66	56	47	67	83	158	80	73
1m to 2m	2	3	3	3	0	0	7	1	0	2	0	4	7	1	0	3
3m to 4m	7	6	11	3	0	9	12	11	4	2	0	7	14	5	2	5
5m to 6m	10	10	9	11	11	8	15	8	11	4	19	2	13	13	6	3
7m to 10m	20	17	22	22	32	16	30	28	25	15	7	11	23	23	11	20
11m to 14m	19	20	20	17	16	21	10	18	16	26	29	18	22	21	19	12
15m to 20m	25	26	19	24	36	27	15	24	26	22	29	32	14	27	34	21
21m to 24m	8	8	7	8	5	10	6	3	8	13	9	10	2	6	15	11
25m to 30m	5	5	5	6	0	7	0	5	9	9	6	4	3	2	10	9
31m or more	5	5	5	7	0	2	5	3	1	7	0	12	3	2	2	17
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean length (m)	14.2	14.6	13.5	14.9	13.3	13.8	10.9	12.5	13.8	16.9	14.1	17.6	10.8	12.6	16.7	19.1

4. Fencing – Home Improvements

Project spend

➤ Could you please provide an approximate total spend of your fencing project (including all labour spends, materials and fittings)?

Mean spend on fencing projects, by state, segment & who undertook, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Pool	Front	Bound-ary	DIY/ myself	DIY/ tradie	Fencer/ specialist	Tradie/ builder	Combo
Sample base	1,156	331	373	246	81	125	394	216	639	335	102	496	193	48
Up to \$999	17	19	15	19	16	17	16	19	17	33	19	7	15	22
\$1,000 to \$1,999	27	22	30	31	23	24	20	29	29	32	27	24	24	26
\$2,000 to \$2,999	18	19	18	16	18	22	17	15	19	13	22	20	21	21
\$3,000 to \$3,999	14	12	15	13	17	17	15	13	14	7	18	19	12	11
\$4,000 to \$5,999	13	15	12	12	12	12	13	14	12	6	10	17	13	13
\$6,000 to \$7,999	5	6	4	4	11	3	8	5	4	5	4	6	5	0
\$8,000 to \$9,999	5	6	6	3	3	3	9	4	3	3	0	5	7	8
\$10,000 or more	1	1	0	2	0	1	1	2	1	0	1	1	2	0
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean spend \$	2,940	3,136	2,916	2,747	3,033	2,788	3,486	2,949	2,766	2,119	2,498	3,396	3,225	2,718

4. Fencing – Home Improvements

Project spend

- Could you please provide an approximate total spend of your fencing project (including all labour spends, materials and fittings)?

Mean spend & value estimates on fencing projects

2021...						
Mean spend \$	2,940	3,136	2,916	2,747	3,033	2,788
Projects '000	841.9	264.5	238.0	190.8	55.2	93.4
Estimated value \$m	2,475.3	829.4	694.0	524.1	167.4	260.4
2016...						
Mean spend \$	2,565	2,763	2,334	2,616	2,452	2,503
Projects '000	782.5	260.8	210.4	171.3	56.6	83.4
Estimated value \$m	2,007.4	720.6	491.1	448.1	138.8	208.8
2010...						
Mean spend \$	1,854	1,887	1,601	2,315	1,350	1,699
Projects	788.6	252.9	209.0	182.1	49.9	94.7
Estimated value \$m	1,461.7	477.2	334.6	421.6	67.4	160.9

4. Fencing – Home Improvements

Lag & completion time – Boundary & front fence

➤ Could you provide an estimate of the lag time between deciding to undertake the fencing project and the actual commencement of the work?

Front/boundary project lag time, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more	Front	Boundary
Sample base	801	202	275	182	61	81	157	223	150	103	103	65	216	639
Urgent/emergency	6	6	5	5	13	9	14	5	5	4	3	4	6	6
1 to 2 weeks planning	25	23	23	28	24	28	39	27	19	18	19	18	25	24
3 to 4 weeks planning	28	26	28	30	20	29	22	27	29	38	27	26	27	27
1-3 months planning	28	30	31	25	30	22	17	28	35	27	33	33	26	29
4-6 months planning	7	9	7	7	8	3	2	7	6	11	10	13	8	7
7-12 months planning	3	3	3	3	5	5	3	3	2	3	6	3	3	4
Over 12 months planning	2	4	2	2	0	3	3	3	3	0	2	4	4	2
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

➤ And once the deck project commenced how long did it take to complete? This refers to elapsed time.

