

# **STUDY REPORT**

**SR 331 (2015)**

## **Physical characteristics of new non-residential buildings 2014**

**MD Curtis**



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## **Preface**

This is the first 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 includes what type of materials are used. The data is useful for studies in the fields of sustainability, energy efficiency, durability and engineering.

## **Acknowledgments**

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.

## **Note**

This report is intended for building material manufacturers, retailers/wholesalers, builders, designers, researchers and Government officials.

# **Physical characteristics of new non-residential buildings**

## **BRANZ Study Report SR 331**

**MD Curtis**

### **Abstract**

Official data on the characteristics of non-residential buildings is limited. Building consents data held by Statistics New Zealand gives numbers by building type, value and floor area, aggregated into territorial authorities. 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.

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# 1. INTRODUCTION

BRANZ surveys about 1,600 non-residential buildings per year in the BRANZ Non-Residential Survey. It 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, book voucher, or reduced price on BRANZ publications) for the return of each survey form.

The consent information is obtained from the What's-On<sup>1</sup> building consent data. BRANZ uses this to determine a sample of non-residential buildings for each period from 31 territorial authorities.

The 31 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 cladding
- Wall cladding
- Main structure
- Partition wall framing
- Wall infill framing
- Wall insulation
- Ceiling insulation
- Floor insulation

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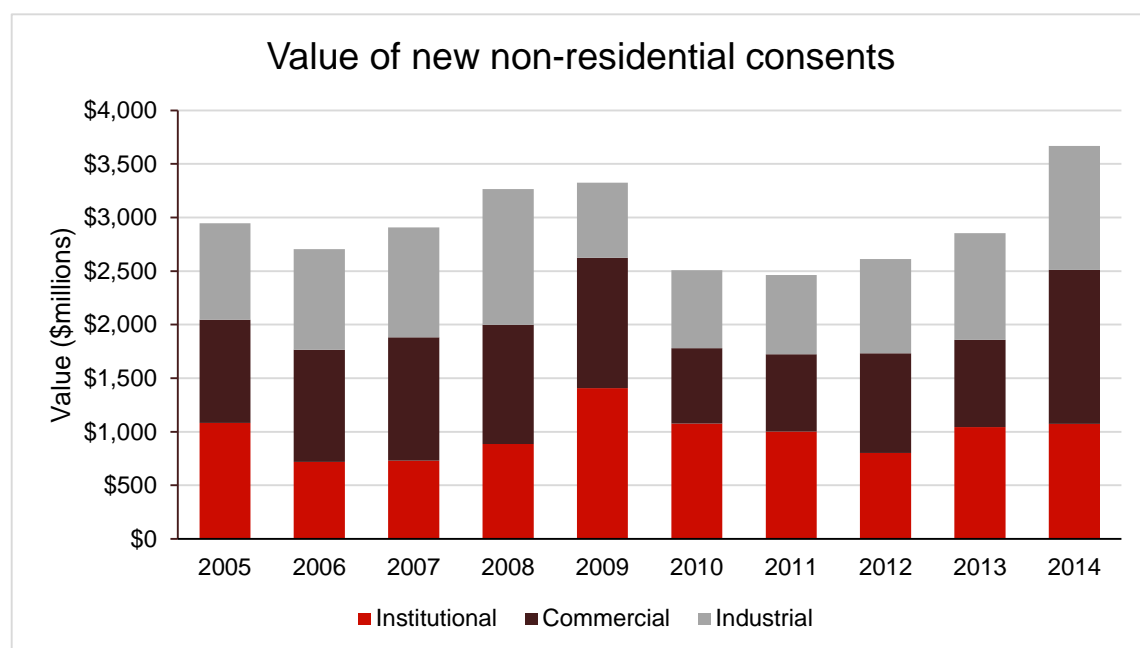
<sup>1</sup> *Whats-On report (Monthly)*. TF Stevens & Co Ltd, Auckland, New Zealand.

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. The following figures encompass the growth period from 2006 through to 2009, as well as the decline in values between 2010 and 2013. 2014 saw a large increase in the value of consents for new non-residential buildings. This was largely due an increase in building activity driven by the commercial sector.

The values have been 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. There are a few exceptions to this:

- Sheet metal roof cladding had a significant decrease in share in 2014. This was largely due to the increase in the use of plastic in farm buildings.
- Steel main structural frames had a strong increase in share between 2012 and 2014.
- Timber wall infill framing decreased in share, largely at the expense of steel.

## 3. MAIN RESULTS

Key results are shown in the following charts. The data for these charts are in the tables in the appendix.

