



WHANGANUI
DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

IMPORTANT NOTE

These documents are required to be onsite for all inspections and must be a complete and full copy of the WDC stamped “Approved” documents.

Failure to have a full and legible set of documents may result in a terminated inspection. A terminated inspection will incur additional charges.



AMENDMENT TO BUILDING CONSENT

BCon22/0511.1

Section 51, Building Act 2004

The building:

Street address of building:	Legal description of land where building is located:
55 Tawhero St WHANGANUI	Lot 24 DP 569376 0.0659 Ha
Building name:	Location of building within site/block number:
Level/unit number:	
1.000000	

The owner:

Name of Owner:	
Mr B Vijayan, Mrs S Sekharath	
Mailing address:	Street Address/registered Office:
45 Oxford Road, Springvale, Whanganui 4501	45 Oxford Road, Springvale, Whanganui 4501

Phone numbers:

Landline:		Mobile:	0224180588
Daytime:		After hours:	
Facsimile number:			
Email address:		Website:	

First point of contact for communications with the building consent authority:

Contact Person:	
Castle Homes Wanganui Limited	
Mailing address:	Street Address/registered Office:
PO Box 695, Whanganui Mail Centre, Whanganui 4541	PO Box 695, Whanganui Mail Centre, Whanganui 4541

Phone number:

Landline:		Mobile:	021766368
Daytime:	063444228	After hours:	
Facsimile number:			
Email address:		Website:	

Building Work

The following building work is authorised by this consent

Project
Alteration.1 Change to a tiled walk in shower in main bathroom (Construct a dwelling with attached garage.)

101 Guyton Street
P O Box 637, Whanganui
Phone: (06) 349 0001
Fax: (06) 349 0000
Email: wdc@whanganui.govt.nz
Web: www.whanganui.govt.nz



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<i>Intended Use</i>	<i>Intended Life</i>
Single Detached Residential	50+ Years
<i>Estimated Value (\$)</i>	
\$0.00	

This building consent is issued under section 51 of the Building Act 2004. This building consent does not relieve the owner of the building (or proposed building) of any duty of responsibility under any other Act relating to or affecting the building (or proposed building). This building consent also does not permit the construction, alteration, demolition, or removal of the building (or proposed building) if that construction, alteration, demolition or removal would be in breach of any other Act.



CONDITIONS OF AMENDED BUILDING CONSENT

BCon22/0511.1

Section 51, Building Act 2004

This Amended Building Consent is issued Subject to the following conditions:

Building Act 2004, Section 90:

Inspections by Building Consent Authorities

Agents authorised by the building consent authority for the purposes of this section are entitled, at all times during normal working hours or while building work is being done, to inspect

- (a) land on which building work is being or is proposed to be carried out; and
- (b) building work that has been or is being carried out on or off the building site; and
- (c) any building.

Compliance Schedule:

A compliance schedule (CS) is not required for this building.

#Attachments

‡Copies of the following documents are attached to this building consent:

- ‡Inspection record
- ‡Informative notes

Signed for and on behalf of the Whanganui District Council

Greg Hoobin

Building Control Manager

Date: 29 Sep 2022



AMENDED BUILDING CONSENT BCon22/0511.1

Informative notes:

- The amendment to the original building consent is approved subject to the following informative notes in addition to the conditions imposed under the original building consent.
- The Building Consent, conditions, inspection sheet, and approved plans must be kept on site at all times until completion of the project.
- Failure to request inspections will risk the non-issuing of a code compliance certificate and the structure may be deemed non-complying.
- Any inspection time required over and above that allowed may incur a further charge.
- Under Section 52, a building consent lapses and is of no effect if the building work to which it relates is not commenced within 12 months after the date of issue.
- Under Section 93, if the owner has not made application within 24 months, the BCA (Building Control Authority), must decide whether or not to issue a CCC (Code Compliance Certificate).



Please Note: A minimum of 48 hours notice is required for the booking of an inspection. The inspection record sheet and accompanying building consent documentation must be on site for use by the inspector at the time of the inspection.

All inspections are to be carried out by BCA Building Inspectors unless prior arrangements have been made by the BCA to have an approved qualified person inspect specific items (eg. Engineer). Inspections shall be carried out in accordance with the attached schedule of inspection types. It is the owner's responsibility to ensure all necessary inspections are carried out as required. Please contact WDC if you are unsure what requires inspection – do not cover or enclose any building work without inspection.

Note: Further inspections may incur additional cost at time of Code Compliance Certificate issue.

Inspections Record For Building Consent Number BCon22/0511								
<i>Inspection</i>	<i>When to Request</i>	<i>Date</i>	<i>Inspector</i>	<i>Complies with Code</i>	<i>Reinspect</i>	<i>Notes</i>		
CONCRETE SLAB INSPECTION	Prior to placing Concrete					Inspection and certification by a suitably qualified engineer is required for the site remediation as per the Geotechnical Report - this is to be supplied to the WDC inspector prior to pouring concrete.		
FRAMING INSPECTION	When all framing is complete.							
BRICK MASONRY INSPECTION	When bricks have been laid to sill height.							
EXTERIOR CLADDING PRELINE INSPECTION	Before covering up					Inspection of external ply bracing.		
BUILDING PRELINE INSPECTION	Before Internal linings are fixed.							
POST LINE INSPECTION	To inspect fixings. Prior to covering up.							
PLUMBING SUBFLOOR INSPECTION	Before covering up							

101 Guyton Street
 P O Box 637, Whanganui
 Phone: (06) 349 0001
 Fax: (06) 349 0000
 Email: wdc@whanganui.govt.nz
 Web: www.whanganui.govt.nz



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PLUMBING PRELINE INSPECTION	Before covering up							
SANITARY DRAINS INSPECTION	Before backfilling drains							
STORMWATER DISPOSAL INSPECTION	Before backfilling drains							
FINAL BUILDING AND PLUMBING COMBINED INSPECTION	On Completion							
CONSTRUCTION REVIEWS (NO INSPECTION)	On Completion					<p>Once the final inspection has been completed please apply for your Code Compliance Certificate and supply the following information: (Please note that the Code Compliance Certificate can be applied for online at www.whanganui.govt.nz) Memorandum of Restricted Building Work (RBW) for all required trades. As-Built Drainage plan. Energy certificate/s.</p>		



**RECORD OF TITLE
UNDER LAND TRANSFER ACT 2017
FREEHOLD
Search Copy**



Identifier 1026491
Land Registration District Wellington
Date Issued 10 February 2022

Prior References
WN39D/108

Estate Fee Simple
Area 659 square metres more or less
Legal Description Lot 24 Deposited Plan 569376

Registered Owners
Bibin Vijayan and Sandhya Sekharath

Estate Fee Simple - 1/5 share
Area 379 square metres more or less
Legal Description Lot 41 Deposited Plan 569376

Registered Owners
Bibin Vijayan and Sandhya Sekharath

Interests

Subject to Section 3 Petroleum Act 1937

Subject to Section 8 Atomic Energy Act 1945

Subject to Section 27B State-Owned Enterprises Act 1986 (which provides for the resumption of land on the recommendation of the Waitangi Tribunal and which does not provide for third parties, such as the owner of the land, to be heard in relation to the making of any such recommendation)

Subject to Section 3 Geothermal Energy Act 1953

Subject to Part IV A Conservation Act 1987

Subject to Sections 6 and 8 Mining Act 1971

Subject to Sections 5 and 261 Coal Mines Act 1979

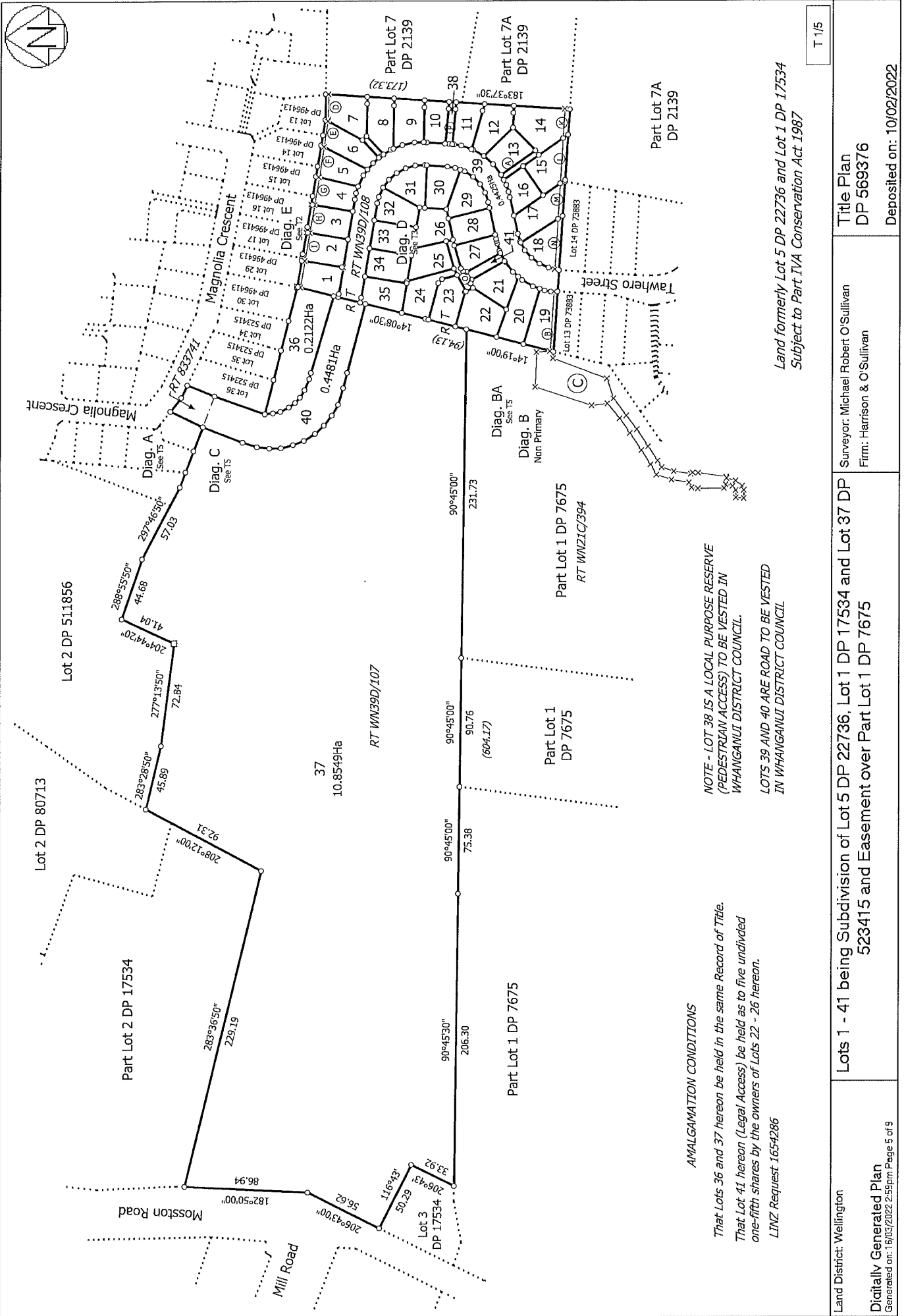
Subject to Section 241(2) Resource Management Act 1991 (affects DP 569376)