Front/boundary fence project completion time, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more	Front	Boundary
Sample base	801	202	275	182	61	81	157	223	150	103	103	65	216	639
1 week or less	69	66	72	64	67	76	78	72	74	64	61	43	55	71
About 2 weeks	13	13	14	18	11	2	9	12	14	16	14	15	14	13
About 3 weeks	6	6	5	6	2	6	5	4	5	4	9	9	9	5
About 4 weeks	3	5	1	2	3	6	3	2	1	8	2	3	4	3
About 5 weeks	1	1	1	1	2	0	0	0	1	1	2	2	1	1
6 weeks or more	8	9	7	9	15	10	5	10	5	7	12	28	17	7
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mean weeks	1.7	1.7	1.4	1.7	2.1	1.6	1.3	1.6	1.3	1.6	2.0	3.2	2.4	1.6

4. Fencing – Home Improvements

Lag & completion time – Pool fence

➤ Could you provide an estimate of the lag time between deciding to undertake the fencing project and the actual commencement of the work?

Pool project lag time, by state & project spend, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	394	142	108	74	22	48	69	89	66	56	47	67
Urgent/emergency	4	4	4	3	0	9	8	5	4	5	0	4
1 to 2 weeks planning	26	30	22	28	21	23	41	27	24	11	31	21
3 to 4 weeks planning	31	32	29	28	49	27	27	28	34	45	31	22
1-3 months planning	23	20	28	23	10	29	8	28	22	26	32	25
4-6 months planning	11	7	12	16	11	10	7	6	15	12	5	21
7-12 months planning	3	4	3	1	4	1	6	2	0	1	1	5
Over 12 months planning	2	3	2	1	6	1	3	5	2	0	0	2
Total	100	100	100	100	100	100	100	100	100	100	100	100

➤ And once the deck project commenced how long did it take to complete? This refers to elapsed time.

Pool fence project completion time, by state & project spend, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	394	142	108	74	22	48	69	89	66	56	47	67
1 week or less	51	48	44	61	76	44	61	47	52	40	51	53
About 2 weeks	20	24	22	18	8	13	15	24	18	20	23	18
About 3 weeks	6	8	3	4	2	14	6	5	7	7	9	5
About 4 weeks	3	2	4	4	4	6	0	4	4	10	2	0
About 5 weeks	4	3	6	5	0	3	5	4	3	4	0	5
6 weeks to 8 weeks	5	4	5	5	4	6	3	4	5	8	4	8
9 weeks or more	11	11	16	3	6	14	10	12	11	11	11	11
Total	100	100	100	100	100	100	100	100	100	100	100	100
Mean weeks	2.6	2.6	3.2	1.8	1.7	3.0	2.2	2.7	2.6	3.0	2.4	2.7

4. Fencing – Home Improvements

Project drivers – Top driver: Boundary & front fence

➤ Why did you decide to undertake the fencing project?

Key driver for front/boundary fence projects, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more	Front	Bound- ary
Sample base	801	202	275	182	61	81	157	223	150	103	103	65	216	639
Condition/age of the previous fence	48	49	57	50	49	21	42	49	54	51	47	44	34	52
Improved safety/security	11	10	10	15	13	10	15	12	7	12	12	9	23	9
Fire/storm damage	11	8	8	3	6	41	11	9	13	11	10	8	4	12
Neighbour's decision	6	7	4	8	8	5	8	6	3	9	6	5	0	7
Improve privacy	5	4	7	5	6	3	4	7	6	3	2	7	5	5
Improve appearance of house	3	4	3	1	5	6	3	3	3	1	6	5	10	2
Increase value of home	3	4	3	3	0	2	1	5	4	2	3	1	4	3
Part of major renovation	2	4	1	3	1	2	0	3	4	1	1	4	3	2
Keep animals/children out	2	2	1	5	1	0	5	1	1	2	3	2	3	2
Disliked aspects of previous fence	2	1	1	2	1	3	3	1	3	2	1	1	4	1
Other	7	7	5	5	10	7	8	4	2	6	9	14	10	5
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Project drivers – 2nd driver: Boundary & front fence

➤ Why did you decide to undertake the fencing project?