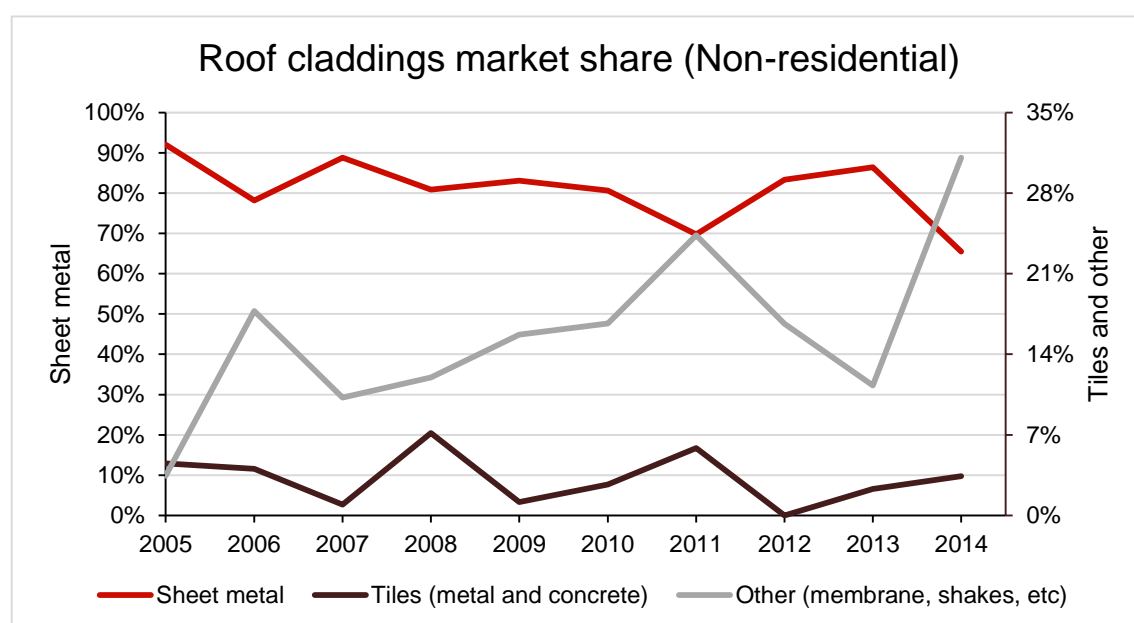
Due to the variations in the mix of buildings year-to-year, market shares can be highly variable. Therefore, changes in share may be due to a change of building types rather than a change in preference for any particular building material.

### 3.1 Roof Claddings

Sheet metal is the dominant roof cladding for new non-residential buildings. In the period from 2005 to 2011, sheet metal's share decreased from just over 90% to about 70%. The following two years saw an increase in its share up to 86%. However, in 2014 sheet metal's share decreased by 20 percentage points.

"Other" had a large increase in share in 2014. This is largely due to the increased use of plastic in farm buildings.

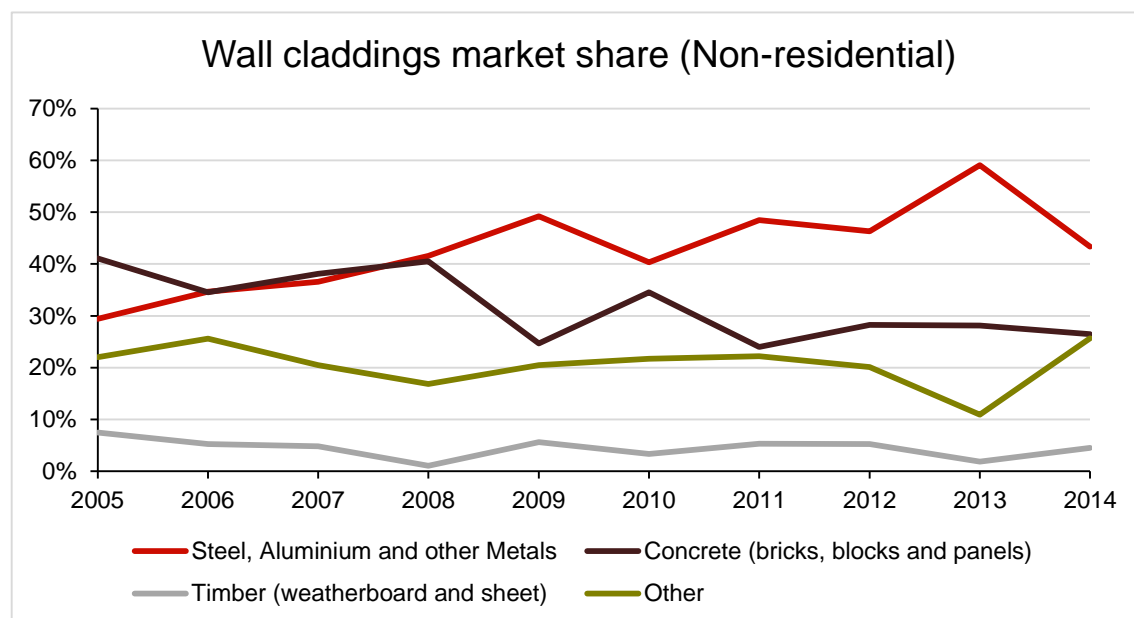
**Figure 2. Roof claddings market share**



## 3.2 Wall Claddings

Steel, aluminium and other metals are the dominant wall cladding material. Their share has been trending upwards since 2005, although 2014 saw a dip in share of about 16 percentage points. “Other” saw a slight uptick in share in 2014 after falling between 2011 and 2013.

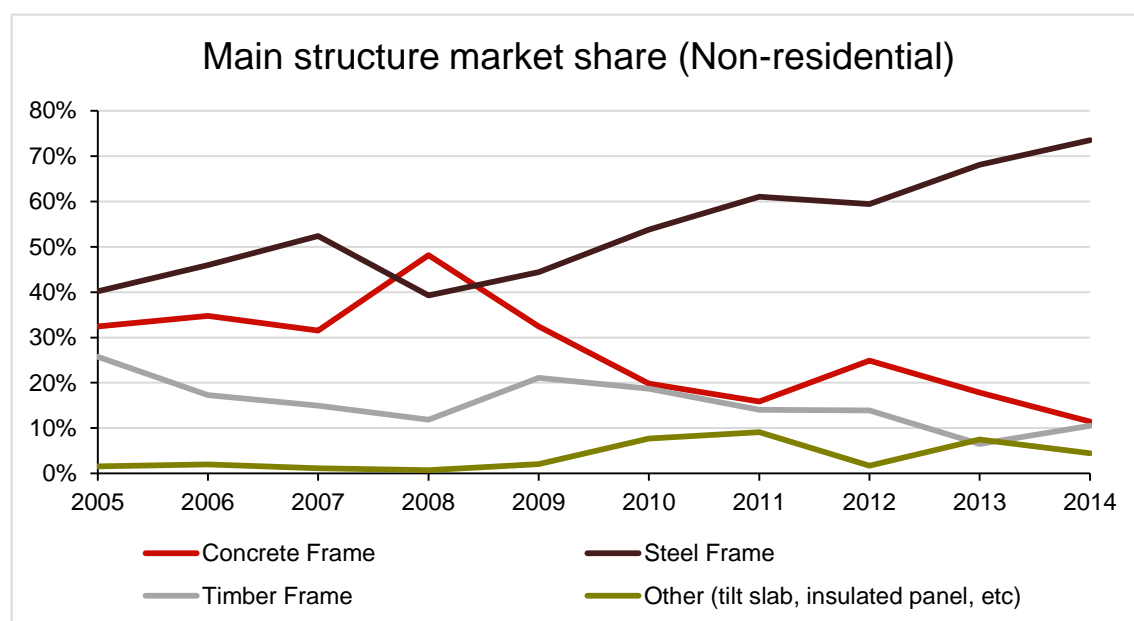
**Figure 3. Wall claddings market share**



