

Physical characteristics of new non-residential buildings 2023

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Preface

This is the ninth annual report providing the results of the BRANZ Non-Residential Survey. BRANZ surveys builders and designers of non-residential buildings on the physical characteristics of the building. The purpose is to obtain data on non-residential buildings that is not available from official sources. This data includes what type of materials are used. The data is useful for studies in the fields of sustainability, energy efficiency, durability and engineering.

Acknowledgements

This work was funded by the Building Research Levy. We would like to thank all of the builders and designers who filled in the survey form and returned it to BRANZ.



Physical characteristics of new non-residential buildings 2023

BRANZ Study Report SR500

Authors

Nic Guerrero and Orin Lockyer

Reference

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Abstract

Official data on the characteristics of non-residential buildings is limited. Building consent data held by Statistics New Zealand gives numbers by building type, value and floor area, aggregated into territorial authorities and regions. However, there is no data on materials used.

BRANZ began surveying builders and designers in 1998 to obtain data on materials used. We have since compiled a database of approximately 400 non-residential buildings per year containing information on the materials used by building component.

This report contains the results of these surveys on the materials used in new non-residential buildings. The aim is to provide information useful to building material manufacturers, retailers/wholesalers, builders, designers, researchers, and government officials.

Keywords

Materials, building envelope, claddings, floors, framing, insulation.



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1. Introduction

BRANZ surveys about 2,000 non-residential buildings per year in the BRANZ Non-Residential Survey. The survey also collects a variety of data on materials used in new and altered residential buildings.

The survey is a postal survey to the builder or designer identified on the building consent application form, and the questions relate to each individual consent. Generally, 400 returns are received each year. An incentive is offered (a Lotto ticket or book voucher) for the return of each survey form.

The consent information is obtained from the Whats On¹ building consent data. BRANZ uses this to determine a sample of non-residential buildings for each period from 31 territorial authorities. The territorial authorities surveyed are:

Auckland	Christchurch	Dunedin	Franklin
Far North	Gisborne	Hutt City	Hamilton
Invercargill	Kapiti	Manukau	Marlborough
Napier	New Plymouth	North Shore	Porirua
Palmerston North	Queenstown	Rodney	Southland
Tauranga	Thames-Coromandel	Tasman	Waikato
Waipa	Wellington	Western Bay of Plenty	Whangarei

Waitakere

The survey form is constantly evolving to include new questions as required. However, it is important for BRANZ to keep the survey form as simple, concise and clear as possible. Therefore, BRANZ keeps the survey form to a single page.

BRANZ weights the responses by the share of building activity for each building type in the calculation of the market share. This prevents some building types (such as farm buildings) from having a disproportionate share of the total market share should BRANZ receive a larger number of survey returns of one building type.

Using the data collected, representative estimates of the incidence and proportions of many different materials can be made. The components analysed are:

- roof claddings
- wall claddings
- main structure
- partition wall framing
- wall infill framing
- wall insulation
- · ceiling insulation
- floor insulation.

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¹ Whats-On report (Monthly). BCI New Zealand, Auckland, New Zealand.



A limitation of the survey is that it does not ask why certain materials are selected. This means that the report contains no commentary on why material trends might be changing.

The value of new non-residential consents is presented in Figure 1 broken down into three different building types – institutional, commercial and industrial.

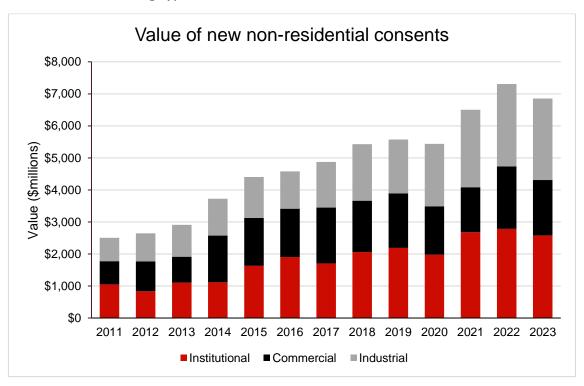


Figure 1. Value of new non-residential consents.



2. Summary

In general, many of the market shares of materials have been relatively steady over the years surveyed.

