

# WALLS WALLS WALLS

INTER-TENANCY BS/EN FIRE INTERNAL AUSTRALIA ACOUSTIC  
NEW ZEALAND ASTM:E84 AS1530.1-2014 ASTM:E84  
ASTM:E119

WATER RESISTANT RAINSCREEN UAE AUSTRALIA ACOUSTIC  
ASTM:E84 BUSHFIRE UAE AS1530.4-2014 Façade

PREFABRICATED RAINSCREEN UAE AMERICA AND USA  
ASTM-E119 BS/EN476 UAE INTER-TENANCY NEW ZEALAND

ISO:8336 CLADDING UAE INTER-TENANCY NEW ZEALAND  
ASTM-E119 SIP PANEL UAE ISO:8336 CLADDING RAINSCREEN

WATER RESISTANT IRELAND UAE RESIDENTIAL  
ASTM-E119 RAINSCREEN INTER-TENANCY NEW ZEALAND

COMMERCIAL UAE INTER-TENANCY NEW ZEALAND  
ASTM-E119 RAINSCREEN ISO:8336 CLADDING RAINSCREEN

BOUNDARY UAE INTER-TENANCY NEW ZEALAND  
ASTM-E119 RAINSCREEN ISO:8336 CLADDING RAINSCREEN

ASTM-E119 RAINSCREEN ISO:8336 CLADDING RAINSCREEN



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ASTM-E119 RAINSCREEN ISO:8336 CLADDING RAINSCREEN

# INTRODUCTION

## MANUFACTURER OF HIGH PERFORMANCE MAGNESIA CEMENT BUILDING MATERIALS:

**Patent No. 2016240394**, **Patent No. 2980948** and **Patent No. 2553700 B** for the Manufacturing of Cellulose Fibre Reinforced Magnesia Cement Lining Products: **Patent No. 2019101232**: for the Manufacture of Lamination / Composite of Magnesia Cement Lining Products:  
**Patent No. 2017268709** for the Manufacturer of Façade Cladding Assembly:

**Established in 2008**, ResCom® (CMC) has been manufactured and supplied successfully throughout the world and is not an alternative building material under international building codes. ResCom® Building Products are not to be confused with common MgO products that do not carry Independent ISO: 8336 Compliance.

ResCom® (CMC) is independently certified under ISO: 8336 Standards as a Fibre Reinforced Flat sheet Cement board.

The Global National Construction Codes (NCC) recognises building materials that meet ISO8336 Standards and is very clear throughout Volume 1 & 2 of approved applications of products that carry the ISO:8336 or Equivalent Certification.

A search of Volume 1 & 2 of the Australian NCC: 2022 will reveal 68 results and 7 pages that directly link to ISO8336 compliant materials uses in building and construction. (Search ISO8336)

RGBP Global Group has placed a solid emphasis on compliance with ISO Standards so as to establish a solid foundation for our international compliance for manufacturing and the performances of our fit for purpose building materials. (see attached ResCom® (CMC) Testing Register)

Given that RGBP Manufactures and Exports our ResCom® (CMC) building materials to international markets, it is also important to adhere to testing protocol's that are immediately recognised to compliance and certification bodies.

This is achieved by using International Laboratories Accreditation Cooperation (ILAC) testing facilities that are operating in accordance with ISO/IEC17011 and involved in the accreditation of conformity assessment bodies including calibration laboratories (using ISO/IEC 17025), testing laboratories (using ISO/IEC 17025).

This assures that all RGBP Testing is Mutually Recognised and accepted by all the ILAC MRA signatories.



A search of Volume 1 & 2 of the NCC: 2022 will reveal 6 results that directly link to the acceptance of ILAC accredited testing under NATA in Australia and New Zealand's building codes.

In America, the IRC and IBC 2021 have changed the language just to confuse the rest of the world by referring to Fibre Cement Boards as Cellulosic Fibre Insulating Board, under ASTM C208-12(2017) e1 and removed the reference to the international recognised standards of ISO: 8336 all in which has the same meaning and criteria.

In review of the IBC 2021 section 703.3.1 I also confirm that the proposed use of ResCom (CMC) lining board meets and exceeds the requirements as noted under EXCEPTION: **Materials having a structural base of non-combustible material as determined in accordance with ASTM E136, or with ASTM E2652 using the acceptance criteria prescribed by ASTM E136, with a surfacing of not more than 0.125 inch (3.18 mm) in thickness having a flame spread index not greater than 50 when tested in accordance with ASTM E84 or UL 723 shall be acceptable as non-combustible.**

The RGBP Group of Companies, our global agents and distribution partners are dedicated to manufacturing and delivering to the Building and Construction Industry our range of ResCom® (CMC) products, goods and services that will deliver healthier, safer, more sustainable and more affordable for generations to come.

Yours Sincerely

**Senior Technical Advisor**

**Dr : Stephin-John**

DIntBusA, DipBus, DipBusMgt, AdvDipProjMgt

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🌐 [www.rescombp.com](http://www.rescombp.com)

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# PRODUCT TECHNICAL STATEMENT



COMPANY:	RESCOM® BUILDING PRODUCTS PTY LTD, RESCOM® BUILDING PRODUCTS LLC	
PRODUCT NAME:	ResCom® (CMC) Wall, Ceiling & Flooring Board	
TYPE AND/OR USE OF PRODUCT:	Cellulose Magnesia Cement (CMC) Board used for Internal & External Wall Linings	
DESCRIPTION OF PRODUCT:	8mm, 10mm, 12mm, 14mm, 16mm, 18mm 20mm Cellulose Magnesia Cement Board Used in construction as an internal or external wall, ceiling lining & Flooring board	
FIBRE-CEMENT FLAT SHEET PERFORMANCE REQUIREMENTS TO ISO:8336 STANDARDS:	EN 12467:2012+A1:2016 (E); EN 317:1993 EN 12467:2012+A1:2016 EN 12467:2012+A1:2016 EN 12467:2012+A1:2016 (E) EN 12467:2012+A1:2016	(E) Sections 5.4.4 and 7.3.2 (E) Sections 5.5.2 and 7.4.1 (E) Sections 5.5.3 and 7.4.2 (E) Sections 5.4.5 and 7.3.3 (E) Sections 7.3.3
REF DOCUMENTS: NCC:2022 BBA:2022, IRC AND IBC 2021	NCC 2022: Volume One - Complies with AS/NZS 2908.2 or ISO:8336 1993E	NCC 2022: Volume Two - Complies with AS/NZS 2908.2 or ISO:8336 1993E

*Stefan Ossenberg*

Representative Name

**Signature:**

**Certification Company Name:** PCME Certifications

**ABN:** 15818404064

**Address:** PO Box 4721 Sunshine Coast MC 4560

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🌐 www.pcmecertifications.com



## DECLARATION OF CONFORMITY IS ISO 17050:2018 COMPLIANT

### ResCom® (CMC) Internal and External Wall Linings ResCom® (CMC) Structural Flooring

This Declaration of Conformity is for ResCom® Internal & External Wall Linings in 4mm, 6mm, 8mm, 10mm, 12mm, 14mm, 16mm Panels and ResCom® Structural Flooring 18mm and 20mm Panel thicknesses with an approximate density of 0.95 to 1.40g/cm<sup>3</sup>. ResCom® Wall Panels and Flooring Panels are approved for residential, commercial, and industrial building and construction; partition walls; internal and external sheathing; common finishes; decorative finishes, suspended and acoustical ceilings; XPS/EPS sandwich panels; barge boards; structural load bearing flooring and fire separation panels. The standard production finish is smooth on one side, with a backer or sand finish on the other.

#### CONTENT INVENTORY

Product Threshold | 1000 ppm

#### PRODUCT SPECIFICATION

ResCom® (CMC) Panels can be a substitution for the following product categories:

- 07 Division, Cementous Board
- 09 Division, Drywall & MDF
- 06 Division Wood & Composite Panels
- 06 Division Sheathing

This declaration excludes any decorative finishes applied to the panels as manufactured or otherwise. Such excluded finishes include wood veneer, wood grain paper veneer, plastic film or PVC, adhesives, or any applied coatings used to treat the panels for water impermeability or UV resistance.

## DECLARATION

This Declaration of Conformity is ISO 17050:2018 compliant. All materials were screened, and their relevant GreenScreen Score has been applied, either the List Translator Score or the actual GreenScreen assessment results. Every effort was made to provide the best information possible, and any errors shall be listed as human errors. All product contents were disclosed to 0.01% or 100 ppm. Ranges larger than 10% were added to disguise intellectual property.

Any questions can be directed to the contact provided at the end of the document. Any changes in formulas will trigger a change in this declaration; therefore, the declaration shall be considered valid as published.

CAS RN	INGREDIENT NAME	% COMPOSITION	GREENSCREEN SCORE	ROLF
1309-48-4	Magnesium oxide	45-65	BM-3dg	Binder
Undisclosed	Undisclosed	20-40	LT-P1	Flame retardant
Undisclosed	Undisclosed	6-20	LT-UNK	Tensile strength additive
Undisclosed	Undisclosed	4-18	LT-UNK	Filler
Undisclosed	Undisclosed	2-10	LT-UNK	Water resistance
Undisclosed	Undisclosed	0.01-1	LT-UNK	Film former
Undisclosed	Undisclosed	0.01-1	BM-4	Diluent
Undisclosed	Undisclosed	0.01-1	LT-UNK	Filler
Undisclosed	Undisclosed	0.01-1	LT-P1	Flame retardant

## SCREENING NOTES

This content inventory is based on primary information from ResCom®. Ranges were used to cover the contents as the formulations also vary as ResCom® considers the exact percentage of composition to be intellectual property. All information is disclosed as the “worst case” scenario and shall be viewed for informational purposes only. The exact composition is known only through extensive testing.

This declaration shall fulfill the LEED v4.1, MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.

Respectfully,

**Denice Viktoria Staaf**

LEED AP BD+C, Fitwel Ambassador, EPD & HPD Approved Preparer,  
 ESG Consultant and Circularity Expert

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**Title:** Technical Director

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## RESCOM® CMC ISO:8336 COMPLIANCE TEST REGISTER

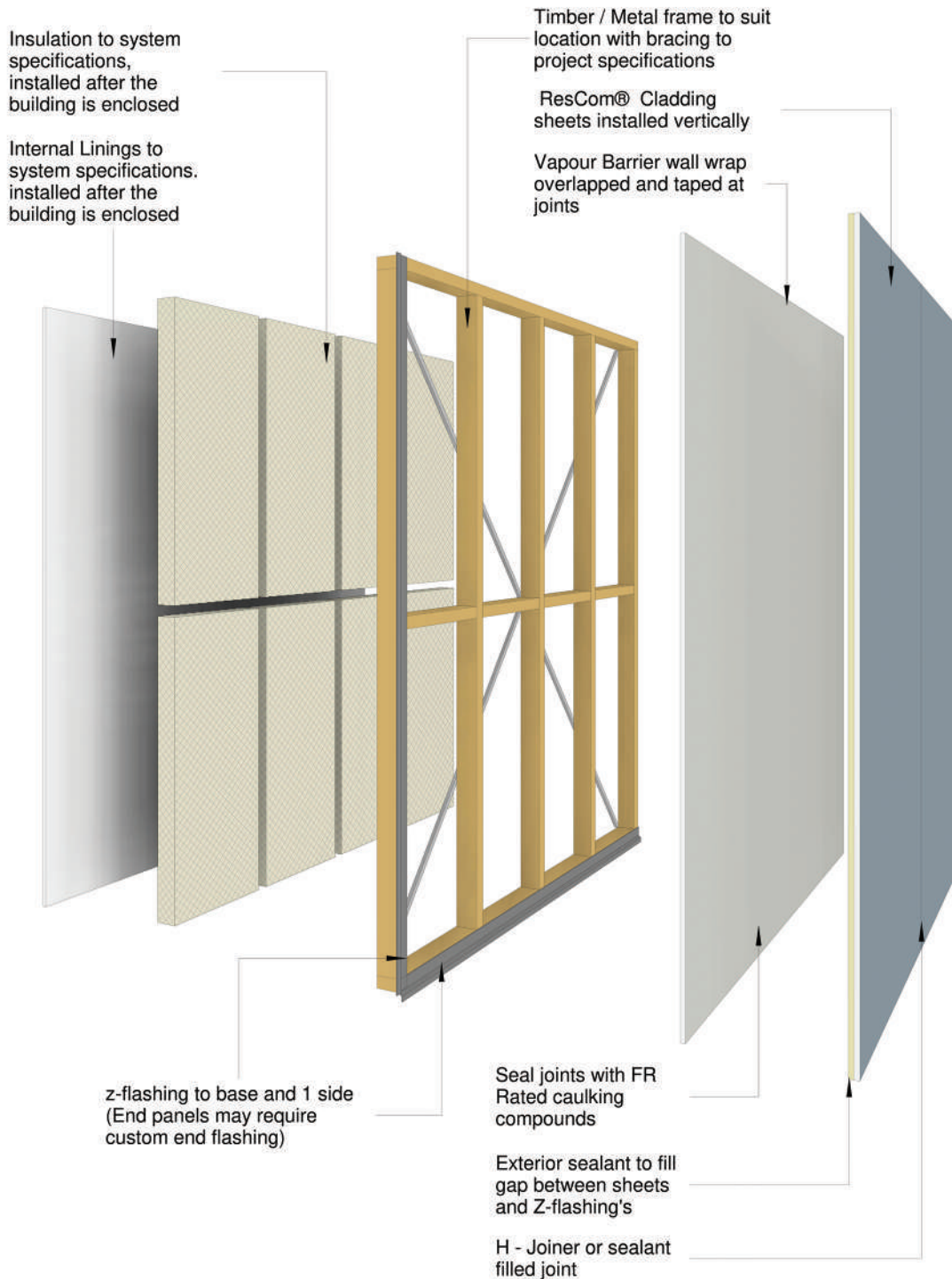
Physical Properties	Testing Standard	Performance	Condition
Reaction to fire: 10mm W&C Lining	AS ISO 9239.1-2003 Part 1	0/0/0/0	HF-30(kW/m <sup>2</sup> )
Reaction to fire: 20mm SF	AS ISO 9239.1-2003 Part 1	0/0/0/0	HF-30(kW/m <sup>2</sup> )
Flame Spread & Combustibility	AS/NZS: 1530.1: 2014	Class A	As per test standards
Flame Spread & Combustibility	AS/NZS 3837:1998	Class A	As per test standards
Flame Spread & Combustibility	ASTM E84	Class A	As per test standards
Flame Spread & Combustibility	ASTM E2768-11	Class A	As per test standards
Flame Spread & Combustibility	BS 476: Part 4	Class One	As per test standards
Flame Spread & Combustibility	BS 476: Part 5	Class One	As per test standards
Flame Spread & Combustibility	BS 476: Part 6	Class One	As per test standards
Flame Spread & Combustibility	BS 476: Part 7	Class One	As per test standards
Flame Spread & Combustibility	BS 476: Part 11	Class One	As per test standards
Flame Spread & Combustibility	ISO 5660-1:2002	Class A1 & Afl	As per test standards
Flame Spread & Combustibility	EN ISO 1182-210	Class A1 & Afl	As per test standards
Determination to heat combustion	EN ISO 1716-2010	Class A1 & Afl	As per test standards
Non Combustibility	ISO 13501-1:2007+A1:20029	Class A1	As per test standards
Non Combustibility	ISO 13501-1:2007+A1:20029	Class Afl	As per test standards
FRL Systems Performance	BS 476: Part 21: 1987	102/102/71	As per test standards
FRL Systems Performance	BS 476: Part 22	>30min to <240min	As per test standards
FRL Systems Performance	ASTM E119	>30min to <240min	As per test standards
FRL Systems Performance	AS/NZS 1530: Part 4: 2014	>30min to <240min	As per test standards
FRL Systems Performance	AS/NZS:5113	Pass	As per test standards
Thermal Resistance m <sup>2</sup> .K/W	0.027 & 0.045	ASTM C518-10	As per test standards
Thermal Conductivity W/mk	0.44	ASTM C518-10	As per test standards
Calorific Value	UNE-EN ISO1716 & 1182:2011	0.1092 to 0.2554	As per test standards
Water Impermeability Category A	EN 12467:2012	Pass	As per test standards
Vapour Permeability Category D	EN 12467:2012 Sec 5.4.6 & 7.3.4	u=80	As per test standards
Freeze-Thaw Category A	EN 12467:2012 Sec 5.5.2 & 7.4.1	Pass	As per test standards
Heat Rain Category A	EN 12467:2012 Sec 5.5.3 & 7.4.2	Pass	As per test standards
Soak-Dry Category A	EN 12467:2012 Sec 5.5.5 & 7.3.6	Pass	As per test standards
Swelling & Thickness	EN 317:1993	<0.2%	Wet
TVOC, Formaldehyde	ISO 16000-3, 6,9 & 11: 2006 & 2011	Zero	As per test standards
Dimensional conformance	ASTM C1185-08 (2012)	Pass	As per test standards
Density in kg/m <sup>3</sup>	ASTM C1185-08 (2012)	1000	As per test standards
Water tightness	ASTM C1185-08 (2012)	Pass	As per test standards
Water absorption	ASTM C1185-08 (2012)	<13.2%	As per test standards
EQ Moisture content	ASTM C1185-08 (2012)	<5%	As per test standards
"Moisture movement 30-90% relative humidity" "	ASTM C1185-08 (2012)	0.064	As per test standards
"Humidified deflection (mm) 32c,40%RH, 48hrs "	ASTM C1185-08 (2012)	2.18	As per test standards
Average Bending Strength FL	ASTM C1185-08 (2012)	>14Mpa	Wet
Average Bending Strength Wall	EN 12467:2012 Sec 5.4.4 & 7.3.2	>12Mpa	Wet
Transverse Load-Roof: 10, 12, 16mm	ASTM E72-22 Section 12 & 20	Pass	Test load 4.45kN
Concerntated load-Roof 10, 12, 16mm	ASTM E72-22 Section 13 & 21	Pass	Test load 4.45kN
Transverse Load-Roof: 20mm SF	ASTM E72-22 Section 12 & 20	Pass	Test load 4.45kN
Concerntated load-Roof: 20mm SF	ASTM E72-22 Section 13 & 21	Pass	Test load 4.45kN

# OVERVIEW OF WALL ASSEMBLIES GUIDE





# BASE OVERVIEW OF RESCOM FRL EXTERNAL WALL ASSEMBLY



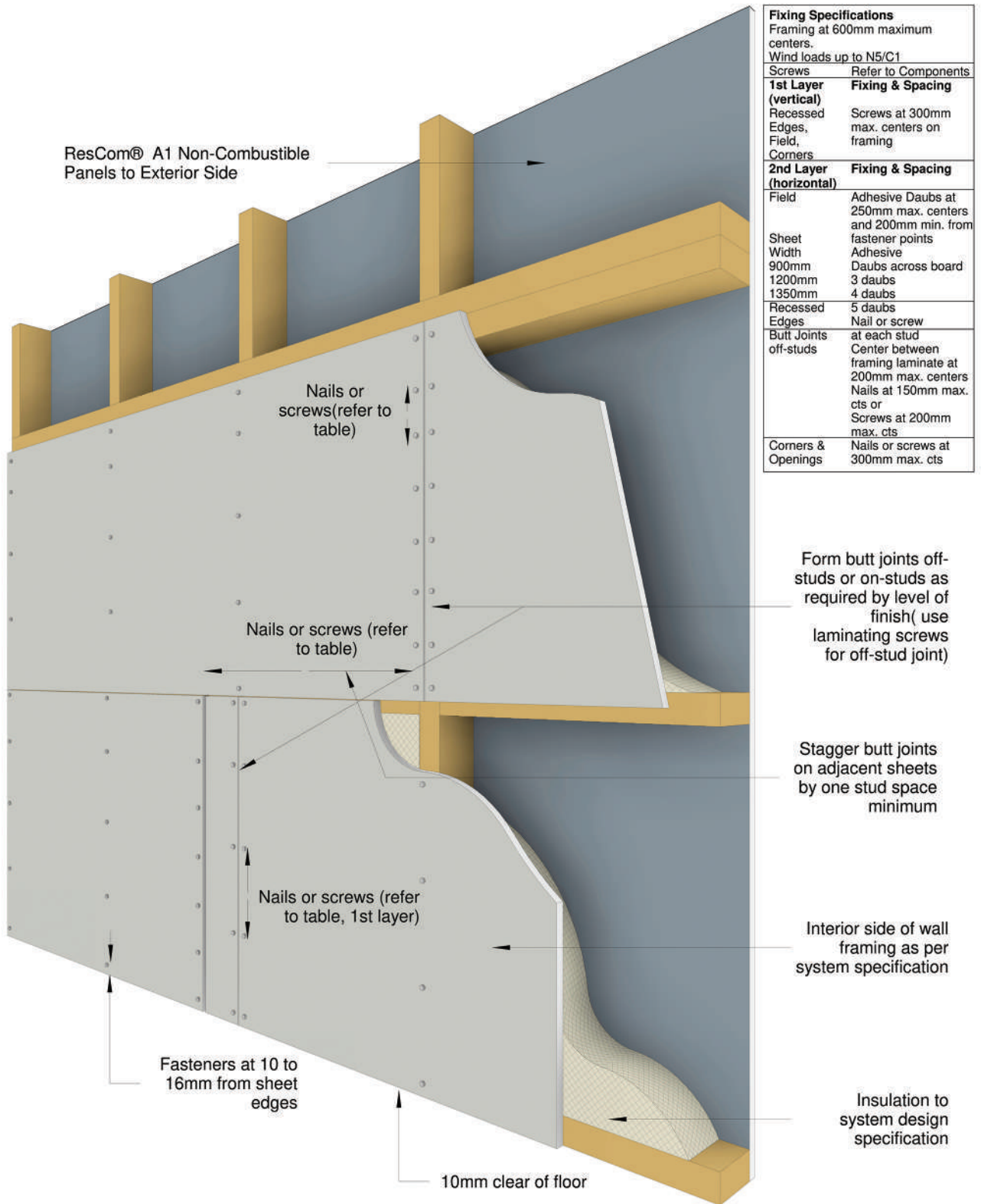
**ResCom®**

ABC-D1

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# HORIZONTAL SHEETING-FASTENER FIXING GUIDE

ResCom® (CMC) CMC A1 non Combustible Exterior Cladding @ Drywall Interior lining



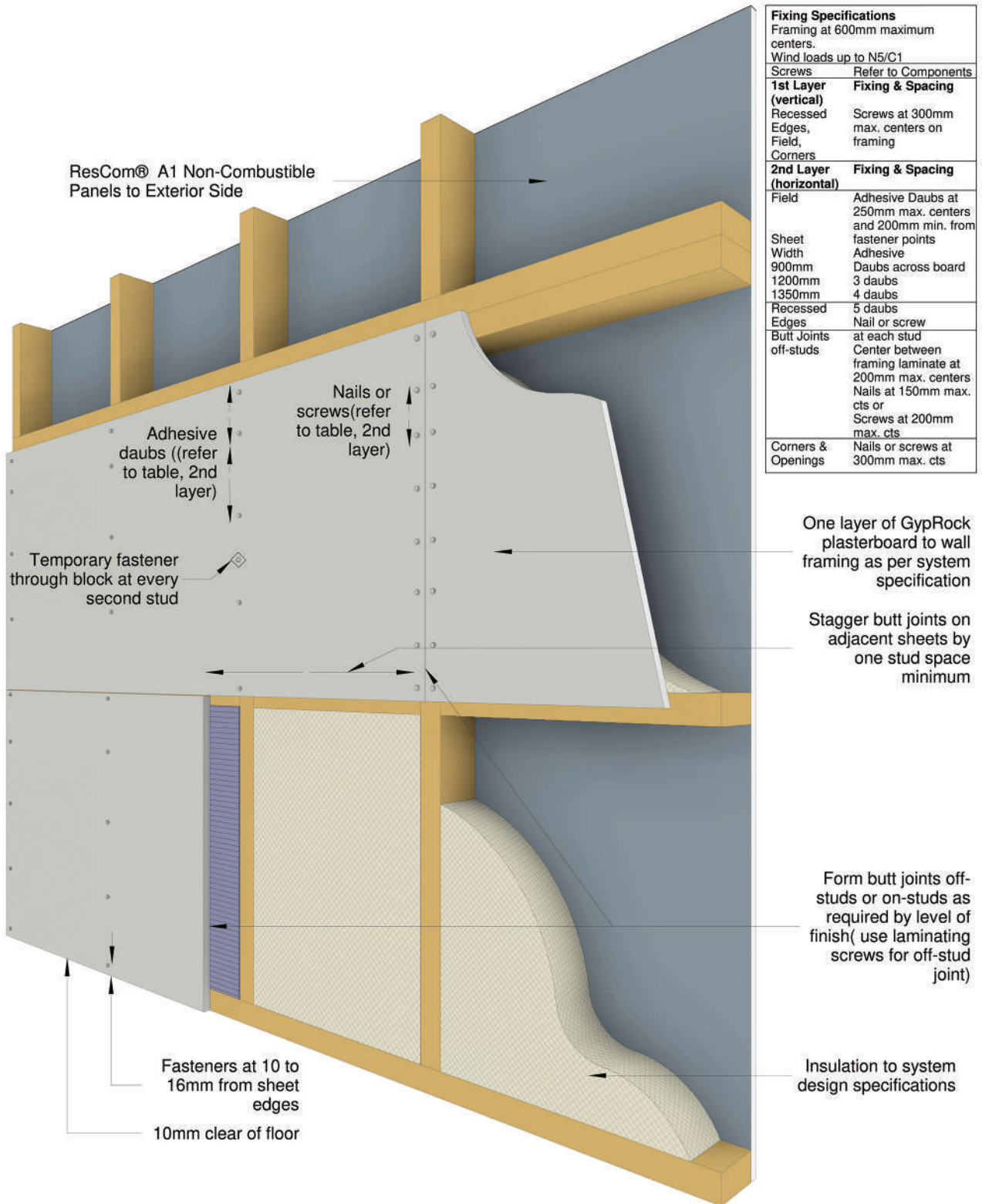
**ResCom®**

ABC-D2

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# HORIZONTAL SHEETING-FASTENER FIXING GUIDE

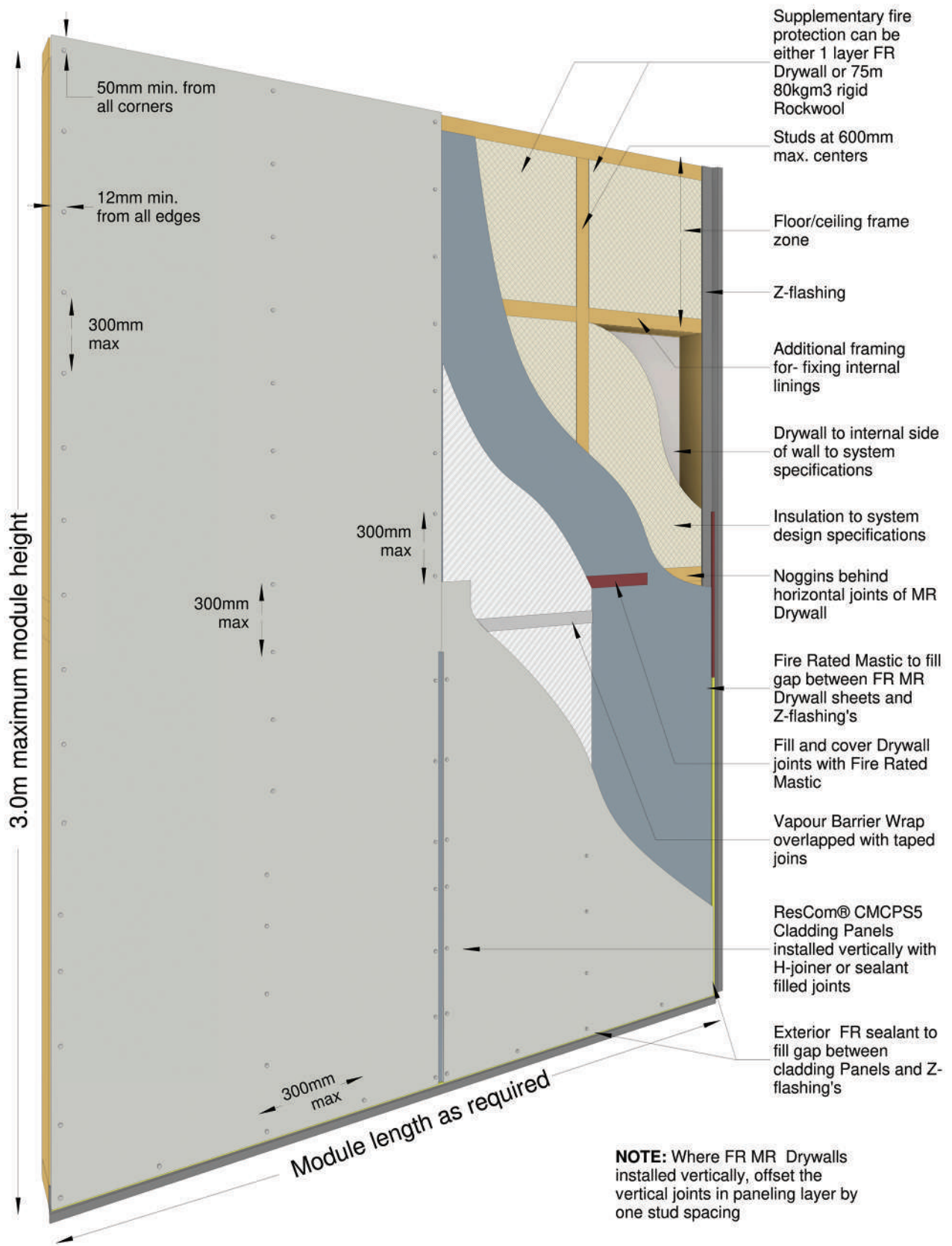
## ResCom® (R) CMC A1 Exterior Cladding & Drywall Interior lining



**ResCom®**

ABC-D3

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**NOTE:** Where FR MR Drywalls installed vertically, offset the vertical joints in paneling layer by one stud spacing

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# BUSHFIRE / WILDFIRE BAL-FZ WALL SYSTEM

## Single Direction Non-Combustible System Configuration: Tested to AS:1530.1-2014 & AS1530.4-2014

**STEP 1**

**Exterior Lining:**

1 x layer 9mm ResCom® (CMC) PS5 Board applied to structural timber or metal framework in compliance AS1684 and AS1720.1 Residential Timber-Framed Construction, AS/NZS4600 - Cold-Formed Steel Structures and NASH guidelines with a minimum stud depth of 90mm and maximum vertical stud spacing of 600mm. ResCom® (CMC) cladding can be nail fixed or screw fixed to the timber or metal framing as per the manufacturer's guidelines.