2nd top driver for front/boundary fence projects, by state, project spend & segment, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more	Front	Boundary
Sample base	801	202	275	182	61	81	157	223	150	103	103	65	216	639
Improved safety/security	19	22	21	13	19	14	19	17	20	17	18	24	14	19
Condition/age of the previous fence	13	13	10	15	7	23	12	15	12	14	12	15	12	14
Improve privacy	12	13	10	13	18	9	14	11	9	15	15	8	15	11
Neighbour's decision	10	9	14	9	5	3	9	11	11	9	10	6	3	11
Improve appearance of house	9	10	10	8	10	10	7	12	7	3	15	14	16	9
Increase value of home	8	7	6	12	7	7	4	7	11	6	12	9	15	6
Keep animals/children out	6	4	9	6	4	5	6	7	7	12	1	2	5	7
To match other fence	6	6	4	6	7	9	6	7	6	5	8	0	3	6
Disliked aspects of previous fence	6	6	3	7	9	9	9	5	7	6	2	6	5	6
Fire/storm damage	3	2	3	3	6	0	4	4	1	1	2	5	4	2
Part of major renovation	2	2	3	3	5	2	1	1	3	3	1	8	4	2
Regulatory/Council requirement	2	1	2	1	2	9	3	2	2	4	1	2	0	3
Other	4	5	5	4	1	0	6	1	4	5	3	1	4	4
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Project drivers – Top driver: Pool fence

➤ Why did you decide to undertake the fencing project?

Key driver for pool fence projects, by state & project spend, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	394	142	108	74	22	48	69	89	66	56	47	67
Regulatory/Council requirement	23	15	36	25	25	19	27	25	19	26	23	19
Condition/age of the previous fence	15	19	10	20	12	10	19	15	25	18	9	5
Improve appearance of yard	13	13	11	9	29	16	9	8	12	18	10	24
Keep animals/children out	10	10	8	6	14	18	10	13	11	8	12	5
Improved safety/security	9	9	13	3	4	11	10	13	8	2	4	13
Part of major renovation	7	8	4	10	0	9	5	5	4	7	10	13
Inspired by TV program	6	9	4	6	8	4	0	6	2	8	16	8
Improve privacy	5	5	4	7	6	5	5	4	5	4	10	3
Disliked aspects of previous fence	4	5	2	6	0	3	5	2	9	2	0	4
Increase value of home	3	5	3	1	2	3	4	3	1	4	2	6
Fire/storm damage	2	1	4	2	0	1	2	2	3	1	4	1
Other	2	1	2	5	0	1	4	4	1	2	0	0
Total	100	100	100	100	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Project drivers – 2nd driver: Pool fence

➤ Why did you decide to undertake the fencing project?

2nd top driver for pool fence projects, by state & project spend, 2021 (%)

	Total	NSW	VIC	QLD	SA	WA	Under \$1.0k	\$1.0k - \$1.9k	\$2.0k - \$2.9k	\$3.0k - \$3.9k	\$4.0k - \$5.9k	\$6.0k or more
Sample base	394	142	108	74	22	48	69	89	66	56	47	67
Improved safety/security	18	14	23	18	24	17	20	24	24	7	10	19
Keep animals/children out	13	11	20	12	6	12	11	15	15	18	9	10
Regulatory/Council requirement	12	14	10	10	10	16	17	16	6	10	16	10
Improve appearance of yard	12	14	5	18	22	8	15	7	15	9	19	10
Increase value of home	9	10	11	5	4	8	4	5	10	6	10	17
Fire/storm damage	8	5	5	11	0	18	6	6	1	18	20	1
Condition/age of the previous fence	7	10	5	5	5	10	19	2	11	7	0	4
Improve privacy	6	7	5	9	6	4	0	8	8	7	8	7
Inspired by TV program	5	8	2	2	15	1	1	5	3	6	2	12
Part of major renovation	4	5	4	5	5	2	0	6	5	7	2	5
Disliked aspects of previous fence	3	2	3	4	4	3	7	0	3	2	3	2
Inspired by another pool fence	2	1	5	0	0	2	1	4	0	1	2	3
Other	1	0	2	1	0	0	0	2	0	2	0	0
Total	100	100	100	100	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Total fencing materials

➤ The table below provides a summary of total fencing materials across boundary fences, front fences and pool fences.