Sheet metal remains the most popular roof cladding material (Figure 2). Steel, aluminium and other metals continues to be the dominant wall cladding material due to their prominence in industrial and farm buildings (Figure 3). Concrete (mainly precast panels) tends to be variable but in 2023 made up a fifth of all new, non-residential wall cladding. Steel remains the primary material for structural framing (Figure 4).

Timber is the most common material for infill framing – the framing between the main structural elements (Figure 5). The market share of timber partition wall framing, along with 'other' partition wall framing options decreased slightly, meanwhile share of steel increased significantly (Figure 6). Meanwhile, the market share of 'other' partition wall framing options, which consists of insulated panels and glazing, dominates the market share of partition wall framing.

Fibreglass insulation and 'polyester and other' insulation types have an equal amount of the market share of both wall (Figure 7) and ceiling insulation (Figure 8). Polystyrene is still the most common insulation in insulated floors (Figure 9).



3. Main results

Key results are shown in the following charts. The data for these charts is in the tables in Appendix A.

Due to the variations in the mix of buildings year to year, market shares can be highly variable. Therefore, changes in share may be due to a change of building types rather than a change in preference for any particular building material.

3.1 Roof claddings

Sheet metal (76%) is still the predominant roof cladding material for new non-residential buildings (Figure 2).

The 'other' category increased slightly from 21% in 2022 to 24% in 2023. The 'other' category consists of membrane roofing, insulated panels and plastic film used on farm shelters.

Metal and concrete tiles are still relatively uncommon in non-residential buildings and do not feature in the 2023 results.

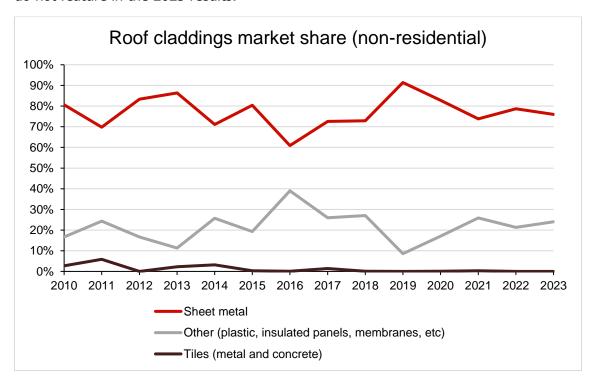


Figure 2. Roof claddings market share.

3.2 Wall claddings

Steel, aluminium and other metals (59%) are the dominant wall cladding materials due in large part to their overrepresentation in the construction of industrial and farm buildings (Figure 3).

Concrete (mainly precast panels) tends to be variable, but in 2023, the market share of concrete (21%) decreased slightly from the year prior (Figure 3). The 'other' category, which primarily consists of fibre-cement products, increased significantly, going from 8% in 2022 to 18% in 2023.



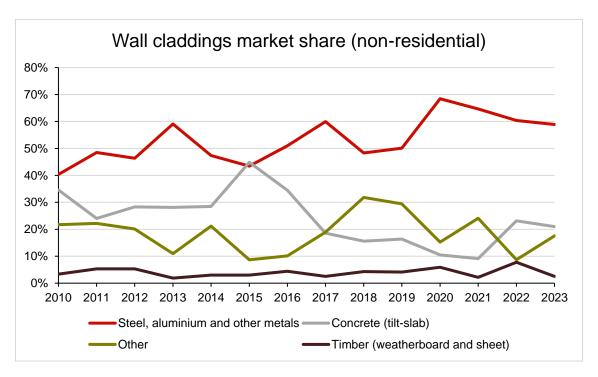


Figure 3. Wall claddings market share.

3.3 Main structure

Use of steel in main structural frames increased slightly, jumping from 51% in 2022 to 56% in 2023 (Figure 4). Meanwhile, the market share of timber framing (34%) decreased slightly.

The market share of concrete (8%) and 'other' (2%) largely remained the same as last year, with the former increasing slightly and the latter decreasing slightly.