**STEP 2**

Apply breathable vapor barrier wrap as per AS/NZS4200.2 of the National Construction Code and installed as per the manufacturer's guidelines.

**STEP 3**

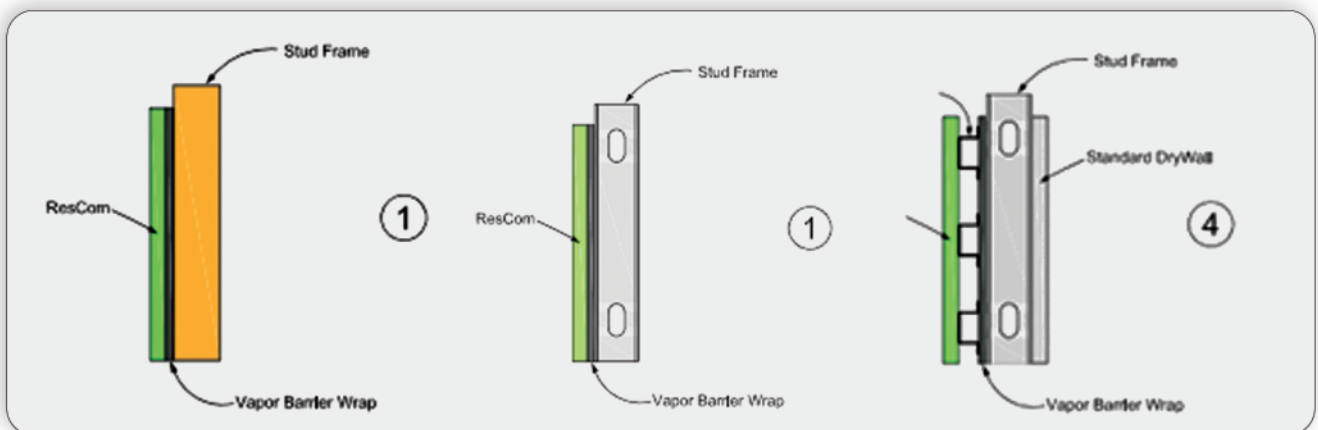
Apply minimum of R2.5 Earthwool or 50kgm<sup>3</sup> Rigid Rockwool in the cavity void.

**STEP 4**

Interior Lining: 1 x layer 10mm standard plasterboard.

**STEP 5**

All joints and junctions are to be caulked with a suitable fit for purpose caulking compound. When utilising ResCom® ShipLap joints there is no requirement to tape the sealed ShipLap joints.



System #	FRL	Lining 1	Lining 2	Min Stud	Dimension	Insulation	Rw+Ctr
RBW-1	30/30/30	9mm	-	70x35 T/S	79mm	-	TBA
RBW-2	60/60/60	9mm	10mm (PB)	70x35 T/S	89mm	70mm x R2.5 Earthwool	TBA
RBW-3	90/90/90	12mm	12mm	70x35 T/S	94mm	70mm x 80kgm <sup>3</sup> Rockwool	TBA
RBW-4	-/120/120	12mm	12mm	90x35 T/S	114mm	90mm x 140kgm <sup>3</sup> Rockwool	TBA
RBW-5	-/180/180	16mm	16mm	90x35 T/S	122mm	90mm x 140kgm <sup>3</sup> Rockwool	TBA
RBW-6	-/240/240	2 x 16mm	2 x 16mm	150x35 T/S	214mm	150mm x 180kgm <sup>3</sup> Rockwool	TBA

# BOUNDARY / INNER-TENANCY WALL SYSTEM

## Bidirectional FRL 60/60/60 System Configuration: Tested to AS:1530.1-2014 & AS1530.4-2014

STEP 1

### Exterior / Interior Lining:

1 x layer 9mm ResCom® (CMC) applied to structural timber or metal framework in compliance with AS1684 and AS1720.1 Residential Timber-Framed Construction, AS/NZS4600 - Cold-Formed Steel Structures and NASH guidelines with a minimum internal stud wall depth of 70mm and external stud wall depth of 90mm with maximum vertical stud spacing of 600mm. ResCom® (CMC) cladding can be nail fixed or screw fixed to the timber or metal framing as per the manufacturer's guidelines.

STEP 2

Apply breathable vapor barrier wrap as per AS/NZS4200.2 of the National Construction Code and installed as per the manufacturer's guidelines. (not required for internal wall or ceiling systems).

STEP 3

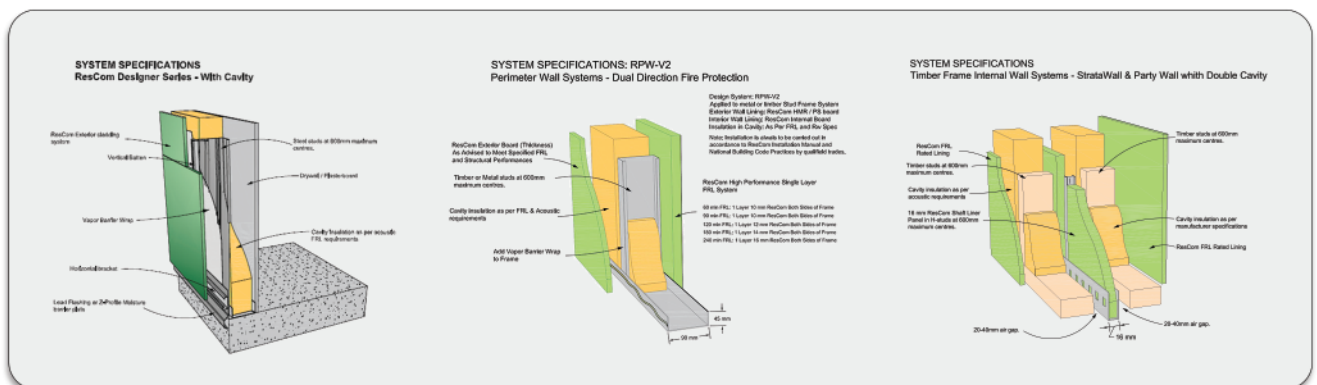
Apply minimum of R2.5 Earthwool or 50kgm3 Rigid Rockwool in the cavity void.

STEP 4

Interior Lining: 1 x layer 9mm ResCom® Board / 1 x layer of 13mm FR plasterboard.

STEP 5

All joints and junctions are to be caulked with a suitable fit for purpose caulking compound. When utilising ResCom® ShipLap joints there is no requirement to tape the sealed ShipLap joints.



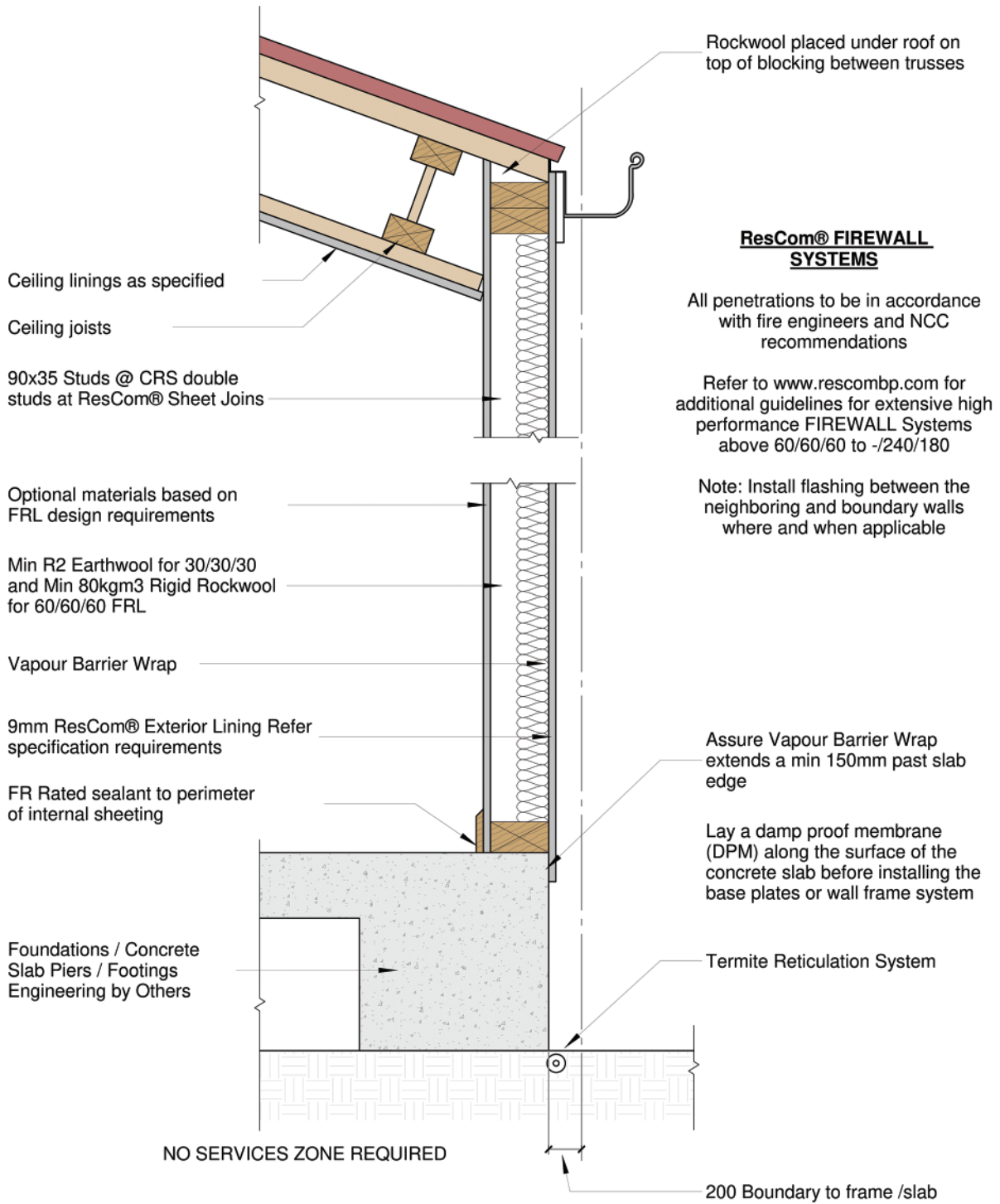
System #	FRL	Lining 1	Lining 2	Min Stud	Dimension	Insulation	Rw+Ctr
RIW-10	30/30/30	9mm	-	70x35 T/S	79mm	-	TBA
RIW-11	60/60/60	10mm	10mm	70/35 T/S	90mm	70mm x R2.5 Earthwool	TBA
RIW-12	-/90/90	12mm	12mm	70x35 T/S	94mm	70mm x 80kgm3 Rockwool	TBA
RIW-13	-/120/120	12mm	12mm	90x35 T/S	114mm	90mm x 140kgm3 Rockwool	TBA
RIW-14	-/180/180	16mm	16mm	90/35 T/S	122mm	90mm x 140kgm3 Rockwool	TBA
RIW-15	-/240/240	2 x 16mm	2 x 16mm	150x35 T/S	214mm	150mm x 180kgm2 Rockwool	TBA
RSL-16	-/60/60	10mm PB	16mm SL	90x35 T/S	116mm	-	TBA
RSL-17	-/90/90	2 x 10mm PB	16mm SL	2 x 70x35 T/S	216mm	140mm x 50kgm3 Rockwool	TBA

# BOUNDARY WALL SYSTEMS GUIDE



# ZERO BOUNDARY WALL TO ROOF DETAIL

**EXTREME FIRE ZONES EXCEEDING BAL/FZ**  
**FRL SYSTEMS: 30/30/30, 60/60/60, 120/120,120**



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# BOUNDARY PARTITION FLOOR TO ROOF WALL DETAIL: TWO-STORY

45mm thick timber pole plate  
or as per design engineers  
specifications

Ceiling linings as specified

MinR2 Earthwool for 30/30/30 and  
Min 80kgm3 Rigid Rockwool for  
60/60/60 FRL

Vapour Barrier Wrap

90x35 M12 or 72x35x.75Bmt  
LGS frames with double stud  
at 1200mm CRS

9mm ResCom® Exterior Lining  
Refer specification requirements

Optional materials based on  
FRL design requirements

FR Rated sealant to perimeter  
of internal sheeting

45mm thick timber pole plate  
or as per design specifications  
engineer

Ceiling linings as specified

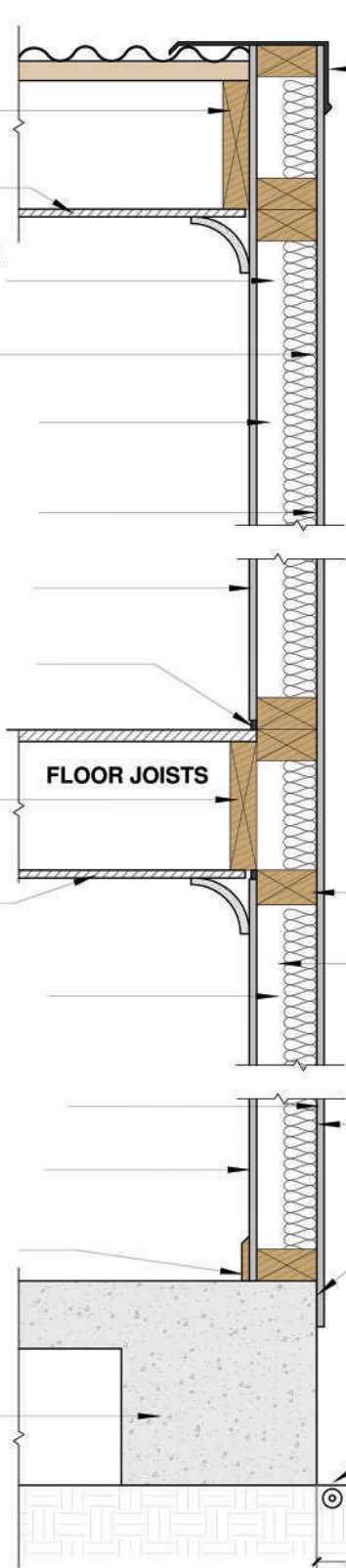
Min R2 Earthwool for 30/30/30  
and Min 80kgm3 Rigid Rockwool  
for 60/60/60 FRL

9mm ResCom® Exterior Lining  
Refer specification requirements

Optional materials based on  
FRL design requirements

FR Rated sealant to perimeter  
of internal sheeting

Foundations / Concrete Slab  
Piers / Footings Engineering  
by Others



Capping and flashing

Timber or LGS Framing as  
specified by others

### ResCom® FIREWALL SYSTEMS

All penetrations to be in accordance  
with fire engineers and NCC  
recommendations

Refer to [www.rescombp.com](http://www.rescombp.com) for  
additional guidelines for extensive high  
performance FIREWALL Systems  
above 60/60/60 to -/240/180

Note: Install flashing between the  
neighboring and boundary walls  
where and when applicable

Noggin

90x35 M12 or 72x35x.75Bmt  
frames with double stud  
at 1200mm

Vapour Barrier Wrap

Assure Vapour Barrier Wrap  
Extends a min 150mm past slab edge

Lay a damp proof membrane  
(DPM) along the surface of the  
concrete slab before installing the  
base plates or wall frame system

Termite Reticulation System

NO SERVICES ZONE REQUIRED

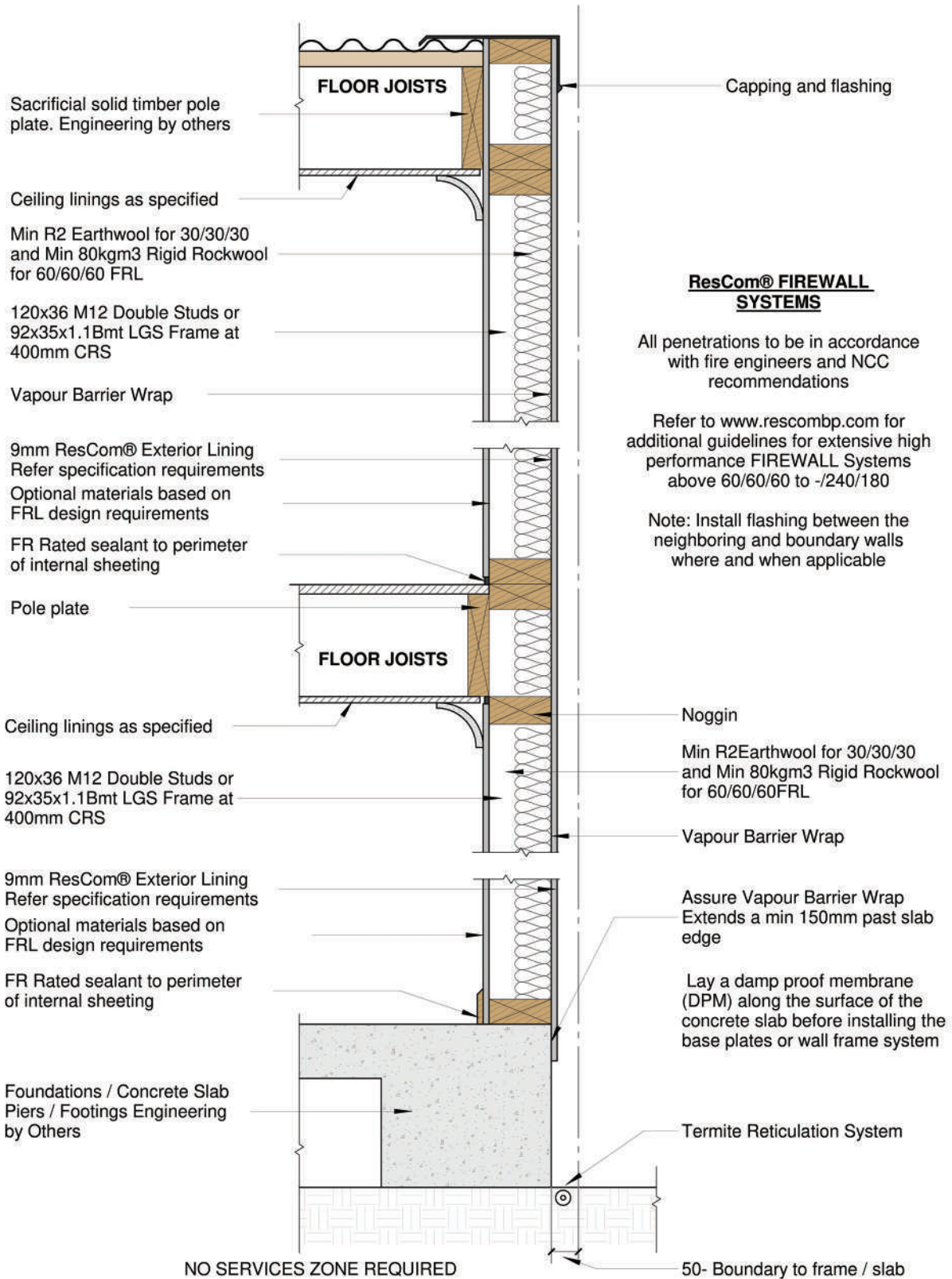
50- Boundary to frame / slab

**ResCom®**

**BWS-D2**

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# 120 PARTITION WALL TO ROOF DETAIL



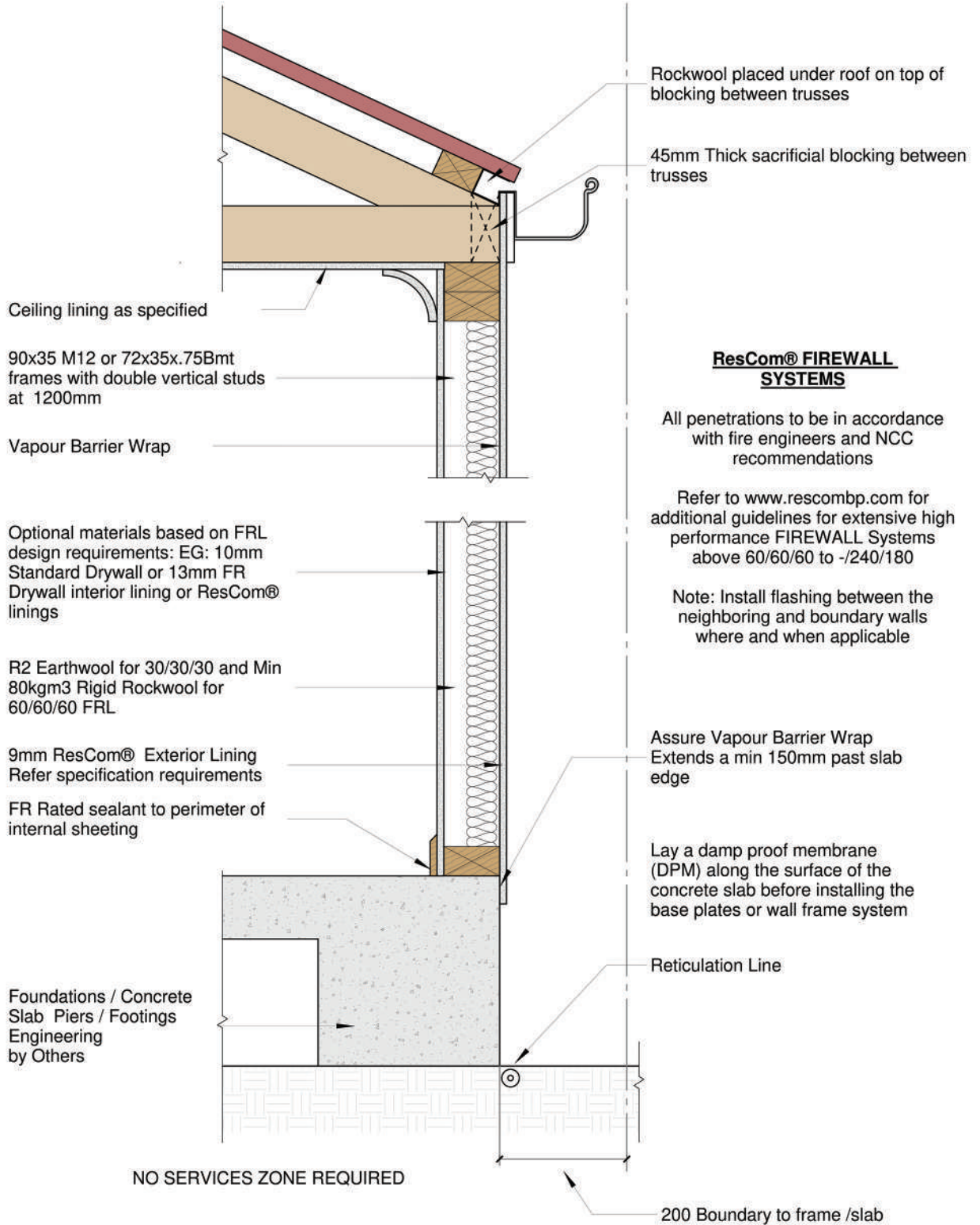
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# BOUNDARY FIRE WALL CONSTRUCTION GUIDE

## FRL SYSTEMS: 30/30/30, 60/60/60



### **ResCom® FIREWALL SYSTEMS**

All penetrations to be in accordance with fire engineers and NCC recommendations

Refer to [www.rescombp.com](http://www.rescombp.com) for additional guidelines for extensive high performance FIREWALL Systems above 60/60/60 to -/240/180

Note: Install flashing between the neighboring and boundary walls where and when applicable

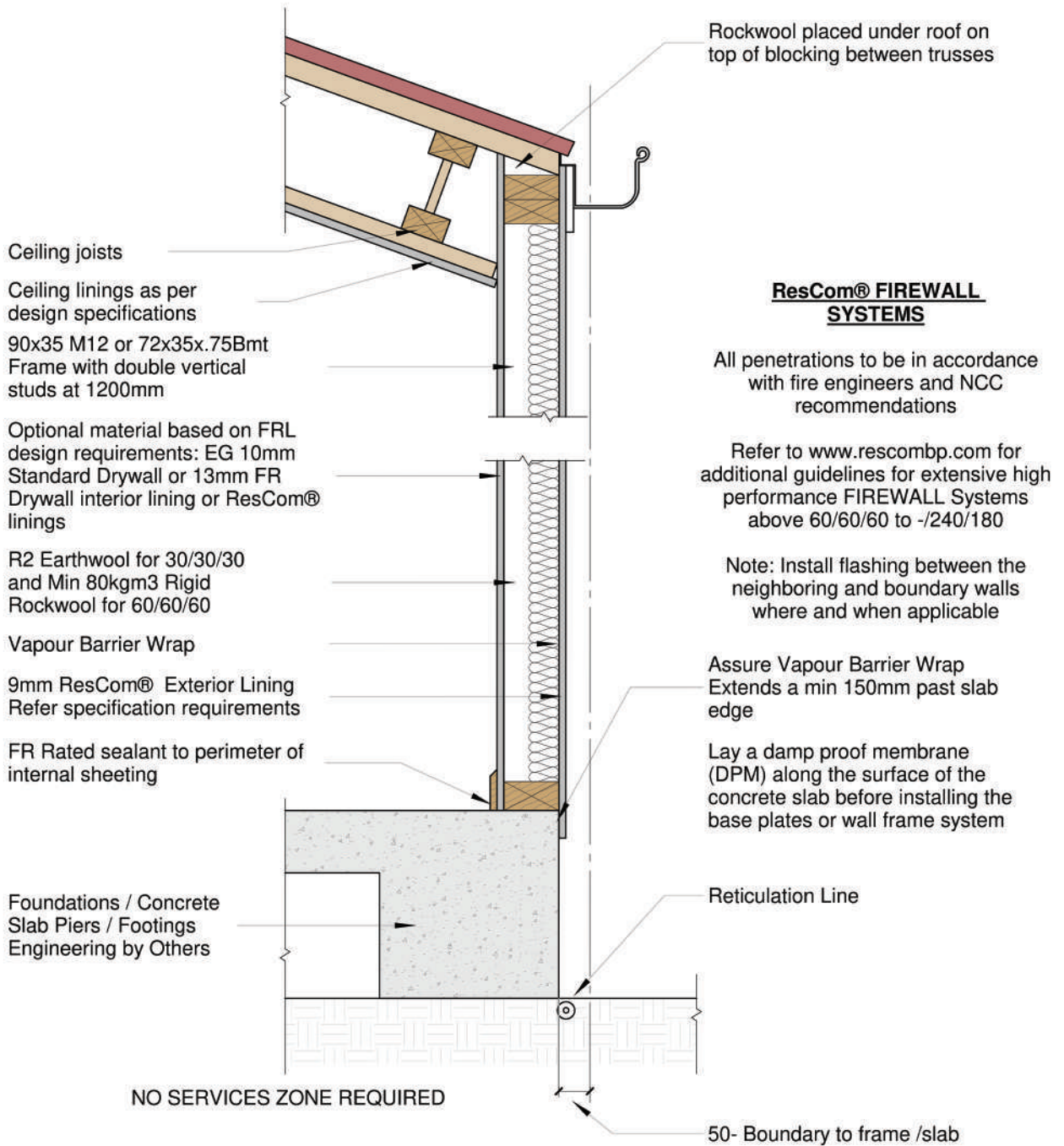
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# BOUNDARY WALL TO ROOF DETAIL

FRL SYSTEMS: 30/30/30, 60/60/60

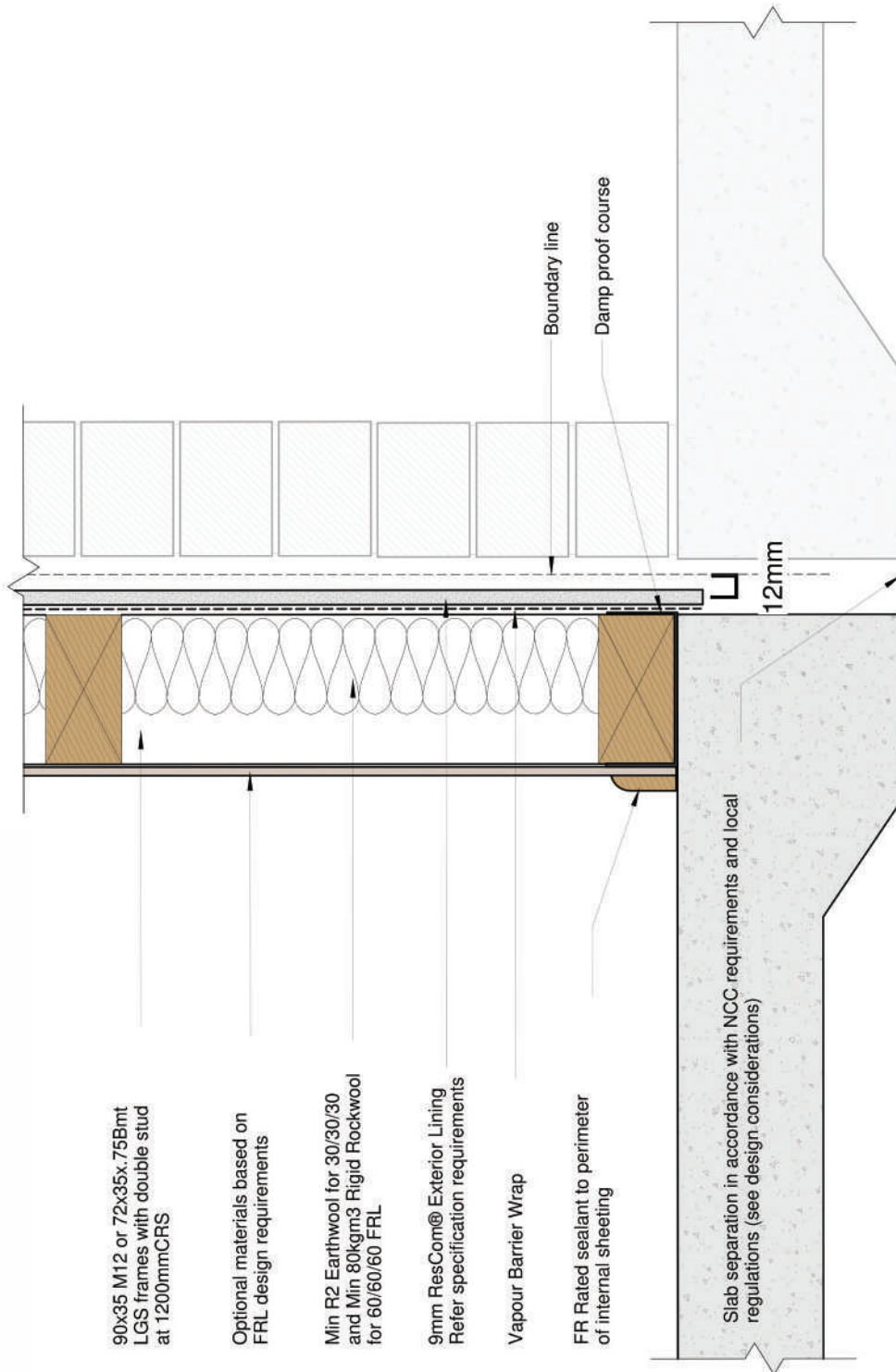


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# SINGLE BOUNDARY WALL SLAB DETAIL