Total fencing materials by state, 2021

		2010	2016	2021					
		Total	Total	Total	NSW	VIC	QLD	SA	WA
Sample base		941	1335	1,249	357	404	267	88	133
Total fence projects ('000)		788.6	782.5	841.8	264.6	238.0	190.8	55.2	93.4
Total fencing ('000m²)		30,286.0	28,853.5	28,415.9	8,415.7	8,584.8	6,490.1	1,959.5	2,965.7
Timber palings	'000m²	8,483.5	10,112.9	10,735.6	2,467.4	5,125.7	3,048.8	32.8	60.9
	%	28	35	38	29	60	47	2	2
Colorbond/pre-painted steel	'000m²	7,553.3	9,111.8	9,073.0	2,928.8	1,418.6	1,479.2	1,243.8	2,002.5
	%	25	32	32	35	17	23	63	68
Steel tubing	'000m²	1,149.1	1,706.6	1,274.1	474.1	235.6	321.3	118.4	124.6
	%	4	6	4	6	3	5	6	4
Aluminium (tubing/pickets/slats)	'000m²	1,091.1	1,501.9	1,222.0	492.1	277.1	307.2	37.2	108.4
	%	4	5	4	6	3	5	2	4
Timber pickets	'000m²	1,869.2	829.1	1,061.1	236.3	412.4	218.7	15.8	177.9
	%	6	3	4	3	5	3	1	6
Glass	'000m²	411.7	780.7	996.4	356.3	185.3	276.9	51.4	126.5
	%	1	3	4	4	2	4	3	4
Timber slats (horizontal)	'000m²	1,326.5	746.2	661.7	145.2	263.3	182.5	0.3	70.5
	%	4	3	2	2	3	3	0	2
Cable wire	'000m²	99.6	194.0	504.4	235.5	98.6	97.8	71.2	1.3
	%	0	1	2	3	1	2	4	0
Galvanised weldmesh	'000m²	1,210.2	291.5	490.5	47.1	140.2	236.6	51.5	15.1
	%	4	1	2	1	2	4	3	1

- Note: in 2021 we re-engineered the fencing survey to incorporate a range of new questions around the length and height of new fencing projects.
- The questions were accompanied by images covering a range of front, boundary and pool fences with length and height indicated on the images.
- The results of these questions have been directly used to calculate the total m² of boundary, front and pool fencing incorporated in home improvement projects.
- This method will ensure more accurate reporting of lengths and heights and hence area of fencing installed.

4. Fencing – Home Improvements

Total fencing materials

➤ The table below provides a summary of total fencing materials across boundary fences, front fences and pool fences.

Total fencing materials by state, 2021 (continued)

		2010	2016	2021					
		Total	Total	Total	NSW	VIC	QLD	SA	WA
Sample base		941	1335	1,249	357	404	267	88	133
Corrugated iron/metal sheeting	'000m ²	0.0	267.9	436.2	161.0	40.0	40.3	119.7	75.3
	%	0	1	2	2	0	1	6	3
Brick (rendered/painted)	'000m ²	0.0	272.9	269.8	44.5	92.8	87.1	21.4	24.0
	%	0	1	1	1	1	1	1	1
Brick (exposed)	'000m ²	406.0	347.4	193.3	72.7	81.5	24.3	9.8	5.0
	%	1	1	1	1	1	0	0	0
Brick Total	'000m ²	406.0	620.3	463.1	117.2	174.3	111.4	31.2	29.0
	%	1	1	2	1	2	2	2	1
Timber - other	'000m ²	0.0	351.4	199.1	150.0	12.7	33.2	0.2	3.1
	%	0	1	1	2	0	1	0	0
PVC pickets/palings/slats	'000m ²	0.0	0.0	76.1	23.6	24.4	0.5	23.4	4.2
	%	0	0	0	0	0	0	1	0
Concrete block	'000m ²	52.5	20.6	48.1	22.5	10.5	0.5	0.0	14.5
	%	0	0	0	0	0	0	0	0
Timber lattice	'000m ²	337.9	146.7	46.6	11.4	19.0	12.9	2.1	1.3
	%	1	1	0	0	0	0	0	0
Other	'000m ²	6,295.4	2,171.9	1,127.9	547.4	147.1	122.2	160.8	150.5
	%	21	8	4	7	2	2	8	5
Total	'000m	30,286.0	28,853.5	28,415.9	8,415.7	8,584.8	6,490.1	1,959.5	2,965.7
		100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Front fence materials