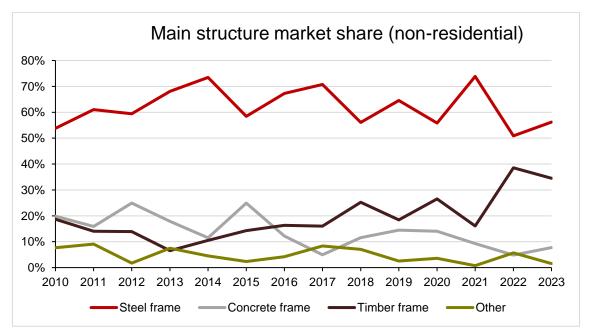


Figure 4. Main structure market share.



3.4 Wall infill framing

Wall infill framing is the framing between the main structural frames. The market share of timber well infill framing regained its position as the predominant material type, increasing to 45% in 2023 versus 38% the year prior. The market share of steel decreased to 42%, just below timber wall infill framing (Figure 5). The market share of concrete (4%) decreased in 2023, while the 'other' category (9%) remained largely the same as last year. The 'other' category primarily consists of glazing.

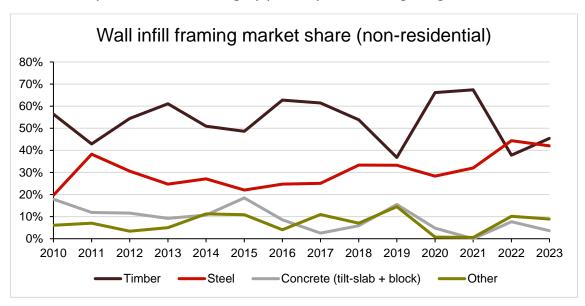


Figure 5. Wall infill framing market share.

3.5 Partition wall framing

The market share of both timber (29%) and 'other' (38%) partition wall framing options decreased slightly in 2023 (Figure 6). The 'other' category includes insulated panels and glazing. Meanwhile, the market share of steel partition wall framing increased significantly, jumping from 17% in 2022 to 29% in 2023 (Figure 6).

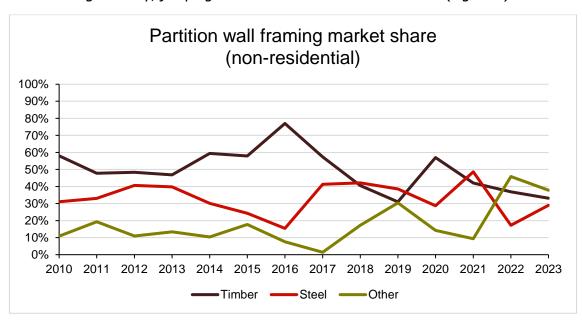


Figure 6. Partition wall framing market share.



3.6 Insulation

Wall insulation, ceiling insulation and floor insulation are dealt with separately in this section.

Farm buildings have not been included as it is uncommon for farm buildings to use insulation and they have a large share of the non-residential building market.

3.6.1 Wall insulation

The market share of fibreglass (52%) increased in 2023. Meanwhile, the share of 'polyester and other' category decreased to 48% (Figure 7).

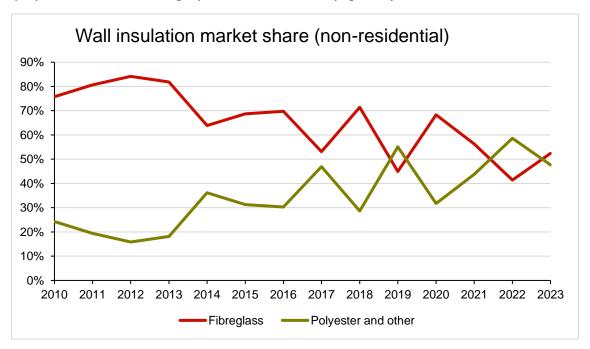


Figure 7. Wall insulation market share.

3.6.2 Ceiling insulation

Normally, most buildings use the same insulation material in the wall and ceiling, which means that market share in each market tends to follow the other.

Like with walls above, the market share of fibreglass (50%) increased while the market share of 'polyester and other' (50%) decreased (Figure 8).

'Other' primarily consists of polystyrene, which is common as part of insulated panels in industrial buildings.