12350266.5 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 10.2.2022 at 12:17 pm (affects Lot 24 DP 569376)

Subject to a right (in gross) to convey electricity over Lot 41 DP 569376 marked O on DP 569376 in favour of Powerco Limited created by Easement Instrument 12350266.8 - 10.2.2022 at 12:17 pm

Fencing Covenant in Transfer 12406703.1 - 30.3.2022 at 3:05 pm

12406703.2 Mortgage to ASB Bank Limited - 30.3.2022 at 3:05 pm



NOTE - LOT 38 IS A LOCAL PURPOSE RESERVE (PEDESTRIAN ACCESS) TO BE VESTED IN WHANGANUI DISTRICT COUNCIL.

LOTS 39 AND 40 ARE ROAD TO BE VESTED IN WHANGANUI DISTRICT COUNCIL.

AMALGAMATION CONDITIONS

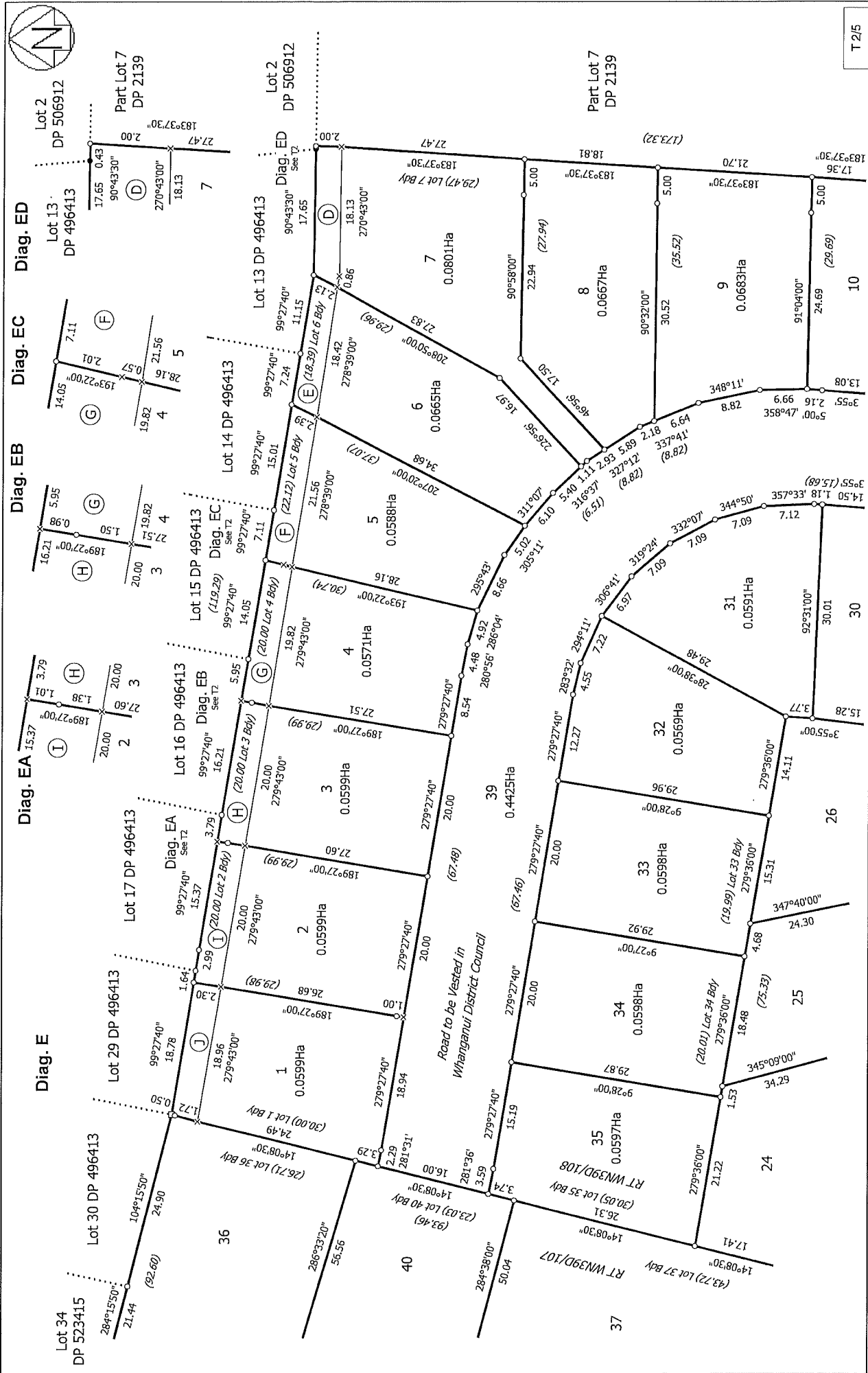
That Lots 36 and 37 hereon be held in the same Record of Title.

That Lot 41 hereon (Legal Access) be held as to five undivided one-fifth shares by the owners of Lots 22 - 26 hereon.

LINZ Request 16554286

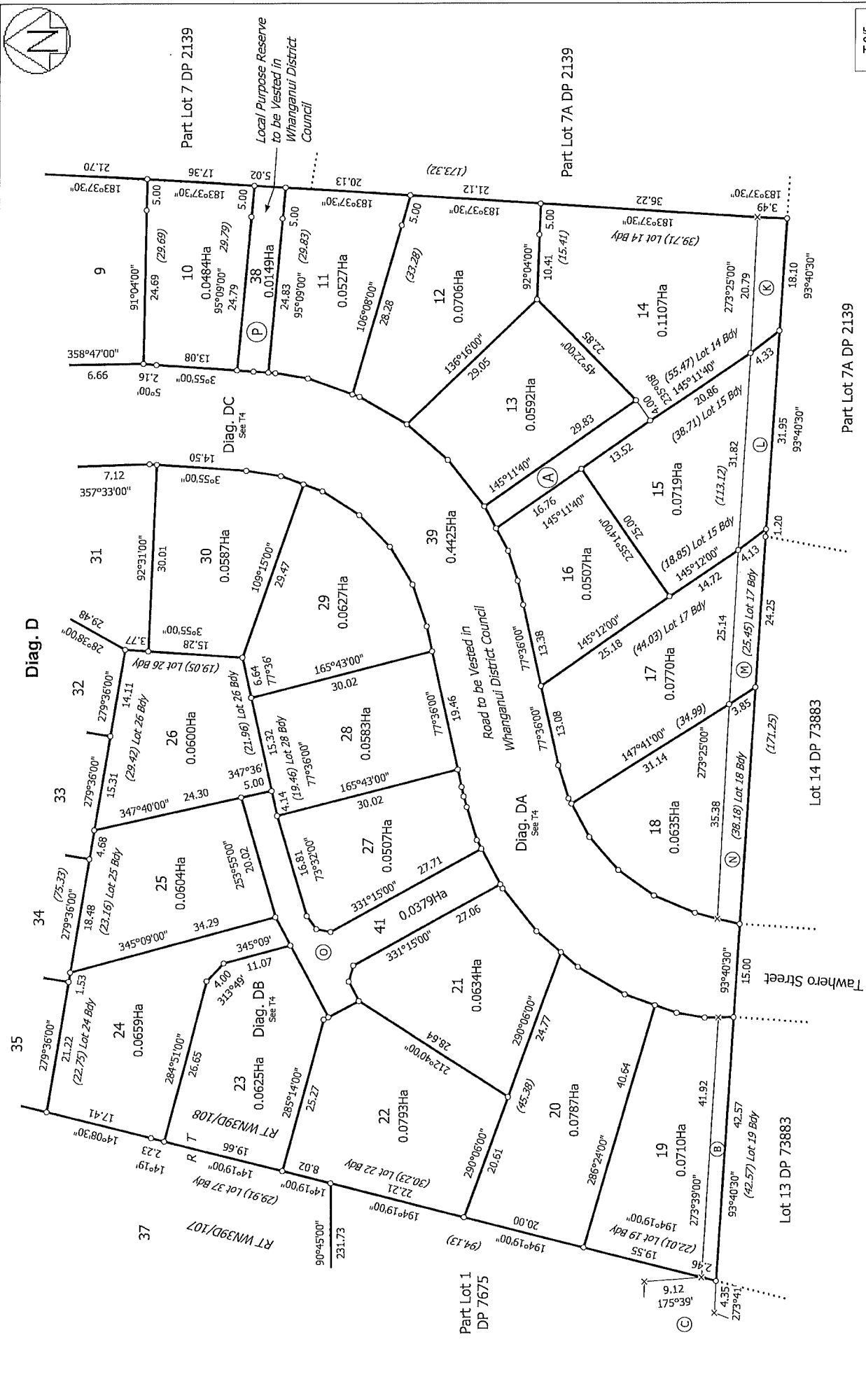
Land District: Wellington	Lots 1 - 41 being Subdivision of Lot 5 DP 22736, Lot 1 DP 17534 and Lot 37 DP 523415 and Easement over Part Lot 1 DP 7675	Surveyor: Michael Robert O'Sullivan Firm: Harrison & O'Sullivan	T 1/5
Digitally Generated Plan Generated on: 16/03/2022 2:55pm Page 5 of 9		Title Plan DP 569376	Deposited on: 10/02/2022