90x35 M12 or 72x35x.75Bmt  
LGS frames with double stud  
at 1200mmCRS

Optional materials based on  
FRL design requirements

Min R2 Earthwool for 30/30/30  
and Min 80kgm3 Rigid Rockwool  
for 60/60/60 FRL

9mm ResCom® Exterior Lining  
Refer specification requirements

Vapour Barrier Wrap

FR Rated sealant to perimeter  
of internal sheeting

Slab separation in accordance with NCC requirements and local  
regulations (see design considerations)

Boundary line

Damp proof course

12mm

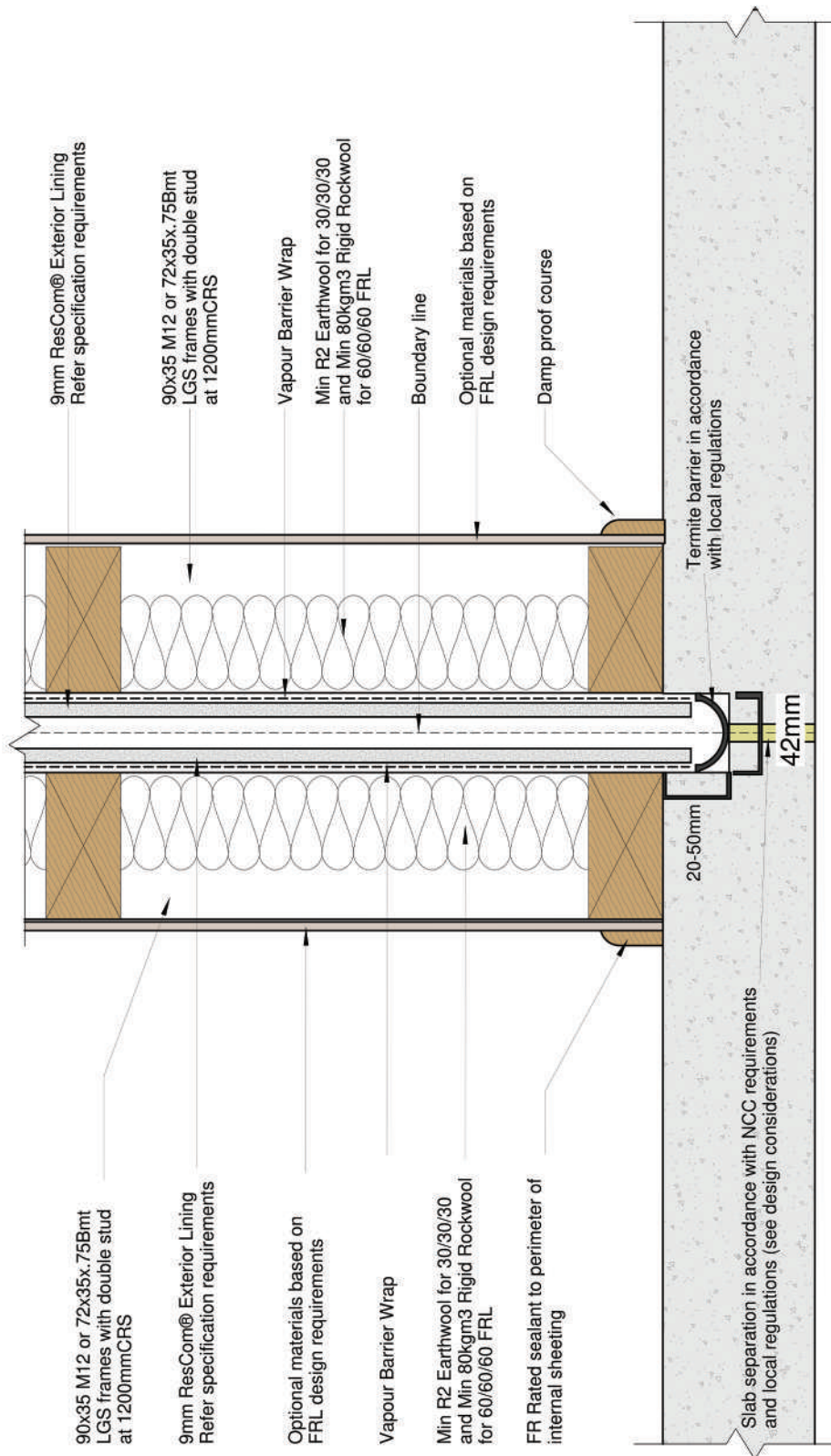
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# DUAL BOUNDARY WALL SLAB DETAIL

## SLAB DETAIL FOR DUAL BOUNDARY SYSTEM



9mm ResCom® Exterior Lining  
Refer specification requirements

90x35 M12 or 72x35x.75Bmt  
LGS frames with double stud  
at 1200mmCRS

Vapour Barrier Wrap

Min R2 Earthwool for 30/30/30  
and Min 80kgm<sup>3</sup> Rigid Rockwool  
for 60/60/60 FRL

Boundary line

Optional materials based on  
FRL design requirements

Damp proof course

Termite barrier in accordance  
with local regulations

42mm

90x35 M12 or 72x35x.75Bmt  
LGS frames with double stud  
at 1200mmCRS

9mm ResCom® Exterior Lining  
Refer specification requirements

Optional materials based on  
FRL design requirements

Vapour Barrier Wrap

Min R2 Earthwool for 30/30/30  
and Min 80kgm<sup>3</sup> Rigid Rockwool  
for 60/60/60 FRL

FR Rated sealant to perimeter of  
internal sheeting

Slab separation in accordance with NCC requirements  
and local regulations (see design considerations)

20-50mm

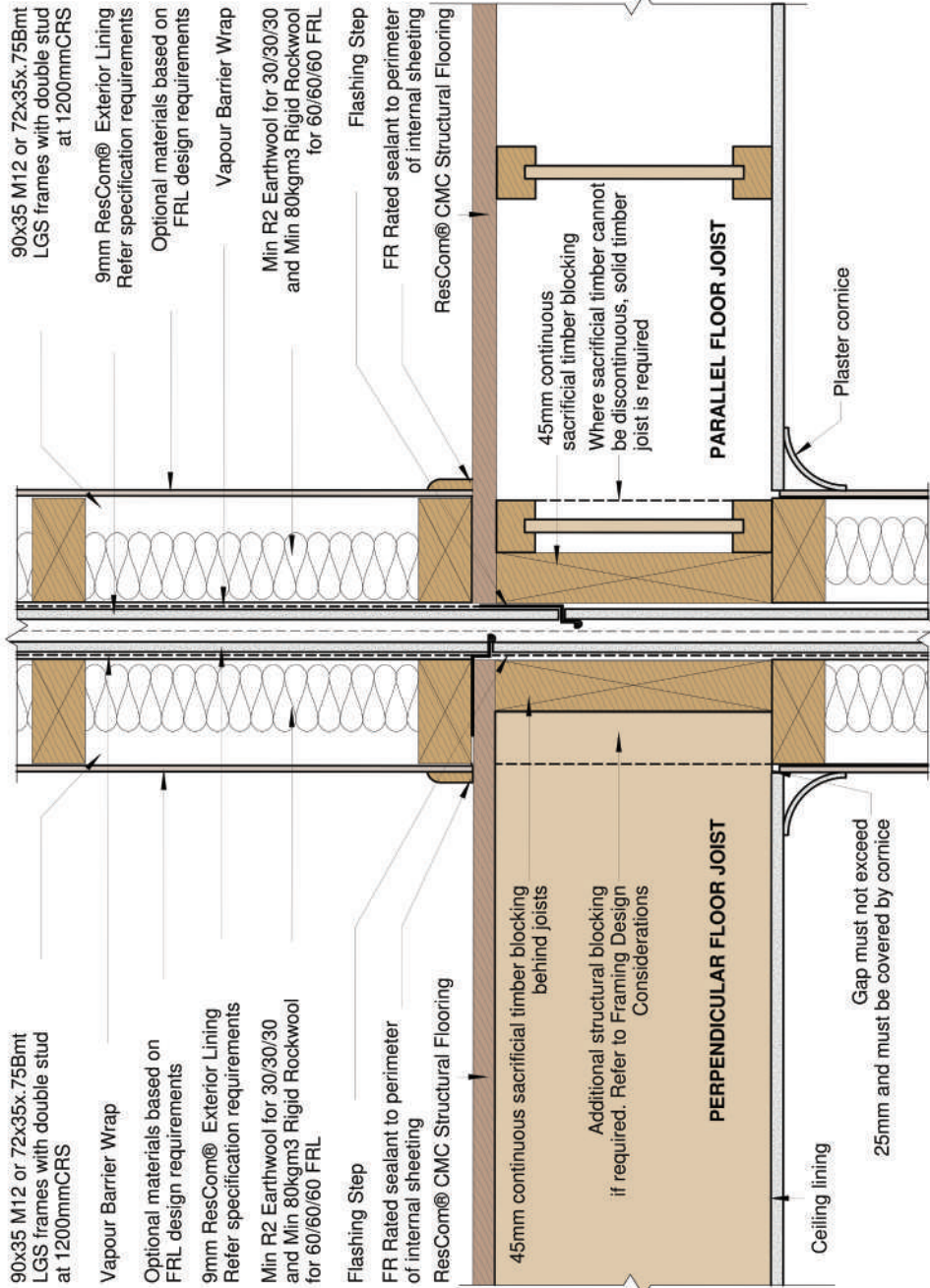
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# DISCONTINUOUS WALL FLOOR JUNCTION (RECOMMENDED)

## DISCONTINUOUS WALL FLOOR JUNCTION (RECOMMENDED)

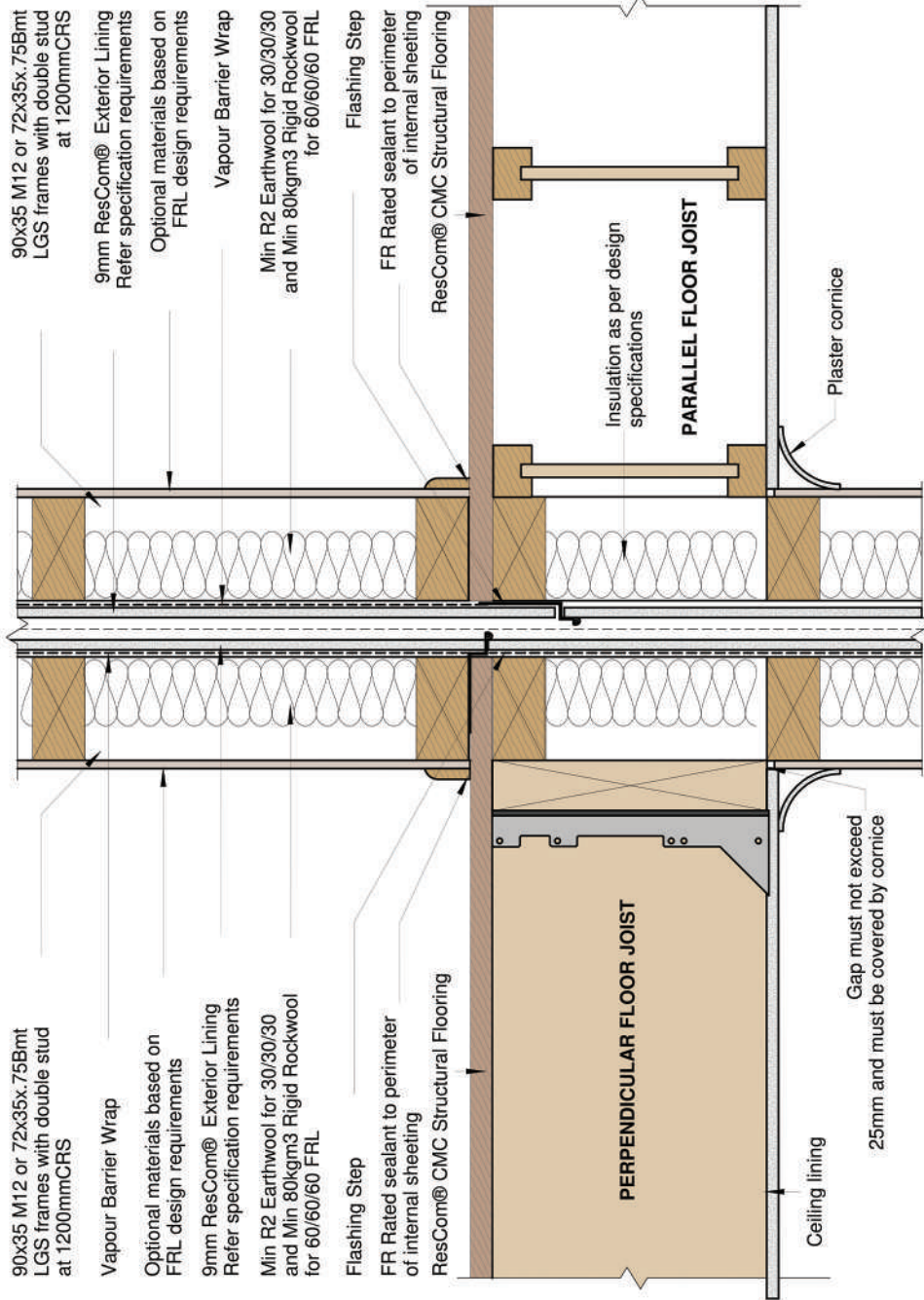


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# CONTINUOUS WALL FLOOR JUNCTION (RECOMMENDED)



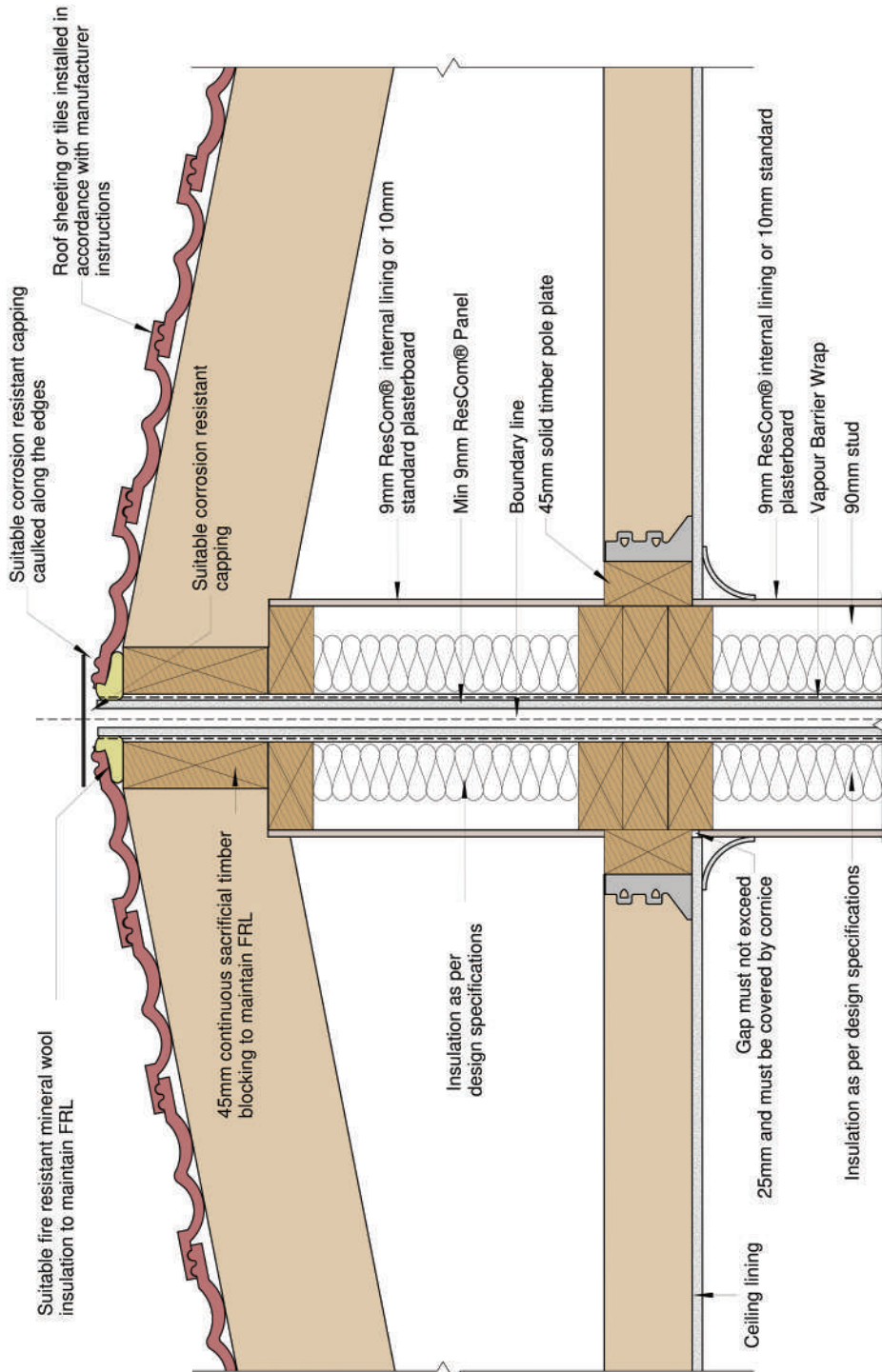
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# DUAL ZERO LOT FRAMED ROOF PERPENDICULAR

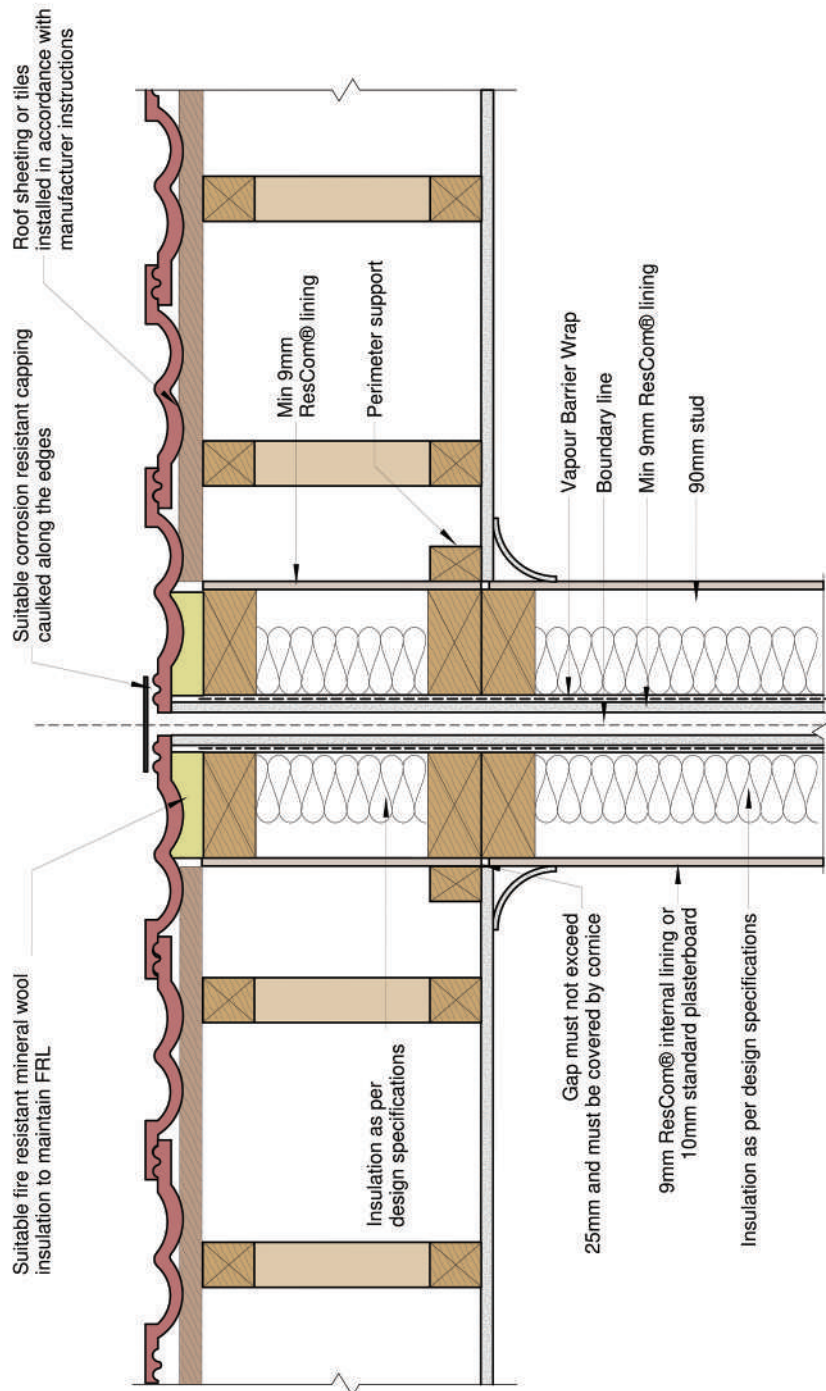


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**BWS-D10**

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# DUAL ZERO LOT ROOF WITH PARALLEL ROOF TRUSSES

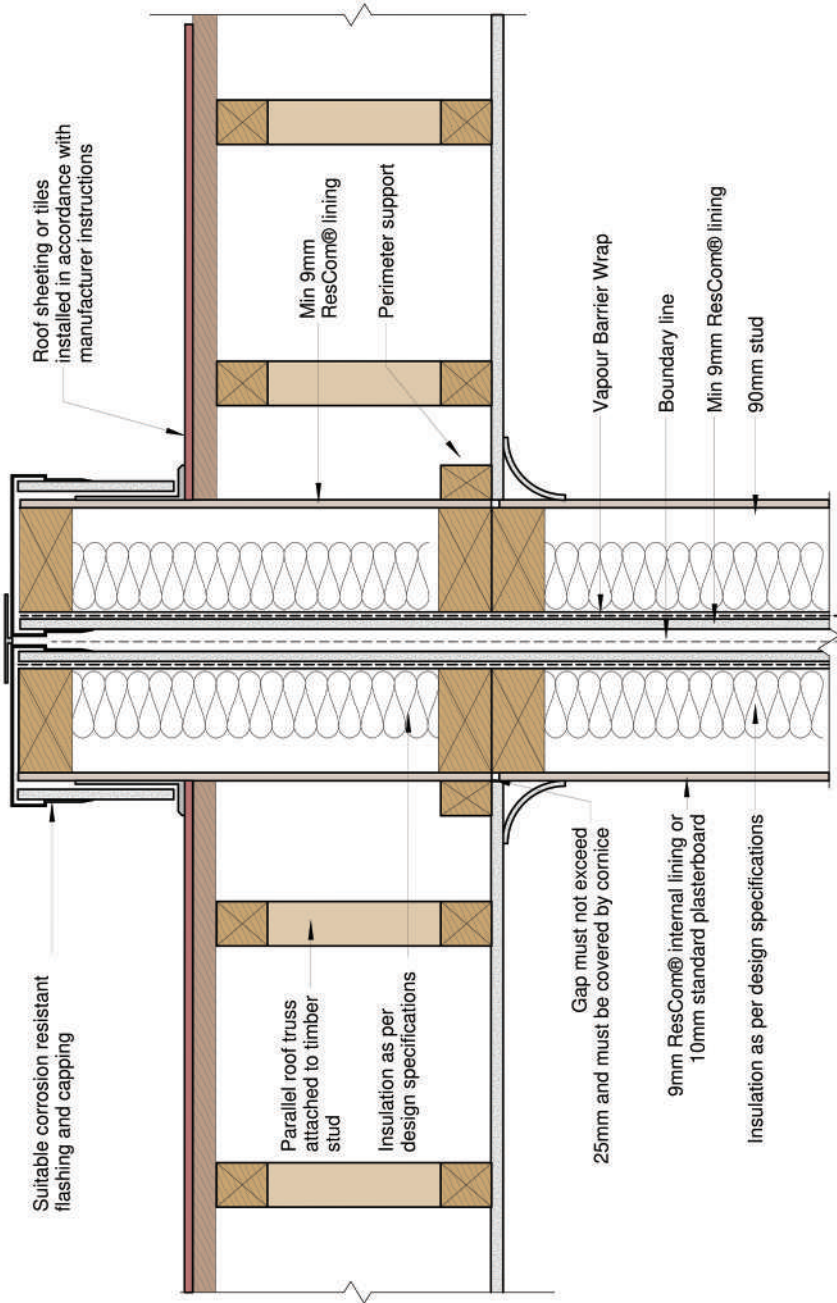


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# DUAL ZERO LOT PARAPET ROOF WITH PARALLEL ROOF TRUSSES

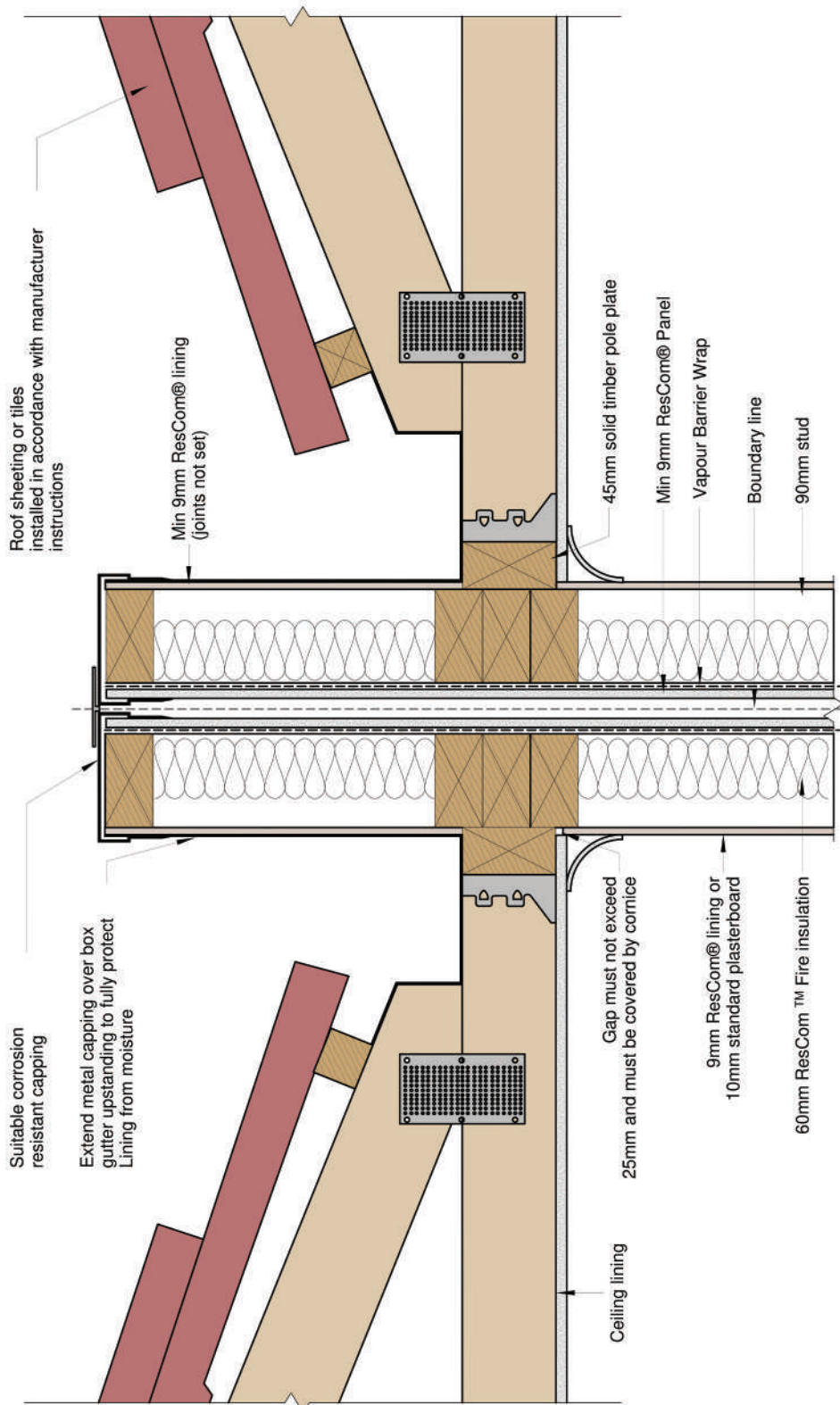


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# DUAL ZERO LOT PARAPET ROOF WITH PERPENDICULAR TRUSSES



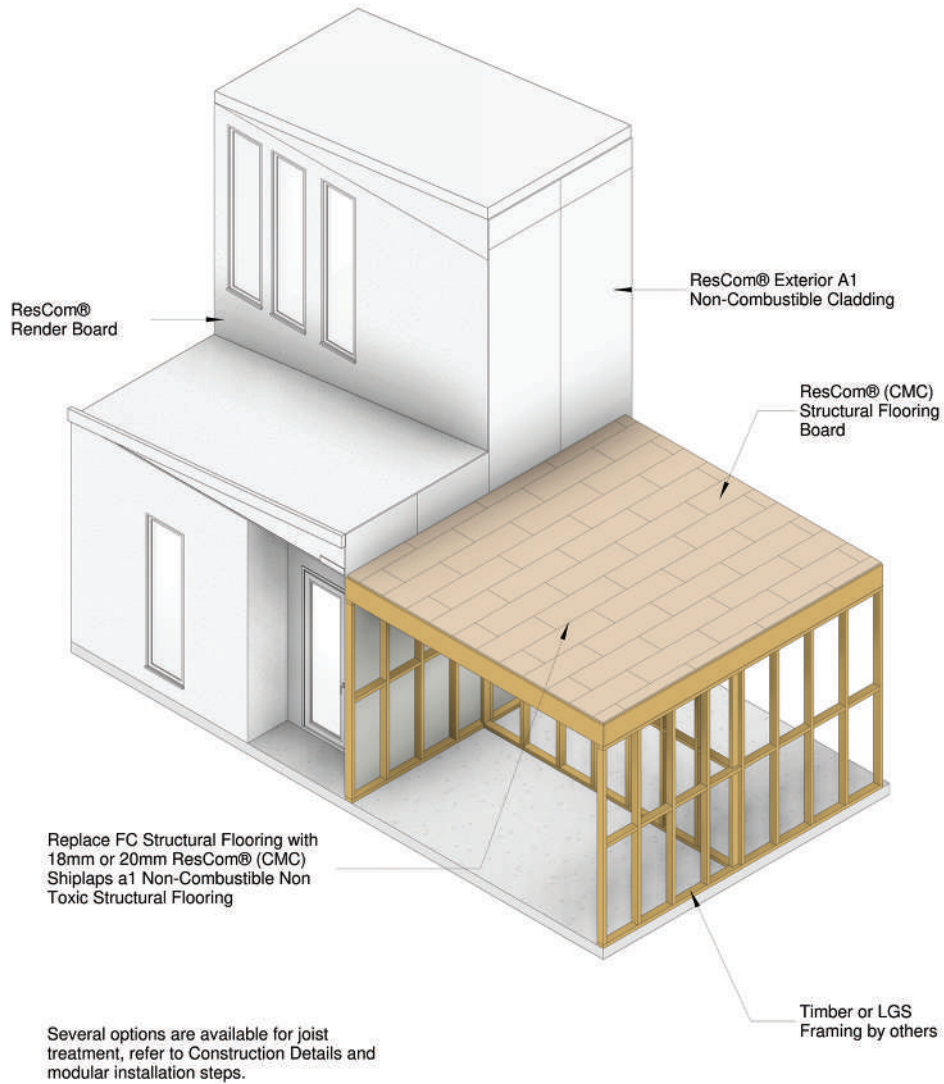
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# DEMISING WALLS CONSTRUCTION GUIDE