➤ And what material/s was the new front fence?.

Front fencing materials by state, 2021

		2010	2016	2021					
		Total	Total	Total	NSW	VIC	QLD	SA	WA
Sample base		192	267	216	56	77	44	16	23
Front fence projects ('000)		155.9	158.6	143.8	43.9	44.7	28.6	9.7	16.9
Mean fence area		11.8	12.4	19.4	17.4	19.3	21.3	24.8	18.6
Front fencing ('000m²)		1,832.4	1,960.3	2,793.2	764.2	863.2	610.1	240.8	315.0
Colorbond/pre-painted steel	'000m²	223.7	292.0	588.3	171.1	146.8	128.7	69.3	72.4
	%	12	15	21	22	17	21	29	23
Timber pickets	'000m²	245.4	347.2	477.4	158.1	153.5	48.7	15.8	101.3
	%	13	18	17	21	18	8	7	32
Timber palings	'000m²	353.9	377.4	462.1	93.9	171.6	158.7	11.7	26.2
	%	20	19	17	12	20	26	5	8
Timber slats (horizontal)	'000m²	206.0	227.0	204.8	35.7	69.8	60.6	0.3	38.4
	%	11	12	7	5	8	10	0	12
Brick (rendered/painted)	'000m²	0.0	100.7	162.1	12.8	92.8	32.2	0.3	24.0
	%	0	5	6	2	11	5	0	8
Brick (exposed)	'000m²	0.0	115.7	77.9	33.0	28.7	1.5	9.8	5.0
	%	0	6	3	4	3	0	4	2
Brick - Total	'000m²	114.5	216.4	240.0	45.8	121.4	33.7	10.0	29.0
	%	6	11	9	6	14	6	4	9
Aluminium (tubing/pickets/slats)	'000m²	84.3	87.9	150.3	78.2	5.5	52.8	12.0	1.8
	%	5	4	5	10	1	9	5	1

4. Fencing – Home Improvements

Front fence materials

➤ And what material/s was the new front fence?.

Front fencing materials by state, 2021 (continued)

		2010	2016	2021					
		Total	Total	Total	NSW	VIC	QLD	SA	WA
Sample base		192	267	216	56	77	44	16	23
Steel tubing	'000m ²	88.3	214.5	126.4	5.5	39.3	12.0	66.8	2.9
	%	5	11	5	1	5	2	28	1
Galvanised weldmesh	'000m ²	74.2	18.2	101.8	15.4	17.1	34.8	19.3	15.1
	%	4	1	4	2	2	6	8	5
Corrugated iron/metal sheeting	'000m ²	0.0	31.2	84.5	49.5	9.3	17.4	7.0	1.3
	%	0	2	3	6	1	3	3	0
PVC pickets/palings/slats	'000m ²	0.0	0.0	76.1	23.6	24.4	0.5	23.4	4.2
	%	0	0	3	3	3	0	10	1
Cable wire	'000m ²	99.6	21.0	53.0	37.1	11.5	2.9	0.3	1.3
	%	5	1	2	5	1	0	0	0
Concrete block	'000m ²	52.5	21.0	48.1	22.5	10.5	0.5	0.0	14.5
	%	3	1	2	3	1	0	0	5
Timber lattice	'000m ²	40.5	33.4	46.6	11.4	19.0	12.9	2.1	1.3
	%	2	2	2	1	2	2	1	0
Timber - other	'000m ²	0.0	34.5	22.2	0.0	4.4	14.6	0.2	3.1
	%	0	2	1	0	1	2	0	1
Other	'000m ²	249.5	38.6	111.7	16.5	59.2	31.2	2.6	2.2
	%	14	1	4	2	7	5	1	1
Total	'000m ²	1,832.4	1,960.3	2,793.3	764.2	863.2	610.1	240.8	315.0
	%	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Boundary fence materials