## 3.3 Main Structure

Steel main structural frames have been trending upwards over the period shown in Figure 4. This has largely been at the expense of concrete main structural frames which has trended downwards over the same period. Timber main structural frames have also been trending downwards.

**Figure 4. Main structure market share**



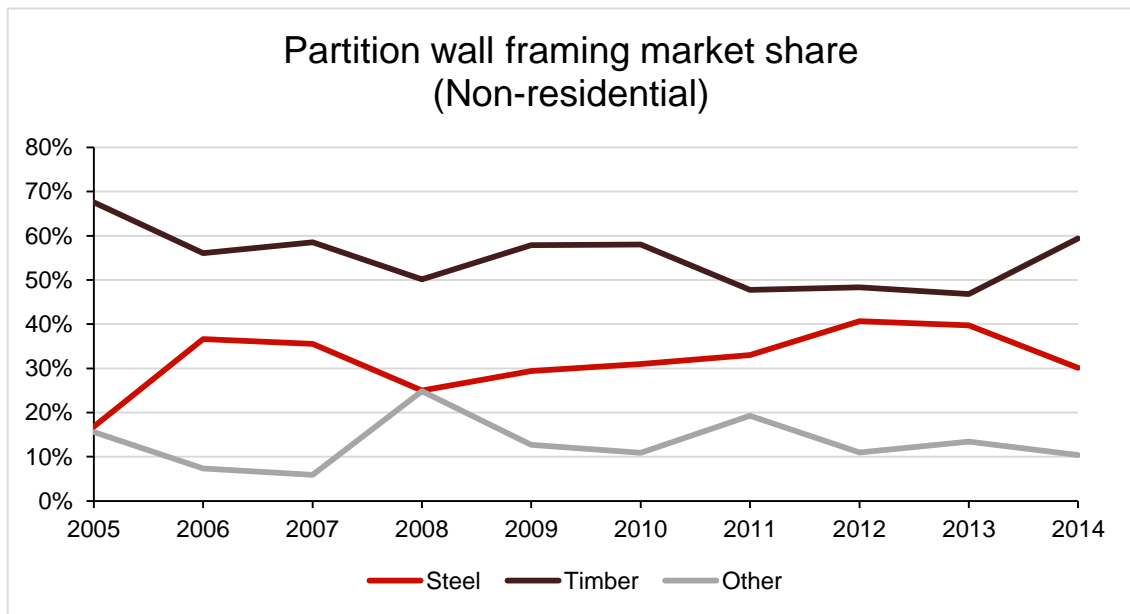


### 3.4 Partition Wall Framing

Timber is the dominant partition wall framing material. Its share has trended downwards for several years. However, it had a strong increase in share in 2014 up to about 60%.

Steel increased its share between 2008 and 2012. However, 2013 saw a flattening out in its share before a fall in 2014.

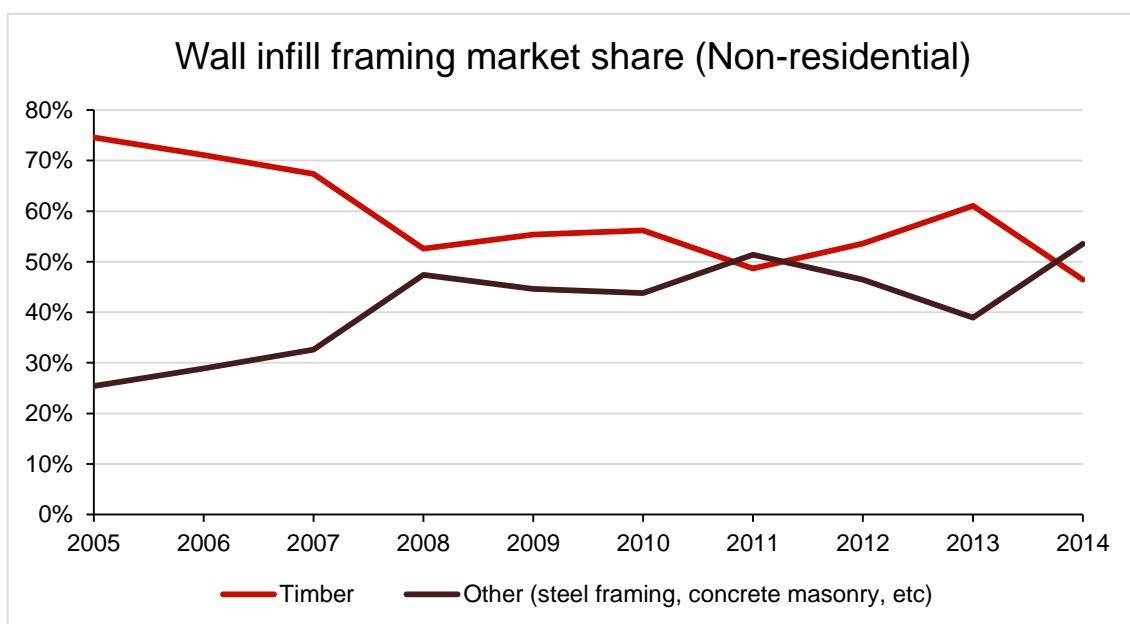
Figure 5. Partition wall framing market share



### 3.5 Wall Infill Framing

Wall infill framing is the framing between the main structural frame. Timber framing has been trending downwards over the period shown in Figure 6. In 2014, "Other" had a larger share than timber for the second time in 9 years.