## STAGE 1: GROUND FLOOR



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## PRE CONSTRUCTED WALL

**Note:** Prior to erecting the assembled wall system, it is a requirement to primer seal the face of the ResCom® CMC Panels with cement binder sealer and apply protective coatings as specified by the designer

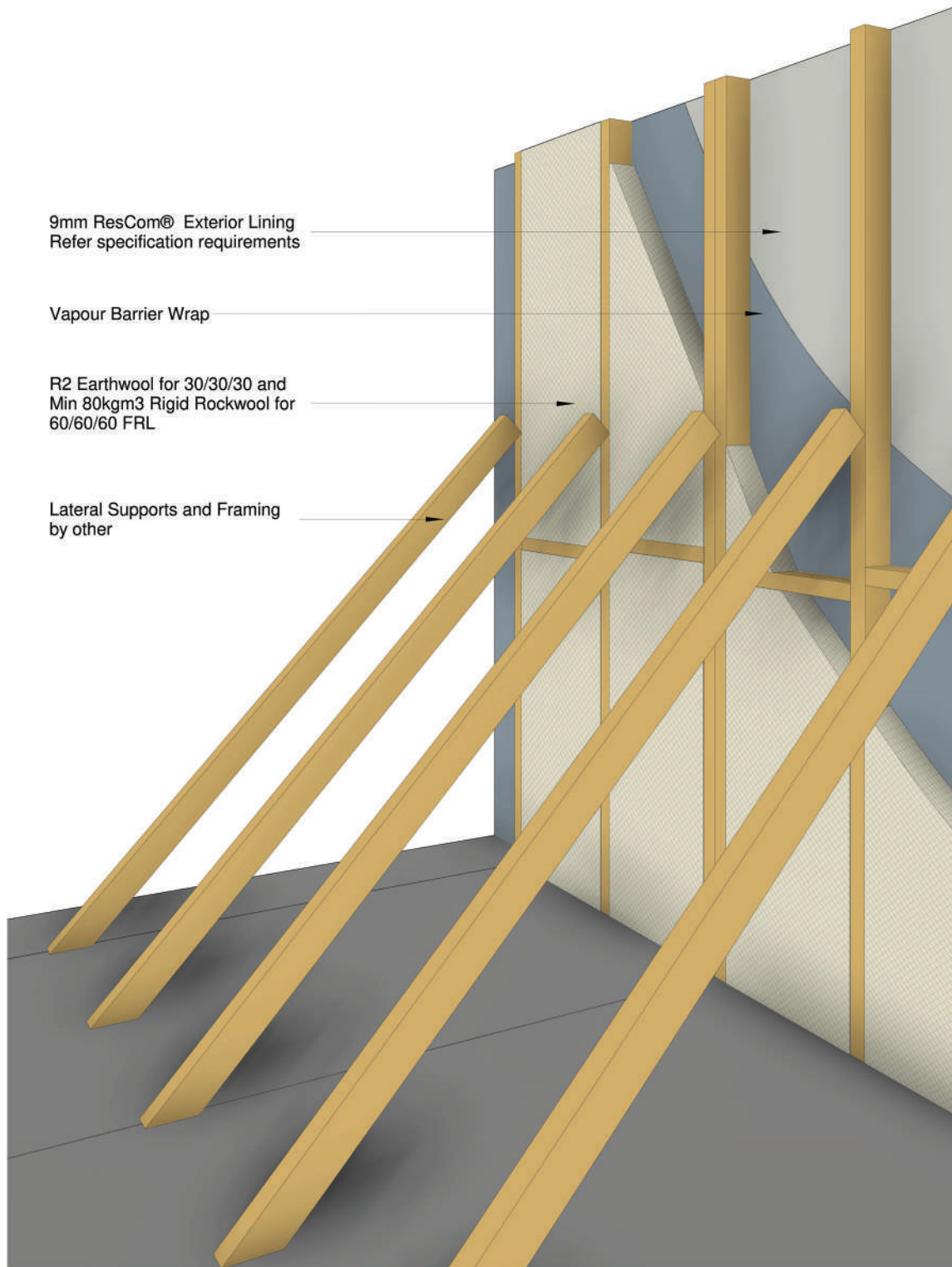


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## LATERAL SUPPORT RESTRAINTS TO PRE ASSEMBLED WALL



Place adequate temporary bracing to ensure lateral restraint of the modules

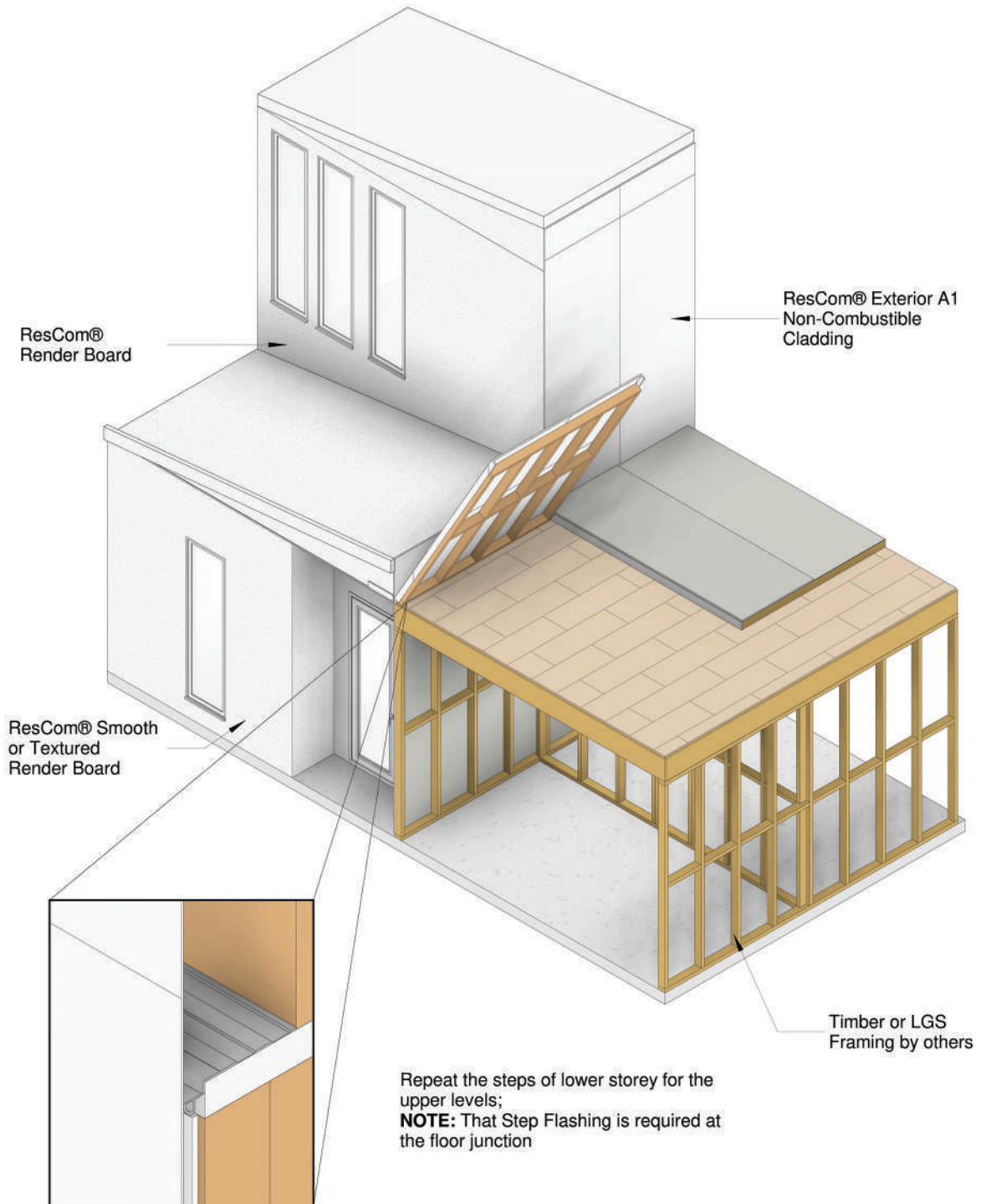
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# DEMISING WALLS CONSTRUCTION GUIDE

## STAGE 2: UPPER LEVEL FLOOR



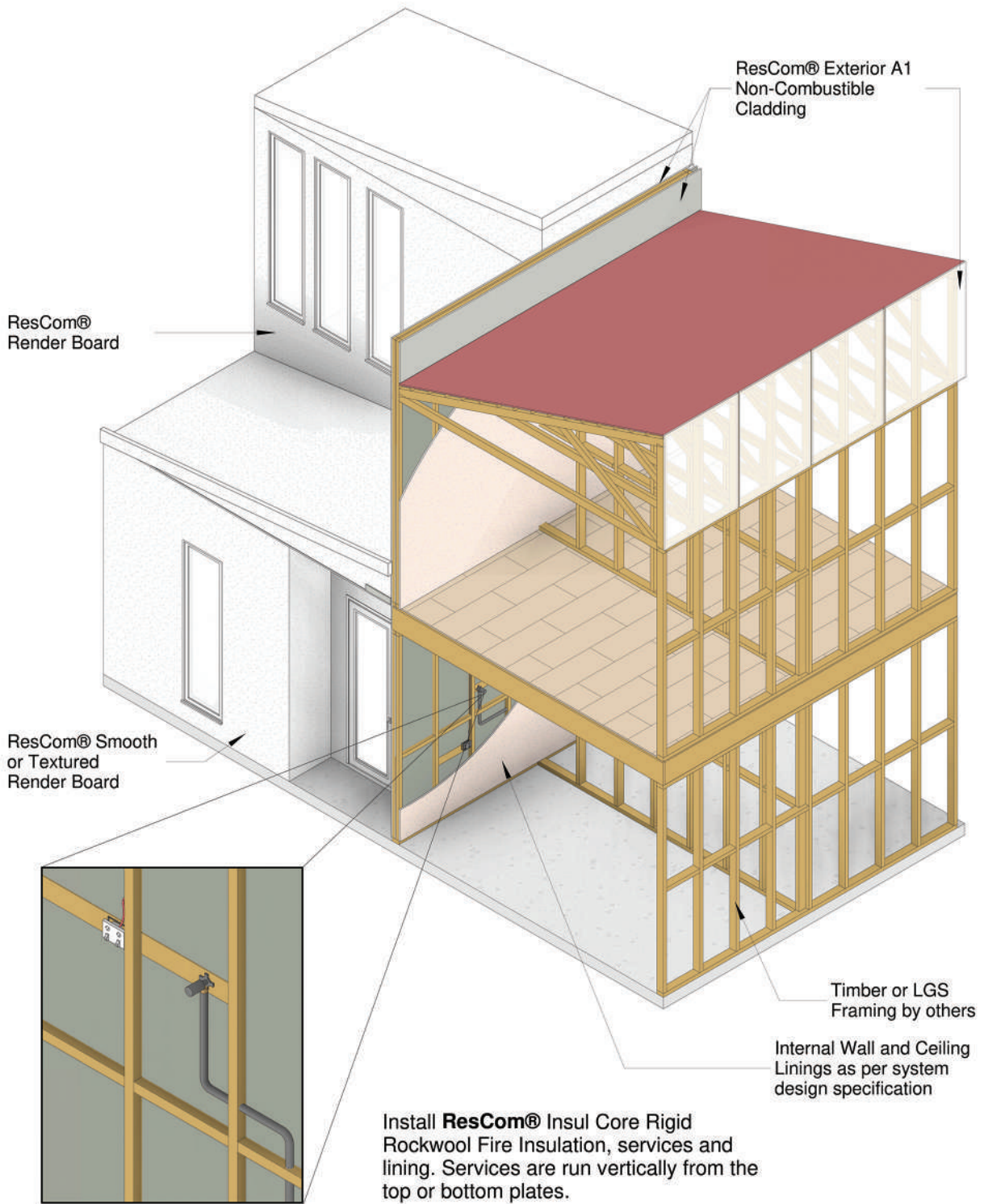
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## INSULATION, LINING AND SERVICES



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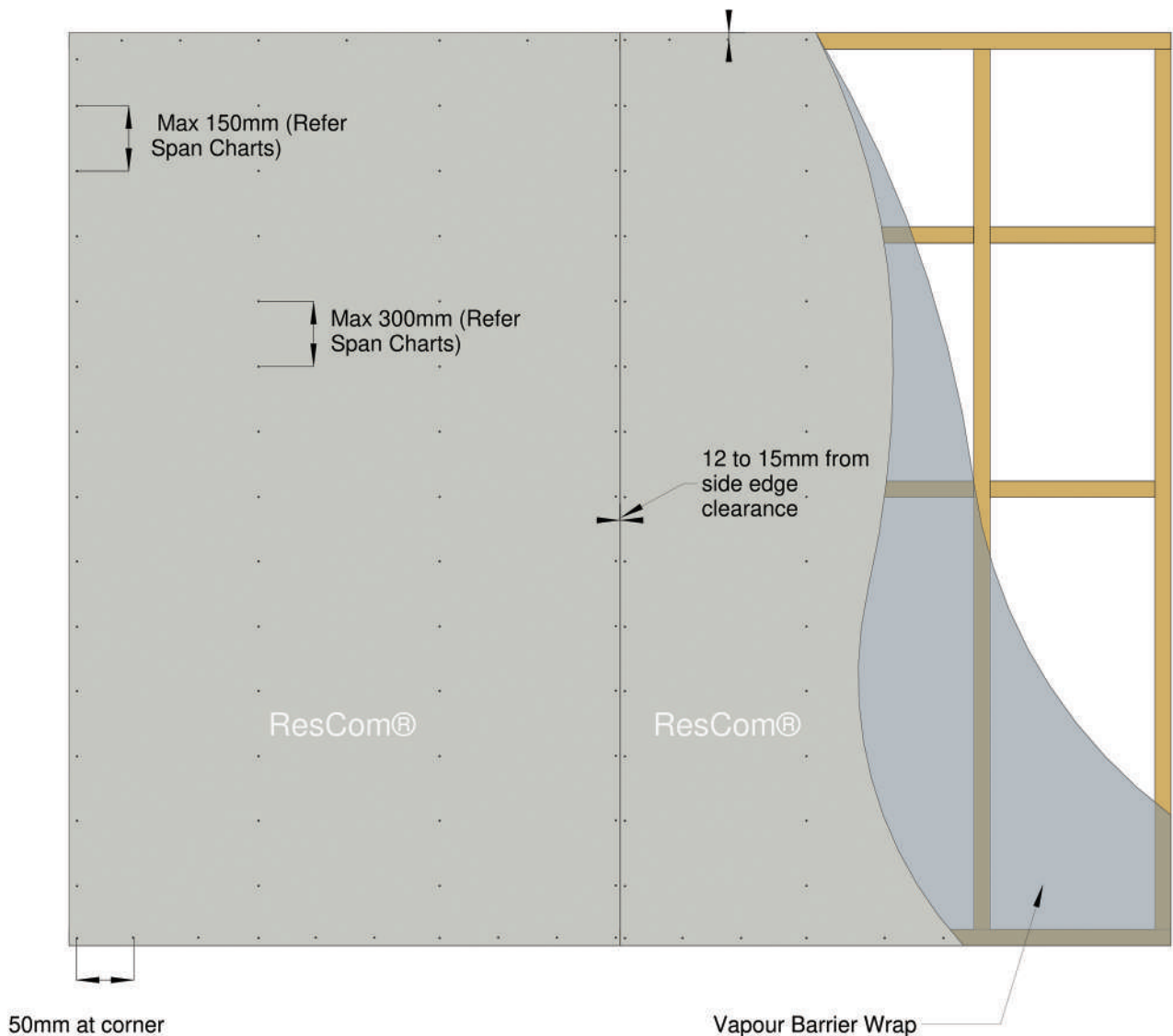
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## PRE ASSEMBLED WALL FIXING GUIDE

**NOTE:** for External and Wet Area Use Marine Grade Stainless Steel Fixtures

Nail or Screw Fixings are to be approximately 12mm to 15mm in from the edge of the lining panel

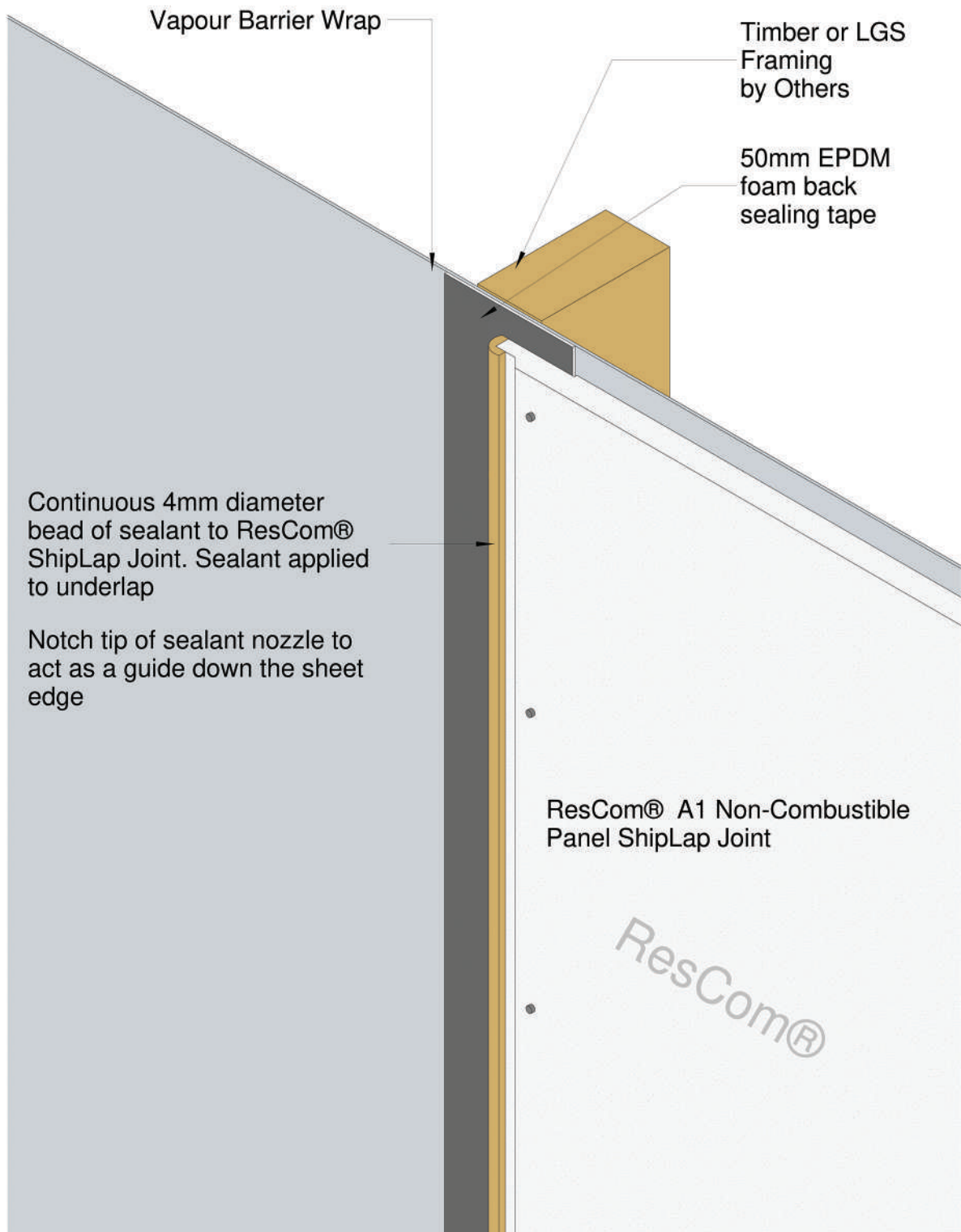


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## JOINT SEALANT



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## PRE ASSEMBLED WALL SYSTEM GUIDE

### Layout of ResCom® CMC ShipLap Panels to Timber or Metal Framing

It is important to understand the rectified face finish of the panels and align the stud distances of the framing to that of the size of the ResCom® CMC panles. When installing assure to remove the ShipLap Edge from the first and last end panels. Assure that the appropriate FR Caulking compounds are used and applied to all joints and junctions to the wall system.

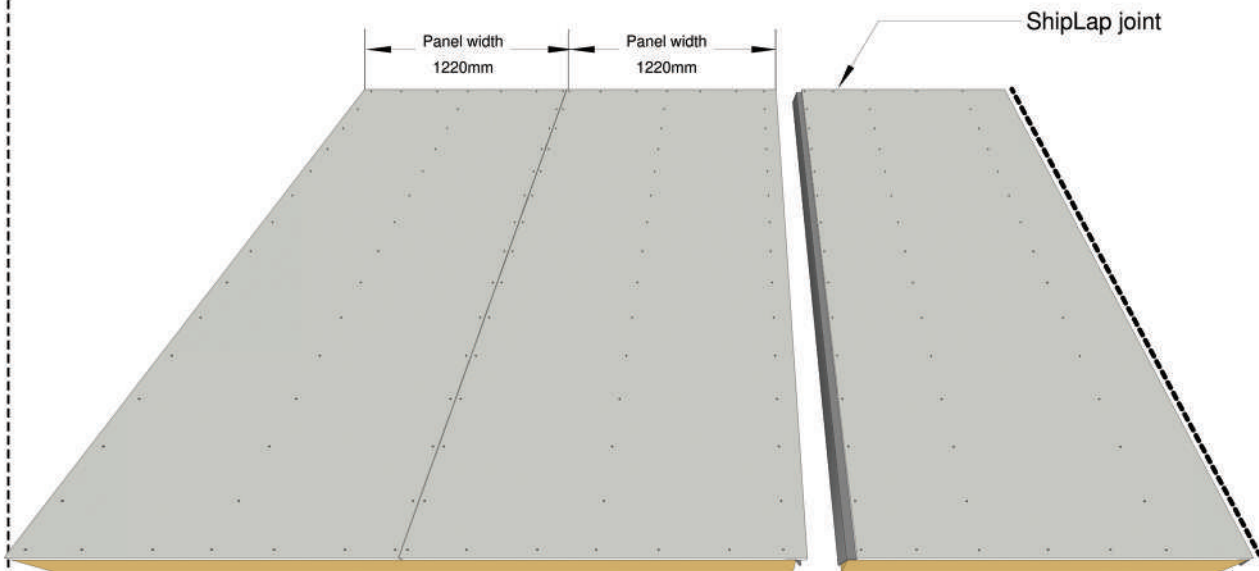


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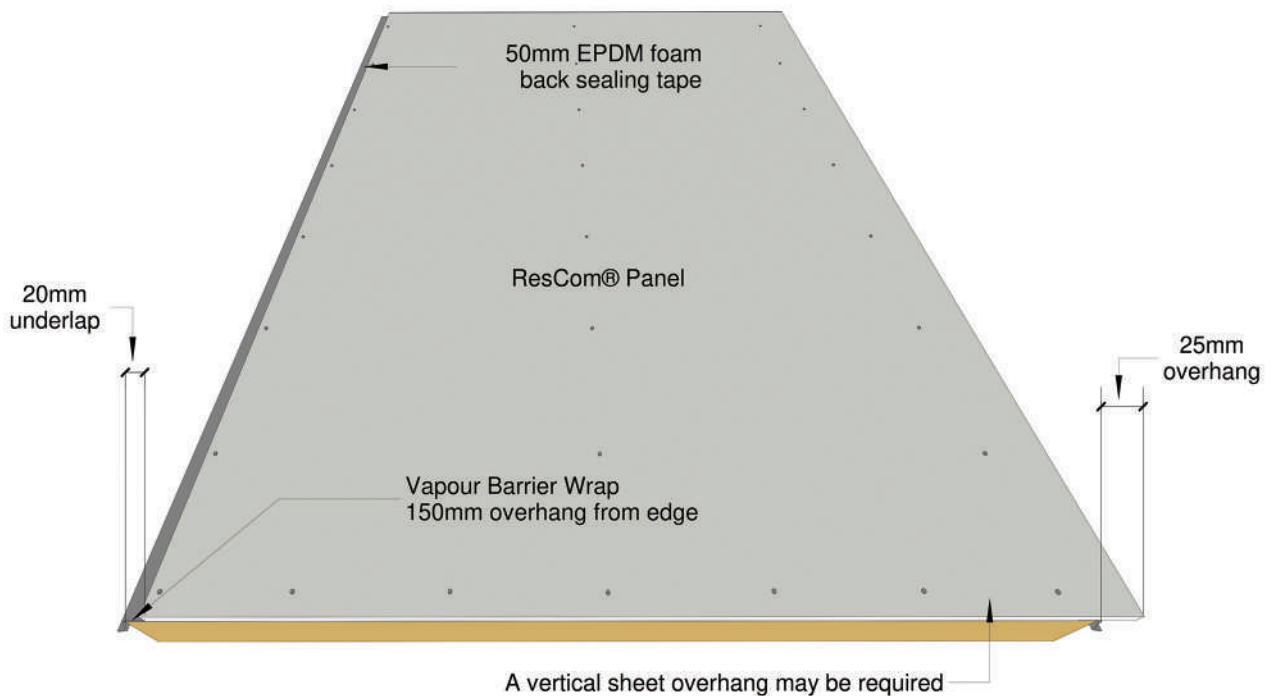
DWC-D8

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## PRE ASSEMBLED WALL SYSTEM GUIDE



Install 9mm Aluminum Box Corner at wall ends If the 9mm ResCom® Panel is continued on return) Install coinciding Aluminum Box Corner to the thickness of ResCom® Panel specified in a design system to achieve FRL performances



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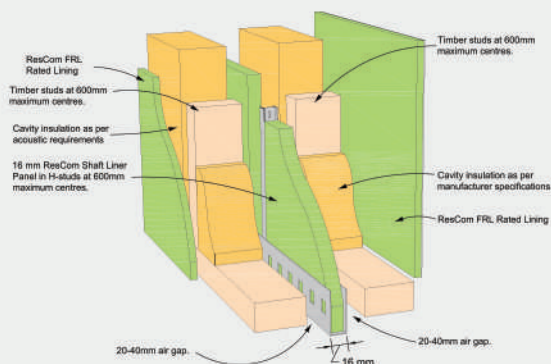


## ASSURING SUCCESSFUL INSTALLATION:

- Ensure that RESCOM® (CMC) BOARDS, and the studs and tracks are the same length. Cut to length if required.
- In multilevel projects where RESCOM® FIREWALL systems are utilised, assure that the studs at the upper levels align with the studs on the lower level.
- Support brackets must be installed progressively as the RESCOM® FIREWALL barrier is erected.
- Support brackets at maximum 600mm horizontally and 3000mm vertically.
- For aligned floors support brackets must be directly opposite on both sides of the RESCOM® FIREWALL studs.
- For offset floors support brackets can be staggered in line with floors on each side of the wall.
- Fix support brackets to studs with 2 x 10g + 17 thread Class 3 noncorrosive or similar wafer head screws.
- Fix support brackets to timber frame with 2 x 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails.
- RESCOM® FIREWALL barrier must be securely braced to resist weather events until the building is enclosed.
- RESCOM® (CMC) BOARDS can be installed vertically, horizontally or stagger pattern.