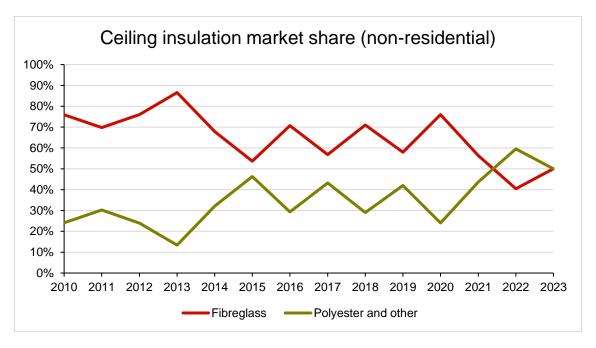


Figure 8. Ceiling insulation market share.

3.6.3 Floor insulation

For those buildings with floor insulation, sheet polystyrene is the still the most common floor insulation material (Figure 9).

Note that the question on insulation of concrete slabs was changed in 2015. This chart assumes that all buildings that selected underslab full/partial used sheet polystyrene, although non-polystyrene waffle pod systems have entered the market. Waffle pod has decreased from 26% in 2022 to 16% in 2023.

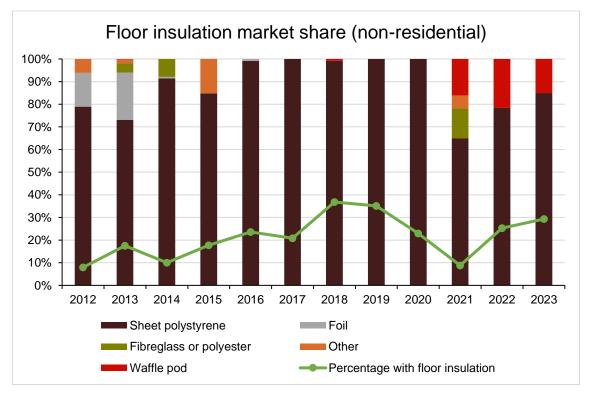


Figure 9. Floor insulation.



Appendix A: Survey forms

A.1 Survey form March 2007

Please	give this fo		he builder	or des		ill out f				sted ov	er the page) .			
Type o	of Building				•		(state			e scho	ool farm bu	uildina	etc		
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		Ne	w			sqm			Number o	of store	eys				
		Additio				•			Average s	-	-		m		
	Α	Iteratio	n						.(describe	altera	tions)				
Main S	Structure Concre	to from	tick one		re er frame	tick	Conc I	alaak	tick		Laminated	المصما	tick	Ī	
		el fram		111111	Tilt slab		Conci	JIOUK					(state)	ļ	
Floor	base mater				THE SIGIS		1		Out	OI			(state)		
1 1001 1	Concrete		.sqm	Partio	cle Board		.sqm		Plywood		.sqm	Other	(state)	sq	ım
Partiti	on Wall Fra	aming Timbe	er		Steel	tic	k one or mo		·	(st	ate)				
Amou	nt of Timbe	er Framub met			icable if f			done) s/spa							
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	Walls		or			with									
	Floors Roof		or or			with with									
	Roof		or			with									
	Eva	cum	Walla		sqm	:415	150v50m	- @G	200 0450						
	Exa	mple	Walls and		-		150x50mr 100x50mr								
		F	Roof				100x50mr			ctrs.					
Secon	dary Wall	Framin	g	tick o	ne or mor	e			_						
	Radiata		Steel		Do	uglas fir		Conc	rete block		Other	(sta	te)		
Timbe	r treatmen	t (for fr	raming)				Please ticl								
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	ng wraps				(tick one		re)								
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Roof					(tick one	l or moi	re)			L		l L			
	Flamestop®)	Tyvek®	Ther	makraft cov	verup	FrameGard I	I	Greenwrap	_	Fastwrap	Bl	ack Paper	Other	(state)
Wall	<u> </u>														
Wall c	ladding (o	nly ap _l State		there	is new w	vall cla	idding)								
	Туре			% are	a	e.g.		tilt s	lab, 60%		also plywoo	od, soli	d plaster(ı	min 18	Bmm),
	Type				a		concre		ock, 15%				on polysty	,	
	Type Type				a a		fibre	_	zing, 10% nent, 15%		Ste	eei, Pv	C weathe	rboard	ı, etc.
	1) ро			70 arc	,α		Total	, 0011	100%						
If yes t	o Fibre Cer	nent cla	adding wh	at is th	ne Manufa	acturer	?	(ti	ick one or m	nore)					
	Hardies	-	BĞC		CSR	ī	PRIMA		Other						
		_													
Fibre C	Cement Pro	duct wa	as used as	;	(Circle one	or mor	e)								
	A	Applied	texture fin	ish sh	eet, Fl	at she	et,	FC p	olank,	FC we	atherboard	/Linea			
If solid	plaster, wh	at back	J	•	one if solid	d plaste	r)								
			fibre ce	ment,	plywood,		paper,		Triple S,	b	olock/brick,	r	netal lathe	9	
Wet ar	ea linings	•	,	,	, ,										
_			_				ximate squ			ed.					
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Roof o	ladding (o		olicable if					Roof	f area		sq metre	es.			
eg p	re-coated s														
-9 P			rubber sh		•	•									
Thank	You. Pleas							ope					Mar-07		