Figure 6. Wall infill framing market share



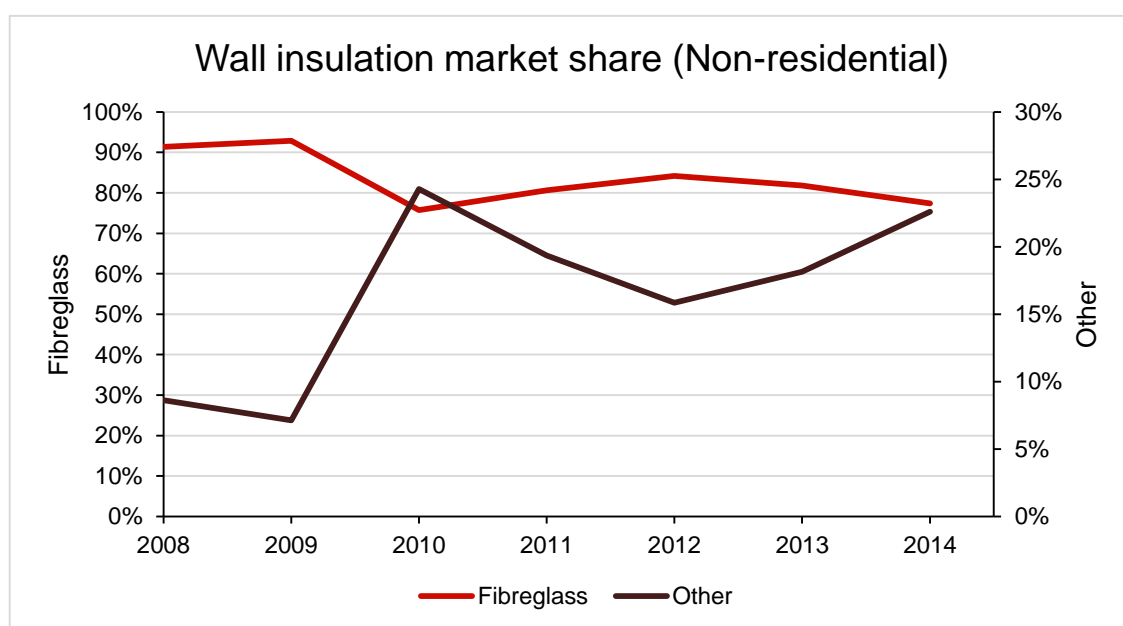
## 3.6 Insulation

Wall insulation, ceiling insulation and floor insulation are dealt with separately in this section. Farm buildings have not been included in the following market shares 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

Fibreglass is the dominant wall insulation material. Its share has been fairly steady since 2010.

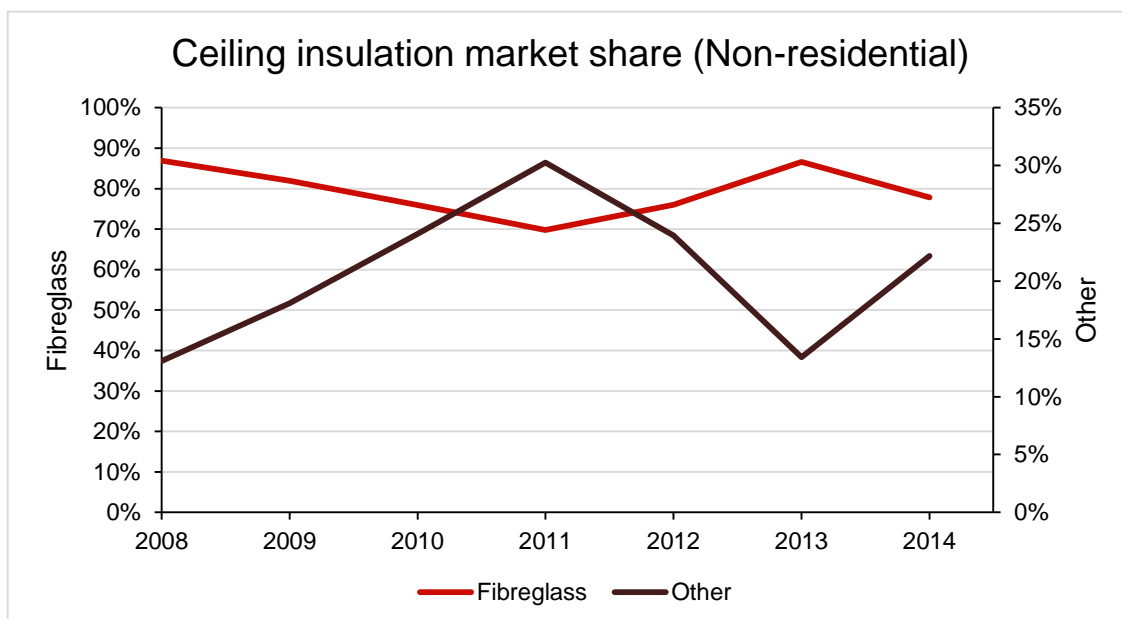
**Figure 7. Wall insulation market share**



### 3.6.2 Ceiling Insulation

Fibreglass is also the dominant ceiling insulation material. Its share dipped between 2008 and 2011, but has been trending upwards recently (despite a small decrease in 2014).