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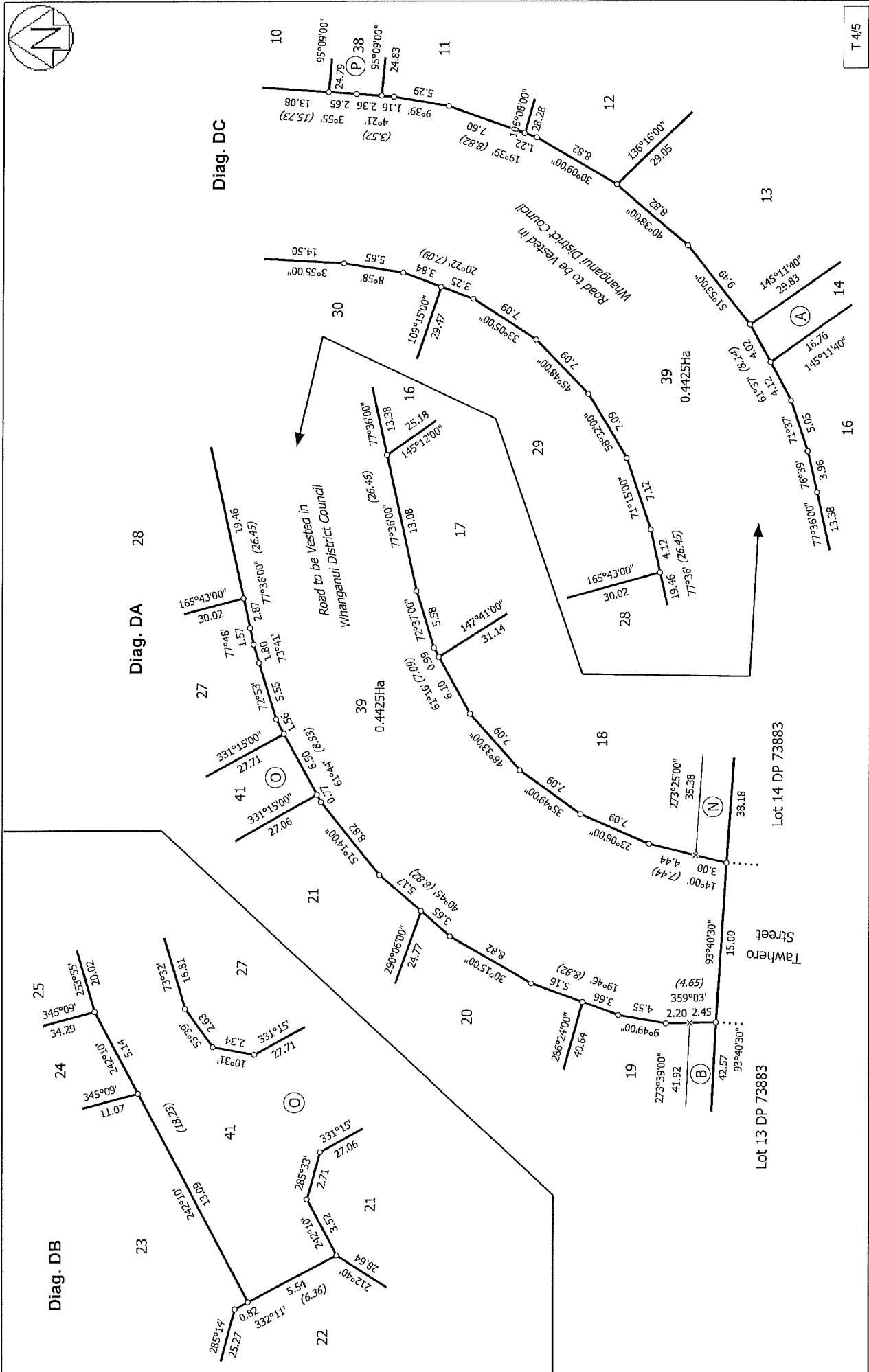
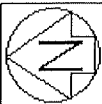
Land District: Wellington	Surveyor: Michael Robert O'Sullivan Firm: Harrison & O'Sullivan	Title Plan DP 569376
Lots 1 - 41 being Subdivision of Lot 5 DP 22736, Lot 1 DP 17534 and Lot 37 DP 523415 and Easement over Part Lot 1 DP 7675		Deposited on: 10/02/2022

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T 3/5	Title Plan DP 569376	Deposited on: 10/02/2022
Land District: Wellington	Surveyor: Michael Robert O'Sullivan Firm: Harrison & O'Sullivan	Lots 1 - 41 being Subdivision of Lot 5 DP 22736, Lot 1 DP 17534 and Lot 37 DP 523415 and Easement over Part Lot 1 DP 7675
Digitally Generated Plan Generated on: 19/03/2022 2:59pm Page 7 of 9	Part Lot 7A DP 2139	Part Lot 7A DP 2139

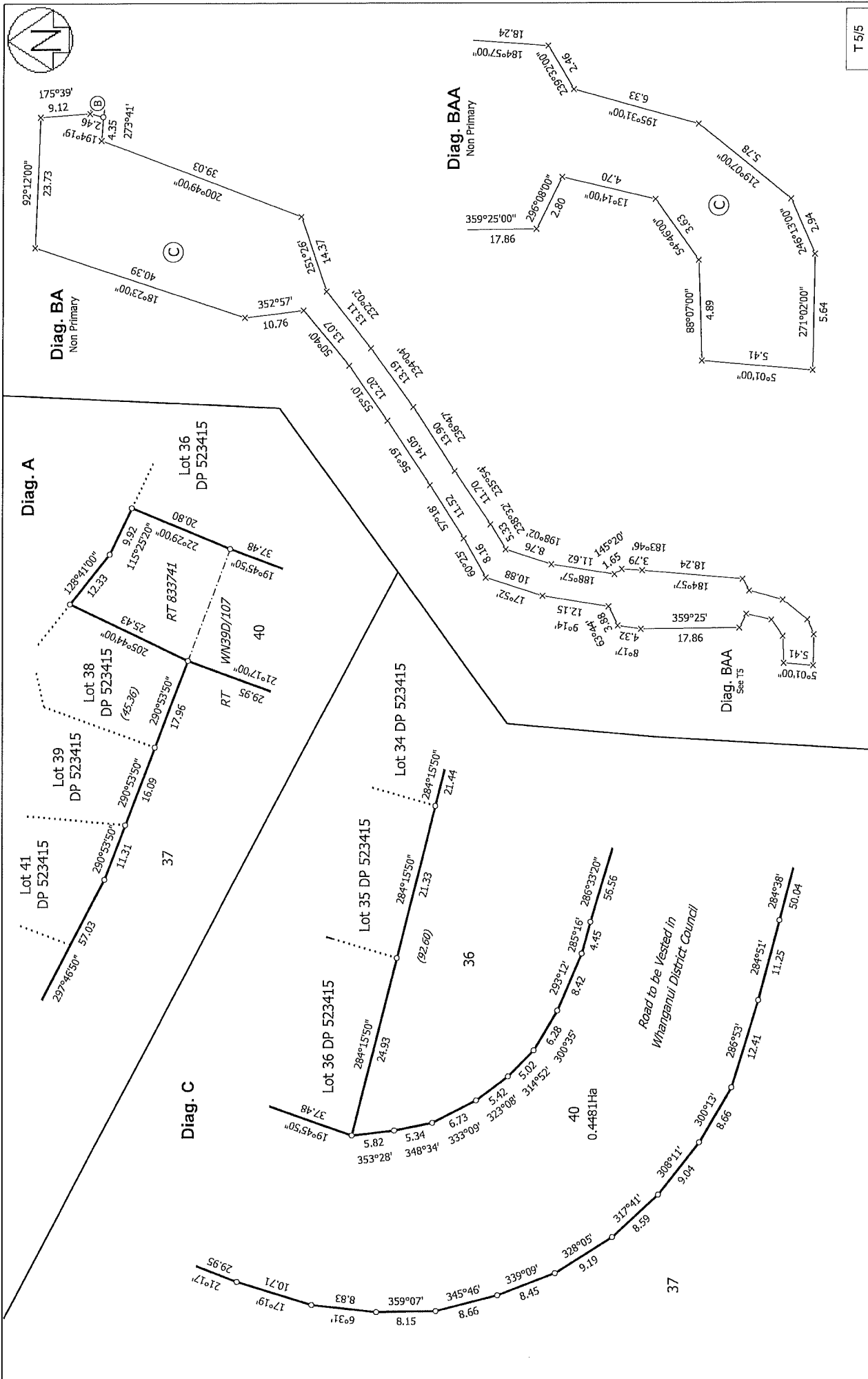
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<p>Land District: Wellington</p> <p>Digitally Generated Plan</p> <p>Generated on: 16/03/2022 2:59pm Page 8 of 9</p>	<p>Lots 1 - 41 being Subdivision of Lot 5 DP 22736, Lot 1 DP 17534 and Lot 37 DP 523415 and Easement over Part Lot 1 DP 7675</p>	<p>Surveyor: Michael Robert O'Sullivan</p> <p>Firm: Harrison & O'Sullivan</p>	<p>Title Plan</p> <p>DP 569376</p> <p>Deposited on: 10/02/2022</p>
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<p>Land District: Wellington</p> <p>Digitally Generated Plan</p> <p>Generated on: 16/03/2022 2:59pm Page 9 of 9</p>	<p>Lots 1 - 41 being Subdivision of Lot 5 DP 22736, Lot 1 DP 17534 and Lot 37 DP 523415 and Easement over Part Lot 1 DP 7675</p>	<p>Surveyor: Michael Robert O'Sullivan</p> <p>Firm: Harrison & O'Sullivan</p>	<p>Title Plan DP 569376</p> <p>Deposited on: 10/02/2022</p>
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Michelle Christison <michelle.christison@gjgardner.co.nz>

Re: Council Authorisation

1 message

Bibin Vijayan <bibinvijayan9@gmail.com>

28 July 2022 at 14:41

To: Michelle Christison <michelle.christison@gjgardner.co.nz>

Yes, please go ahead. We are giving you authority to act on our behalf
Thanks
Bibin Vijayan & Sandhya Sekharath

On Thu, 28 Jul 2022 at 2:32 PM, Michelle Christison <michelle.christison@gjgardner.co.nz> wrote:
Good Afternoon

I am in the process of submitting your plans to the council but they need to see that you give Castle Homes Wanganui permission to act on your behalf to apply for the building consent.

Can you please reply back to this email to say you give me authorisation to act on your behalf.