A.2 Survey form November 2011

NON-RESIDENTIAL
Please give this form to the builder or designer to fill out for the building consent listed over the page. Contract value of work (incl sub-trades) \$ incl GST
tick floor area (state type) e.g. Office, school, farm building etc
New sqm Number of storeys:
Addition sqm Average storey height: m
Alteration (describe alteration)
Are you claiming "green" building features? Yes / No If Yes, what type?
Main Structure
Concrete Frame Timber Frame Concrete block LVL Glulam
Steel Frame Tilt Slab Other (state)
Floor Base Material
Concrete sqm Particle Board sqm Plywood sqm Other (state) sqm
If concrete, have any steel deck trays been used? Yes / No (circle one)
Partition Wall Framing (tick one or more)
Timber Steel Concrete Other (state)
Wall Infill Framing (between main frame) (tick one or more)
Radiata Steel Douglas Fir Concrete block Other (state)
Prefabrication .
Are any prefabricated components used? Yes / No If yes, describe applicable component(s) below:
Prefab Frame Prefab Floors
Prefab Walls Prefab Other
Insulation Pink Bradford Premier Brown FG Greenstuf Other Other
(tick one or more) None Batts Gold Fibreglass Rocwool (polyester) Polyester Wool Polystyrene (state) Wall insulation
wall insulation
Ceiling insulation
Expol Polystyrene (not Polythene) Snug Sisalation Ribraft Other
None Warmfeet Under Slab Floor Foil Floor Cupolex (state)
Floor insulation
Builder Other (please specify) Insulation Installer (name)
Building Wraps (tick one or more) Black Other
Flamestop Thermacraft Bitumac CoverTek Pauloid Paper (state) Diflex 130 Tekton
Roof wrap
(tick one or more) Black Other
Flamestop Tyvek Thermacraft Frameguard Home RAB Fastwrap Paper (state) Diflex 130 Tekton Ecoply Barrie
Wall wrap
Wall Cladding State type and approximate % wall coverage
e.g. Fibre cement, 75% Other examples include: tilt slab, concrete block, steel zincalum, glazing, alumunium,
Clay Brick, 15% radiata WB, linea WB etc. Cedar WB, 10%
T
Type % area Type % area
Hardies BGC CSR PRIMA Other Eterpan
If Fibre Cement cladding is used, who is the manufacturer?
Fibre Cement product used as Applied texture finish sheet, Flat sheet, FC plank (7.5mm), Linea (16mm)
If solid plaster, what backing was used? Fibre cement, plywood, paper, Triple S, block/brick, metal lathe
Wet Area Linings (bathroom, kitchen, laundry etc)
Please state the approximate square metres used
Formica Aquapanel Seratone Villaboard Hardiglaze GIB Aqualine Other (state)
m² m² m² m² m²
Roof Cladding (only applicaple if there is new roof cladding)
What roof cladding was used? (circle one or state below)
metal tiles, prepainted corrugated, trough zincalum, other steel profiles, concrete tiles, butyl, asphalt shingles,
other (state) sqm
Type of roof structure Timber Steel Concrete Slab
Thank you. Please fold this form, and freepost it in the return envelope Nov-11