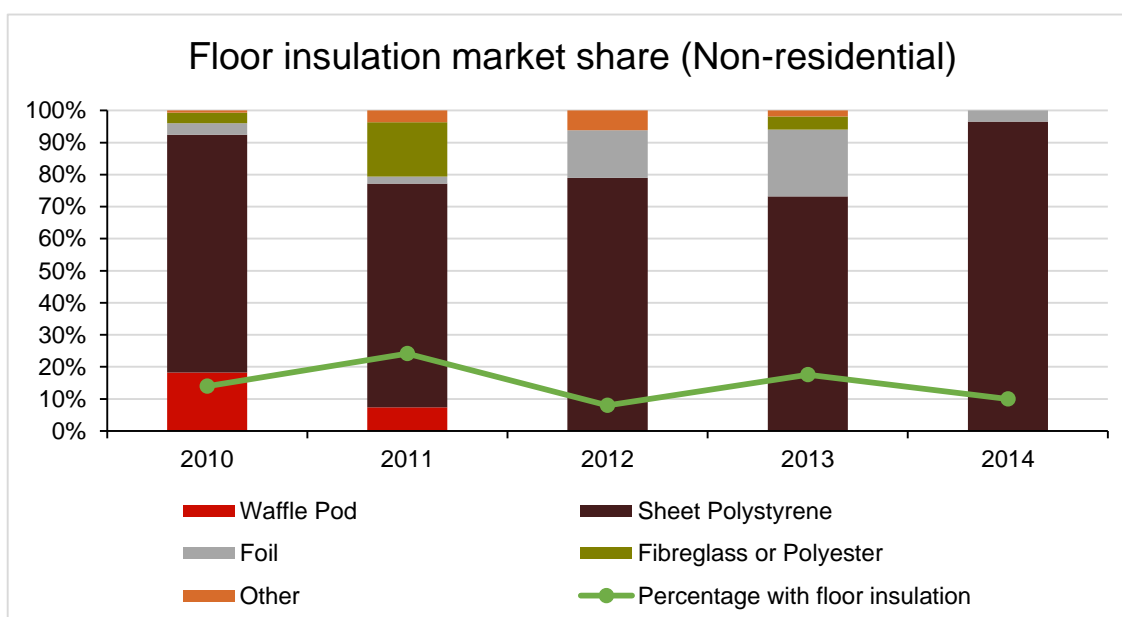
Figure 8. Ceiling insulation market share



### 3.6.3 Floor Insulation

The majority of non-residential buildings do not have floor insulation. For those buildings with floor insulation, sheet polystyrene is the most common floor insulation material. Both foil, and fibreglass or polyester have been common choices for floor insulation in the past.

Figure 9. Floor insulation



## 4. APPENDIX

This appendix contains:

- Tables of data for the charts
- BRANZ Non-Residential survey forms.

### 4.1 Results Tables

**Table 1. Roof claddings market share**

Roof claddings market share in new non-residential buildings Yearly data 2005-2014										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Sheet metal	92%	78%	89%	81%	83%	81%	70%	83%	86%	66%
Tiles (metal and concrete)	5%	4%	1%	7%	1%	3%	6%	0%	2%	3%
Other (membrane, shakes, etc)	3%	18%	10%	12%	16%	17%	24%	17%	11%	31%
<b>TOTAL</b>	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**

Wall claddings market share in new non-residential buildings Yearly data 2005-2014										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Steel, Aluminium and other Metals	29%	35%	37%	42%	49%	40%	49%	46%	59%	43%
Concrete (bricks, blocks and panels)	41%	35%	38%	41%	25%	35%	24%	28%	28%	26%
Timber (weatherboard and sheet)	7%	5%	5%	1%	6%	3%	5%	5%	2%	5%
Other	22%	26%	20%	17%	20%	22%	22%	20%	11%	26%
<b>TOTAL</b>	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Note: Percentages weighted to allow for different building types

**Table 3. Main structure market share**

Main structure market share in new non-residential buildings Yearly data 2005-2014										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Concrete Frame	32%	35%	31%	48%	32%	20%	16%	25%	18%	11%
Steel Frame	40%	46%	52%	39%	44%	54%	61%	59%	68%	73%
Timber Frame	26%	17%	15%	12%	21%	19%	14%	14%	7%	11%
Other (tilt slab, insulated panel, etc)	2%	2%	1%	1%	2%	8%	9%	2%	8%	4%
<b>TOTAL</b>	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Note: Percentages weighted to allow for different building types

**Table 4. Partition wall framing market share**

Partition wall framing market share in new non-residential buildings Yearly data 2005-2014										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Steel	17%	37%	36%	25%	29%	31%	33%	41%	40%	30%
Timber	68%	56%	59%	50%	58%	58%	48%	48%	47%	59%
Other	16%	7%	6%	25%	13%	11%	19%	11%	13%	10%
<b>TOTAL</b>	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Note: Percentages weighted to allow for different building types

**Table 5. Wall infill framing market share**

Wall infill framing market share in new non-residential buildings										
Yearly data 2005-2014										
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Timber	75%	71%	67%	53%	55%	56%	49%	54%	61%	46%
Other (steel framing, concrete masonry, etc)	25%	29%	33%	47%	45%	44%	51%	46%	39%	54%
<b>TOTAL</b>	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Note: Percentages weighted to allow for different building types