Regards
Michelle Christison

Administrator | Castle Homes Wanganui Ltd – Whanganui Franchisee for G.J. Gardner Homes
Ph: (06) 345 3563 | Web: www.gjgardner.co.nz



This email, including attachments, may contain information which is confidential or subject to legal privilege or copyright. If you are not the intended recipient, please notify us immediately and then please delete all copies of this email from your system. You must not use, disseminate, distribute or reproduce this email, any attachments, or any part thereof if you are not the intended recipient.

Email communications are not secure and are not guaranteed by us to be free of unauthorised interference, error or virus. Anyone who communicates with us by email is taken to accept this risk. To the maximum extent permitted by law we are not liable for any virus or other defect in this email or in any attachment (or for any unauthorized changes made to or other interference with this email or to any attachment).

Please note that this communication does not designate an information system for the purposes of the Electronic Transactions Act 2002.

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Memorandum from licensed building practitioner: Certificate of design work

Section 45 and section 30c, Building Act 2004

Please fill in the form as fully and correctly as possible.

If there is insufficient room on the form for requested details, please continue on another sheet and attach the additional sheet(s) to this form.

THE BUILDING	
Street address:	
Suburb:	
Town/City:	Postcode:

THE OWNER(S)	
Name(s):	
Mailing address:	
Suburb:	PO Box/Private Bag:
Town/City:	Postcode:
Phone number:	Email address:

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IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK

I _____ carried out/supervised the following design work that is restricted building work

PRIMARY STRUCTURE

Design work that is restricted building work	Description of restricted building work	Carried out or supervised	Reference to plans and specifications
Tick <input checked="" type="checkbox"/>	If appropriate, provide details of the restricted building work	Tick <input checked="" type="checkbox"/> whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
Foundations and subfloor framing <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Walls <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Roof <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Columns and beams <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Bracing <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Other <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	

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EXTERNAL MOISTURE MANAGEMENT SYSTEMS			
Design work that is restricted building work	Description of restricted building work	Carried out or supervised	Reference to plans and specifications
Tick <input checked="" type="checkbox"/>	If appropriate, provide details of the restricted building work	Tick <input checked="" type="checkbox"/> whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
Damp proofing <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Roof cladding or roof cladding system <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Ventilation system (for example, subfloor or cavity) <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Wall cladding or wall cladding system <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Waterproofing <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	
Other <input type="checkbox"/>		<input type="checkbox"/> Carried out <input type="checkbox"/> Supervised	

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FIRE SAFETY SYSTEMS			
Design work that is restricted building work	Description of restricted building work	Carried out or supervised	Reference to plans and specifications
Tick <input checked="" type="checkbox"/> if appropriate	If appropriate, provide details of the restricted building work	Tick <input checked="" type="checkbox"/> whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
Emergency warning systems <input type="radio"/> Evacuation and fire-service operation systems Suppression or control systems Other		<input type="radio"/> Carried out <input type="radio"/> Supervised	
Note: The design of fire safety systems is only restricted building work when it involves small-to-medium apartment buildings as defined by the Building (Definition of Restricted Building Work) Order 2011.			

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WAIVERS AND MODIFICATIONS

Waivers or modifications of the Building Code are required. Yes No

If Yes, provide details of the waivers or modifications below:

Clause	Waiver/modification required
List relevant clause numbers of building code	Specify nature of waiver or modification of building code required

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ISSUED BY	
Name and contact details of the licensed building practitioner who is licensed to carry out or supervise design work that is restricted building work.	
Name:	LBP or Registration number:
The practitioner is a: <input type="radio"/> Design LBP <input type="radio"/> Registered architect <input type="radio"/> Chartered professional engineer	
Mailing address (if different from below):	
Street address/Registered office:	
Suburb:	Town/City:
PO Box/Private Bag:	Postcode:
Phone number:	Mobile:
After hours:	Fax:
Email address:	Website:

DECLARATION
<p>I _____ certify that the design work that is restricted building work identified on this form:</p> <ul style="list-style-type: none"> Complies with the building code, or Complies with the building code subject to any waiver or modification of the building code recorded on this form <p>Signature: _____</p> <p>Date: <u>14/09/2022</u></p>

(project)

Proposed Dwelling

(project location)

55 Tawhero Street, Gonville,,

Whanganui

Lot 24 DP569376, Area 659msq

(client)

Bibin Vijayan & Sandhya

Sekharath

Consent Drawings	
	Cover
A01 a	Building Notes
A02	Site Plan
A03	Drainage Plan
A04 a	Floor Plan
A05	Elevations
A06 a	Foundation Plan
A07	Bracing Plan
A08	Bracing Details
A09	Roof Plan
A10	Truss Plan
A11	Lintels & Fixing type
A12	Lintel Fixings
A13	Sections
A14	Beam connection Details
A15 a	Foundation Details
A16	Roof & Soffit Details
A17	Brick Details
A18	Window Schedule 1of2
A19	Window Schedule 2of2
A20	H1 Insulation Plan
A21	E3 Details & Hotwater

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<p>Revision A Main bathroom changed to tiled shower</p>
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Timber Treatment Requirements:	
Level:	Building Element:
Enclosed roof framing & trusses	
H1.2	Sarking & framing not protected from solar-driven moisture through absorbent cladding materials
H3.1	Valley boards & boards supporting flashings or box gutters, & flashings to roof penetrations & upstands to roof decks
H1.2	All roof trusses, including gable end trusses, roof framing, ceiling & eaves framing, purlins & battens
Enclosed wall framing protected from the weather	
H3.1	Battens used behind cladding to form a cavity
H1.2	All other exterior wall framing & other members including exterior & boundary joists
H1.2	Bottom plates of exterior walls.
Internal wall framing	
H1.2	Internal walls
Other framing	
H3.2	Framing exposed to the weather & above ground
H4	Framing such as fence posts & landscape timbers that is exposed to the weather & is in contact with the ground
H5	Framing such as house piles, poles & crib walling that is exposed to the weather & is in contact with the ground

Exterior timber cladding	
H3.2	Unpainted Weatherboards, Fascia, Plywood Cladding,
H3.1	Painted Weatherboards, Painted fascia

Durability protection requirements:		
Corrosion Zone Category C		
Building Element:	Protection:	
Steel Fixings & Fastenings:		
Nail Plates:	Continuously coated galvanised steel	
Wire Dogs/ Bolts:	Hot-dip galvanised steel	
All other structural fixings:	Mild steel (uncoated non-galvanised)	
All other structural fixings, except fabricated brackets:	Sheltered	Hot-dip galvanised steel
	Exposed	Type 304 Stainless Steel
Fabricated brackets:	5mm min. Hot-dip galvanised mild steel	
Nails & Screws:		
Cladding that acts as bracing:	galvanised steel	
Non structural cladding:	galvanised steel	
Framing in 'closed' areas including roof spaces:	Mild Steel	
All Framing	galvanised steel	
Flashings:		
All flashings:	-Zincalume 0.7 bmt -type 304 or 316 stainless steel, -Aluminium	

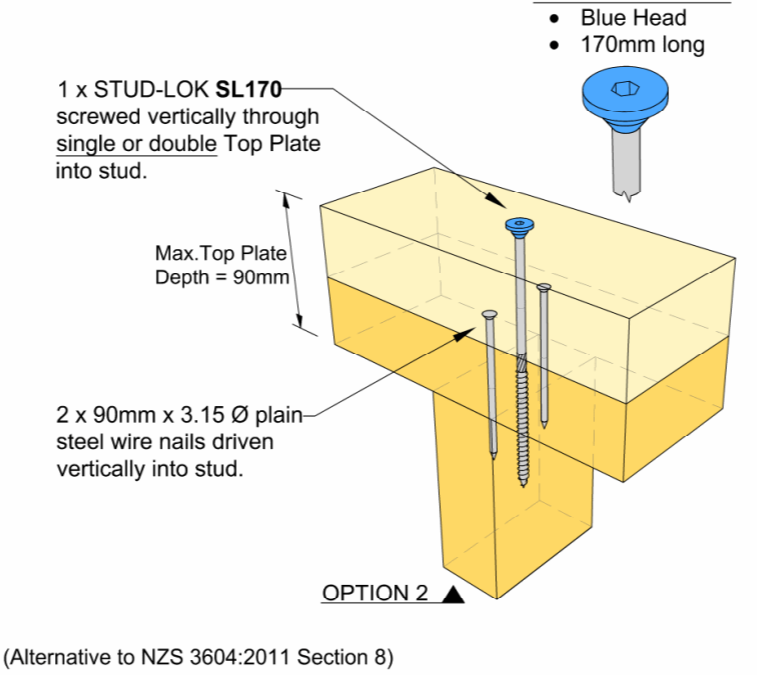
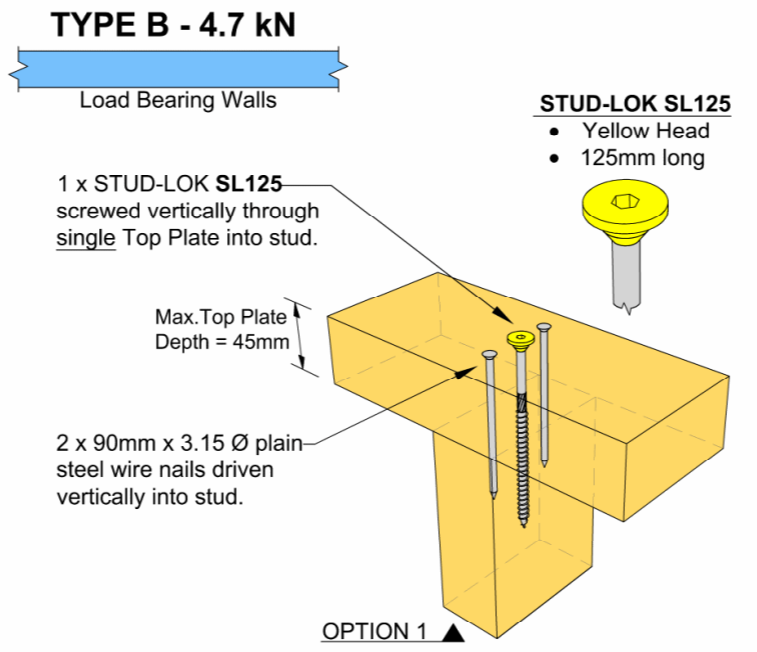
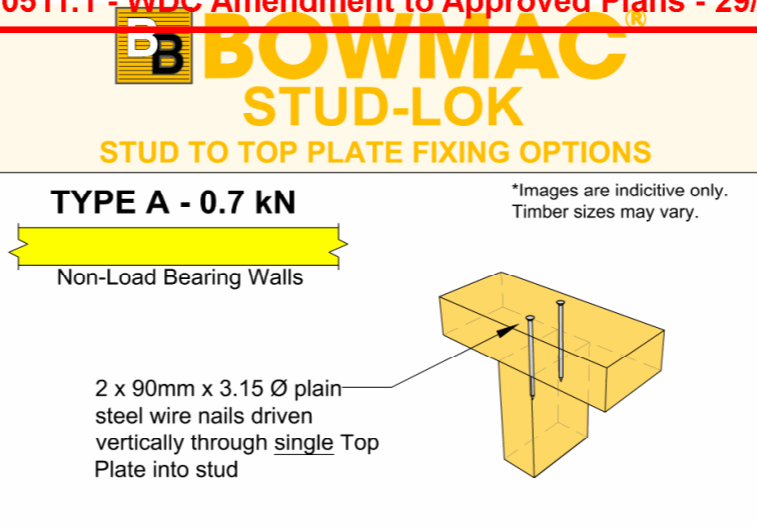
Timber Frames:	
Exterior Wall Framing:	
Load bearing walls: (2.40m max height)	
Studs:	90mm x 45mm @ 600crs. max
Bottom Plates:	90mm x 45mm
Top Plates:	2/90mm x 45mm
Interior Wall Framing:	
Load bearing walls: (2.40m max height)	
Studs:	90mm x 45mm @ 600crs. max
Bottom Plates:	90mm x 45mm
Top Plates:	2/90mm x 45mm