➤ And what material/s was the new boundary fence?.

Boundary fencing materials by state, 2021

		2010	2016	2021					
		Total	Total	Total	NSW	VIC	QLD	SA	WA
Sample base		574	828	639	159	219	149	50	62
Boundary fence projects ('000)		486.6	485.9	533.2	157.5	164.2	120.4	36.0	55.1
Mean fence area		51.5	47.9	42.7	41.5	44.156	42.7	43.5	41.7
Boundary fencing ('000m ²)		25,042.8	23,259.3	22,793.3	6,541.3	7,250.5	5,137.0	1,568.7	2,295.8
Timber palings	'000m ²	8,129.6	9,735.5	10,273.5	2,373.5	4,954.1	2,890.1	21.1	34.7
	%	33	42	45	36	68	56	1	2
Colorbond/pre-painted steel	'000m ²	7,329.6	8,819.9	8,484.7	2,757.7	1,271.8	1,350.6	1,174.5	1,930.1
	%	29	38	37	42	18	26	75	84
Timber pickets	'000m ²	1,623.8	481.8	583.7	78.2	258.8	170.0	0.0	76.6
	%	6	2	3	1	4	3	0	3
Timber slats (horizontal)	'000m ²	795.0	519.2	457.0	109.5	193.5	121.9	0.0	32.1
	%	3	2	2	2	3	2	0	1
Galvanised weldmesh	'000m ²	1,234.3	273.3	388.7	31.7	123.1	201.8	32.1	0.0
	%	5	1	2	0	2	4	2	0
Aluminium (tubing/pickets/slats)	'000m ²	49.5	113.7	386.4	137.4	160.6	88.4	0.0	0.0
	%	<0.5	<0.5	2	2	2	2	0	0
Corrugated iron/metal sheeting	'000m ²	0.0	236.7	351.7	111.5	30.7	22.9	112.7	74.0
	%	0	1	2	2	0	0	7	3

4. Fencing – Home Improvements

Boundary fence materials

➤ And what material/s was the new boundary fence?.

Boundary fencing materials by state, 2021 (continued)

		2010	2016	2021					
		Total	Total	Total	NSW	VIC	QLD	SA	WA
Sample base		574	828	639	159	219	149	50	62
Steel tubing	'000m²	259.8	349.3	255.2	121.9	67.9	65.3	0.0	0.0
	%	1	2	1	2	1	1	0	0
Cable wire	'000m²	0.0	0.0	246.0	87.5	49.2	57.4	52.0	0.0
	%	0	0	1	1	1	1	3	0
Timber - other	'000m²	0.0	248.7	147.9	147.9	0.0	0.0	0.0	0.0
	%	0	1	1	2	0	0	0	0
Brick (exposed)	'000m²	0.0	231.7	115.4	39.7	52.9	22.9	0.0	0.0
	%	0	1	1	1	1	0	0	0
Brick (rendered/painted)	'000m²	0.0	172.2	107.7	31.7	0.0	54.9	21.1	0.0
	%	0	1	0	0	0	1	1	0
Brick - Total	'000m²	291.5	403.9	223.1	71.4	52.9	77.8	21.1	0.0
	%	1	2	1	1	1	2	1	0
Other	'000m²	5329.7	2077.2	995.4	513.1	87.9	91.0	155.1	148.3
	%	21	9	4	8	1	2	10	6
Total	'000m²	25,042.8	23,259.3	22,793.3	6,541.3	7,250.5	5,137.0	1,568.7	2,295.8
	%	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Pool fence materials

➤ And what material/s was the new pool fence?.