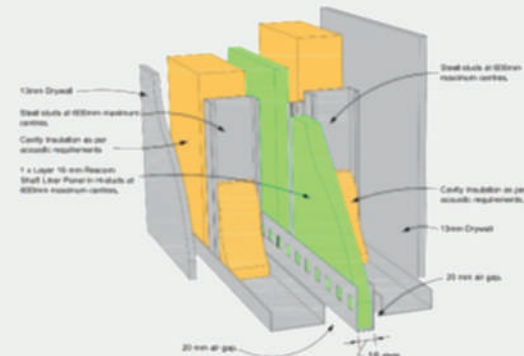
### SYSTEM SPECIFICATIONS

#### Timber Frame Internal Wall Systems - StrataWall & Party Wall with Double Cavity



### SYSTEM SPECIFICATIONS

#### Metal Frame Internal Wall Systems - StrataWall with Double Cavity



## 10 STEPS TO SUCCESSFUL TRADITIONAL INSTALLATION:

### 1- INSTALL BASE TRACK:

- Use full track lengths, spaced 6mm apart.
- Position metal track at min 20mm clearance along full length of the timber / metal frame, starting and ending in line with the timber / metal frame.
- Fix each track length to foundation with approved all-steel fasteners at 600mm maximum spacing and at both ends.

### 2- INSTALL FIRST RESCOM® (CMC) BOARD:

- To enable fixing of support brackets, cut the first RESCOM® (CMC) BOARD to width so that its edge falls not less than 50mm from timber / metal stud.
- Fit RESCOM® (CMC) BOARD fully down into the base track and align with end of track.
- Fit the end track tightly over outer edge of RESCOM® (CMC) BOARD and screw fix end and base tracks junction with 2 x 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails.
- Fix the end track to the metal frame with support brackets.

### 3- INSTALL FIRST THE STUD AND BRACKET:

- Fit the stud fully down into the base track and move tight over the edge of RESCOM® (CMC) BOARD. Assure the board is a firm fit.
- Fit second RESCOM® (CMC) BOARD into the base track and push firm into the stud.
- Fix the stud to the top plate with support brackets

### 4- CONTINUE INSTALLING RESCOM® (CMC) BOARD AND STUDS:

- Continue to install RESCOM®(CMC) BOARD and studs until reaching end of wall.  
As framing progresses, fix studs to the metal framing with support brackets.
- Cut the last RESCOM® (CMC) BOARD in line with the end of base track.
- Fit the end track firmly over the edge of the panel and screw fix end and base tracks junction with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws on both sides or with 2 x 2mm x 50mm ring shank flathead galvanised nails.
- Fix end track to timber / metal frame with the support brackets.

### 5- SEAL BOTTOM TRACK:

- Apply continuous 4hr FR sealant along full length of the base track / floor junction.

## 6- BETWEEN UPPER AND LOWER FLOOR LEVELS:

- Screw laminate same specified thickness of RESCOM® (CMC) BOARD to one side of RESCOM® (CMC) FIREWALL BOARD with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws at max 300mm centres (both directions) and nom 15mm from the edges. Ensure minimum 150mm overlap above floor and below ceiling level. ResCom® board joints do not need to be set with compounds. Ensure joints are firm and sealed.
- Screw fix the support brackets through RESCOM® (CMC) BOARD into the studs and end tracks and fix the support brackets to the frame.

## 7- INSTALL TOP HAT:

- Using full track lengths, fit top hat over the installed RESCOM® (CMC) BOARD and the studs.
- Push top hat fully down over the top of the studs.
- Screw fix top and end track junctions with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails.

## 8- NEXT LEVEL OF RESCOM® (CMC) BOARD FIREWALL:

- Using full track lengths, install the bottom track for the upper level of RESCOM® (CMC) BOARD FIREWALL back-to-back with the top track below and leaving 6mm gap between track lengths. Screw fix each track length with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails. at 600mm maximum centres and at each end.
- Install RESCOM® (CMC) BOARD, the studs and studs support brackets as per the level below. The studs must align with studs below.

## 9- ATTENUATION OF RESCOM® (CMC) BOARD FIREWALL INTO ROOF CAVITY:

- Measure and cut RESCOM® (CMC) BOARD and the studs to pitch of roof.
- Allow 25mm gap at top of RESCOM® (CMC) BOARD for frame expansion and contraction as well as for the movement throughout the building envelope.
- Fix the track on rake and fix the studs to roof frame on one side with the support brackets.
- Screw fix top and end track junctions with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails.
- Screw laminate same specified thickness of RESCOM® (CMC) BOARD to one side of RESCOM® (CMC) FIREWALL BOARD with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails. at max 300mm centres (both directions) and nom 15mm from the edges. Ensure minimum 150mm overlap above floor and below ceiling level. Plasterboard joints do not need to be set with compounds. Ensure joints are firm and sealed.

## 10- INSTALLATION OF BULK FR RATED INSULATION:

- Fill cavities between roof battens with appropriately A1 FR Rated rigid rockwool / earthwool insulation. Firmly Install the appropriately A1 FR Rated earth / rigid rockwool insulation continuously at external wall junctions and under roofing.





## NOTE TO ARCHITECT:

The building designer must ensure that load bearing walls have been designed:

- To resist all applied loads
- To be in accordance with AS4600, AS1684 and AS1720.1, the BCA, NZBC, ICC-ES and all relevant standards
- To assume no axial strength contribution from wall linings. Some wall systems will have their axial load capacities reduced. For steel, this is due to the steel weakening at temperature.

## QUICK-FIX STEPS TO SUCCESSFUL INSTALLATION OF RESCOM SHIPLAP THERMAL EDGE

### STEP 1

#### Install base track:

- Use full track lengths, spaced 6mm apart.
- Position the track at min 20mm clearance along full length of the timber / metal frame, starting and ending in line with the timber / metal frame.
- Fix each track length to foundation with approved all-steel fasteners at 600mm maximum spacing and at both ends.

### STEP 2

#### Install first RESCOM® (CMC) SHIPLAP BOARD:

- To enable fixing of the support brackets, cut the first RESCOM® (CMC) BOARD to width so that its edge falls not less than 50mm from timber/metal stud.
- Fit RESCOM® (CMC) BOARD fully down into the base track and align with end of track.
- When installing first and last RESCOM® (CMC) BOARD, remove the SHIPLAP joint prior to installing into the base, top and end tracks.
- Fit the end track tightly over outer edge of RESCOM® (CMC) BOARD and screw fix end and base

### STEP 3

#### Install first stud and bracket:

- Fit the stud fully down into the base track and move tight over the edge of RESCOM® (CMC) BOARD. Assure the board is a firm fit.
- Fit second RESCOM® (CMC) BOARD into the base track and push firm into the stud. Caulk and seal along the full length of Shiplap joints with appropriate FR rated caulking compound (no requirement to tape and set the Shiplap joint).
- Fix the stud to timber / metal frame top plate with the support brackets.

**STEP 4****Continue installing RESCOM® (CMC) BOARD and studs:**

- Continue to install ResCom® (CMC) BOARD and the studs until reaching end of wall. Caulk and seal along the full length of Shiplap joints with appropriate FR rated caulking compound (no requirement to tape and set the Shiplap joint).
- As framing progresses, fix the studs to timber/metal framing with support brackets.
- Cut the last RESCOM® (CMC) BOARD in line with the end of the base track.
- Fit the end track firmly over the edge of the panel and screw fix end and base tracks junction with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws on both sides or with 2 x 2mm x 50mm ring shank flathead galvanised nails.
- Fix end track to timber / metal frame with support brackets.

**STEP 5****Seal bottom track:**

- Apply continuous 4hr FR sealant along full length of the base track / floor junction.

**STEP 6****Between Upper and Lower Floor Levels:**

- Assure the installation set out of the RESCOM® (CMC) BOARD allows for the ShipLap joint to pass through the floor to ceiling void without the need to back block the joint with plasterboard. Ensure the ShipLap joints are firm, caulk and sealed along the full length of Shiplap joints with appropriate FR rated caulking compound (no requirement to tape and set the Shiplap joint).
- Screw fix the support brackets through RESCOM® (CMC) BOARD into the studs and end tracks and fix the support brackets to the timber / metal frame.

**STEP 7****Install top hat:**

- Using full track lengths, fit top hat over the installed RESCOM® (CMC) BOARD and studs.
- Push top hat fully down over the top of the studs.
- Screw fix top and end track junctions with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails.

**STEP 8****Next level of RESCOM®(CMC) BOARD FIREWALL:**

- Using full track lengths, install the bottom track for the upper level of RESCOM® (CMC) BOARD FIRE WALL back-to-back with the top track below and leaving 6mm gap between track lengths. Screw fix each track length with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails. at 600mm maximum centres and at each end. Install RESCOM® (CMC) BOARD, studs, and the support brackets as per the level below.
- The studs must align with studs below.

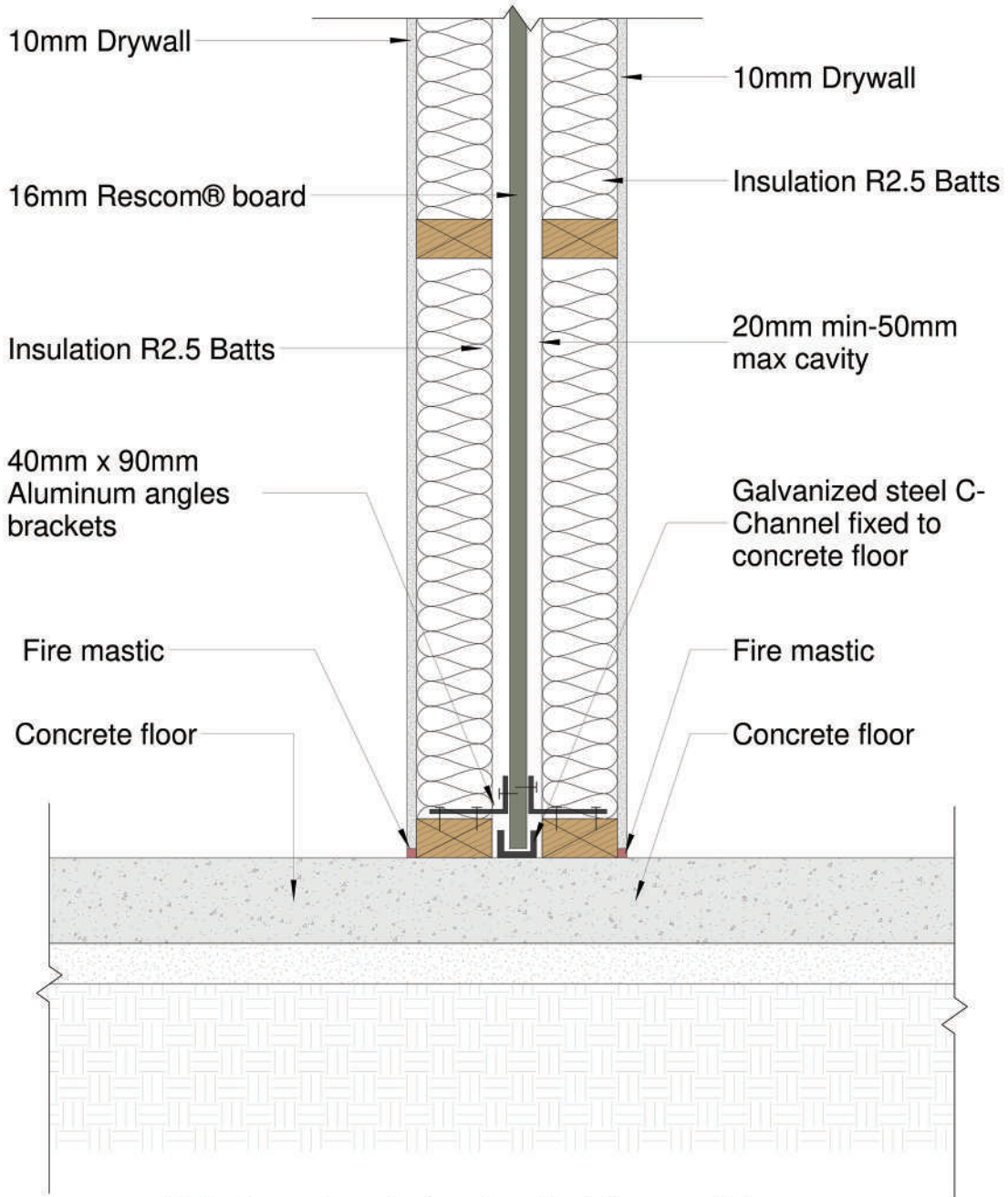
**STEP 9****Attenuation of RESCOM® (CMC) BOARD FIREWALL into roof Cavity:**

- Measure and cut RESCOM® (CMC) BOARD and the studs to pitch of roof.
- Allow 25mm gap at top of RESCOM®(CMC) BOARD for frame expansion and contraction as well as for the movement throughout the building envelope. Caulk and seal along the full length of Shiplap joints with appropriate FR rated caulking compound (no requirement to tape and set the Shiplap joint)
- Fix the track on rake and fix the studs to roof frame on one side with support brackets.
- Screw fix top and end track junctions with 10g + 17 thread Class 3 noncorrosive or similar wafer head screws or with 2 x 2mm x 50mm ring shank flathead galvanised nails.

**STEP 10****Installation of bulk FR rated Insulation:**

- Fill cavities between roof battens with appropriately A1 FR Rated rigid rockwool / earthwool insulation. Firmly Install the appropriately A1 FR Rated earthwool / rigid rockwool insulation continuously at external wall junctions and under roofing.

# SHAFT AND PARTITION FIRE WALL GUIDE



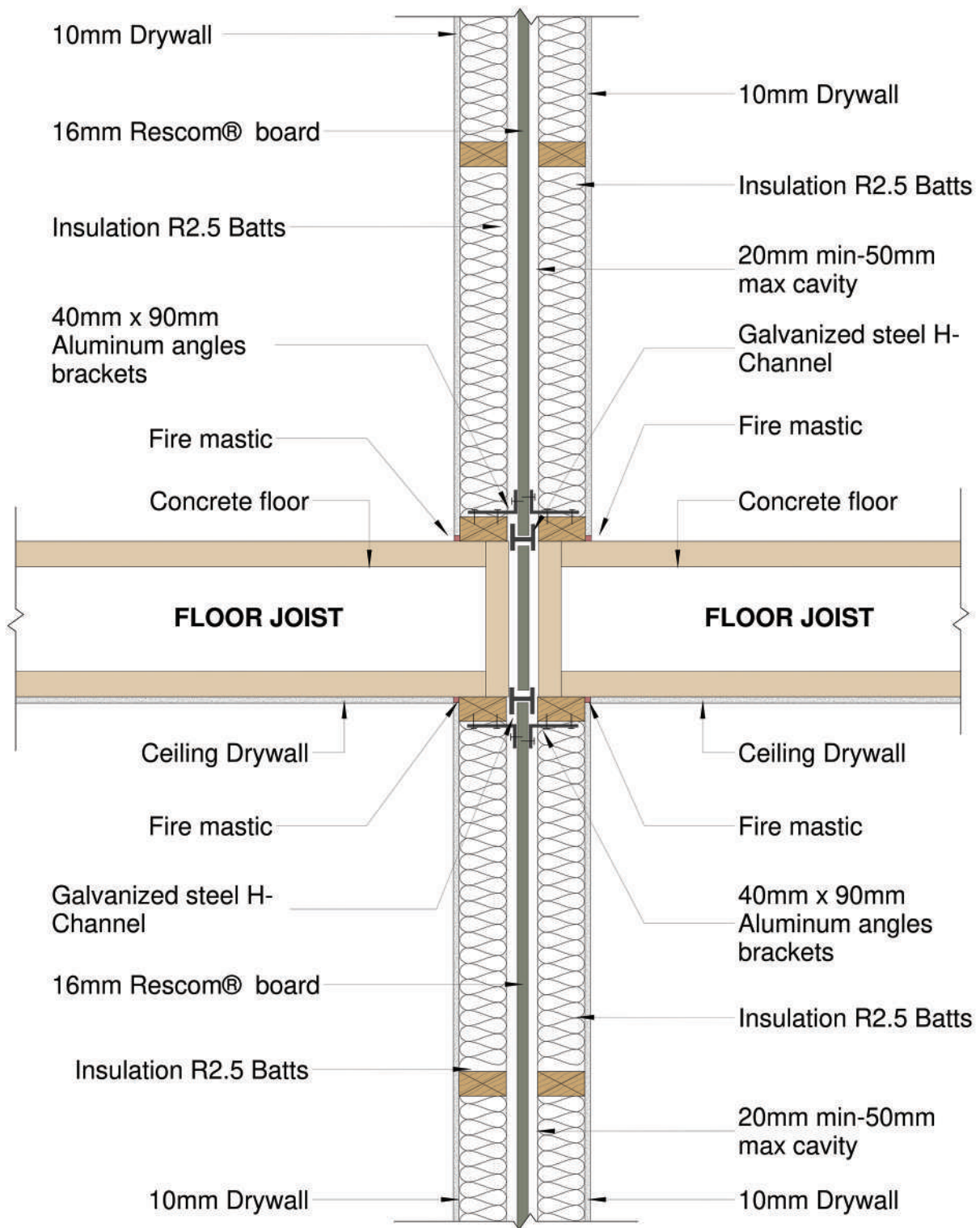
Refer to engineer's drawings for full conc. slab spec

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# SHAFT AND PARTITION FIRE WALL GUIDE

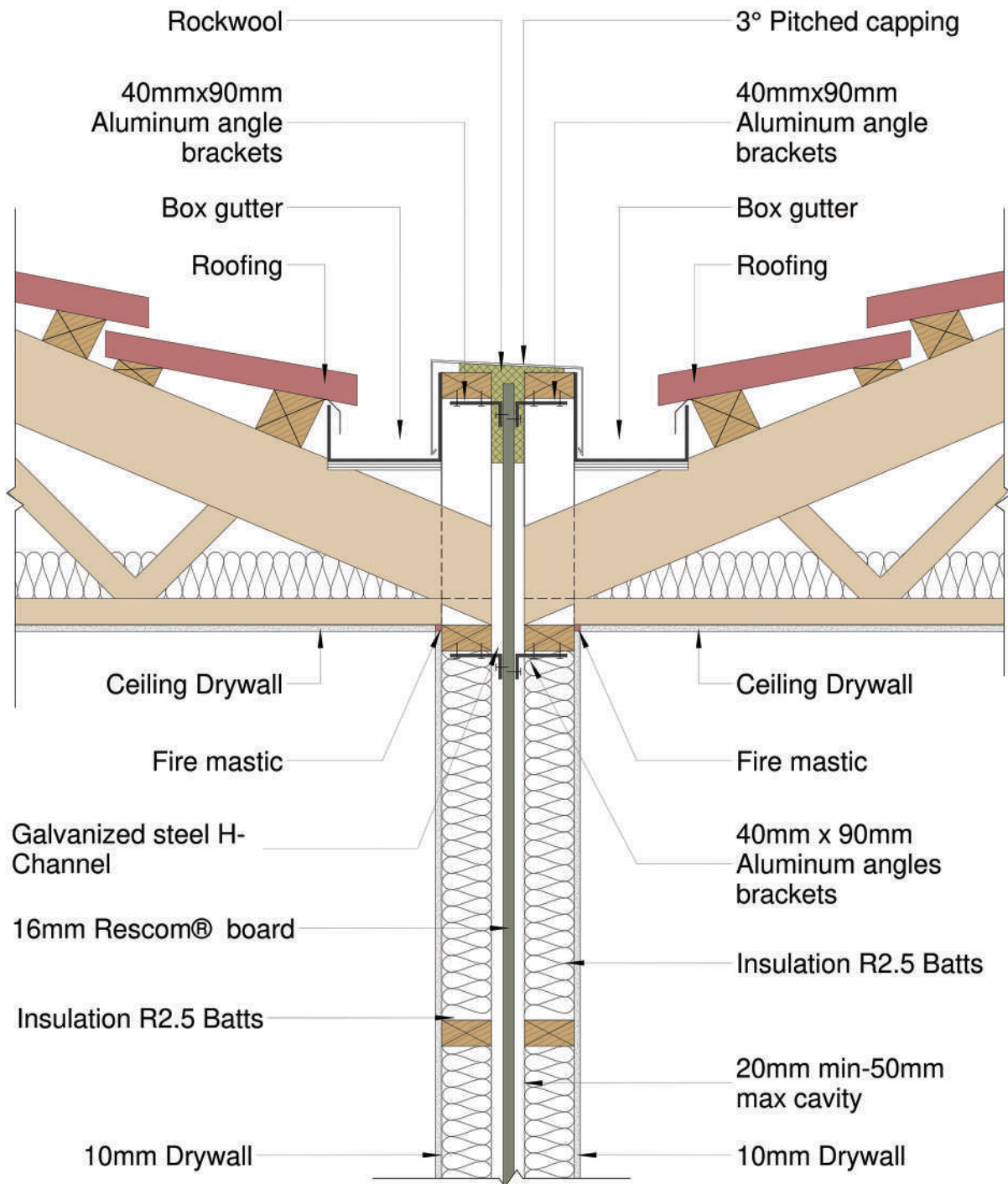


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# SHAFT AND PARTITION FIRE WALL GUIDE

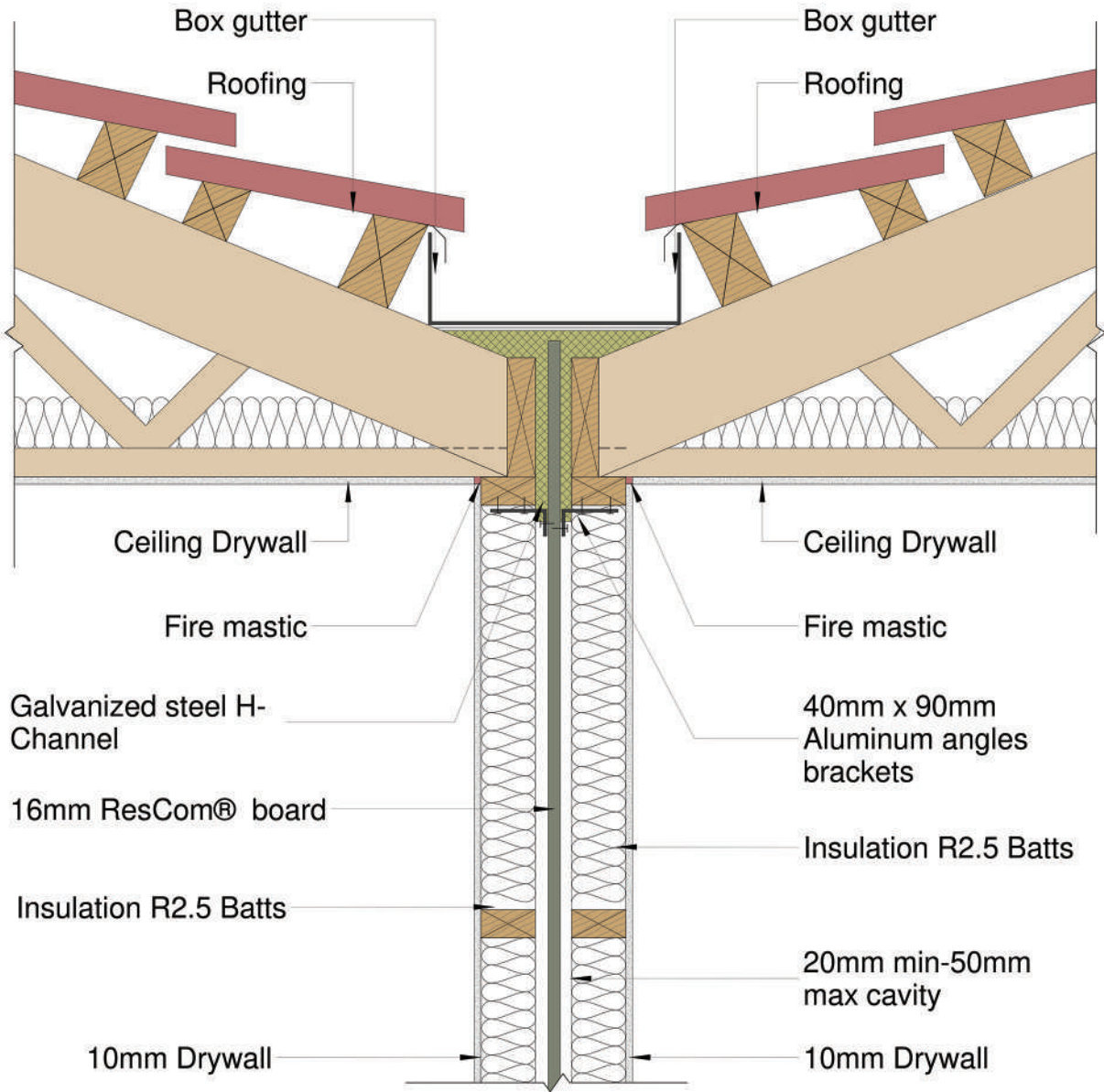


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# SHAFT AND PARTITION FIRE WALL GUIDE

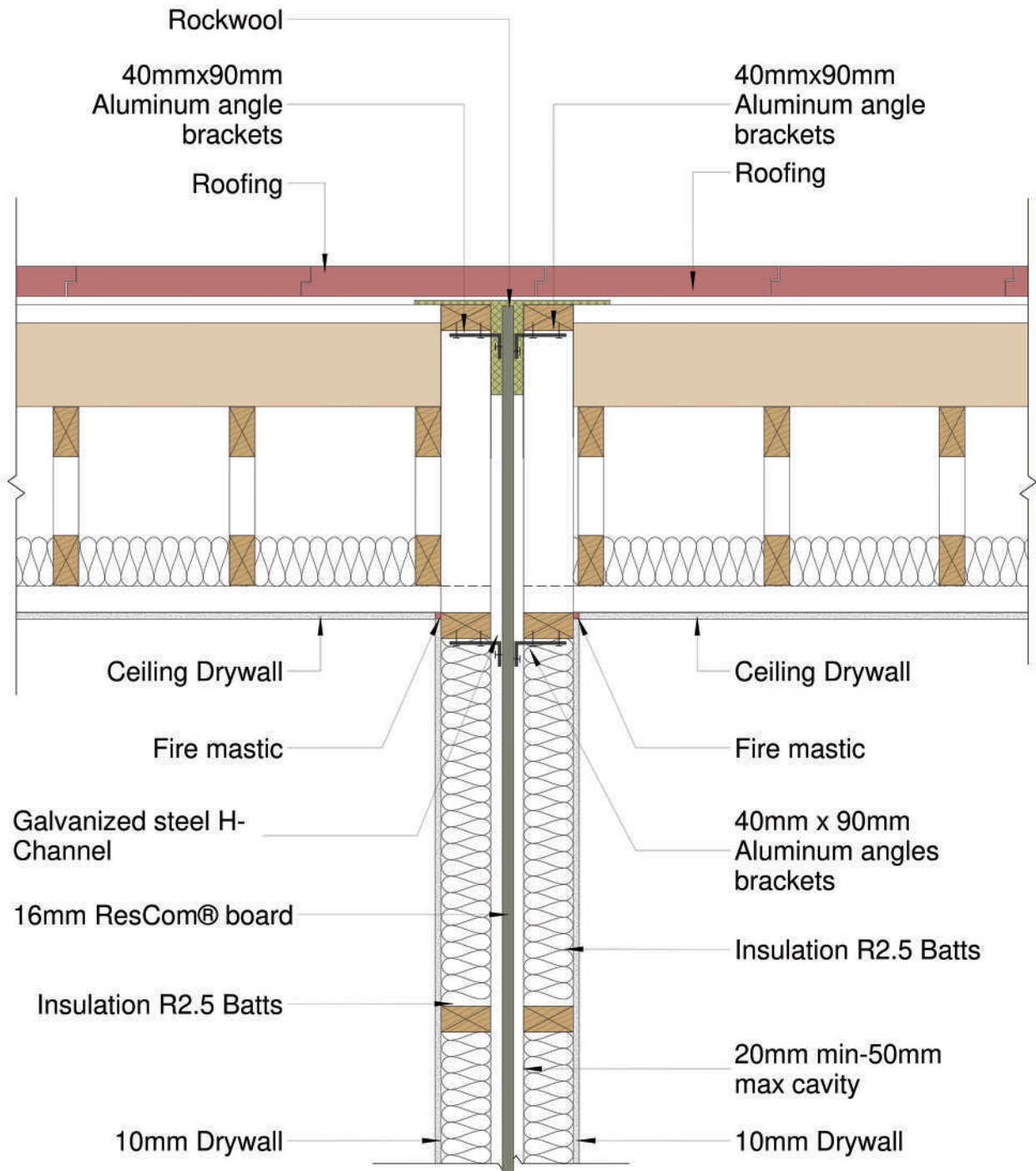


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# SHAFT AND PARTITION FIRE WALL GUIDE