Non Load bearing walls: (2.40m max height)	
Studs:	90mm x 45mm @ 600crs. max
Bottom Plates:	90mm x 45mm
Top Plates:	90mm x 45mm

All timber framing to be SG8 Radiata Pine (unless otherwise specified), Refer timber treatment chart for all connection & fixing requirements, & timber durability notes for durability protection to connections & fixings
 Joints in top plates shall be made only over supports being either a stud or blocking. Allow for 6kn connection plate over joint.
 Holes thru top plate greater than 25mm require additional support in accordance with 8.8.1. NZS3604.

Prefabricated timber trusses
 Pre-ailer to supply certification with NZBC for all frames & trusses & supply certificate to council & a copy to designer itemising full compliance, job address & client, before fabrication

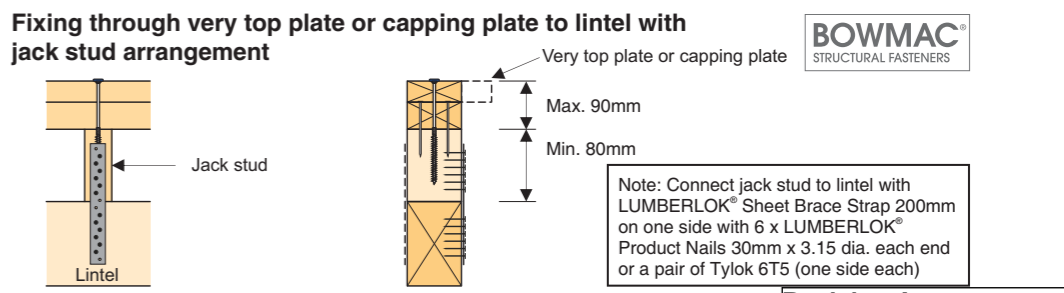
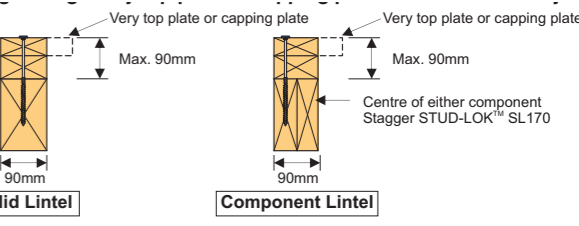
Framing connection chart:		
Fixing type:	Description:	Alternative fixing:
Roof Framing:		
Trusses to top plate:		
E	2/90 x 3.15 skew nails + 2 wire dogs	CT400 Lumberlok cyclone ties 4.7kN min. fixing capacity)
F	2/90 x 3.15 skew nails + strap fixing	CT400 Lumberlok cyclone ties 7.0kN min. fixing capacity)
Purlins to rafters/ Top chord:		
S	2/90 x 3.15 gun nails	1/80 x 10g Lumberlok Blue Screw
Wall Framing:		
Top Plates of load bearing walls:		
B	2/90 x 3.15 end nails + 2 wire dogs/ staples	2/90x3.33 plain steel wire nails driven vertically into stud, plus Bowmac Stud-Lok. (4.7kN min. fixing capacity)
Lintels:		
Jack stud to lintel:		
25 x 1 strap taken over plate & 150mm on each side of lintel with 6/30 x 2.5mm nails into each side of lintel		
Lintel to doubling stud		
25 x 1 strap with 6/30 x 2.5mm nails on one side into both lintel & stud		
Lintel doubling stud to Bottom plate (Concrete)		
25 x 1 strap taken under plate & 150mm up each side of stud with 6/30 x 2.5mm nails into each side of stud		
Lintel doubling stud to Bottom plate (Timber)		
25 x 1 strap with 6/30 x 2.5mm nails on one side into both floor joist or blocking & stud		



(Alternative to NZS 3604:2011 Section 8)

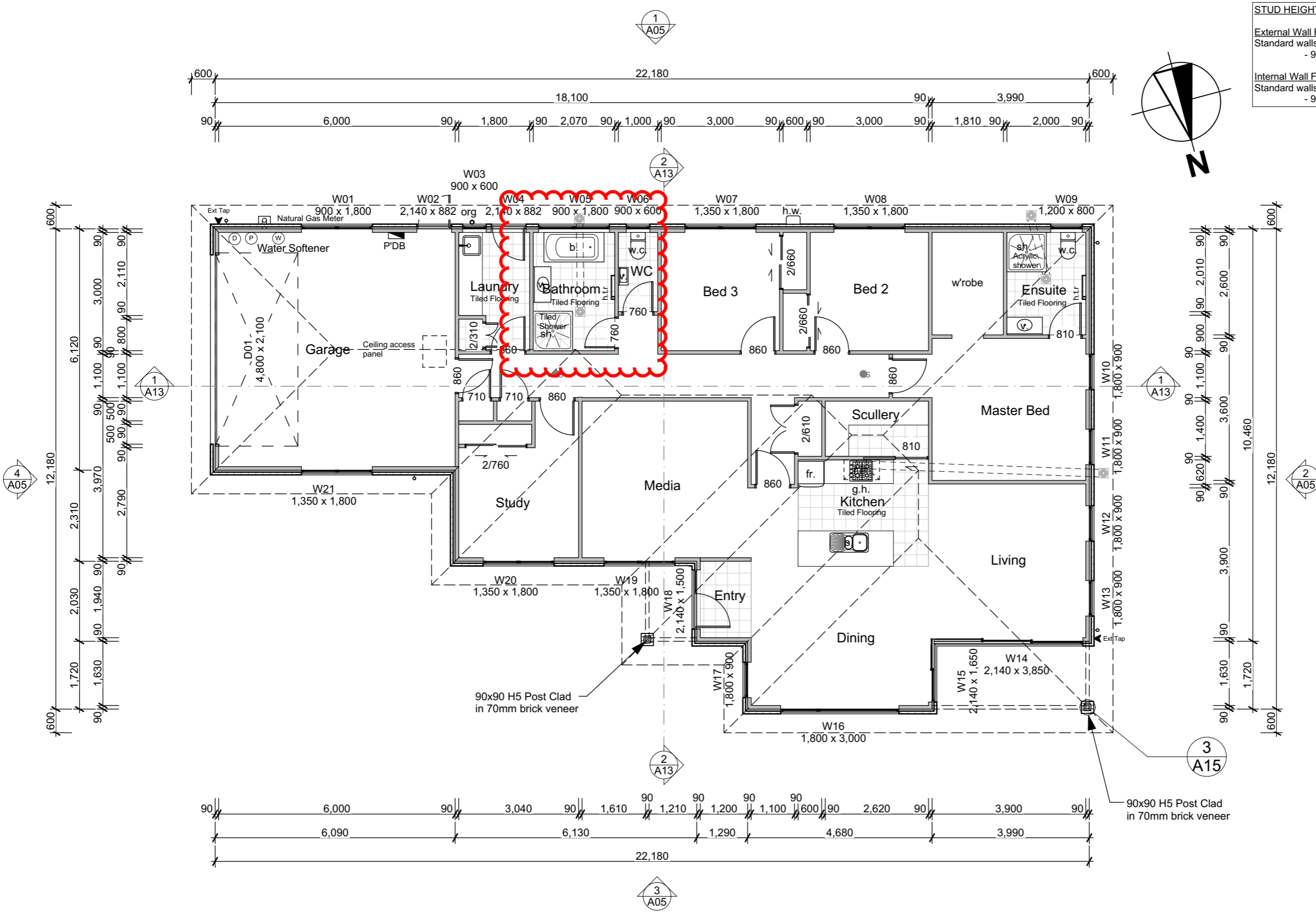
Building Notes:	
Floor Slab:	100mm thick 20Mpa concrete floor slab reinforced with Hurricane grade 500E SE62 mesh with 35mm min top cover, over 0.25mm polythene DPM on compacted sand binding & basecourse
Foundation:	240mm wide cast-insitu perimeter strip footing 300mm min into firm original ground. Reinforced with 3/D12 along & R10 starters @ 600mm crs lapped 400mm with slab mesh.
Roofing:	25° Pitch, 2455 to under side of Trusses Gerard pressed Metal Tile roofing on 50x40 H1.2 timber tile bastern @ 370crs max over Pauloid Bituminous roofing underlay
Spouting:	Colorcote Magnaflo 147 Multifit Facia with 1/4 round ColorCote Magaflo gutters and 80mmØ pvc downpipes.
Claddings: Exterior	Colorcote Veneer 70mm thick - selected size. Brick Ties shall be spaced at maximum 600mm crs horizontally and 400mm crs vertically.
Building Wrap:	Marshall Tekton absorbant and breathable wall cladding underlay.
Internal Linings - WALLS:	10mm Winstone Gib Board Standard, Aqualine, Braceline.
Internal Linings - CEILING:	10mm Winstone Gib Board Standard, Aqualine. 70x35mm timber ceiling battens @450crs.
Scotia:	Gib Cove or Square Stopped
Architrave:	40x12 MDF single bevel. Bathroom 40x10mm RAD single bevel.
Skirting:	60x12 single bevel MDF. Bathroom 60x10mm RAD single bevel.
Insulation - WALLS:	Pink Batts 90mm R2.2 Fibreglass Batts.
Insulation - CEILING:	Pink Batts R3.2 Ultra Fibreglass Batts.
Interior doors:	Door sizes shown are leaf size. Height 1980mm plain paint quality. Internal Garage Door to be EPS solid core with 1 steel insert. Architraved jambs. Allow for jambs & packing when framing for rough opening as req'd. Unless stated otherwise all internal doors to have 2/90x45 lintel Refer to floor plan for opening direction
Wet Area Flooring:	Ceramic Tiling with timber skirting.
Shower Enclosures:	Main Bathroom - 1m x 1m Acrylic base & moulded wall, glass door and side panel shower cubicle installed to manufacturers specifications & details. Ensuite - 1m x 1m tiled shower base and walls over Bostik Dampfix Gold waterproof coating on 10mm Gib Aqualine substrate to walls Grade A safety glass to the showers to comply with NZS4223:2016
Exterior Doors & Windows:	Refer Door & Window schedule/ List for Door & Window & Lintel Sizes, & Opening Sash locations