Pool fencing materials by state, 2021

		2010	2016	2021					
		Total	Total	Total	NSW	VIC	QLD	SA	WA
Sample base		175	240	394	142	108	74	22	48
Pool fence projects ('000)		146.1	138.0	164.8	63.2	29.1	41.7	9.4	21.4
Mean fence area		23.3	26.3	17.2	17.6	16.2	17.8	16.0	16.6
Fencing ('000m²)		3,410.8	3,633.9	2,829.4	1,110.3	471.1	743.1	150.0	354.9
Glass	'000m²	411.7	780.7	996.4	356.3	185.3	276.9	51.4	126.5
	%	12	21	36	32	39	37	34	36
Steel tubing	'000m²	801.0	1,142.8	892.4	346.6	128.4	244.1	51.6	121.7
	%	23	31	31	31	27	33	34	34
Aluminium tubing	'000m²	957.3	1,300.3	685.3	276.5	111.0	166.0	25.2	106.6
	%	28	36	24	25	24	22	17	30
Cable wire/tubing	'000m²	0.0	194.0	205.4	111.0	38.0	37.5	18.8	0.0
	%	0	5	7	10	8	5	13	0
Timber - other	'000m²	325.5	68.1	29.0	2.1	8.3	18.6	0.0	0.0
	%	10	2	1	0	2	3	0	0
Other	'000m²	915.3	148.0	20.8	17.8	0.0	0.0	3.1	0.0
	%	27	5	1	2	0	0	2	0
Total	'000m²	3,410.8	3,633.9	2,829.4	1,110.3	471.1	743.1	150.0	354.9
	%	100	100	100	100	100	100	100	100

4. Fencing – Home Improvements

Fencing materials summary

➤ And what material/s was the new fence?.

Total fencing materials summary, 2021

		Total	Boundary	Front	Pool
Sample base		1,249	639	216	394
Total fence projects ('000)		841.8	533.2	143.8	164.8
Total fencing ('000m ²)		28,415.9	22,793.3	2,793.2	2,829.4
Timber palings	'000m ²	10,735.6	10,273.5	462.1	0.0
	%	38	45	17	0
Colorbond/pre-painted steel	'000m ²	9,073.0	8,484.7	588.3	0.0
	%	32	37	21	0
Steel tubing	'000m ²	1,274.1	255.2	126.4	892.4
	%	4	1	5	31
Aluminium (tubing/pickets/slats)	'000m ²	1,222.0	386.4	150.3	685.3
	%	4	2	5	24
Timber pickets	'000m ²	1,061.1	583.7	477.4	0.0
	%	4	3	17	0
Glass	'000m ²	996.4	0.0	0.0	996.4
	%	4	0	0	36
Timber slats (horizontal)	'000m ²	661.7	457.0	204.8	0.0
	%	2	2	7	0
Cable wire	'000m ²	504.4	246.0	53.0	205.4
	%	2	1	2	7
Galvanised weldmesh	'000m ²	490.5	388.7	101.8	0.0
	%	2	2	4	0

		Total	Boundary	Front	Pool
Sample base		1,249	639	216	394
Corrugated iron/metal sheeting	'000m ²	436.2	351.7	84.5	0.0
	%	2	2	3	0
Brick (rendered/painted)	'000m ²	269.8	107.7	162.1	0.0
	%	1	0	6	0
Brick (exposed)	'000m ²	193.3	115.4	77.9	0.0
	%	1	1	3	0
Brick Total	'000m²	463.1	223.1	240.0	0.0
	%	2	1	9	0
Timber - other	'000m ²	199.1	147.9	22.2	29.0
	%	1	1	1	1
PVC pickets/palings/slats	'000m ²	76.1	0.0	76.1	0.0
	%	0	0	3	0
Concrete block	'000m ²	48.1	0.0	48.1	0.0
	%	0	0	2	0
Timber lattice	'000m ²	46.6	0.0	46.6	0.0
	%	0	0	2	0
Other	'000m ²	1,127.9	995.4	111.7	20.8
	%	4	4	4	1
Total	'000m	28,415.9	22,793.3	2,793.3	2,829.4
		100	100	100	100



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