**Table 6. Wall insulation market share**

Wall insulation market share in new non-residential buildings							
Yearly data 2008-2014							
	2008	2009	2010	2011	2012	2013	2014
Fibreglass	91%	93%	76%	81%	84%	82%	77%
Other	9%	7%	24%	19%	16%	18%	23%
<b>TOTAL</b>	100%	100%	100%	100%	100%	100%	100%

Note: Percentages weighted to allow for different building types

**Table 7. Ceiling insulation market share**

Ceiling insulation market share in new non-residential buildings							
Yearly data 2005-2014							
	2008	2009	2010	2011	2012	2013	2014
Fibreglass	87%	82%	76%	70%	76%	87%	78%
Other	13%	18%	24%	30%	24%	13%	22%
<b>TOTAL</b>	100%	100%	100%	100%	100%	100%	100%

Note: Percentages weighted to allow for different building types

**Table 8. Floor insulation market share**

Floor insulation market share in new non-residential buildings						
Yearly data 2005-2014						
	2010	2011	2012	2013	2014	
Waffle Pod	18%	7%	0%	0%	0%	
Sheet Polystyrene	74%	70%	79%	73%	97%	
Foil	4%	2%	15%	21%	3%	
Fibreglass or Polyester	3%	17%	0%	4%	0%	
Other	1%	4%	6%	2%	0%	
<b>TOTAL</b>	100%	100%	100%	100%	100%	
<b>Percentage with floor insulation</b>	14%	24%	8%	18%	10%	

Note: Percentages weighted to allow for different building types

## 4.2 Survey Form March 2007

<b>NON-RESIDENTIAL BUILDINGS</b> 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.																																											
<b>Type of Building</b> ..... (state type) e.g. Office, school, farm building etc <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">                     tick                      New <input type="checkbox"/>                      Addition <input type="checkbox"/>                      Alteration <input type="checkbox"/> </div> <div style="width: 30%;">                     Floor area                      ..... sqm                      ..... sqm                      ..... (describe alterations)                 </div> <div style="width: 30%;">                     Number of storeys .....                      Average storey height .....m  </div> </div>																																											
<b>Main Structure</b> tick one or more tick <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">                     Concrete frame <input type="checkbox"/>                      Steel frame <input type="checkbox"/> </div> <div style="width: 30%;">                     Timber frame <input type="checkbox"/>                      Tilt slab <input type="checkbox"/> </div> <div style="width: 30%;">                     Conc block <input type="checkbox"/>                      Other.....(state)                 </div> <div style="width: 30%;">                     Laminated wood <input type="checkbox"/> </div> </div>																																											
<b>Floor base material</b> Concrete .....sqm    Particle Board .....sqm    Plywood .....sqm    Other (state) ..... sqm																																											
<b>Partition Wall Framing</b> tick one or more Timber <input type="checkbox"/> Steel <input type="checkbox"/> Other .....(state)																																											
<b>Amount of Timber Framing (only applicable if framing work is done)</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Cub metres</th> <th style="width: 10%;"></th> <th style="width: 15%;">Wall/floor area</th> <th style="width: 10%;"></th> <th style="width: 50%;">Sizes/spacing</th> </tr> </thead> <tbody> <tr> <td>Walls</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">or</td> <td></td> <td rowspan="4" style="text-align: center; vertical-align: middle;">with</td> <td></td> </tr> <tr> <td>Walls</td> <td></td> <td></td> </tr> <tr> <td>Floors</td> <td></td> <td></td> </tr> <tr> <td>Roof</td> <td></td> <td></td> </tr> <tr> <td>Roof</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">or</td> <td></td> <td rowspan="4" style="text-align: center; vertical-align: middle;">with</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="margin-top: 10px;">                     cum                      sqm  <b>Example Walls and Roof</b>                      550sqm with 150x50mm @600 ctrs.                      2000sqm with 100x50mm @450 ctrs.                      300 sqm with 100x50mm truss @900 ctrs.                 </p>										Cub metres		Wall/floor area		Sizes/spacing	Walls	or		with		Walls			Floors			Roof			Roof	or		with											
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<b>Building wraps</b> (tick one or more) <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 15%;">Flamestop®</th> <th style="width: 15%;">Thermakraft</th> <th style="width: 15%;">Bitumac®</th> <th style="width: 15%;">Greencap</th> <th style="width: 15%;">Pauloid</th> <th style="width: 15%;">Black Paper</th> <th style="width: 20%;">Other (state)</th> </tr> </thead> <tbody> <tr> <td>Roof</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p style="text-align: center;">(tick one or more)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 15%;">Flamestop®</th> <th style="width: 15%;">Tyvek®</th> <th style="width: 15%;">Thermakraft coverup</th> <th style="width: 15%;">FrameGard II</th> <th style="width: 15%;">Greenwrap</th> <th style="width: 15%;">Fastwrap</th> <th style="width: 20%;">Black Paper</th> <th style="width: 20%;">Other (state)</th> </tr> </thead> <tbody> <tr> <td>Wall</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>											Flamestop®	Thermakraft	Bitumac®	Greencap	Pauloid	Black Paper	Other (state)	Roof	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Flamestop®	Tyvek®	Thermakraft coverup	FrameGard II	Greenwrap	Fastwrap	Black Paper	Other (state)	Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	Flamestop®	Tyvek®	Thermakraft coverup	FrameGard II	Greenwrap	Fastwrap	Black Paper	Other (state)																																			
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<b>Wall cladding (only applicable if there is new wall cladding)</b> State type <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Type</th> <th style="width: 20%;">% area</th> <th style="width: 30%;">e.g.</th> <th style="width: 20%;">also plywood, solid plaster(min 18mm), plaster on polystyrene, sheet steel, PVC weatherboard, etc.</th> </tr> </thead> <tbody> <tr> <td>Type .....</td> <td>.....</td> <td>tilt slab, 60%</td> <td></td> </tr> <tr> <td>Type .....</td> <td>.....</td> <td>concrete block, 15%</td> <td></td> </tr> <tr> <td>Type .....</td> <td>.....</td> <td>glazing, 10%</td> <td></td> </tr> <tr> <td>Type .....</td> <td>.....</td> <td>fibre cement, 15%</td> <td></td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">Total 100%</td> <td></td> </tr> </tbody> </table> <p>If yes to Fibre Cement cladding what is the Manufacturer? (tick one or more)  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Hardies <input type="checkbox"/></td> <td style="text-align: center;">BGC <input type="checkbox"/></td> <td style="text-align: center;">CSR <input type="checkbox"/></td> <td style="text-align: center;">PRIMA <input type="checkbox"/></td> <td style="text-align: center;">Other <input type="checkbox"/></td> </tr> </table>                     Fibre Cement Product was used as (Circle one or more)                      Applied texture finish sheet,    Flat sheet,    FC plank,    FC weatherboard/Linea                      If solid plaster, what backing? (circle one if solid plaster)                      fibre cement, plywood,    paper,    Triple S,    block/brick,    metal lathe                 </p>										Type	% area	e.g.	also plywood, solid plaster(min 18mm), plaster on polystyrene, sheet steel, PVC weatherboard, etc.	Type .....	.....	tilt slab, 60%		Type .....	.....	concrete block, 15%		Type .....	.....	glazing, 10%		Type .....	.....	fibre cement, 15%				Total 100%		Hardies <input type="checkbox"/>	BGC <input type="checkbox"/>	CSR <input type="checkbox"/>	PRIMA <input type="checkbox"/>	Other <input type="checkbox"/>					
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## 4.3 Survey Form November 2011