A.3 Survey form October 2015

NON-RESIDENTIAL
Please give this form to the builder or designer to fill out for the building consent listed over the page.
Contract value of work (incl sub-trades) \$ incl GST
Type of Building (state type) e.g. Office, school, farm building etc
tick floor area
New sqm Number of storeys: Addition sqm Average storey height: m
Alteration (describe alterations)
Are you claiming "green" building features? Yes / No If Yes, what type?
Main Structure
Concrete Frame Timber Frame Concrete Block LVL Glulam
Steel Frame Tilt Slab Insulated Panel Other (state)
Floor Base Material
Concrete sqm Particle Board sqm Plywood sqm Other (state) sqm
If concrete, have any steel deck trays been used? Yes / No (circle one)
Partition Wall Framing (tick one or more)
Timber Steel Concrete Other (state)
Wall Infill Framing (between main frame) (tick one or more)
Radiata Steel Douglas Fir Concrete block Other (state) Prefabrication
Are any prefabricated components used? Yes / No If yes, describe applicable component(s) below:
Prefab Floors Prefab Walls Prefab Other
(tick one or more) None Batts Gold Premier Earthwool Greenstuf Polyester Wool Polystyrene (state) Wall insulation
Ceiling insulation
Concrete slab insulation Timber sub-floor insulation
Floor insulation Underslab Perimeter Under
full/partial edge footing Polystyrene Polyester Glasswool Foil
Builder Other (please specify)
Insulation Installer (name)
Building Wraps Flamestop Bitumac Tyvek Supro CoverTek Thermakraft Fastwrap Pauloid Other (state)
Roof Wrap
(m)
(tick one or more) Bitumac Tyvek Homewra Watergate Covertek Thermakraft Tekton Fastwrap Pauloid Ecoply Barrier Other (state)
Wall Cladding State type and approximate % wall coverage
e.g. Concrete block, 75% Other examples include: tilt slab, concrete block, steel zincalum, glazing, alumunium,
Clay Brick, 15% radiata WB, linea WB etc.
Cedar WB, 10%
Type
Type
Type
If Fibre Cement product, what is it used as? (circle one) Applied texture finish sheet, Flat sheet, FC plank (7.5mm), Linea (16mm)
Wet Area Linings (bathroom, kitchen, laundry etc)
Please state the approximate square metres used
Formica Aquapanel Seratone Villaboard Hardiglaze GIB Aqualine Other (state) m² m² m² m² m² m² m² m²
Spouting What profile is the SPOUTING?
% round/quad % round Old gothic Box Other (state)
What material is the SPOUTING?
PVC (White) PVC (Colour) Steel Aluminium Copper Other (state)
Who installed the SPOUTING?
Roofer Spouting installer Builder Plumber Other (state)
Downpipes
What profile are the DOWNPIPES?
65mm round 80mm round 100mm round 65x50mm rectangular 100x50mm rectangular
Other (state)
What material are the DOWNPIPES?
PVC (White) PVC (Colour) Steel Aluminium Copper Other (state)
Who installed the DOWNPIPES? Roofer Spouting installer Builder Plumber Other (state)
Roof Cladding (only applicable if there is new roof cladding) Roof Cladding (only applicable if there is new roof cladding)
What roof cladding was used? (circle one or state below) metal tiles, prepainted corrugated, trough zincalum, other steel profiles, concrete tiles, butyl, asphalt shingles,
other (state) sqm
Type of roof structure Timber Steel Concrete Slab
Thank you. Please fold this form, and freepost it in the return envelope Oct-15
Ott-13