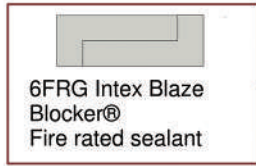


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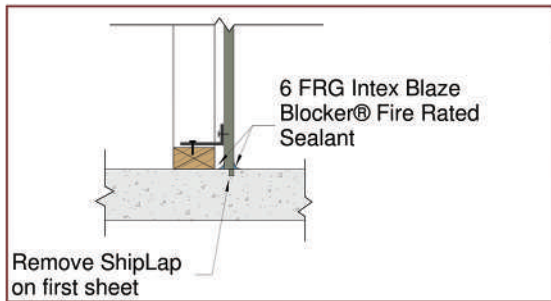
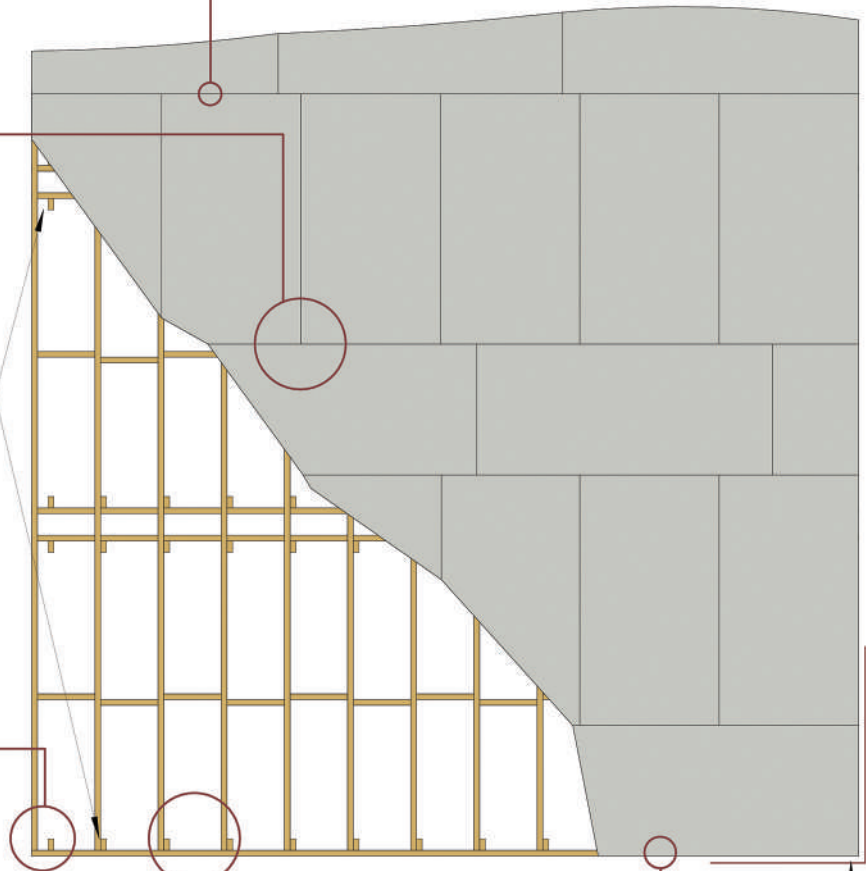
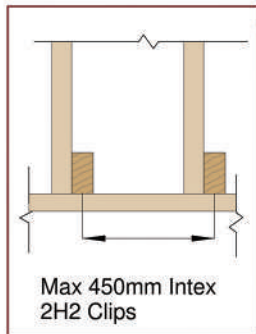
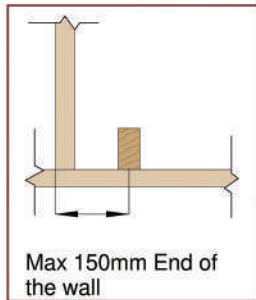
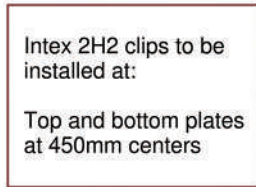
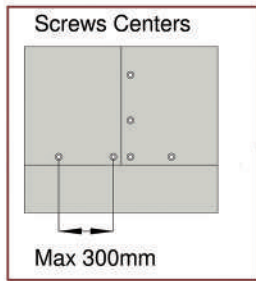
SPW-D5

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# SHAFT AND PARTITION FIRE WALL GUIDE



The RPW-/60 System is to be installed in alternating pattern, starting with the first board horizontal, then vertical and continue until the desired height is reached. All joints to be sealed with 6FRG Intex Blaze Blocker® Fire Rated Sealant



ShipLap to be removed on all wall terminations

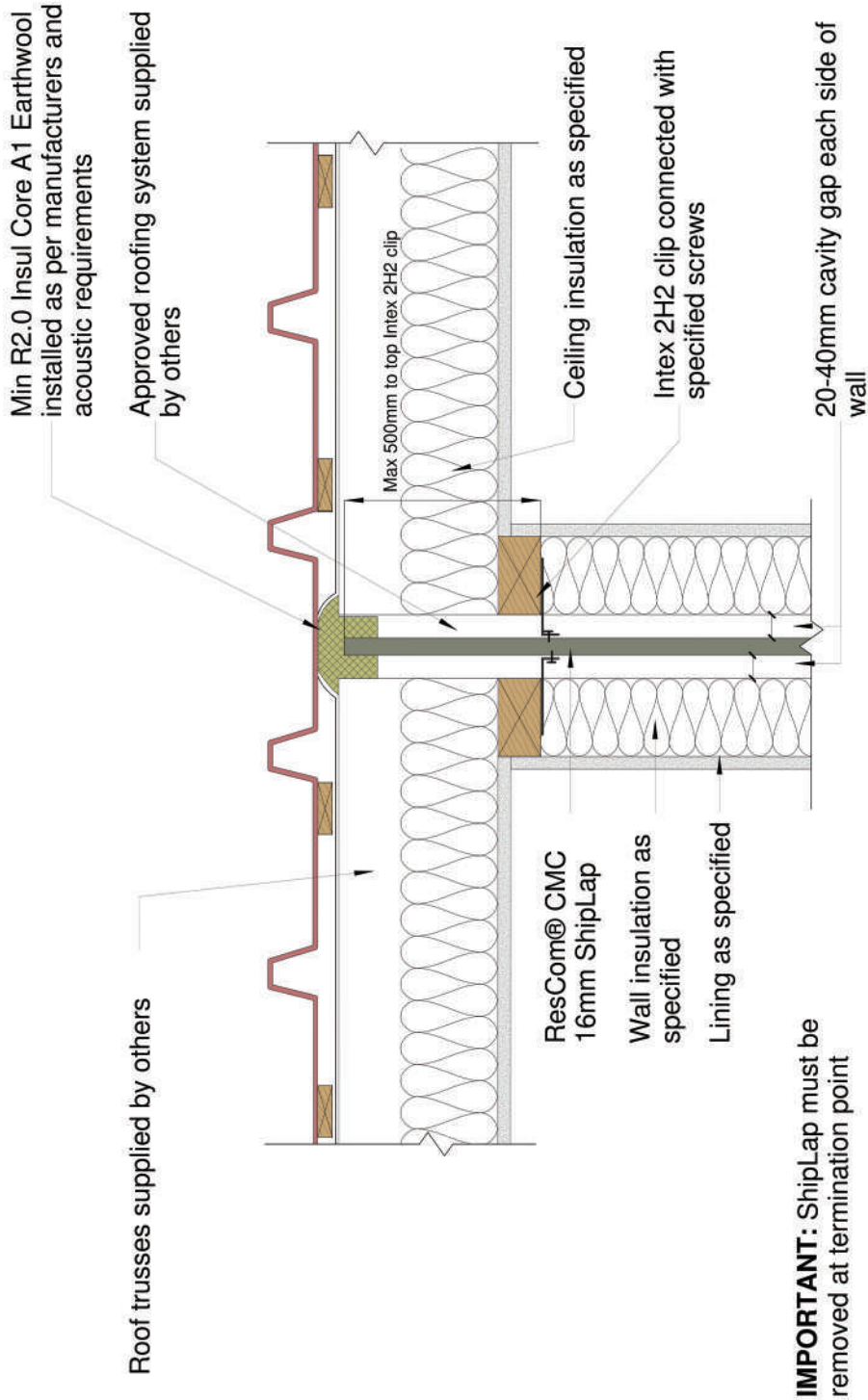
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SPW-D6-2H2 CLIP

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# SHAFT AND PARTITION FIRE WALL GUIDE

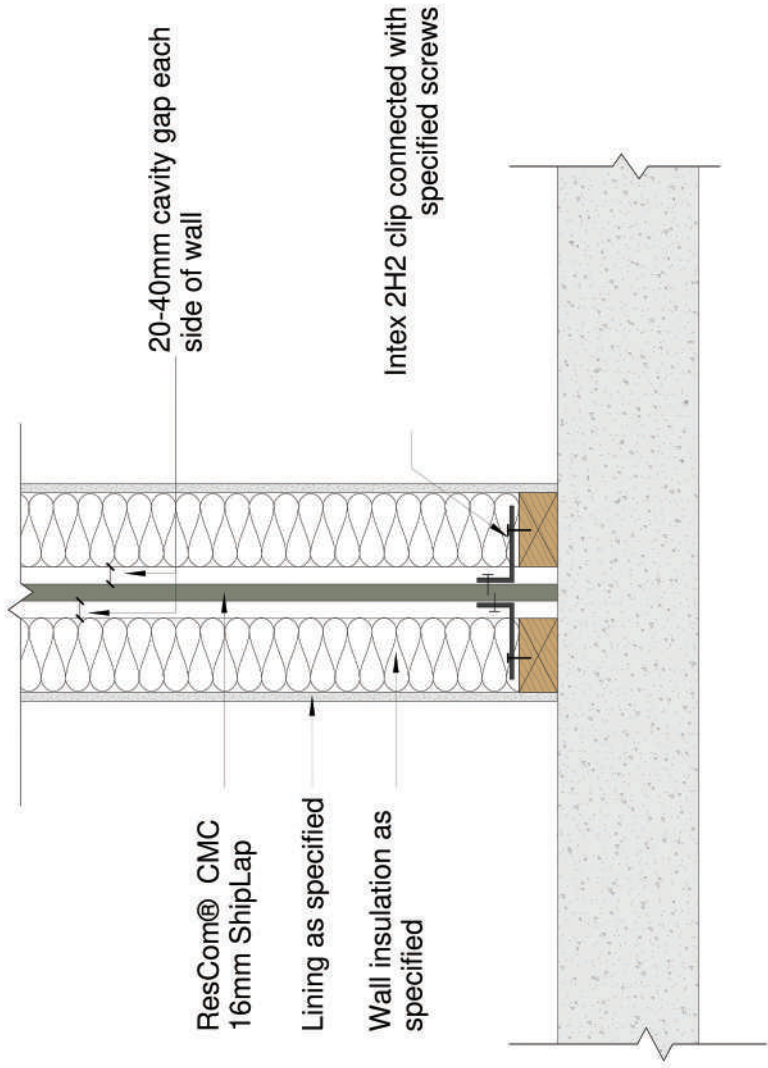


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# SHAFT AND PARTITION FIRE WALL GUIDE

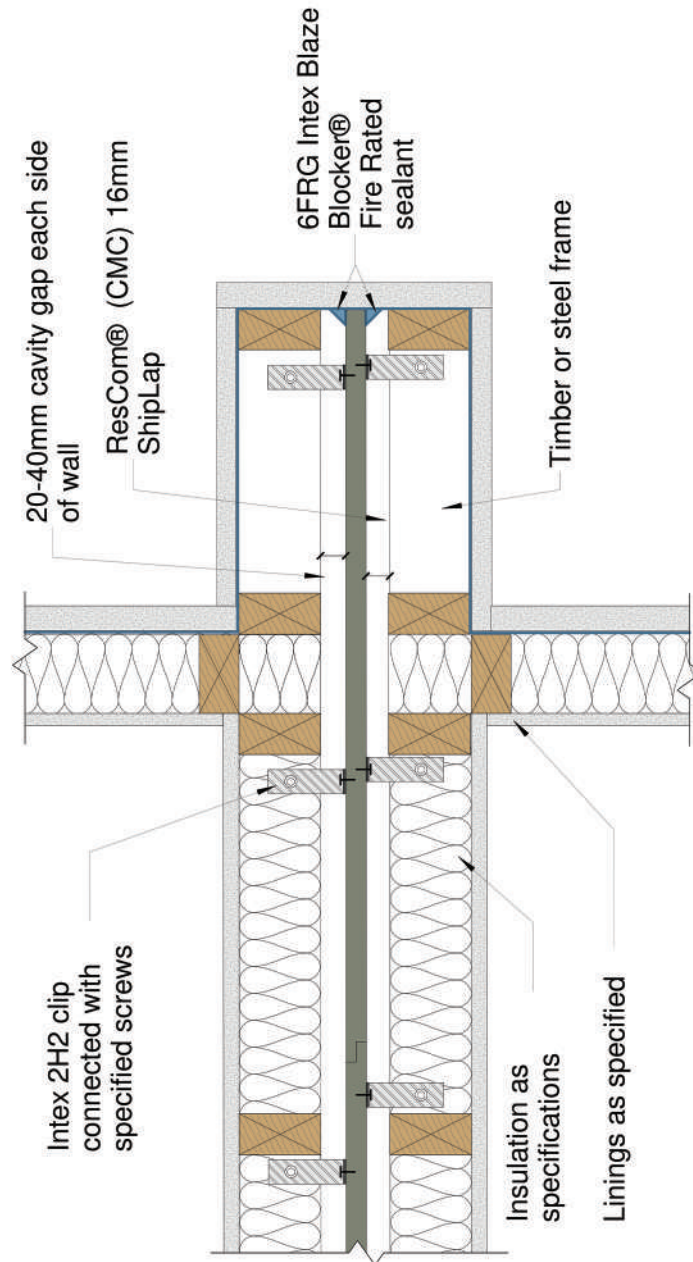


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SPW-D8-2H2 CLIP

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# SHAFT AND PARTITION FIRE WALL GUIDE

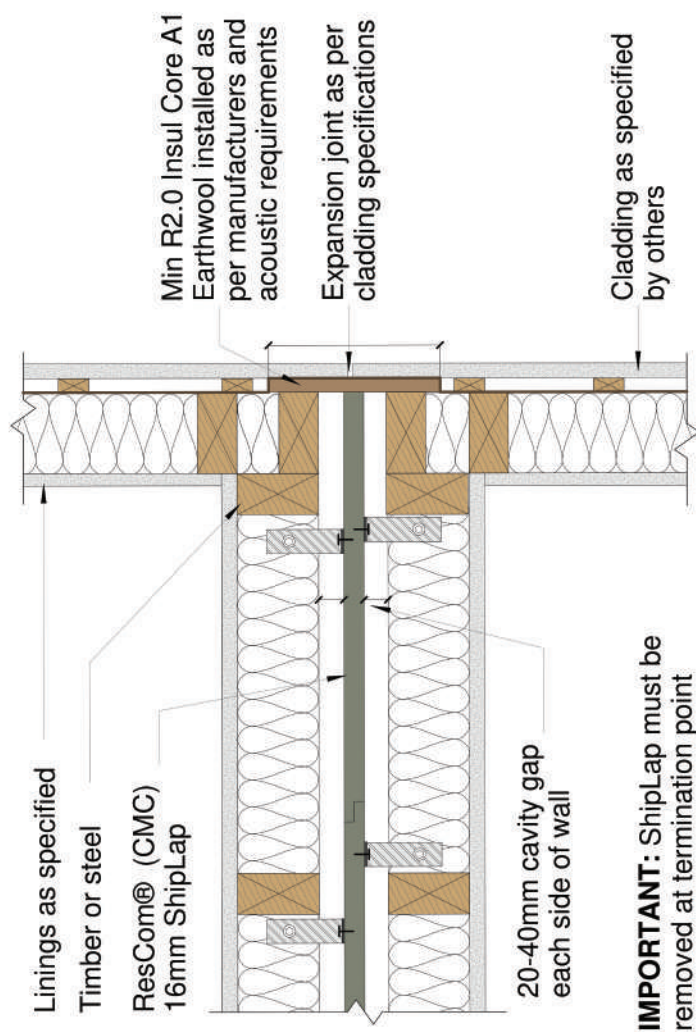


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SPW-D9-2H2 CLIP

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# SHAFT AND PARTITION FIRE WALL GUIDE

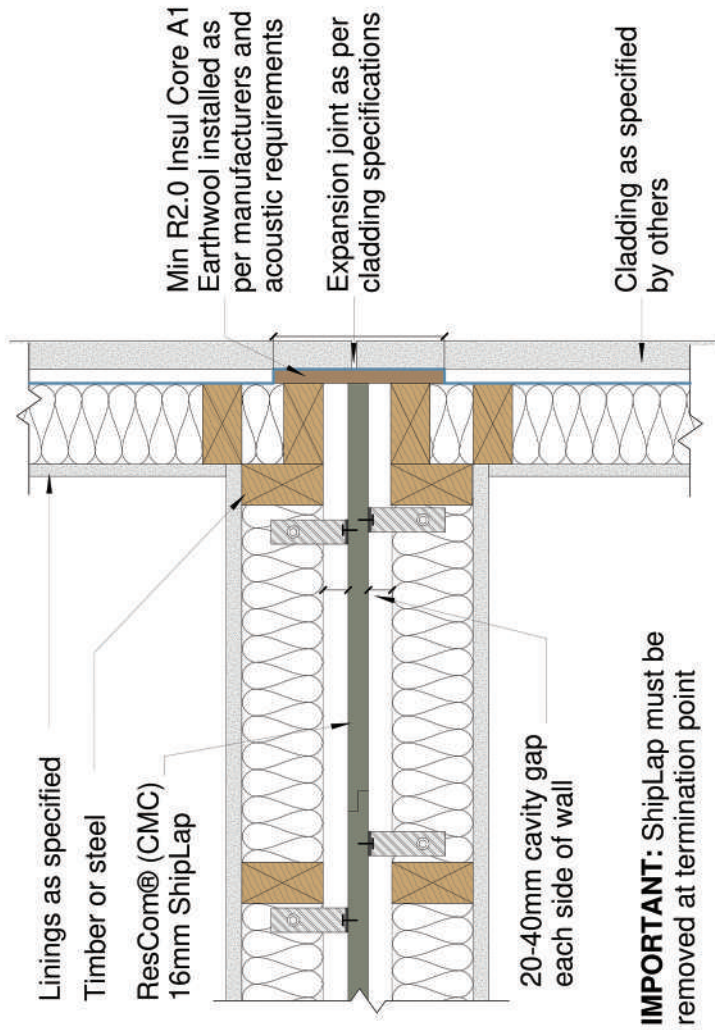


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SPW-D10-2H2 CLIP

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# SHAFT AND PARTITION FIRE WALL GUIDE



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SPW-D11-2H2 CLIP

**ResCom®**

# RESCOM® RAPID AIR-BARRIER BOARDS

## BOARD LAYOUTS:

ResCom® rapid air barrier board can be installed in a vertical or horizontal orientation as required onsite or as determined by the design engineers.

It is an important design aspect to always consider the depth of the cavity between the external façade, the depth of window and door reveals to assure that the correct thickness of air barrier is applied to the overall system.

## STANDARD SPECIFICATIONS:

### THICKNESSES:

6mm, 9mm, 12mm

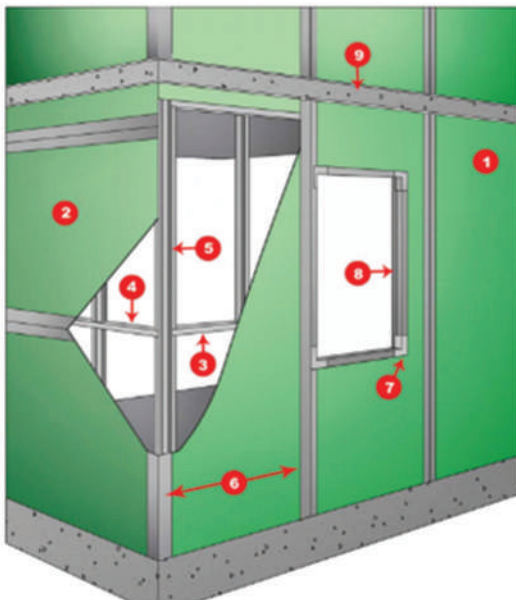
### SIZES:

1200mm x 2400mm, 2700mm, 3000mm (Sqr Edge)

610mm x 2400mm, 2700mm and 3000mm (ShipLap Edge)

910mm x 2400mm, 2700mm and 3000mm (ShipLap Edge)

1210mm x 2400mm, 2700mm and 3000mm (ShipLap Edge)



ResCom Air & Fire Barrier (RC-01)

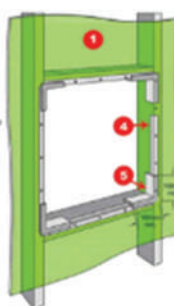
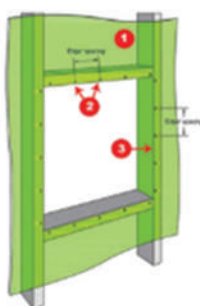
1. ResCom Rigid Air Barrier installed vertically
2. ResCom Rigid Air Barrier installed horizontally
3. Stud required behind vertical sheet joints. Optional - back blocking can be used if ResCom board is off stud min 150mm width back block to full length of the joint. Heavy caulk the back block and joint with Bostik Seal Flex 1/Advance.
4. Nogging or other similar framing required behind horizontal sheet joints. Back blocking can be used if ResCom board is off stud min 150mm width back block to full length of the joint. Heavy caulk the back block and joint with Bostik Seal n Flex 1/Advance.
5. Steel or timber framing
6. 3M-8067 Tape continuous at all joints and corners
7. Seal around corners of opening with 3M-8067
8. Seal around front edge of opening with 3M-8067
9. Bostik Seal n Flex sealant filled joint with backing rod

Installation with wind loads over 1.5kPa, ResCom Rigid Air Barrier should be used.

ResCom Board can be installed horizontally or vertically with a flexible tape applied across the joints continuously to limit air penetration.

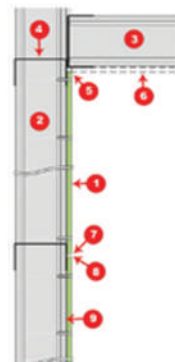
Flashings should be fixed over the top of the air barrier and taped.

3m All weather flashing tape (8067) or similar is to be fixed over the top of all vertical and horizontal joints, corners and junctions to limit air penetration.



Treatment at Window/Door Openings - ResCom Air & Fire Barrier (RC-02)

1. ResCom Air Barrier Board
2. Fix ResCom Rigid Air Barrier at 50mm from corners and at edge spacing
3. Form opening in ResCom Rigid Air Barrier
4. Seal around front edge of opening with 3M-8067 tape
5. Seal around corners of opening with 3M-8067 tape



Junctions at Soffit, Base and Horizontal Sheet Joint - ResCom Air & Fire Barrier (RC-03)

1. ResCom Air Barrier Board
2. Support framing
3. ResCom SIP or 8mm soffit framing
4. Nogging continuous or similar framing
5. 5-10mm Gap filled with continuous sealant
6. Soffit Lining
7. Horizontal Joint Between ResCom Air Barrier boards backed by nogging and sealed with 3M.8067 Tape
8. 1-3mm Maximum gap
9. ResCom Rigid Air Barrier fixed to studs

# FIRE AND ACOUSTIC GUIDE

ONE-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			ACOUSTIC OPINIONS			
FRL Reports / Opinions	System	Wall Linings	Stud Depth	70mm Light Gage Steel		
			Building Gap	0mm	20mm	40mm
			Cavity Insulation	Rw/Rw+Ctr		
30/30/30 (single direction)	BWS30LGS	External: 1 x 6mm ResCom Internal: 1 x 10mm Drywall	R2.0 Earthwool			
			R2.5 Earthwool			
			Overall Wall Thickness	86mm	106mm	126mm
60/60/60 (single direction)	BWS60LGS	External: 1 x 9mm ResCom Internal: 1 x 10mm Drywall	R2.5 Earthwool			
			50kgm3 Rigid Rockwool			
			Overall Wall Thickness	89mm	109mm	129mm
90/90/90 (single direction)	BWS90LGS	External: 1 x 12mm ResCom Internal: 2 x 10mm Drywall	70kgm3 Rigid Rockwool			
			Overall Wall Thickness	92mm	112mm	132mm

ONE-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			Stud Depth	92mm Light Gage Steel		
120/120/120 (single direction)	BWS120LGS	External: 1 x 16mm ResCom Internal: 1 x 13mm FR Drywall	70kgm3 Rigid Rockwool			
			Overall Wall Thickness	119mm	139mm	159mm
-/180/120 (single direction)	BWS180LGS	External: 2 x 16mm ResCom Internal: 1 x 13mm FR Drywall	140kgm3 Rigid Rockwool			
			Overall Wall Thickness	135mm	155mm	175mm
-/240/120 (single direction)	BWS240LGS	External: 3 x 16mm ResCom Internal: 2 x 13mm FR Drywall	180kgm3 Rigid Rockwool			
			Overall Wall Thickness	164mm	184mm	204mm

ONE-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			ACOUSTIC OPINIONS			
FRL Reports / Opinions	System	Wall Linings	Stud Depth	90mm M12 Timber		
			Building Gap	0mm	20mm	40mm
			Cavity Insulation	Rw/Rw+Ctr		
30/30/30 (single direction)	SWS30TB	External: 1 x 6mm ResCom Internal: 1 x 10mm Drywall	R2.0 Earthwool			
			R2.5 Earthwool			
			Overall Wall Thickness	106mm	126mm	146mm
60/60/60 (single direction)	SWS60TB	External: 1 x 9mm ResCom Internal: 1 x 10mm Drywall	R2.5 Earthwool			
			50kgm3 Rigid Rockwool			
			Overall Wall Thickness	109mm	129mm	149mm
90/90/90 (single direction)	SWS90TB	External: 1 x 12mm ResCom Internal: 1 x 10mm Drywall	70kgm3 Rigid Rockwool			
			Overall Wall Thickness	112mm	132mm	152mm
			120/120/120 (single direction)	SWS120TB	External: 1 x 16mm ResCom Internal: 1 x 10mm Drywall	70kgm3 Rigid Rockwool
Overall Wall Thickness	116mm	136mm	156mm			

ONE-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			Stud Depth	120mm M12 Timber		
-/180/120 (single direction)	SWS180TB	External: 2 x 16mm ResCom Internal: 1 x 13mm FR Drywall	140kgm3 Rigid Rockwool			
			Overall Wall Thickness	165	185	205
-/240/120 (single direction)	SWS240TB	External: 3 x 16mm ResCom Internal: 2 x 13mm FR Drywall	180kgm3 Rigid Rockwool			
			Overall Wall Thickness	194mm	214mm	234mm

# FIRE AND ACOUSTIC GUIDE

TWO-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			ACOUSTIC OPINIONS			
FRL Reports / Opinions	System	Wall Linings	Stud Depth	70mm Light Gage Steel		
			Building Gap	0mm	20mm	40mm
			Cavity Insulation	Rw/Rw+Ctr		
30/30/30 (Two direction)	DWS30LGS	External: 1 x 6mm ResCom Internal: 1 x 6mm ResCom or 1 x 13mm FR Drywall	R2.0 Earthwool			
			R2.5 Earthwool			
			Overall Wall Thickness - R	82mm	102mm	122mm
60/60/60 (Two direction)	DWS60LGS	External: 1 x 9mm ResCom Internal: 1 x 9mm ResCom or 1 x 13mm FR Drywall	R2.5 Earthwool			
			50kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	88mm	108mm	128mm
90/90/90 (Two direction)	DWS90LGS	External: 1 x 12mm ResCom Internal: 1x 12mm ResCom or 2 x 13mm FR Drywall	70kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	94mm	114mm	134mm

TWO-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			Stud Depth	92mm Light Gage Steel		
120/120/120 (Two direction)	DWS120LGS	External: 1 x 16mm ResCom Internal: 1 x 16mm ResCom or 3 x 13mm FR Drywall	70kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	124mm	144mm	164mm
-/180/120 (Two direction)	DWS180LGS	External: 2 x 16mm ResCom Internal: 2 x 16mm ResCom	140kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	134mm	154mm	174mm
-/240/120 (Two direction)	DWS240LGS	External: 3 x 16mm ResCom Internal: 3 x 16mm ResCom	180kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	188mm	208mm	228mm

TWO-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			ACOUSTIC OPINIONS			
FRL Reports / Opinions	System	Wall Linings	Stud Depth	90mm M12 Timber		
			Building Gap	0mm	20mm	40mm
			Cavity Insulation	Rw/Rw+Ctr		
30/30/30 (Two direction)	DWS30TB	External: 1 x 6mm ResCom Internal: 1 x 6mm ResCom or 1 x 13mm FR Drywall	R2.0 Earthwool			
			R2.5 Earthwool			
			Overall Wall Thickness - R	102mm	122mm	142mm
60/60/60 (Two direction)	DWS60TB	External: 1 x 9mm ResCom Internal: 1 x 9mm ResCom or 1 x 13mm FR Drywall	R2.5 Earthwool			
			50kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	108mm	128mm	148mm
90/90/90 (Two direction)	DWS90TB	External: 1 x 12mm ResCom Internal: 1 x 12mm ResCom or 2 x 13mm FR Drywall	70kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	114mm	134mm	154mm
			Overall Wall Thickness - R	122mm	142mm	162mm

TWO-WAY BOUNDARY / SEPARATION WALL SYSTEM SPECIFICATIONS			Stud Depth	120mm M12 Timber		
-/180/120 (Two direction)	DWS180TB	External: 2 x 16mm ResCom Internal: 2 x 16mm ResCom	140kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	184mm	204mm	224mm
-/240/120 (Two direction)	DWS240TB	External: 3 x 16mm ResCom Internal: 3 x 16mm ResCom	180kgm3 Rigid Rockwool			
			Overall Wall Thickness - R	216mm	236mm	256mm

APPROXIMATE WEIGHT OF RESCOM (CMC) PS5 LININGS (EXCLUDING SUB FRAME)						
Wall Height	Exterior Lining	Timber Frame	Length of Boundary Wall Modules			
			2.4m	2.7m	3.0m	6.0m
2.4m	9mm	90x45	70.30kg	79.05kg	87.85kg	175.70kg
2.7m	12mm	90x45	98.50kg	110.80kg	123.15kg	246.25kg
3.0m	16mm	90x45	138.25kg	155.55kg	172.80kg	345.60kg



# ENGINEERING

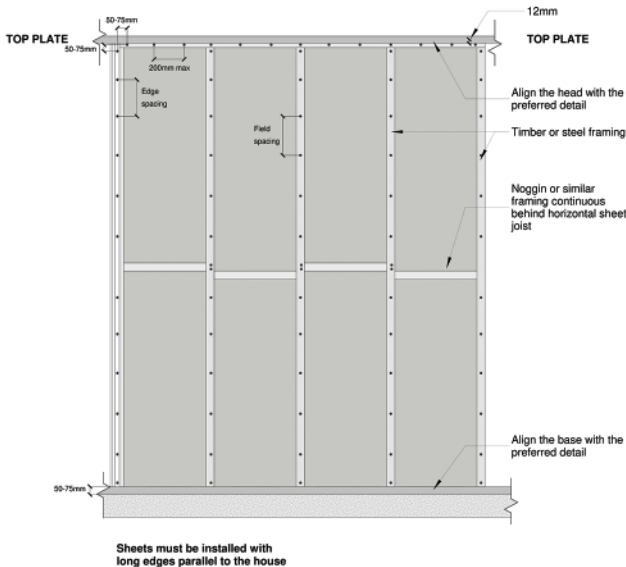
## SPAN TABLES / WIND LOADS AND FASTENERS SPACING

Span Tables / Wind Loadings and Fastener Spacings for ResCom (CMC) Rigid Air Barrier - **VERTICAL & HORIZONTAL**