Air extraction & venting:	
Allow for air extraction fans in bathroom & ensuite to be installed to manufacturers instructions and taken to exterior as req'd.	
Fans must be sized to provide a minimum air change of 25 litres per second & wired to light switch with a minimum 5 minute run-on period	
Allow for laundry dryer to be ducted to manufacturers instructions and taken to exterior as req'd.	
Allow for range hood above kitchen hobs to be installed to manufacturers instructions and taken to exterior as req'd. Provide protective cowl for wall outlet.	
Provide Extractor fan in Scullery off kitchen. Switch with light and provide run-on period 2 minutes minimum.	
Domestic smoke alarms: - (s)	
Allow for smoke alarms on or near ceiling in accordance with as 1670.6 & manufacturers instructions. Smoke alarms to be located on the escape routes within the household unit/s. On levels containing the sleeping spaces, the smoke alarms shall be located within:	
A) every sleeping space, or	
B) 3.0m of every sleeping space door. I.e., smoke alarms must be audible to sleeping occupants on other side of closed doors.	
Lighting:	
Artificial Lighting shall be provided to comply with G8 & G9 NZBC to a minimum of 20 lux illuminance per sq/m of flooring.	
G8 & G9, Artificial Light & Electricaly	
Spaces within buildings used by people, shall be provided with adequate artificial lighting which, when activated in the absence of sufficient natural light, will enable safe movement to comply with G8. Electrical supply and fittings to be provided to comply with G9. Location of lighting and electrical fittings to be confirmed with the owners	
Barriers:	
Temporary Construction Barriers are to be installed at time of and during construction to comply with F5 NZBC.	
Access Routes:	
Timber entrance deck, path and driveway shall comply with D1 NZBC for slip resistance and falls. MAXimum step down from floor level to outside entrance deck or paving shall be no more than 190mm.	
Water supply G12/AS1	
Water supply pipe work to comply with G12/AS1 Provide insulation to pipe work as required to comply with G12/AS1 and H1/AS1	



Revision A
Main bathroom changed to tiled shower

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STUD HEIGHT: 2,455 to u/s of Trusses.

External Wall Framing:
Standard walls up to 2,455m Stud Ht:
- 90x45 SG8 H1.2 studs @600crs. - 2 rows of nogs 800crs.

Internal Wall Framing:
Standard walls up to 2,455 Stud Ht:
- 90x45 SG8 H1.2 studs @600crs. - 2 rows of nogs 800crs.

Wall Cladding 01:
Selected 70mm ClayBrick o 50mm drained and vented cavity over building wrap

D1: Compliance for entries/exits, maximum step down from floor level to outside paving or deck shall be no more than 190mm.
Access route material shall comply with minimum slip resistance for walking surface - applies to main entrance only.

NZBC H1 Water Heater Compliance:
The volume of hot water travelling from the gas water heater to the kitchen sink shall not be greater than 2.0 litres.
Size the feed pipe to suit the selected direction and length of run.
Example: PB-1 Pipe volume in Litres:
12mm at run length of 10m = 0.73litres
15mm at run length of 10m = 1.3litres
(Confirm volume with selected pipe manufacturer)

G3: Compliance for Cooking facilities - Surface linings adjacent to kitchen appliances and facilities shall be impervious and easily cleaned, e.g. high pressure laminates, tiles & impervious coatings.

Shower Enclosures:
Ensuite-1000 x 1000 Acrylic base & moulded wall, glass door and side panel shower cubicle installed to manufacturers specifications & details.
Main Bathroom- 1000 x 1000 tiled base and walls over Bostik Dampfix Gold waterproofing coating on 10mm Gib Aqualine substrate to walls. Grade A safety glass to the showers to comply with NZS4223:2016

SYMBOL LEGEND:

	Power Distributon Board
	Data Distribution Board
	Manrose Inline Extraction Fan kit.
	Data/Telecom Entry Point.
	Power Electrical Entry Point.
	Domestic Smoke Alarm
	Exterior Hose Tap.
	Fridge Water Supply
	Overflow Relief Gully

AREAS:

Slab Area (over framing)	201.18m ²
Entry	2.25m ²
Alfresco	6.19m ²
Cladding	8.30m ²
Total	217.29m²

(Excludes soffit overhang)

Revision A
Main bathroom changed to tiled shower

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BRANZ Appraised
Appraisal No. 745 [2017]

**DAMPFIX GOLD
INTERIOR
WATERPROOFING
MEMBRANE**

Appraisal No. 745 [2017]

This Appraisal replaces BRANZ
Appraisal No. 745 [2011]



BRANZ Appraisals

Technical Assessments of
products for building and
construction.



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Product

1.1 Dampfix Gold Interior Waterproofing Membrane is a liquid-applied waterproofing membrane for use under ceramic or stone tile finishes in internal wet areas.

Scope

- 2.1 Dampfix Gold Interior Waterproofing Membrane has been appraised for use as a waterproofing membrane for internal wet areas of buildings, within the following scope:
 - on floor substrates of concrete, flooring grade particleboard, plywood, compressed fibre cement sheet and fibre cement sheet tile underlay, and on wall substrates of concrete, concrete masonry, wet area fibre cement sheet lining systems and wet area plasterboard lining systems; and,
 - when protected from physical damage by ceramic or stone tile finishes; and,
 - where floors are designed and constructed such that deflections do not exceed 1/360th of the span.
- 2.2 The use of Dampfix Gold Interior Waterproofing Membrane on concrete slabs where hydrostatic or vapour pressure is present is outside the scope of this Appraisal.
- 2.3 Movement and control joints in the substrate must be carried through the membrane and tile finish. The design and construction of the substrate and movement and control joints is specific to each building, and is therefore the responsibility of the building designer and building contractor and is outside the scope of this Appraisal.
- 2.4 The ceramic or stone tile finishes are outside the scope of this Appraisal.
- 2.5 The membrane must be installed by trained applicators, approved by Bostik New Zealand Limited.

Building Regulations

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, Dampfix Gold Interior Waterproofing Membrane if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

Clause B2 DURABILITY: Performance B2.3.1 [b], 15 years and B2.3.2. Dampfix Gold Interior Waterproofing Membrane meets this requirement. See Paragraph 9.1.

Clause E3 INTERNAL MOISTURE: Performance E3.3.6. Interior wet area floors and walls incorporating Dampfix Gold Interior Waterproofing Membrane meets this requirement. See Paragraphs 11.1- 11.7.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Dampfix Gold Interior Waterproofing Membrane meets this requirement and will not present a health hazard to people.

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Technical Specification

- 4.1 Materials supplied by Bostik New Zealand Limited are as follows:
- **Dampfix Gold Interior Waterproofing Membrane** - An elastomeric, one-part, water-based, fibre reinforced polyurethane waterproofing membrane. It is supplied as a gold colour in 15 litre pails.
 - **ASA Multiprime** - A synthetic latex based primer for a variety of porous substrates. It is supplied as an opaque pink liquid in 1, 5 and 20 litre containers.
 - **Bostik Ultra NP Primer 2 Part** - A two part water based epoxy primer for non-porous substrates. It is supplied in a 4 litre kit and is a uniform greenish colour when mixed.
 - **ASA Neutral Cure Silicone** - A flexible, neutral cure silicone for use as an expansion joint filler or bondbreaker. It is supplied as a white or coloured paste in 300 ml cartridges.

Handling and Storage

- 5.1 All materials must be stored inside, up off concrete floors, in dry conditions, out of direct sunlight and freezing conditions. The membrane products have a shelf life of 12 months from date of manufacture in the original unopened packaging. Once opened, the products must be used within 3 months.

Technical Literature

- 6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for the Dampfix Gold Interior Waterproofing Membrane. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

- 7.1 Dampfix Gold Interior Waterproofing Membrane is for use in buildings where an impervious waterproof membrane is required to floors and walls to prevent damage to building elements and adjoining areas.
- 7.2 The membrane must be protected from physical damage by the application of ceramic or stone tile finishes.
- 7.3 Movement and control joints may be required depending on the shape and size of the building or room, and the tile finish specified. Design guidelines can be found in the BRANZ Good Practice Guide - Tiling.
- 7.4 Timber framing must comply with NZS 3604, or where specific engineering design is used, the framing shall be of at least equivalent stiffness to the framing provisions of NZS 3604, or comply with the serviceability criteria of AS/NZS 1170. In all cases framing must be provided so that the maximum span of the substrate as specified by the substrate manufacturer is met and all sheet edges are fully supported.
- 7.5 Timber framing supporting the substrates must be constructed such that deflections do not exceed 1/360th of the span. Where NZS 3604 is used, the allowable joist spans given in Table 7.1 shall be reduced by 20%.



Substrates

Plywood

- 8.1 Plywood must be a minimum of 17 mm thick complying with AS/NZS 2269, CD Grade Structural with the sanded C face upwards and treated to H3 [CCA treated]. LOSP treated plywood must not be used.
- 8.2 The plywood must be laid with the face grain at right angles to the floor joists. Joists must be at 400 mm centres maximum and the edges of the sheets must be supported with blocking or framing. The plywood must be fixed with 10 g x 50 mm stainless steel countersunk head screws at 150 mm centres along the sheet edges and 200 mm centres to all framing through the body of the sheets.