<b>NON-RESIDENTIAL</b>																																																																													
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<b>Type of Building</b> ..... (state type) e.g. Office, school, farm building etc <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right; padding-right: 10px;">New</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="text-align: right; padding-right: 10px;">floor area</td> <td style="border-bottom: 1px solid black; width: 100px;"></td> <td style="text-align: right; padding-right: 10px;">sqm</td> </tr> <tr> <td style="text-align: right; padding-right: 10px;">Addition</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="text-align: right; padding-right: 10px;"></td> <td style="border-bottom: 1px solid black; width: 100px;"></td> <td style="text-align: right; padding-right: 10px;">sqm</td> </tr> <tr> <td style="text-align: right; padding-right: 10px;">Alteration</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="text-align: right; padding-right: 10px;"></td> <td style="border-bottom: 1px solid black; width: 100px;"></td> <td style="text-align: right; padding-right: 10px;"></td> </tr> </table> </div> <div style="width: 55%;"> <b>Number of storeys:</b> .....  <b>Average storey height:</b> ..... m            (describe alteration)         </div> </div>												New		floor area		sqm	Addition				sqm	Alteration																																																							
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<b>Main Structure</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">           Concrete Frame <input style="width: 40px;" type="checkbox"/>            Steel Frame <input style="width: 40px;" type="checkbox"/> </div> <div style="width: 30%;">           Timber Frame <input style="width: 40px;" type="checkbox"/>            Tilt Slab <input style="width: 40px;" type="checkbox"/> </div> <div style="width: 30%;">           Concrete block <input style="width: 40px;" type="checkbox"/>            Other (state) .....         </div> <div style="width: 10%;">           LVL <input style="width: 40px;" type="checkbox"/> </div> <div style="width: 10%;">           Glulam <input style="width: 40px;" type="checkbox"/> </div> </div>																																																																													
<b>Floor Base Material</b> Concrete ..... sqm    Particle Board ..... sqm    Plywood ..... sqm    Other (state) ..... sqm If concrete, have any steel deck trays been used? <b>Yes / No</b> (circle one)																																																																													
<b>Partition Wall Framing</b> (tick one or more) Timber <input style="width: 40px;" type="checkbox"/> Steel <input style="width: 40px;" type="checkbox"/> Concrete <input style="width: 40px;" type="checkbox"/> Other (state) .....																																																																													
<b>Wall Infill Framing (between main frame)</b> (tick one or more) Radiata <input style="width: 40px;" type="checkbox"/> Steel <input style="width: 40px;" type="checkbox"/> Douglas Fir <input style="width: 40px;" type="checkbox"/> Concrete block <input style="width: 40px;" type="checkbox"/> Other (state) .....																																																																													
<b>Prefabrication</b> Are any prefabricated components used? <b>Yes / No</b> If yes, describe applicable component(s) below: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>Prefab Frame</b> .....  <b>Prefab Walls</b> .....         </div> <div style="width: 50%;"> <b>Prefab Floors</b> .....  <b>Prefab Other</b> .....         </div> </div>																																																																													
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<b>Wall Cladding</b> State type and approximate % wall coverage e.g. Fibre cement, 75%    Other examples include: tilt slab, concrete block, steel zincalum, glazing, aluminium, Clay Brick, 15%    radiata WB, linea WB etc. Cedar WB, 10% <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Type .....</td> <td style="width: 10%;">% area .....</td> </tr> <tr> <td>Type .....</td> <td>% area .....</td> </tr> <tr> <td>Type .....</td> <td>% area .....</td> </tr> </table> If Fibre Cement cladding is used, who is the manufacturer?    Hardies <input style="width: 40px;" type="checkbox"/> BGC <input style="width: 40px;" type="checkbox"/> CSR <input style="width: 40px;" type="checkbox"/> PRIMA <input style="width: 40px;" type="checkbox"/> Other <input style="width: 40px;" type="checkbox"/> Eterpan <input style="width: 40px;" type="checkbox"/> 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												Type .....	% area .....	Type .....	% area .....	Type .....	% area .....																																																												
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<b>Roof Cladding (only applicable if there is new roof cladding)</b> What roof cladding was used? (circle one or state below) metal tiles, pre-painted corrugated, trough zincalum, other steel profiles, concrete tiles, butyl, asphalt shingles, other (state) ..... <b>Approx. Roof Area:</b> ..... sqm Type of roof structure    Timber <input style="width: 40px;" type="checkbox"/> Steel <input style="width: 40px;" type="checkbox"/> Concrete Slab <input style="width: 40px;" type="checkbox"/>																																																																													
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## 4.4 Survey Form December 2014