A.4 Survey form October 2023

NON-RESIDENTIAL
Please give this form to the builder or designer to fill out for the building consent listed over the page.
Contract value of work (incl sub-trades) \$ incl GST
Type of Building (state type) e.g. Office, school, farm building etc
tick floor area
New sqm Number of storeys:
Addition sqm Average storey height: m
Alteration (describe alterations)
Are you claiming "green" building features? Yes / No If Yes, what type?
Main Structure
Concrete Frame Timber Frame Concrete Block LVL Glulam Steel Frame Tilt Slab Insulated Panel Other (state)
Floor Base Material
Concrete sqm Particle Board sqm Plywood sqm Other (state) sqm
If concrete, have any steel deck trays been used? Yes / No (circle one)
Partition Wall Framing (tick one or more)
Timber Steel Concrete Other (state)
Wall Infill Framing (between main frame) (tick one or more)
Radiata Steel Douglas Fir Concrete block Other (state)
Insulation Pink Bradford Knauf Autex Other Other
(tick one or more) None Batts Gold Premier Earthwool Greenstuf Polyester Wool Polystyrene (state)
Wall insulation
Ceiling insulation
Concrete slab insulation Timber sub-floor insulation
Floor insulation Underslab Perimeter Under
full/partial <u>edge</u> <u>footing</u> Polystyrene Polyester Glasswool <u>Foil</u>
Builder Other (please specify)
Insulation Installer (name)
Building Wraps Flamestop Bitumac Tyvek Supro CoverTek Thermakraft Fastwrap Pauloid Other (state)
Roof Wrap
(tick one or more) James Hardie RAB Tyvek Homewrap Watergate Covertek Thermakraft Tekton Fastwrap GIB Weatherline Ecoply Other (state)
Wall Wrap
Wall Cladding State type and approximate % wall coverage
e.g. Concrete block, 75% Other examples include: tilt slab, concrete block, steel zincalum, glazing, alumunium,
Clay Brick, 15% aeorate concrete panel (AAC), radiata WB, linea WB etc.
Cedar WB, 10%
Type
Type
If Fibre Cement product, what is it used as? (circle one) Applied texture finish sheet, Flat sheet, FC plank (7.5mm), Linea (16mm)
Wet Area Linings (bathroom, kitchen, laundry etc)
Please state the approximate square metres used Formica Aquapanel Seratone Villaboard HardieGlaze GIB Aqualine Other (state)
m^2 m^2 m^2 m^2 m^2 m^2 m^2
Spouting
What profile is the SPOUTING?
'r round/quad ½ round Old gothic Box Other (state)
What material is the SPOUTING?
PVC (White) PVC (Colour) Steel Aluminium Copper Other (state)
Who installed the SPOUTING? Roofer Spouting installer Builder Plumber Other (state)
Fascia
Fascia depth:mm What material is the FASCIA?
Timber Steel Aluminium Copper Other (state) Who installed the FASCIA?
Roof Cladding (only applicaple if there is new roof cladding)
What roof cladding was used? (circle one or state below) metal tiles, prepainted corrugated, trough zincalum, other steel profiles, concrete tiles, butyl, asphalt shingles,
other (state) sqm
Type of roof structure Timber Steel Concrete Slab
·
Thank you. Please fold this form, and freepost it in the return envelope Oct-23



Appendix B: Tables of data for the charts

Table 1. Roof claddings market share.

Roof claddings market share in new non-residential buildings Yearly Data 2010-2023														
reany Data 2010-2023	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Sheet metal	81%	70%	83%	86%	71%	80%	61%	73%	73%	91%	83%	74%	79%	76%
Tiles (metal and concrete)	3%	6%	0%	2%	3%	0%	0%	1%	0%	0%	0%	0%	0%	0%
Other (plastic, insulated panels, membranes, etc)	17%	24%	17%	11%	26%	19%	39%	26%	27%	9%	17%	26%	21%	24%
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Note: Percentages weighted to allow for different building types														

Table 2. Wall claddings market share.

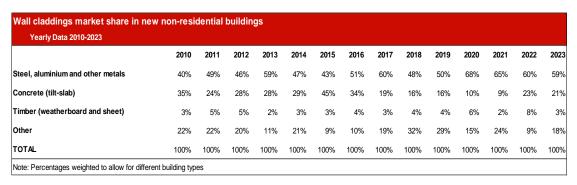


Table 3. Main structure market share.