Fibre Cement Compressed Sheet/ Fibre Cement Sheet Tile Underlay

- 8.3 Fibre cement compressed sheet must be manufactured to comply with the requirements of AS/NZS 2908.2 and must be specified by the manufacturer as being suitable for use as a wet area substrate. Fibre cement sheet tile underlay must be suitable for use in internal wet areas. Installation must be in accordance with the instructions of the manufacturer.

Particleboard

- 8.4 Particleboard must be specified for the end use in accordance with NZS 3602.

Concrete and Concrete Masonry

- 8.5 Concrete and concrete masonry substrates must be to a specific engineering design meeting the requirements of the NZBC, such as concrete construction to NZS 3101, concrete slab-on-ground to NZS 3604 or NZS 4229, and concrete masonry to NZS 4229 and NZS 4230.

Wet Area Wall Linings

- 8.6 Plasterboard wall linings must be manufactured to comply with AS/NZS 2588, and be suitable for use in internal wet areas.
- 8.7 Fibre cement sheet must be suitable for use in wet areas and comply with the requirements of AS/NZS 2908.2
- 8.8 Installation of plasterboard or fibre cement wall linings must be carried out in accordance with the instructions of the manufacturer.

Durability

Serviceable Life

- 9.1 The Dampfix Gold Interior Waterproofing Membrane, when subjected to normal conditions of environment and use, is expected to have a serviceable life of at least 15 years and be compatible with ceramic or stone tile finishes with a design serviceable life of 15-25 years.

Maintenance

- 10.1 No maintenance of the membrane will be required provided significant substrate movement does not occur and the tile finish remains intact. Regular checks must be made of the tiled areas to ensure they are sound and will not allow moisture to penetrate. Any cracks or damage must be repaired immediately by repairing the tiles, grout and sealant.
- 10.2 In the event of damage to the membrane, the tiling must be removed and the membrane repaired by removing the damaged portion and applying a patch as for new work.
- 10.3 Drainage outlets must be maintained to operate effectively, and ceramic or stone tile finishes must be kept clean.



Internal Moisture

- 11.1 Dampfix Gold Interior Waterproofing Membrane is impervious to water and when appropriately designed and installed will avoid the likelihood of water penetrating behind linings or entering concealed spaces.
- 11.2 Dampfix Gold Interior Waterproofing Membrane is suitable for use to contain accidental overflow to meet NZBC Clause E3.3.2. A means of compliance for containment of overflow is given in NZBC Acceptable Solution E3/AS1, Paragraph 2.1.
- 11.3 Surfaces must be finished with ceramic or stone tile finishes. A means of compliance to NZBC Clause E3.3.3 and E3.3.4 is given in NZBC Acceptable Solution E3/AS1, Paragraph 3.1.1 [b], 3.1.2 [b] and 3.3.1 [b].
- 11.4 Falls in showers and shower areas must be a minimum of 1 in 50. In unenclosed showers, falls must extend a minimum of 1500 mm out from the shower rose. Floor wastes and drainage flanges must be provided and the floor must fall to the outlet.
- 11.5 The waterproofing membrane must completely cover shower bases, and for unenclosed showers it must extend a minimum of 1500 mm out from the shower rose. Further design guidance on waterproofing wet areas, including waterproofing walls and junctions can be obtained from AS 3740, BRANZ Good Practice Guide - Tiling, and flooring and wallboard manufacturers.
- 11.6 Where water resistant wall finishes such as prefinished sheet materials are used, they must flash over the membrane a minimum of 30 mm.
- 11.7 BRANZ recommends the entire floor be covered by a waterproof membrane for bath, shower and spa rooms.

Installation Information

Installation Skill Level Requirement

- 12.1 Installation of substrates must always be carried out in accordance with the Dampfix Gold Interior Waterproofing Membrane Technical Literature and this Appraisal by, or under the supervision of, a Licensed Building Practitioner [LBP] with the relevant Licence Class.
- 12.2 Installation and finishing of components and accessories supplied by Bostik New Zealand Ltd and its approved applicators must be completed by trained applicators, approved by Bostik New Zealand Ltd.

Preparation of Substrates

- 13.1 Substrates must be dry, clean and stable before installation commences. Surfaces must be smooth and free from nibs, sharp edges, dust, dirt or other materials such as oil, grease or concrete formwork release agents.
- 13.2 The relative humidity of concrete substrates must be 75% or less before membrane application. Concrete substrates can be checked for dryness by using a hygrometer as set out in BRANZ Bulletin No. 585.
- 13.3 All voids, cracks, holes, joints and excessively rough areas must be filled to achieve an even and uniform surface. Junctions of substrate abutments, such as at wall/floor and wall/wall junctions must have a bond breaker installed as set out in the Technical Literature.
- 13.4 All substrates must be primed and the primer allowed to cure before the membrane is installed. Refer to the membrane supplier for primer specification.



Membrane Installation

- 14.1 Installation must not be undertaken where the substrate surface temperature is below 10°C or above 35°C.
- 14.2 Dampfix Gold Interior Waterproofing Membrane must be thoroughly stirred before application.
- 14.3 The membrane must be applied in a minimum of two coats to give a total dry film thickness of 1.0 mm. Subsequent coats must be applied at an opposite direction to the previous coat.
- 14.4 Application can be made by roller [medium/long nap], brush [long bristle], or a rubber or plastic float.
- 14.5 Clean up may be undertaken with water.

Tiling

- 15.1 The membrane must be fully cured before tiling. The cured membrane must be protected at all times to prevent mechanical damage, so may require temporary covers until the finishing is completed.
- 15.2 Tiling must be undertaken in accordance with AS 3958.1 and the BRANZ Good Practice Guide - Tiling. The compatibility of the tile adhesive must be confirmed with the adhesive manufacturer and Bostik New Zealand Limited.

Inspections

- 16.1 Critical areas of inspection are:
 - Construction of substrates, including crack control and installation of bond breakers and movement control joints.
 - Moisture content of the substrate prior to the application of the membrane.
 - Acceptance of the substrate by the membrane installer prior to application of the membrane.
 - Installation of the membrane to the manufacturer's instructions, particularly installation to the correct thickness.
 - Membrane curing and integrity prior to the installation of tiles including protection from mechanical damage during curing and prior to tile installation.

Health and Safety

- 17.1 Safe use and handling procedures for the membrane are provided in the Technical Literature. The materials must be used in conjunction with the relevant Material Safety Data Sheet.

Basis of Appraisal

The following is a summary of the technical investigations carried out:

Tests

- 18.1 The following testing of Dampfix Gold Interior Waterproofing Membrane has been undertaken by BRANZ: Testing to AS/NZS 4858 Appendix A including effect of bleach, detergent and water on tensile and elongation, cyclic movement resistance and water absorption.
- 18.2 The following testing of Dampfix Gold Interior Waterproofing Membrane was undertaken by the Commonwealth Scientific Industrial Research Organisation [CSIRO] Australia: Durability testing to AS/NZS 4858 Appendix A including effect of bleach, detergent and water on tensile and elongation, water vapour transmission to ASTM E96-92, water absorption to AS 3558.1 and cyclic movement resistance.
- 18.3 Testing of Dampfix Gold Interior Waterproofing Membrane has been undertaken by Thor Specialties Pty Limited for fungi resistance to the requirements of ASTM G21.
- 18.4 The above test methods and results have been reviewed by BRANZ and found to be satisfactory.

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**Other Investigations**

- 19.1 An assessment was made of the durability of the Dampfix Gold Interior Waterproofing Membrane by BRANZ technical experts.
- 19.2 Site inspections have been carried out by BRANZ to examine the practicability of installation.
- 19.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 20.1 The manufacture of the membrane has been examined by BRANZ, and details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 20.2 The quality management system of the membrane's manufacturer has been assessed and found to be satisfactory.
- 20.3 The quality of supply of the membrane system materials to the market is the responsibility of Bostik New Zealand Limited.
- 20.4 Quality on site is the responsibility of trained applicators, approved by Bostik New Zealand Limited.
- 20.5 Designers are responsible for the building design, and building contractors are responsible for the quality of construction of substrate systems in accordance with the instructions of the substrate manufacturer, Bostik New Zealand Limited and this Appraisal.
- 20.6 Building owners are responsible for the maintenance of the tiling or stone finishing systems in accordance with the instructions of Bostik New Zealand Limited.

Sources of Information

- AS 3558.1 - 1999 Methods of testing plastics and composite materials sanitary plumbing and fixtures - Determination of water absorption characteristics.
- AS 3740 - 2010 Waterproofing of domestic wet areas.
- AS 3958.1 - 2007 Guide to the installation of ceramic tiles.
- ASTM E96-92 Standard test methods for water vapour transmission of materials.
- ASTM G21-96 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
- AS/NZS 2908.2: 2000 Cellulose-cement products - flat sheet.
- AS/NZS 1170: 2002 Structural design actions.
- AS/NZS 2269: 2012 Plywood - Structural.
- AS/NZS 4858 - 2004 Wet area membranes.
- BRANZ Bulletin Number 585. Measuring Moisture in Timber and Concrete, June 2015
- BRANZ Good Practice Guide Tiling - April 2015.
- NZS 3101: 2006 The design of concrete structures.
- NZS 3602: 2003 Timber and wood-based products for use in buildings.
- NZS 3604: 2011 Timber-framed buildings.
- NZS 4229: 2013 Concrete masonry buildings not requiring specific engineering design.
- NZS 4230: 2004 Design of concrete masonry structures.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



BRANZ Appraised
Appraisal No. 745 [2017]

BRANZ Appraisal
Appraisal No. 745 [2017]
22 August 2017

DAMPFIX GOLD INTERIOR
WATERPROOFING MEMBRANE



BRANZ

In the opinion of BRANZ, **Dampfix Gold Interior Waterproofing Membrane** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Bostik New Zealand Ltd**, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. **Bostik New Zealand Ltd**:
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions.
 - d) Warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by **Bostik New Zealand Ltd**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Bostik New Zealand Ltd** or any third party.