**ST-V-D1** Installation **VERTICAL** Sheeting to Timber or LGS Framing

**ST-H-D2** Installation **HORIZONTAL** Sheeting to Timber or LGS Framing

### SPAN CHARTS/FASTENER SPACING AND WIND LOADS

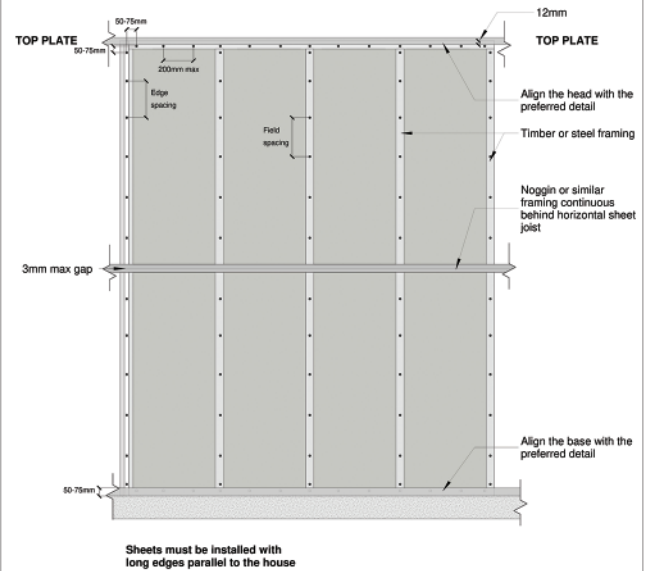


ResCom®

ST-V-D1

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### SPAN CHARTS/FASTENER SPACING AND WIND LOADS



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ST-H-D2

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#### Commercial Chart - Timber / LGS Framing

Wind Pressure (kPa)	Stud Centres (mm)	VERTICAL Span Chart	
		Fixing Centres (mm)	
		Edge	Field
1	600	400	300
2	400	400	250
3	400	400	150
4	300	400	150
5	300	300	125
5.5	300	300	100

#### Commercial Chart - Timber / LGS Framing

Wind Pressure (kPa)	Stud Centres (mm)	HORIZONTAL Span Chart	
		Fixing Centres (mm)	
		Edge	Field
1	600	400	300
2	600	400	150
3	400	400	150
4	400	300	125
5	400	250	100
6	300	275	100
7	300	275	100

# ENGINEERING



**RESIDENTIAL BUILDINGS - VERTICAL SPAN CHART - AIR BARRIER**

WIND CLASS (AS4055)	PANEL AREA Wall Areas > 1200mm from Corner of External Building			CORNER AREA Wall Areas < 1200mm from Corner of External Building		
	Wind Pressure (kPa)	Stud Centres (mm)	Fixing Centres (mm)	Stud Centres (mm)	Fixing Centres (mm)	
		Edge	Field		Edge	Field
N1	600	300	300	600	300	300
N2	600	300	300	600	300	250
N3/C1	600	300	300	400	300	250
N4/C2	400	300	300	400	300	150
N5/C3	400	300	200	300	300	250
N6/C4	400	300	150	300	275	115

**RESIDENTIAL BUILDINGS - HORIZONTAL SPAN CHART - AIR BARRIER**

WIND CLASS (AS4055)	PANEL AREA Wall Areas > 1200mm from Corner of External Building			CORNER AREA Wall Areas < 1200mm from Corner of External Building		
	Wind Pressure (kPa)	Stud Centres (mm)	Fixing Centres (mm)	Stud Centres (mm)	Fixing Centres (mm)	
		Edge	Field		Edge	Field
N1	600	300	300	600	300	300
N2	600	300	300	600	300	250
N3/C1	600	300	300	600	300	150
N4/C2	600	300	200	400	300	150
N5/C3	400	300	200	400	270	115
N6/C4	400	300	150	300	275	115

## BUILDING WALL WRAP - MINIMUM REQUIREMENTS

RECOMMENDED PRODUCT	WIND LOAD (Ultimate) kPa	MAXIMUM FRAMING CENTRES (mm)	MAXIMUM FIXING CENTRES (mm)
Enviroseal CW or CW-IT	1.2	600	300
Enviroseal HTR	1.5	600	300

## RESCOM PANEL DIMENTIONS

mm	Size	Kgm2 +/-5%
6mm	1200mm x 2700mm / 3000mm	9.2
9mm	1200mm x 2700mm / 3000mm	12.2
10mm	1200mm x 2700mm / 3000mm	13.2
12mm	1200mm x 2700mm / 3000mm	15.2
16mm	1200mm x 2700mm / 3000mm	19.2
20mm	1200mm x 2700mm / 3000mm	24

## ENGINEERING & DESIGN - CAVEAT

The specification and design of structural substrates / framing shall be in accordance with the National Construction Codes of the Country or Regions where ResCom (CMC) Exterior and Interior Linings are to be utilised. It is the PRIMARY responsibility of the Architect, Designer and the Structural Engineers to assure structural adequacy is achieved at all times. ResCom BP stipulates that the following minimum standards are to be met and serve as a guideline for Architects and Designers. Attention to the Beaufort Wind Scale requirements, AS1682 - Residential Timber-Framed Construction, AS/NZS4600 - Cold-Formed Steel Structures and the NASH Standards for Light Gage Steel.

## MILLIMETERES TO INCHES CONVERSION CHART

mm	inches	mm	inches
4	0.1575	600	23.6
6	0.2362	900	35.4
8	0.315	920	36.2
10	0.3937	1200	47.2
12	0.4724	1220	48
14	0.5512	2400	94.5
16	0.6299	2440	96.1
18	0.7087	2700	106
20	0.7874	2745	108
400	15.7	3000	118
450	17.7	3050	120

## GUIDE TO QUANTITY OF FIXINGS PER PANEL

STANDARD VERTICAL STUD FRAME SYSTEM		STANDARD VERTICAL STUD FRAME SYSTEM	
Standard Top Hats		Standard Top Hats	
Vertical Studs @ 400mm x 400mm		Vertical Studs @ 600mm x 600mm	
PANEL SIZE	SCREW PER PANEL	PANEL SIZE	SCREW PER PANEL
1200mm x 2400mm	52	1200mm x 2400mm	52
1200mm x 2700mm	58	1200mm x 2700mm	56
1200mm x 3000mm	62	1200mm x 3000mm	59
Plus, Horizontal Stud @ 1200mm Additional 8 Screws		Horizontal Stud @ 1200mm	

STANDARD VERTICAL STUD FRAME SYSTEM		HORIZONTAL & VERTICAL STUD FRAME SYSTEM	
Standard Top Hats		Standard Top Hats	
Vertical Studs @ 600mm x 600mm		Vertical Studs @ 600mm x 600mm	
Vertical Back to Back Stud @ 1200mm		Horizontal Back-to-Back Stud @ 1200mm	
		Vertical Back-to-Back Stud @ 1200mm	
PANEL SIZE	SCREW PER PANEL	PANEL SIZE	SCREW PER PANEL
1200mm x 2400mm	44	1200mm x 2400mm	64
1200mm x 2700mm	49	1200mm x 2700mm	68
1200mm x 3000mm	52	1200mm x 3000mm	71

VERTICAL STUD FRAME SYSTEM WITH BACK-TO-BACK	
Standard Top Hats	
Vertical Studs @ 600mm x 600mm	
Vertical Back-to-Back Stud @ 1200mm	
PANEL SIZE	SCREW PER PANEL
1200mm x 2400mm	40
1200mm x 2700mm	44
1200mm x 3000mm	47

### NOTE

All screw or nail fixings will be a minimum Class 3 to 5 (Non-Corrosive) Min No. \8gx40 self-drilling countersunk type fixed at max 300mm centres and will finish at approximately 0.5mm below the surface and be capped to protect against weather, moisture foreign elements that may cause corrosion. In corrosive environments, wet areas, and exterior applications it is mandatory to use as a minimum quality SPAK 304 or 316 stainless steel non-corrosive fixtures and fittings or similar.



## **DETERMINING WHETHER RESCOM® (CMC) MATERIALS ARE SUITABLE FOR THE PROPOSED APPLICATION.**

It is important to address the buildings design elements when considering the application of the use of ResCom® ridge air barrier. Given this it is the responsibility of the building designer / architectural designers to ensure that the design conforms to NCC and or state building code requirements and other relevant building standards that may exist for that location.

The ResCom® BP's Technical Manual, should be read in conjunction with the NCC 2022.

In the event that the information in the technical installation manual is in conflict with the NCC and or state building code requirements then the NCC / State Code requirements takes precedents over the ResCom® Technical Installation Manual.

During installation it is a requirement to use the appropriate fasteners are used and that structural framing is designed and specified as required to resist relevant wind loads within the proposed location of the building. It is recommended that the responsibility for the structural performances of the façade design is assigned by the building designer / project architect to the qualified structural engineer, to assure accordance with AS1170.2 Structural Design Actions Part 2: Wind Actions. On confirmation from the engineers of the implied wind loads and issuing of the span tables, the building designer / architects can then apply the specification for the fastener spacing's, wall wrap and panel fixing details.

It is also important that consideration and specification is detailed by the building designer / architects to the risks associated with corrosive zones / environments as per AS:4312, as well as the extent amount of exposure to the elements of impact, rain and ultraviolet rays that the ResCom® Board board may encounter prior to external finishings being installed.

## ATTENTION TO JOINTS:

### VERTICAL CONTROL JOINTS

When installing ResCom® rigid air barrier, the vertical control joints should be aligned with the vertical movement control joints provided in the framing and at junctions of different framing materials.

Vertical joints between panels must be supported by framing and the horizontal panel joints backed by noggins. AS/NZS1170.0 Table C1 suggests that support framing be designed for a maximum deflection of span / 250.

Areas of sheet bracing that have been assessed as suitable to perform as a rigid air barrier may be used in conjunction with ResCom® rigid air barrier boards. Care should be taken to ensure an effective seal is applied across the different materials within the overall system.

### HORIZONTAL CONTROL JOINTS

When installing ResCom® rigid air barrier, a horizontal control joint is required at the floor junction to accommodate deflection. The gage / extent of the required deflection is to be verified by the structural engineer.

### CONTROL JOINTS

The control joint is located between the sheets and set over. When the compound is dry, the filament tape is removed leaving a clean, well-formed joint.

Door frames extending from floor to ceiling constitute control joints. For doors less than ceiling height, control joints extending from both corners of the frame to ceiling may be used.

### CONTROL JOINTS ARE TO BE INSTALLED

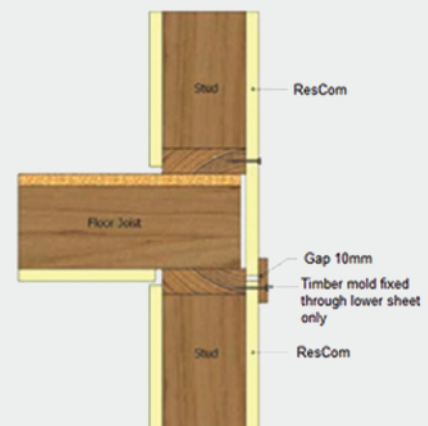
In long partition or wall runs at no more than 12mtr. To coincide with control joints in the supporting frame. The continuity of ResCom® Board and support framework should be broken at control joints. In continuous ceiling areas, spaced at no more than 12mtrs in both directions. Control joints may be positioned to intersect light fixtures, heating vents and air diffusers.

Between floor levels, e.g. in stairwells.

#### DOOR JAMBS

##### INSTALLATION OF CONTROL JOINT

- Allow a 20mm maximum gap between ends of ResCom® Board sheets or as advised by ResCom® BP.
- Locate control joint, centrally in gap. Fasten flanges and ResCom® Board sheets to frame at a maximum of 300mm centres.
- Set over bead as for normal joint application using centre channel ribs as screeding guides.
- Finish the joint in the normal manner. When the joint is dry, remove the filament tape.



## STANDARD TIMBER JAMB

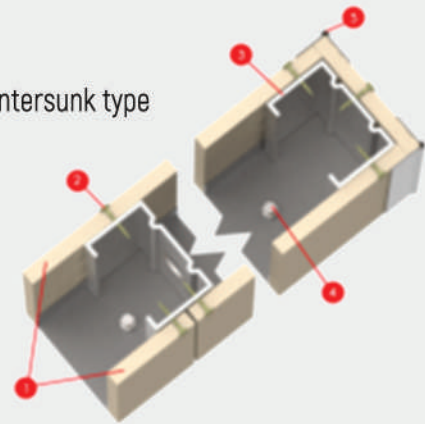
- Install ResCom® Board to finish flush with the side of the opening stud.  
The appropriate width door jamb is then installed to the side of the opening stud (with packing as required).
- Architraves are then fitted over the junction of the ResCom Board and the door jamb by fastening them through to the opening stud.

## BUTT JOINTS ON FRAMING

Where butt jointing on frames is permitted, butt ends of sheets centrally on framing member and screw each sheet at 150mm maximum centres or screw fixed at 200mm maximum centres. Position fasteners opposite each other at between 12mm to 15mm from the ends of the sheets.

1. ResCom®
2. Screws will be non-corrosive class 3 to 5 No.8 x 40 self-drilling countersunk type or minimum grade 316 stainless steel non-corrosive nails.
3. Metal studs maximum 600mm centres
4. Bottom track fastened to floor
5. External angle bead and compound

\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates.



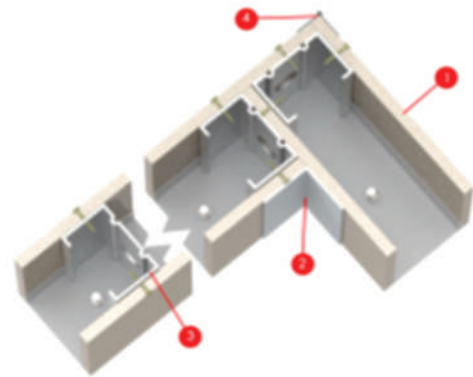
## CORNER JUNCTION

1. ResCom® Wall Board
2. Fabric tape and compound to set corner as required
3. Metal studs maximum 600mm centres
4. External angle bead and compound

\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates.

\* Metal framing as per manufacturers specifications for installation.

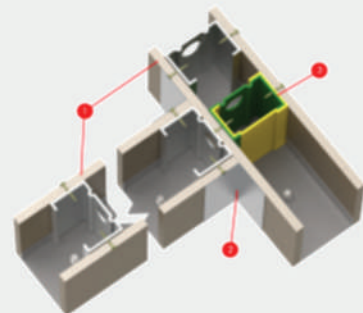
\* 100mm maximum to first track fixing



## T-JUNCTION

1. ResCom® Wall Board
2. Fabric tape and compound to set corner as required
3. Boxed stud at wall intersection

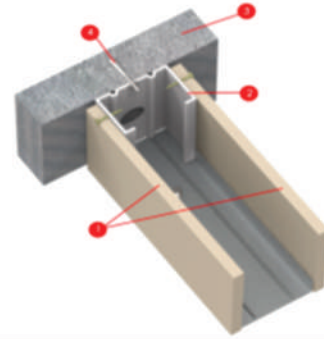
\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates.



## CONCRETE WALL CONNECTION

1. ResCom® Wall Board
2. Metal studs maximum 600mm centres
3. Concrete wall or slab
4. Anchor bolt

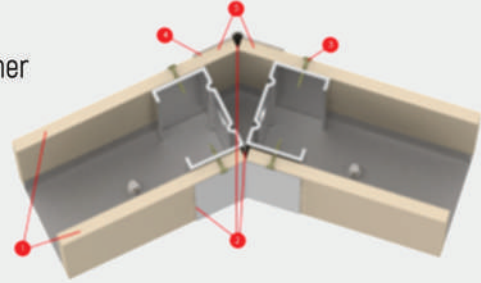
\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates.



## ANGLE WALL JUNCTION

1. ResCom® Board
2. Fill corner void with fire and acoustic acrylic sealant. Set corner with internal angle bead tape and compound
3. Screws will be non-corrosive class 3 to
- 5 No.8 x 40 self-drilling countersunk type or minimum grade 316 stainless steel noncorrosive nails
4. External angle bead and compound
5. Allow full height shear support when wall angle is more than 25

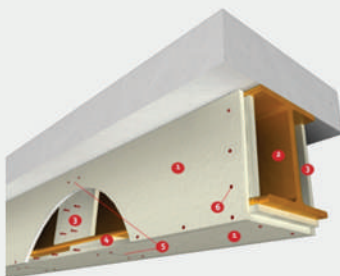
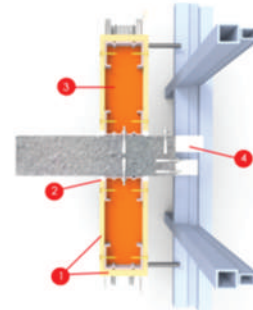
\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates.



## METAL FRAME SYSTEM TO CONCRETE WALL

1. ResCom® Board
2. Metal studs maximum 600mm centres
3. Concrete wall or slab
4. Anchor bolt

\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates.



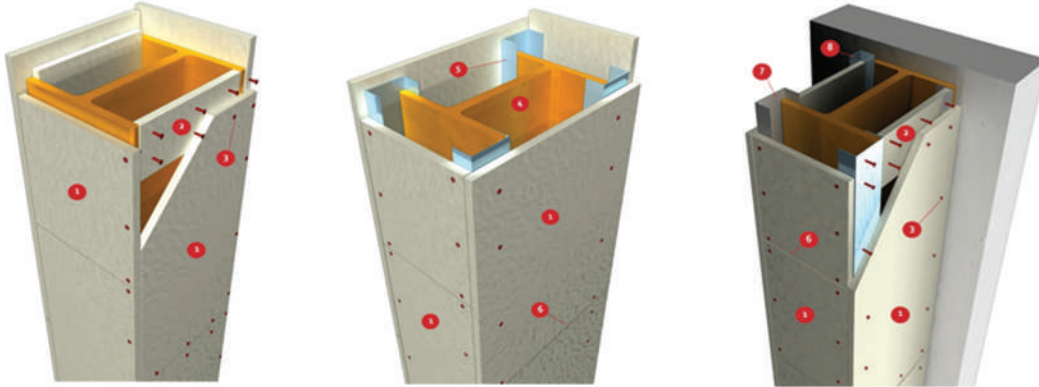
## BEAM CLADDING: (REFER FIRE ENGINEERING EVALUATION REPORT)

1. ResCom® Board
2. Structural Steel Beam
3. ResCom® soldiers the same thickness as used, 100mm wide wedged into steel at butt joints.
4. ResCom® cover strips, 100mm wide laid over joints.
5. Staggered joints.
6. Non-corrosive class 3 to 5 No.8 x 40 self-drilling countersunk type screws or minimum grade 316 stainless steel non-corrosive nails.
7. Non-corrosive steel angle
8. Non-corrosive steel channel

\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates.



## COLUMN CLADDING: (REFER TO FIRE ENGINEERING EVALUATION REPORT)



1. ResCom® Board
2. ResCom® soldiers the same thickness as board used, 100mm wide wedged into steel at butt joints.
3. Non-corrosive class 3 to 5 No.8 x 40 self-drilling countersunk type screws or minimum grade 316 stainless steel non-corrosive nails.
4. Structural Steel Column.
5. Non-corrosive Steel Channel.
6. Horizontal Butt Joint
7. Non-corrosive steel channel
8. Non-corrosive steel angle

\* Mastic tape or silicone bead is recommended for use on steel beams to prevent moisture build up between substrates. Use of Rockwool or similar bulk insulation maybe used in the voids of the columns to reduce build-up of thermal heat and add protection to the substructure from thermal transmission.

## PENETRATIONS

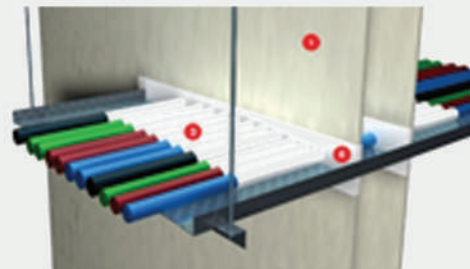
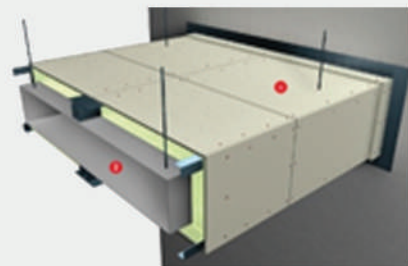
(Refer to Fire Engineer Evaluation Report No. 4099.3 101R00)

ResCom® Board complies with the relevant New Zealand Building Codes as detailed in the independent fire engineer's evaluation report #4099.3 101R00

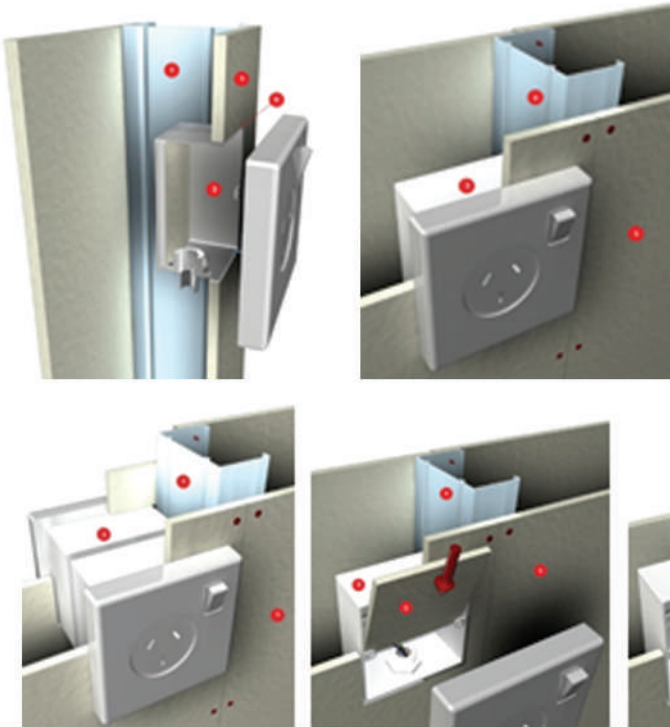
### DUCT AND ELECTRICAL WIRE INSTALLATION

1. ResCom® Board
2. Ventilation duct
3. Electrical cables
4. Acrylic sealant

\* Fire Rated Mastics or silicones are recommended for use on steel beams to prevent moisture build up between substrates and add additional thermal protection.



## POWER POINT INSTALLATION



1. ResCom® Board
2. Non-corrosive steel stud
3. Fire resistant switch box
4. Fire mastic/sealant
5. Fire resistant switch box
6. Electrical wiring
7. Switch box cover

## EDGE PROFILES

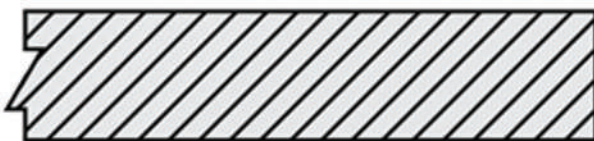
### RESCOM® BOARD RECESSED EDGE

- Depth 1.5mm x 25mm width recess on the long face side allows joint reinforcement
- Provides a smooth even and continuous surface once jointed

Type 1 Edge



Square Edge



### RESCOM® BOARD SQUARE EDGE

- Square edge finishing
- The square edge allows sheets to be butted together neatly
- These joints may be covered with aluminium, vinyl or timber mouldings

### RESCOM® BOARD SQUARE EDGE

- ShipLap edge finishing
- Removes thermal breach and delivers superior protection from fire, water and weather.
- Available on PS5 Ranges 12mm to 20mm Thickness Boards

Shiplap

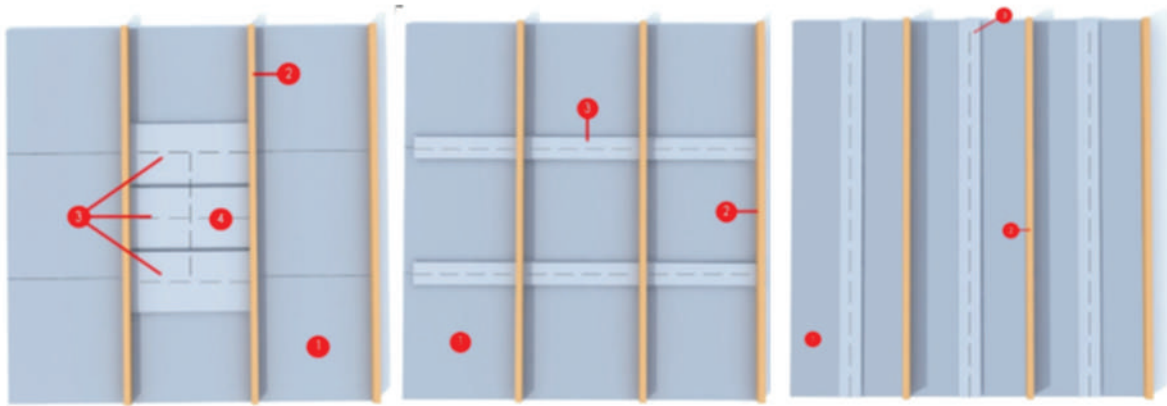


## BACK-BLOCKING JOINTS

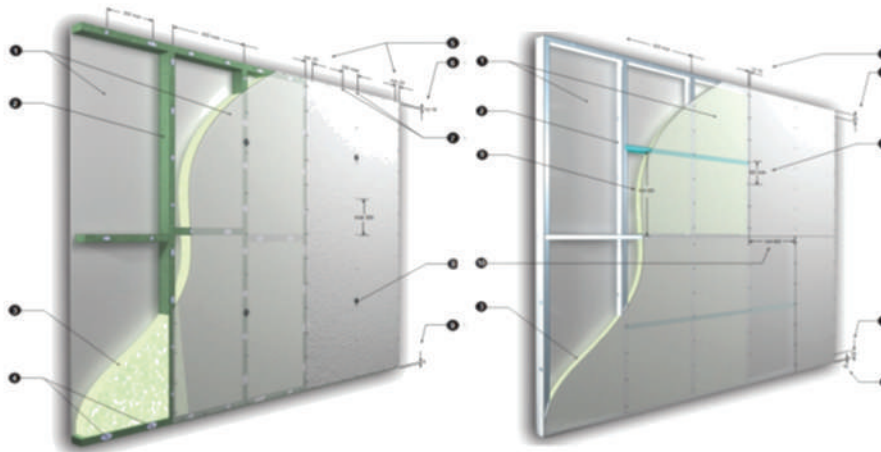
Back-blocking is a reinforcing system where pieces of ResCom® Board are laminated to the back of the sheets, behind joints.

Back-blocking is to be used on all butt joints formed between framing members and on recessed joints where indicated. See requirements in Tables 2, 3 and 4. Where mid-span butt or end joints are not required but are used to minimise ResCom® Board wastage, these joints must also be back blocked.

All mid-span joints must be positioned within 50mm of the mid-span point between the framing members. Fix back-blocks with cornice fibre cement applied with a notched spreader to form beads 6mm x 6mm at approximately 20mm centres over the entire face of the back-block.



## BOARD LAYOUTS



ResCom® (CMC) board can be installed in a vertical or horizontal orientation as required onsite or as determined by the design engineers.

To reduce the risk of thermal / moisture or air breaches at the joints it is important to assure that all joints are backed by framing or have a minimum 150mm width ResCom® furring back block applied to the full length behind the joint. (not required when utilising ShipLap joints that are sealed with flexible waterproof compounds).

It is an important design aspect to always consider the depth of the cavity between the external façade, the depth of window and door reveals to assure that the correct thickness of air barrier is applied to the overall system.

Vertical and horizontal span tables provided in the technical installation manual.

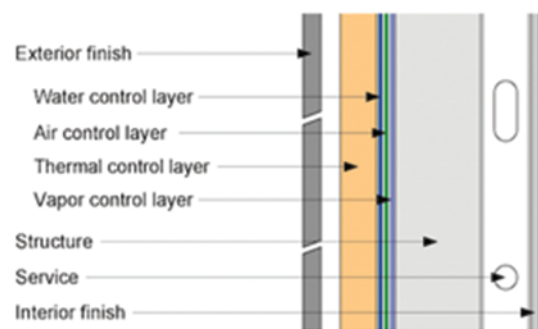
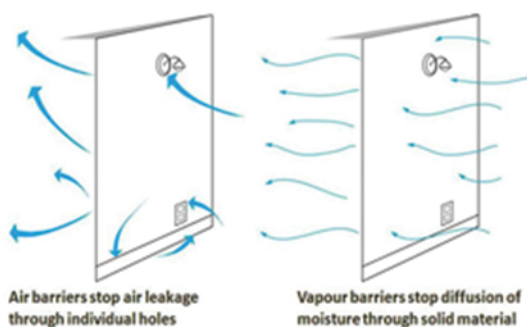
## MOISTURE MANAGEMENT:

To ensure occupant comfort and protection of the building frame, the following factors should be considered during the selection of the correct air barrier.

## CONDENSATION RISK:

This is a complex problem and can occur under a variety of conditions (not just in cold and tropical climates), so selection of the right wall wrap needs to consider the local climate, building use and orientation, material R-value of the insulation, as well as the degree and location of ventilation.

Careful selection of a wall wrap with the appropriate level of vapor permeability or vapor resistance is one key factor in reducing condensation risk.



Key selection characteristics for a suitable wall wrap to manage condensation are as follows:

The wall wrap must have a "high" water barrier classification – an "unclassified" rating is not suitable.

Wall wrap must meet the requirements of AS/NZS4200.1-2017 Pliable building membranes and underlays – Installation requirements AS/NZS4200.2:2017 to separate the wall lining panels from any water sensitive materials as per the requirements of Part 10.8.1 of the ABCB Housing provisions.

The external wall wrap must be sealed to maintain vapor performance and draught proofing effectiveness, as well as to ensure air barrier integrity.

The minimum clearance between the underside of the ResCom® (CMC) Panels and the adjoining surface level below must comply with the specifications in Part 7.5.7 of the ABCB Housing provisions.

There are a number of factors that need to be considered when assessing and managing condensation risk, it is recommended that building designers / architects seek professional guidance from moisture management experts such as TREMCO or similar dedicated moisture management companies undertake risk analysis prior to wall wrap selection as part of the building design.

## WATERPROOFING:

For compliance with HP2P2 and P2P3, a damp proof course must be installed as per the ResCom® (CMC) Technical Installation Guide.