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											
<b>Type of Building</b> _____ (state type) e.g. Office, school, farm building etc <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">tick</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> <div style="text-align: right; padding-right: 5px;">floor area</div> </div> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">New</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">sqm</div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Addition</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">sqm</div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Alteration</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">(describe alterations)</div> </div> </div> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Number of storeys:</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Average storey height:</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> <div style="text-align: right; padding-right: 5px;">m</div> </div> </div> </div>											
<b>Are you claiming "green" building features? Yes / No</b> <b>If Yes, what type?</b> _____											
<b>Main Structure</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Concrete Frame</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Steel Frame</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Timber Frame</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Tilt Slab</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Concrete Block</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Insulated Panel</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">LVL</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Glulam</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> </div>											
<b>Floor Base Material</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Concrete</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> <div style="text-align: right; padding-right: 5px;">sqm</div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Particle Board</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> <div style="text-align: right; padding-right: 5px;">sqm</div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Plywood</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> <div style="text-align: right; padding-right: 5px;">sqm</div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> <div style="text-align: right; padding-right: 5px;">sqm</div> </div> </div> </div> <div style="padding-top: 5px;">         If concrete, have any steel deck trays been used?      <b>Yes / No</b>      (circle one)       </div>											
<b>Partition Wall Framing</b> (tick one or more) <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Timber</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Steel</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Concrete</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 40%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> </div>											
<b>Wall Infill Framing (between main frame)</b> (tick one or more) <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Radiata</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Steel</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Douglas Fir</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Concrete block</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 40%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> </div>											
<b>Prefabrication</b> Are any prefabricated components used? <b>Yes / No</b> If yes, describe applicable component(s) below: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>Prefab Frame</b>  <b>Prefab Walls</b> _____         </div> <div style="width: 45%;"> <b>Prefab Floors</b>  <b>Prefab Other</b> _____         </div> </div>											
<b>Insulation</b> (tick one or more) <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">None</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Pink Batts</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Bradford Gold</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Premier</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Knauf Earthwool</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Autex Greenstuf</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other Polyester</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Wool</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Polystyrene</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> </div> <div style="padding-top: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Expol</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Polystyrene (not Polythene)</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Pink Batts</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Sisalation</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Waffle Pod</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> </div> </div> <div style="padding-top: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">None</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Warmfeet</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Under Slab</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Snug Floor</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Foil</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Floor</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Cupolex</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> </div> </div>											
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <b>Insulation Installer (name)</b> _____         </div> <div style="width: 20%;"> <b>Builder</b> _____         </div> <div style="width: 40%;"> <b>Other (please specify)</b> _____         </div> </div>											
<b>Building Wraps</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Flamestop</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Thermakraft</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Bitumac</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">CoverTek</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Pauloid</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Tyvek Supro</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Watergate plus</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Tekton</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> </div>											
(tick one or more) <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Flamestop</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Tyvek</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Thermakraft</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Coverup</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Home RAB</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Fastwrap</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Watergate</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Tekton</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Ecoply Barrier</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Bitumac</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 10%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Pauloid</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> </div>											
<b>Wall Cladding</b> State type and approximate % wall coverage e.g.      Concrete block, 75%      Other examples include: tilt slab, concrete block, steel zincalume, glazing, aluminium, Clay Brick, 15%      radiata WB, linea WB etc. Cedar WB, 10% <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Type</div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">% area</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Type</div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">% area</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> <div style="width: 45%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Type</div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">% area</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> </div> <div style="padding-top: 5px;"> <b>If Fibre Cement product, what is it used as? (circle one)</b>      Applied texture finish sheet, Flat sheet, FC plank (7.5mm), Lines (16mm)       </div>											
<b>Wet Area Linings</b> (bathroom, kitchen, laundry etc) Please state the approximate square metres used <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Formica Aquapanel</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">m<sup>2</sup></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Seratone</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">m<sup>2</sup></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Villaboard</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">m<sup>2</sup></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Hardiglaze</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">m<sup>2</sup></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">GIB</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">m<sup>2</sup></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Aqualine</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> <div style="text-align: right; padding-right: 5px;">m<sup>2</sup></div> </div> </div> <div style="width: 20%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Other (state)</div> <div style="border-bottom: 1px solid black; width: 50px;"></div> </div> </div> </div>											
<b>Roof Cladding (only applicable if there is new roof cladding)</b> <b>What roof cladding was used? (circle one or state below)</b> metal tiles, pre-painted corrugated, trough zincalume, other steel profiles, concrete tiles, butyl, asphalt shingles, other (state) _____ <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <b>Approx. Roof Area:</b> _____ sqm         </div> </div>											
<b>Type of roof structure</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Timber</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 30%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Steel</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> <div style="width: 40%;"> <div style="display: flex; align-items: center;"> <div style="text-align: right; padding-right: 5px;">Concrete Slab</div> <div style="border: 1px solid black; width: 30px; height: 20px; margin: 2px;"></div> </div> </div> </div>											
Thank you. Please fold this form, and freepost it in the return envelope											