Main structure market sl	hare in new non	-reside	ntial bu	uildings	;									
Yearly Data 2010-2023	3													
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Concrete frame	20%	16%	25%	18%	11%	25%	12%	5%	12%	14%	14%	9%	5%	8%
Steel frame	54%	61%	59%	68%	73%	58%	67%	71%	56%	65%	56%	74%	51%	56%
Timber frame	19%	14%	14%	7%	11%	14%	16%	16%	25%	18%	27%	16%	39%	34%
Other	8%	9%	2%	8%	4%	2%	4%	8%	7%	3%	4%	1%	6%	2%
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Note: Percentages weighted to a	llow for different build	ding types												

Table 4. Wall infill framing market share.

Wall infill framing market sha	re in new no	n-resid	ential b	uilding	s									
Yearly Data 2010-2023														
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Timber	56%	43%	54%	61%	51%	49%	63%	61%	54%	37%	66%	67%	38%	45%
Concrete (tilt-slab + block)	18%	12%	12%	9%	11%	18%	9%	3%	6%	15%	5%	0%	8%	4%
Steel	20%	38%	31%	25%	27%	22%	25%	25%	33%	33%	28%	32%	44%	42%
Other	6%	7%	3%	5%	11%	11%	4%	11%	7%	14%	1%	1%	10%	9%
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Note: Percentages weighted to allow fo	r different building	types. D	oes not ir	nclude far	m building	js								



Table 5. Partition wall framing market share.

_	Partition wall framing market share in new non-residential buildings Yearly Data 2010-2023														
Touris Bata 2010 2020	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Steel	31%	33%	41%	40%	30%	24%	15%	41%	42%	39%	29%	49%	17%	29%	
Timber	58%	48%	48%	47%	59%	58%	77%	57%	41%	31%	57%	42%	37%	33%	
Other	11%	19%	11%	13%	10%	18%	8%	1%	17%	30%	14%	9%	46%	38%	
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Note: Percentages weighted to allo	w for differe	nt buildin	g types												

Table 6. Wall insulation market share.

Yearly Data 2010-2023														
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fibreglass	76%	81%	84%	82%	64%	69%	70%	53%	71%	45%	68%	56%	41%	52%
Polyester and other	24%	19%	16%	18%	36%	31%	30%	47%	29%	55%	32%	44%	59%	48%
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 7. Ceiling insulation market share.

Ceiling insulation market share in new non-residential buildings														
Yearly Data 2010-2023														
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fibreglass	76%	70%	76%	87%	68%	54%	71%	57%	71%	58%	76%	56%	40%	50%
Polyester and other	24%	30%	24%	13%	32%	46%	29%	43%	29%	42%	24%	44%	60%	50%
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Note: Percentages weighted to allo	ow for different build	ling types												

Table 8. Floor insulation market share.

Yearly Data 2010-2023													
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	202	
Waffle pod	0%	0%	0%	0%	0%	0%	1%	0%	0%	18%	26%	169	
Sheet polystyrene	79%	73%	91%	85%	99%	100%	94%	100%	100%	73%	93%	90%	
Foil	15%	21%	1%	0%	1%	0%	0%	0%	0%	0%	0%	0%	
Fibreglass or polyester	0%	4%	8%	0%	0%	0%	0%	0%	0%	15%	0%	0%	
Other	6%	2%	0%	15%	0%	0%	0%	0%	0%	6%	0%	0%	
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	113%	119%	106%	
Percentage with floor insulation	8%	18%	10%	18%	24%	21%	37%	35%	23%	9%	25%	29%	

Table 9. Value of building consents by sector.

Value of new non-residential consents (\$millions) Yearly data 2010-2023														
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Institutional	1,141	1,051	836	1,105	1,115	1,628	1,903	1,706	2,061	2,190	1,978	2,678	2,784	2,582
Commercial	695	722	933	808	1,461	1,496	1,513	1,742	1,601	1,705	1,510	1,404	1,948	1,729
Industrial	724	730	876	993	1,149	1,280	1,162	1,427	1,767	1,676	1,947	2,423	2,578	2,544
Total non-residential buildings	2,559	2,503	2,645	2,907	3,724	4,404	4,578	4,875	5,429	5,572	5,436	6,505	7,310	6,855

Source: Stats NZ