To satisfy HP2P2 via verification, the relevant design is required to meet the criteria of H2V1 to the satisfaction of the appropriate authority as defined by the NCC. The site-specific building must;

- (i) Has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table H2V1a;
- (ii) Is not subjected to an ultimate limit state wind pressure of more than 2.5 kPa; and
- (iii) Includes only windows that comply with AS 2047.

## CLIMATE CONDITIONS:

Rust & Corrosion of all forms is primary issue around the world due to a lot of varying environmental situations of which need to be addressed to minimize or remove potential risks (Corrosive zones are detailed in AS4312:2019) Failure to adhere to the requirements as detailed under the NCC when installing in corrosive zones may void any or all products warranties.

## FIXTURES AND FITTINGS:

In C3 Coastal Zones and Corrosive Air Zones, fixtures and fittings must be of high-grade stainless-steel screws or nails. In Non-corrosive environments the use of Fibre Cement Self-tapering Class 4 mechanical fixing are able to be used (except in bathroom or wet areas). It is the responsibility of the building designer / architects to assess and specify the correct level of fixtures, fittings and installation guidelines required for the project in accordance with the ResCom® technical installation guidelines, local conditions and or the National Construction Code (NCC) within the designated country.

It is a requirement when installing by ResCom® air barrier board that high-grade stainless-steel screws or nails are always used. The head of the screw or nail is to be countersink approximately 0.05 to 1mm below the surface of the board, remove residual dust from the screw surface, cap or coat the screws with exterior caulking compound / waterproof binder sealer to protect the screws from the moisture and potential of corrosion.

## COASTAL ZONES:

When installing within Coastal C3 zones (1klm to 10klm) that maybe subject to high salt spray or within a corrosive zone as per AS4312:2019, additional coatings or protection may be required to assure the durability and protection of the building system. It is the responsibility of the building designer / architects to assess and specify the correct level of coatings and finishes to be applied to the panels.

# PRODUCT RANGES AND APPLICATIONS

ResCom® (CMC) Patented and engineered ISO:8336 Certified fibre reinforced flat sheet magnesia cement lining products come in several fit for purpose ranges. Customers have a selection of exterior and interior lining products that are unique as they offer multiple applications in a single lining:

## GENERAL PURPOSE RANGE (GP)

**Intended Use:** Residential and Commercial

**Testing and Compliance:** Independently tested at ILAC accredited third party laboratories as required by the National Construction Codes (NCC) of Australia, New Zealand, North America, United Kingdom, Ireland and UAE

(Refer tested standards and reports online at [www.rescombp.com](http://www.rescombp.com))

**Applications:** Internal walls, ceilings, tile backer, flooring overlay, door, skirting and window trims

**Performance:** Impact resistant, Mould Resistant, Non-Toxic

**Fire Performance:** A1 / Group A Non-Combustible

**Incipient Spread of Flame:** Zero

**Bushfire / Wildfire Zones:** Meets and exceeds BAL:29 to BAL:FZ Ratings

**Thermal Resistance 10mm:** ASTM C518-10 (m<sup>2</sup>.K/W) 0.027

**Thermal Conductivity 10mm:** ASTM C518-10 (W/mK) 0.44

**Transverse Load-Roof 10mm ASTM:E72-22 Sec 20 & ASTM:E2322-22 Sec 12 Span 400mm:** 3.08(kN) average

**Concentrated Load-Roof 10mm ASTM:E72-22 Sec 21 & ASTM:E2322-22 Sec 13:** Average Deflection 0.20mm

**Concentrated Load-Roof 10mm ASTM:E72-22 & ASTM:E2322-22 Sec 13:** Average Indentation 0.02mm

**Colour:** White / Light Cream

**Thicknesses:** 8mm to 16mm

**Lengths in Imperial / Metric:** 2400mm, 2700mm and 3000mm

**Width in Imperial / Metric:** Standard 1200mm, Custom Size 400mm, 600mm, 900mm

**Edge Profiles:** Square, Recessed or ShipLap on thicknesses > 12mm

**Workability:** Can be scored with sharp blade and snapped, cut with a handsaw, circular saw, sanded, rendered, painted, tiled

**Toxicity:** Zero TVOC's, No Benzines, No Formaldehyde

**Not Intended for use in:** Bathrooms / Wet Areas

**Base Technical Data:** Please review online the technical data guide

**Storage and Handling:** Referrer to MSDS at [www.rescombp.com](http://www.rescombp.com)

## HIGH PERFORMANCE RANGE (HP)

**Intended Use:** Commercial and Residential

**Testing and Compliance:** Independently tested at ILAC accredited third party laboratories as required by the National Construction Codes (NCC) of Australia, New Zealand, North America, United Kingdom, Ireland and UAE

(Refer tested standards and reports online at [www.rescombp.com](http://www.rescombp.com))

**Applications:** External and Internal walls, ceilings, Façade Cladding, Boundary walls, Shaft-liner, Air-Barrier, Rainscreen, Eaves, Soffits, Inter-tenancy Separation walls, Protection of Columns and Beams, Impact Protection, Tile backer, Flooring overlay, door, Skirting and Window trims,

**Performance:** Impact resistant, Mould Resistant, Non-Toxic

**Fire Performance:** A1 / Group A Non-Combustible

**Incipient Spread of Flame:** Zero

**Bushfire / Wildfire Zones:** Meets and exceeds BAL:29 to BAL:FZ Ratings

**Thermal Resistance 12mm:** ASTM C518-10 (m<sup>2</sup>.K/W) 0.027

**Thermal Conductivity 12mm:** ASTM C518-10 (W/mK) 0.44

**Transverse Load-Roof 12mm ASTM: E72-22 Sec 20 & ASTM:E2322-22 Sec 12 Span 600mm:** 2.20(kN) average

**Concentrated Load-Roof 12mm ASTM: E72-22 Sec 21 & ASTM:E2322-22 Sec 13:** Average Deflection 0.22mm

**Concentrated Load-Roof 12mm ASTM: E72-22 & ASTM:E2322-22 Sec 13:** Average Indentation 0.03mm

**Colour:** Dark Gray

**Thicknesses:** 6mm to 20mm

**Lengths in Imperial / Metric:** 2400mm, 2700mm and 3000mm

**Width in Imperial / Metric:** Standard 1200mm Custom Size 400mm, 600mm, 900mm

**Edge Profiles:** Square, Recessed or ShipLap on thicknesses > 9mm

**Workability:** Cut with handsaw <10mm, Circular saw. Able to be routed and profiled by hand or by CNC. Can be sanded, rendered, painted and tiled

**Toxicity:** Zero TVOC's, No Benzenes, No Formaldehyde

**Storage and Handling:** Referrer to MSDS at [www.rescombp.com](http://www.rescombp.com)

## STRUCTURAL FLOORING RANGE (SF)

**Intended Use:** Commercial and Residential

**Testing and Compliance:** Independently tested at ILAC accredited third party laboratories as required by the National Construction Codes (NCC) of Australia, New Zealand, North America, United Kingdom, Ireland and UAE  
(Refer tested standards and reports online at [www.rescombp.com](http://www.rescombp.com))

**Applications:** Loadbearing and Non Loadbearing Structural Flooring Systems

**Spans:** 400mm o/c, 450mm o/c, 600mm o/c

(Refer Engineering Span Charts at [www.rescombp.com](http://www.rescombp.com))

**Young's Modulus 20mm AS/NZS:2908.2-2000:** Average 5.56Gpa

**Modulus of Rupture 20mm AS/NZS:2908.2-2000:** Average 6.40Mpa

**Transverse Load-Floor 20mm ASTM:E72-22 & ASTM:E2322-22 Sec 10 Span 450mm:** 9.75(kN) average

**Concentrated Load-Floor 20mm ASTM:E72-22 & ASTM:E2322-22 Sec 11:** Average Deflection 0.24mm

**Concentrated Load-Floor 20mm ASTM:E72-22 & ASTM:E2322-22 Sec 11:** Average Indentation 0.03mm

**Performance:** Water Resistant, Impact resistant, Mould Resistant, Non-Toxic

**Fire Performance:** A1 / Group A Non-Combustible

**Incipient Spread of Flame:** Zero

**Bushfire / Wildfire Zones:** Meets and exceeds BAL:29 to BAL:FZ Ratings

**Colour:** Dark Gray / Brown

**Thicknesses:** 16mm to 20mm

**Lengths in Imperial / Metric:** 1800mm, 2400mm, 2700mm and 3000mm

**Width in Imperial / Metric:** 600mm, 900mm and 1200mm

**Edge Profiles:** ShipLap or Square Edge

**Workability:** Circular saw with diamond blade.

Able to be routed and profiled by hand or by CNC.

Can be sanded, rendered, painted, epoxy coated or tiled

**Toxicity:** Zero TVOC's, No Benzines, No Formaldehyde

**Storage and Handling:** Referrer to MSDS at [www.rescombp.com](http://www.rescombp.com)

THICKNESS	JOIST CENTRES	TEST CRITERIA	PRESSURE RESULT	POINT LOAD RESULT	POINT LOAD 1.0KN
16mm	400mm	1.5 kPa 1.8 kPa	0.6036mm SF>12	0.73mm SF>3	<0.5mm SF>3
18mm	400mm	2.0 kPa 1.8 kPa	0.058mm SF>12	0.76mm SF>3	<0.5mm SF>3
18mm	450mm	2.0 kPa 1.8 kPa	0.084mm SF>12	0.84mm SF>3	<0.5mm SF>3
19mm	450mm	2.0 kPa 1.8 kPa	0.078mm SF>12	0.78mm SF>3	<0.5mm SF>3
20mm	450mm	3.0 kPa 2.7 kPa	0.10mm SF>12	1.08mm SF>3	<0.5mm SF>3
20mm	600mm	3.0 kPa 2.7 kPa	0.330mm SF>12	1.9mm SF>3	<0.5mm SF>3
25mm	450mm	5.0 kPa 4.5 kPa	0.09mm SF>12	1.0mm SF>3	<0.5mm SF>3
25mm	600mm	3.0 kPa 2.7 kPa	0.004mm SF>12	1.0mm SF>3	<0.5mm SF>3





# MATERIAL SAFETY DATA SHEET (MSDS)

No.: ResCom (CMC)-March 2024

Presented By:  
ResCom Building Products  
8 Piper Street  
CABOOLTURE QLD 4510

**Contact Information:**

- ✉ rescombp@rescombp.com
- 🌐 www.rescombp.com

Prepared Date: March 2024

**PRODUCTS INTENDED USES:**

Exterior: sheathing, fascia, Soffit, ceiling board, drop ceiling, roofing substrate, siding, trim material.

Interior: wallboard, ceiling board, tile backing board, underlayment, flooring substrate. Structural Insulated Panels (SIPS) and Exterior Insulated Finish Systems (EIFS)

**PRODUCT COMPLIANCES:**

BCA Volume 1 2022: Section C Fire Resistance (inclusive of all parts C1.1 to C1.7) 1.8 Light Weight Construction including walls, ceilings and floors, C1.10 Fire Hazard, including NSW State Variation, and C1.12 Non-Combustible materials. Load bearing timber frame 60/60/60 utilising 10mm ResComTM sheathing. Load bearing metal frame 90/90/90 utilising 10mm ResComTM sheathing, 120/120/120 utilising 12mm ResComTM sheathing and 120/120/120 (18mm) ResComTM flooring. Non-loadbearing walls and ceiling linings to FRL: -/20/20 (5mm) ResComTM sheathing -/60/60 (10mm) ResComTM sheathing -/90/90 (10mm) ResComTM sheathing -/120/120 (12mm) ResComTM sheathing -/180/180 (14mm) ResComTM sheathing -/240/240 (15mm) ResComTM sheathing.

BCA Volume 1 2022: Section C Part C3 Protection of Opening (inclusive of all parts C3.0 to 3.17)

BCA Volume 1 2022: Part F5 Sound Insulation to Rw 60+ctr

BCA Volume 2 2022: Part 3.5.3.3, fibre cement planks and weatherboard cladding

BCA Volume 2 2022: Part 3.5.3.4, fibre cement sheet wall cladding

BCA Volume 2 2022: Part 3.5.3.5, eaves and soffit linings

BCA Volume 2 2022: Part 3.7.1, fire separation for FRL to 60/60/60

BCA Volume 2 2022: Part 3.7.4, bush fire zones BAL-FZ including all state variations to Part 3.7.4.0 and 3.7.4.1, as tested under AS1530 Part 8.1 -2014 and AS1530 Part 8.2 - 2014 - including NSW state variation, SA state variation, TAS state variation

BCA Volume 22012: Part 3.8.6, Sound Insulation to Rw 60+ctr

**SECTION 2: PERFORMANCE CHARACTERS:**

- Density: Approx density of each thickness is 0.95-1.10g/cm<sup>3</sup>, it can be adjusted in the production
- Fireproof characteristic: A grade not combustible
- Intensity of bending resistance when dry 18Mpa
- Intensity of bending resistance when moisture-saturated condition: 22Mpa
- The Rate of deformation when pick up the moisture: 0.26%
- The shrinking rate when heated: 1.0%
- Water permeability: There is no drop of water to emerge in the back
- Impact resistance: No crack, strip and run through
- Minimum Thermal resistance: 1.14m<sup>2</sup>k/w
- Sound insulation: ≥ BCA V2 3.8.6 >Rw54 (single sheet wall system)
- Security: 100% does not include the asbestos, formaldehyde, and benzene

### PHYSICAL CHARACTERISTICS:

- Flexural Modulus: Not less than  $0.93 \times 10^6$  psi when tested in accordance with ASTM D6109.
- Flexural Strength: Not less than 1295 psi when tested in accordance with ASTM D6109.
- Shear Strength: Not less than 391 psi when tested in accordance with ASTM D6109.
- Fungus/Mould: Non-nutrient when tested in accordance with ASTM G21.

### INGREDIENTS:

- MgO (Magnesium Oxide) (so called burnt magnesium) used in medicine for curing heartburn.
- MgCl<sub>2</sub> (Magnesium Chloride) It's contained in marine and rainwater and is the element of such material as Bishofit
- Perlite (SiO<sub>2</sub>) (volcanic glass) in the MgO Boards is used as the filling materials.
- Alpha Cellulose Material
- Filler Glass fibre mesh and non-woven fabric

### MGO COMPOSITION INGREDIENT:

- Magnesium Oxide (MgO)
- Magnesium Chloride Solution (MgCl<sub>2</sub>) (included NaCl≤1.5%, KCl≤0.7%)
- Phosphoric Acid (H<sub>3</sub>PO<sub>4</sub>) no
- Iron Sulfate (FeSO<sub>4</sub>) no
- Polyvinyl Alcohol Glue no
- Aluminum Sulfate water solution (AlSO<sub>4</sub>) no
- Magnesium Sulfate no
- Alpha Cellulose Material
- Perlite
- Glass fibre mesh and non-woven fabric

## SECTION 3: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

Non-toxic, nonexplosive and is not a fire hazard.

### PRIMARY ROUTES OF ENTRY:

Eyes: Dust may irritate the eyes from mechanical abrasion causing watering and redness.

Skin: Dust may cause irritation of the skin from friction but cannot be absorbed through intact skin.

Ingestion: Unlikely under normal conditions of use but swallowing the dust from this product may result in irritation to the mouth and gastrointestinal tract.

Inhalation: Dust may cause irritation of the nose, throat, and airways, resulting in coughing and sneezing.

Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) on inhaling dust during sanding or sawing operations.

## SECTION 4: FIRST AID MEASURES

EYES: Remove contact lens. Flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.

SKIN: Wash with mild soap and water. Contact physician if irritation persists or later develops.

INGESTION: If ingested, dilute by drinking large amounts of water. Do not induce vomiting. Seek medical attention. If unconscious, loosen tight clothing and lay the person on his / her side. Give nothing by mouth to an individual who is not alert and conscious. Seek medical attention.

INHALATION: Remove to fresh air. If shortness of breath or wheezing develops, seek medical attention.

NOTES TO PHYSICIAN OR FIRST AID PROVIDERS: Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

MgO Corp Board's range of products are non-flammable, nonexplosive and non-combustible.

- Fire and Explosion Hazard: Not applicable
- Flash Point: Not applicable
- Auto-ignition: Not applicable
- Extinguishing Media: This material is non combustible
- Appropriate extinguishing media should be used for a surrounding fire
- Fire Fighting: Fire fighting personnel should wear normal protective equipment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

No special precautions are necessary to pick up product that has been dropped. The following applies only to spills or releases of dust generated during cutting or sanding ResCom (CMC) Board.

PRECAUTIONS: Good housekeeping practices are necessary for cleaning up areas where dust has been produced.

Take measures to either eliminate or minimize the creation of dust.

Wherever possible, practices likely to generate dust should be controlled with engineering controls such as local exhaust ventilation, dust suppression with water and containment, enclosure or covers.

CLEANUP METHODS: A fine water spray may be used to suppress dust when sweeping (dry sweeping is not recommended).

Vacuuming with an industrial vacuum cleaner outfitted with a high-efficiency filter is recommended over sweeping. Waste may be disposed of by landfill in compliance with federal, provincial, state, territory and local requirements governing non-toxic mineral materials

Avoid using materials and products that are incompatible with this product. (Refer to section 10.)

## SECTION 7: HANDLING AND STORAGE

Handling and Storage Products in their intact state do not present a health hazard. The controls below apply to dust generated from the boards by cutting, drilling, routing, sawing, crushing, or otherwise abrading, and cleaning or moving sawdust.

### OTHER PRECAUTIONS:

Even though ResCom (CMC) Board have been tested and deemed nontoxic, ResCom Building Products recommends that exposure to dust be kept as low as reasonably possible.

Respirable levels should not exceed those specified by OH&S and MSHA and identified in this MSDS.

Exposure to respirable (fine) dust depends on a variety of factors, including activity rate (i.e. cutting rate), method of handling (i.e. electric shears), environmental conditions (i.e. weather conditions, workstation orientation) and control measures used.

Wherever possible, practices likely to generate dust should be carried out in well ventilated areas (i.e. outside). The work practices and engineering controls set out in Section 8 should be followed as precautions to reduce dust exposures.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS CUTTING OUTDOORS:

1. ResCom Building Products recommends positioning cutting station so that wind will blow dust away from user or others in working area and allow for ample dust dissipation.
2. Use one of the following methods based on the required cutting rate and jobsite conditions. Acceptable Practices:
  - Score and snap using carbide-tipped scoring knife or utility knife (Ability to use this method depends on thickness of ResCom (CMC) Board being installed)
  - Fibre cement board shears (electric or pneumatic).

### PREFERRED PRACTICES

- Dust reducing circular saw equipped with appropriate blade and vacuum extraction.

### SUITABLE PRACTICES (for low to moderate cutting only - DIY projects)

- Dust reducing circular saw with appropriate saw blade. Always use correct tools when executing all cutting operations.

### VENTILATION:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limit.

### RESPIRATORY PROTECTION:

Dust mask is recommended.

### EYE PROTECTION:

When cutting material, dust resistant safety goggles / glasses should be worn and used in compliance with the BCA and ASTM standards.

### SKIN PROTECTION:

Loose comfortable clothing should be worn. ResCom Building Products recommends that direct skin contact with dust and debris be avoided, when possible, by wearing long sleeved shirts and long trousers, a cap or hat, and gloves.

### SANDING / DRILLING / OTHER MACHINING:

If sanding, drilling, or other machining is conducted, ResCom Building Products recommends workers always wear approved dust masks.

### IMPORTANT NOTES:

1. For maximum protection (lowest respirable dust production), ResCom Building Products recommends always using "Best" level cutting methods where feasible.
2. Always use a circular saw blade that is appropriate for the specific operation being undertaken.
3. Dry sweeping is not the preferred clean up method ResCom Building Products suggests wet suppression methods or vacuum.
4. It is not recommended that a grinder or continuous rim diamond blade be used for cutting.
5. Always follow tool manufacturer's safety recommendations.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### APPEARANCE:

Is commonly white to beige in colours depending on application, each with varying tensile strengths according to product application.

- Odour: Very mild
- Physical State: Solid boards
- Vapour Pressure: Not relevant
- Specific Gravity: Not relevant
- Flammability Limits: Not relevant
- Boiling Point: Not relevant
- Melting Points: Not relevant
- Flash Point: Not relevant
- Auto-ignition Temperature: Not relevant
- Volatility: Not relevant
- Solubility in Water: Not relevant
- Evaporation rate: Not applicable
- NFPA Ratings (Scale 0 - 4)
- Health = 1
- Flammability = 0
- Reactivity = 0
- Personal Protection = E

## SECTION 10: STABILITY AND REACTIVITY

### STABILITY:

The ResCom [CMC] Board products identified in section 1 are stable under ordinary conditions.

### CONDITIONS TO AVOID:

Excessive dust generation without proper dust mask protection.

### MATERIALS TO AVOID:

Incompatibility: Hydrofluoric acid will dissolve Magnesium Oxide and can generate Magnesium Chloride fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

Products are nontoxic in their intact form. The following applies to dust that may be generated during cutting and sanding.

### CHRONIC EFFECTS: INHALED:

Repeated and prolonged overexposures to dust may cause increased risk of bronchitis. It is possible that repeated inhalation exposure to ResCom [CMC] Board fibre dust over time may lead to inflammation of the lungs in humans. All necessary precautions should be taken to prevent inhalation of dust to prevent these problems.

## SECTION 12: ECOLOGICAL INFORMATION

Because Magnesium Oxide is a naturally occurring mineral, releases that may occur into the environment are not expected to leave any hazardous material that could cause a significant adverse impact.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of material, as an inert, inorganic mineral, in conformance with federal, provincial, state, territory and local regulations. ResCom [CMC] Board are not a hazardous waste.

## SECTION 14: TRANSPORT INFORMATION

There are no special requirements for storage and transport of ResCom [CMC] Board.

UN No: None allocated

Dangerous Goods Class: None allocated

Hazchem Code: None allocated

Poisons Schedule: None allocated

Packing Group: Not applicable

Label: Not a DOT hazardous material

## SECTION 15: REGULATORY INFORMATION

- DOT Hazard Classification: None
- Placard Requirement: Not a DOT hazardous material
- CERCLA Hazardous Substance (40 CFR Part 302)
- Listed substance: Not listed
- Substance: No Reportable Quantity (RQ)
- None Characteristic(s): Not applicable RCRA
- Waste Number: Not applicable

## SECTION 16: OTHER INFORMATION

### PREPARATION OF INFORMATION AND DISCLAIMER:

This form has been prepared to meet current Federal OH&S hazard communication regulations and is offered without any warranty or guarantee of any type. ResCom Building Products cannot control the use of its products, and therefore specifically disclaims liability and responsibility arising from the use, misuse, and alteration of its products.

The information contained in this MSDS was produced without independent scientific or medical studies analysing the effects of ResCom [CMC] Board dust upon human health.

The information contained herein is based upon scientific and other data ResCom Building Products believes is valid and reliable and provides the basis for this MSDS.

The information contained herein relates only to specific materials listed in the document.

It does not address the effects of ResCom [CMC] Board dust when used in combination with other materials or substances, or when used in other processes.

Because conditions of use are beyond Magnesium Oxide Board Corporation's control, the company makes no representations, guarantees, or warranties, either express or implied warranties as to the fitness of the product for use, and assume no liability related to the information contained above.

ResCom Building Products requires, as a condition of use of its products, that purchasers or applying agent complies in full with all applicable Federal, Provincial, State, Territory and Local health and safety laws, regulations, orders, requirements, and strictly adhere to all instructions and warnings which accompany the product.

For Technical Information first visit [www.rescombp.com](http://www.rescombp.com) or in the event of an emergency contact ResCom BP by email at [rescombp@rescombp.com](mailto:rescombp@rescombp.com)



# STORAGE AND HANDLING:

## INTENT OF THIS NOTICE

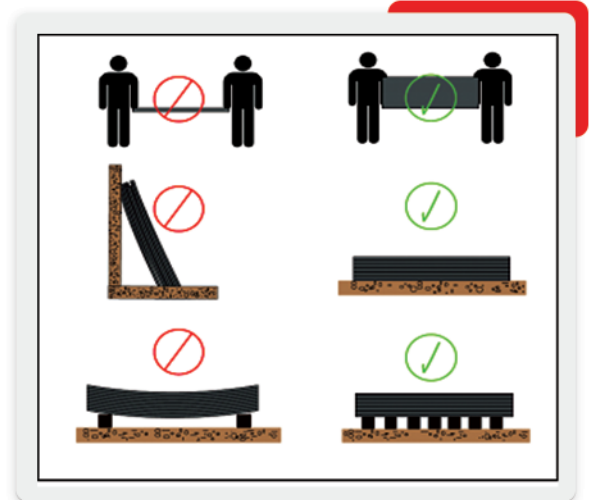
Is to define the instructions required to receive, store and handle ResCom® Building Products.

### GENERAL

ResCom® Building Products are a Composite Magnesia Cement flat sheet panel for use in the building and construction as internal and external linings. ResCom® products are Non-Toxic, Non-Flammable and Non-Combustible. For best results consumers should follow detailed construction practices when taking care, custody, and control of the building materials:

### PROCEDURE

- ResCom® Building Products must be stored inside a dry ventilated area and protected from damage by weather and direct sunlight.
- Stack flat on pallets or level dun-age – sufficiently support all edges and centre is required - do not allow material to bow, or to sit directly on the ground.
- Do not store up right or on edges.
- On receiving vertical packs these are to be rolled over and stored in flat horizontal position.
- Keep material dry prior to and during installation.
- Do not stack other materials on top of ResCom® Building Products.
- Always protect from job site dirt, oils, chemicals and solvents.
- Protect the products edges, ends and face from damage with protection cover.
- In the event requiring short term storage outside of enclosed building the goods always need to be fully wrapped and covered tightly by tarpaulin or equivalent coverings to completely protect the goods and pallets from rain and sunlight.
- In the event the goods get wet or are exposed to water they are to be individually removed from the packaging, wiped dry, and placed in flat level drying racks and allowed to fully dry before installation.
- In the event of prolonged external storage ResCom® panels are to be treated with a water impermeable and UV resistant sealer which is to be maintained over the life of the product. This protection is also required to be applied to the front, sides and rear of the panels prior to installation as external or wet area lining under NZBC B2.3.1 (a & b) the NCC 2022, the IRB, IRC 2021.
- ResCom panels need to be handled by minimum of two (2) persons when being lifted and carried vertically on their edge.



### PRODUCT WARRANTY

Failure to comply with the above storage and handling requirements will null and void any and all warranties be that verbal, written, statutory or offer by RGBP WHANUA TRUST ITF ResCom Building Products.

For the purposes of this warranty, a "defect" in respect of the Product warranty means a non-compliance with AS/NZS 2908.2 or ISO:8336 1993E and ICC-ES Standards for - Flat sheet cellulose-cement products.

### TECHNICAL SUPPORT

ResCom Building Products  
Website: [www.rescombp.com](http://www.rescombp.com)  
Email: [rescombp@rescombp.com](mailto:rescombp@rescombp.com)

# WALLS WALLS WALLS

**INTER-TENANCY** **BS/EN** **NEW ZEALAND** **ASTM:E84** **ASTM:E84** **ASTM:E119** **INTERNAL** **ASTM:E84** **ASTM:E119**

**WATER RESISTANT**  
**ASTM:E84**

**AUSTRALIA** **ACOUSTIC**

**BUSHFIRE**  
**BUSHFIRE**

**AS1530.4-2014** **FAÇADE**

**RAINSCREEN**

**SHAFT-LINE**

**ASTM-E119**

**FIRE**

**AMERICA AND USA**

**BS/EN476**

**UAE**

**ISO:8336** **CLADDING**

**UAE** **INTER-TENANCY** **NEW ZEALAND**

**PREFABRICATED**

**NCC:2022** **COMPLIANT**

**ASTM-E119** **RAINSCREEN**

**UAE** **RESIDENTIAL** **NEW ZEALAND**

**NCC:2022** **COMPLIANT**

**BOUNDARY**

**IMPACT EXTERNAL**

**IRELAND**

**WATER RESISTANT**

**PREFABRICATED** **COMMERCIAL**

**BS/EN476**

**ACOUSTIC**  
**Façade**

**BS/EN**



**RESCOM**  
**BUILDING PRODUCTS**



**AUSTRALIA**  
**DRYWALL**  
**BOUNDARY**  
**TILED**

**ACOUSTIC**  
**Façade**

**BS/EN**

**AS1530.4-2014**

**BS/EN476**

**ACOUSTIC**  
**Façade**

**AS1530.4-2014**

**BUSHFIRE**  
**AS1530.4-2014**

**ASTM:E84**

**PREFABRICATED**

**AS1530.4-2014**

**ACOUSTIC**  
**Façade**

**SEPARATION**

**INTER-TENANCY** **INTER-TENANCY**

**ACOUSTIC**  
**Façade**

**AS1530.1-2014**

**DRYWALL** **WALLS** **WALLS** **WALLS**

**IRELAND**

**RAINSCREEN**

**AS1530.1-2014**

**ASTM:E84**

**BUSHFIRE**  
**BS/EN476**

**AIR-BARRIER**

**SEPARATION**  
**AS1530.4-2014**

**ASTM:E84**

**ASTM-E119**

**RAIN**  
**SCREEN**

**NEW ZEALAND**

**RAIN**  
**SCREEN**

**BAL-FZ** **ASTM:E84**

**ASTM:E84**

**BS/EN476**  
**INTER-TENANCY**

**BUSHFIRE**

**DRYWALL**

**ASTM-E119**  
**PREFABRICATED**

**PREFABRICATED**

**AS1530.1-2014**

**PRIVACY**

**IRELAND**

**NEW ZEALAND**  
**AMERICA AND USA**

**ASIA PACIFIC**  
**NEW ZEALAND**  
**AFRICA**  
**TILED**  
**ZIP PANEL**

**ASTM-E119**  
**RAINSCREEN**

**ACOUSTIC**  
**Façade**

**RAIN**  
**SCREEN**

**RAIN**  
**SCREEN**

**BAL-FZ** **ASTM:E84**

**ASTM:E84**

**BS/EN476**  
**INTER-TENANCY**

**BUSHFIRE**

**DRYWALL**

**ASTM-E119**  
**PREFABRICATED**

**PREFABRICATED**

**AS1530.1-2014**

**PRIVACY**