For BRANZ

Chelydra Percy

Chief Executive

Date of Issue:

22 August 2017

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DAMPFIX GOLD

WATERPROOFING

04 March 2020

YOUR SMART ADVANTAGES

- Class 3, high elasticity
- Fast drying
- Recoat in 2 hours @ 20°C & 50% RH
- Early access for following trades
- Tile next day in most conditions
- May be tiled directly using approved Bostik tile adhesives
- Reinforced with clump free fibers
- No mixing required
- High resistance to detergents & bleach
- Will not re-emulsify after curing
- Does not embrittle with age
- Excellent adhesion to concrete; rendered masonry; wet area plasterboard; FC sheet & plywood
- Can be applied to damp substrates, i.e. no free water
- Brush, roller or trowel applied
- Flood Test in 72 hours

DESCRIPTION

Bostik Dampfix Gold is a one part, highly elastic, Class 3, water-based polyurethane waterproofing membrane system that meets the requirements of AS3740 by complying with AS/NZ 4858.

Bostik Dampfix Gold waterproofing membrane system is specifically formulated for application on graded substrates that provide positive falls to drainage outlets. Overlaying tiling systems must comply with Guide to the Installation of Ceramic Tiles - AS3958.1

This is a 2-coat system applied over primed porous & non-porous substrates. It is not recommended as a membrane system in immersed applications (such as pools or spas)

USES

- As a waterproofing membrane to internal wet area shower, bathroom, kitchen, laundry & toilet areas to AS/NZ 3740
- As a waterproofing membrane to external balconies, rooftops & podium levels to AS/NZ 4654.2
- All applications to be covered by tile or other surface wearing and protective systems by following trades
- Suitable for concrete; cement rendered masonry; FC sheeting; water resistant plasterboard; and structural plywood (Type A Stamped "PAA JAS-ANZ" to AS/NZS2269-2004) substrates

PRODUCT CHARACTERISTICS

Colour	Gold
Appearance	Smooth paste
Packaging	15L pails
Specific Gravity	Approx. 1.3kg/L
Volume Solids	Approx. 60%
2mm Crack Bridging	Pass
Flammability	Non-flammable
Membrane Rating	Class 3
Drying Time per coat	2 hours @ 23° C & 50% RH (minimum of 2 coats)
Final drying Time	24 hours @ 23° C & 50% RH (after last coat)
Shore "A" Hardness	Approx. 65
Moisture Vapour Transmission Rate	1.24 grams / m2 / 24hours
Tensile Strength (7 days)	1.5 - 2.0 MPa
Elongation	>900%

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DAMPFIX GOLD

SURFACE PREPARATION

- Read precautions prior to applying any component of the waterproofing system
- Commencement of membrane system installation shall be taken as acceptance of the substrate suitability and preparation by the applicator
- Check that the surface of all substrates to be waterproofed are: structurally sound, clean, dry, or damp with no free surface water, smooth and free of voids & protrusions, free from oils, grease, curing compounds, coatings, adhesive residues and are uncontaminated by preceding trade activities
- Check that all composite substrates, such as wall & floor sheets are fully supported and installed to the manufacturer's instructions
- Where platform floor sheeting, in particular particleboard, is installed check manufacturer's specification for suitability in wet area applications and ensure that protective coatings do not impair membrane adhesion
- New concrete and render must have cured for a minimum 28 days.
- Sand & cement screeds and polymer modified renders must have cured for a minimum 7 days
- Substrates that are not smooth or free of voids and protrusions must be ground and vacuumed clean. All remaining voids must be repaired using suitable repair mortars, making sure to follow instructions for preparation, application and curing time.
- Bostik Multiprime must be applied as a primer coat on all applications to porous substrates, e.g. concrete, screeds, renders. Refer Bostik Multiprime Technical Data Sheet
- Bostik N40 Primer must be applied using "2 cloth method" on all applications to dry rigid plastic & metallic non-porous substrates, e.g., UPVC drainage outlets and penetrations; aluminium angle water stops, brass, copper and galvanised penetrations, stainless steel drains & gutters etc. Refer Bostik N40 Technical Data Sheet
- 2 coats of Bostik Moisture Seal must be used to seal concrete slabs if subjected to hydrostatic head of pressure from the negative side. Bostik Moisture Seal must be clean, dry and smooth immediately prior to the application of Bostik Dampfix Gold
- Refer Bostik Moisture Seal Technical Data Sheet
- Membranes should not be applied until all preparation steps have been completed.
- Bostik Dampfix Gold is not recommended for use in swimming pools, ponds or spas

APPLICATION

Moist or Damp Surfaces

- Membrane must be applied to a primed substrate
- Multiprime can be applied to damp porous substrates, i.e. with no free water on the surface
- Multiprime must be used as a primer coat to porous substrates, e.g., concrete, renders, FC sheet, water resistant plasterboard & external grade plywood
- Dampfix Gold is not a vapour barrier and is not designed to stop a negative hydrostatic head of pressure. Use Bostik Moisture Seal.

Bond Breaker & Membrane Installation

- Internal wet area installation must comply with the minimum requirements of AS/NZ3740 Section 3, "Installation". As a guide, refer pages 12 to 33
- External wet area installation must comply with the minimum requirements of AS/NZ4654.2, Section 2, "Design and Installation". As a guide, refer pages 7 to 30
- When installing bond breakers use Bostik's recommended sealants
- Bond breaker is to be installed over the dry primer coat where a bond breaker joint is required, e.g. to internal corners and changes in direction of substrate plane, such as wall/floor; wall/wall; hob/wall junctions, pipe penetrations, tap bodies, water stops, drainage outlets or similar
- Bond breaker joints must be a minimum 12mm x 12mm coved bead of sealant applied by caulking gun continuously into all changes of substrate plane, such as, wall/floor, hob/floor, hob/wall and wall/wall corners to the minimum termination height required by AS/NZ3740 or AS/NZ4654.2 as applicable
- The sealant must bridge all gaps and holes with a minimum 6mm contact onto the adjacent substrates
- All bond breaker joint sealant profiles must be a minimum 6mm in depth at the mid-point of the joint
- Substrate gaps at drainage outlets, flashings, and water stops, nail/screw holes etc must also be sealed using sealant prior to membrane application
- Applied sealant must be tooled around fittings and at all changes of substrate plane to a minimum 12mm x 12mm coved joint. The sealant must be a minimum 6mm in depth at the mid-point of the bond breaker joint and extend a minimum 6mm on either side of the joint or gap
- Apply membrane as soon as the bond breaker joint can be over coated without deformation of the coved sealant profile

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DAMPFIX GOLD

Application of the Membrane

- Can be applied using a brush, roller or trowel
- Should not be applied in excess of 2mm thick per coat
- This is a 2-coat system
- A wet film gauge should be used to regulate adequate membrane coverage during application of each coat

Membrane Protection

- Membrane should be protected throughout the application process and during the initial 24-hour cure period by the placement of signs and barriers to deny access by following trades
- Further temporary protection sheets must be installed securely, to protect the cured dry film from damage by following trades, until a protective screed or finished floor system is installed.

Membrane Recoating and/or Repair

Recoating

- The surface must be cleaned free of all tile adhesive residue, surface dust and any form of contamination or substrate irregularity
- The surface of membrane must be washed down with diluted detergent and water, thoroughly rinsed and allowed to dry.

Repairing

- The adjacent Dampfix Gold membrane must be sound with minimum dry film thickness of 1 mm that is fully adhered to the substrate
- Membrane must be thoroughly cleaned of all foreign material and left free of all cleaning agent residue, dust or contamination
- Ensure that any exposed porous and non-porous substrates are correctly prepared, primed and sealed
- Apply 2 coats of membrane as per "Coverage" instructions
- Ensure that the membrane repair overlaps the existing membrane by a minimum 100mm
- A consistent minimum 1 mm dry film thickness is required over both previously coated and uncoated repair areas

Cracks & Joint Sealing

CONCRETE & MASONRY SUBSTRATES

- Static cracks up to 4mm in width, i.e. cracks that do not move or continue to propagate, must be filled with suitable repair mortars after substrate priming and prior to the first full coat of Bostik Dampfix Gold
- Cracks greater than 2mm that are subject to movement or propagation must be referred to the builder or engineer for structural

assessment and method of rectification to perform as an expansion joint

- Expansion joints must be a minimum 6mm in width and require a backer rod installed prior to the installation of a suitable sealant (see note on page 2) at a width: depth ratio of 2:1. See "Expansion Joints" below.

FLOOR & WALL SHEET JOINTS

- All floor and wall sheets must be installed to sheet manufacturer's specification and primed with Bostik Multiprime
- Internal or external sheet floor systems, suitable for wet area applications, require sealant application to seal sheet joints at the time of installation to comply with manufacturer's instructions. The waterproofing applicator must confirm that the sealant used is compatible with all Bostik Dampfix Gold membrane system components
- If polyurethane sealants are used into floor sheet joint installation, allow for a minimum of 7 days to cure prior to the application of the membrane
- All sheet joints must be isolated from the membrane by a min 12mm wide bond breaker tape or neutral cure silicone that covers the entire width & length of the sheet joint
- As floor sheet joints are more prone to movement over joist supports, apply an extra 750 micron (0.75 mm) wet coat of Bostik Dampfix Gold extending a minimum 35mm either side of the bond breaker tape. A further 2 full coats, at 750 microns each, must be applied to the remaining area to be waterproofed

EXPANSION JOINTS

- All expansion joints must be isolated from the membrane by a minimum 12mm wide bond breaker tape or neutral cure silicone that covers the entire width & length of the joint
- An extra 750 micron (0.750 mm) wet coat of membrane extending a minimum 35mm either side of the bond breaker tape must be applied as an extra coat. A further 2 full coats, at 750 microns wet coat each, is required to the remaining area to be waterproofed.

Priming

Porous Substrate

- A porous or absorbent substrate will allow a bead of water to easily soak into, and wet out the surface of the substrate
- To avoid pin holing Bostik Multiprime must be stirred and not shaken if colour separation is evident. Colour separation will not affect the performance of Bostik Multiprime
- Bostik Multiprime must be applied as a primer coat on all Bostik Dampfix Gold applications to porous substrates
- Refer Bostik Multiprime Technical Data Sheet.

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Non-Porous Substrate

- A non-porous or impervious substrate will cause a bead of water to be retained on the surface of the substrate as a raised droplet. The droplet does not easily soak into the surface of the substrate
 - Concrete that is overworked or burnished at the time of placement can present, when cured, as a non-porous substrate that will not easily absorb a bead of water. Mechanical abrasion, such as captive shot blasting or vacuumed grinding is required to open substrate pores prior to the application of Bostik Moisture Seal
 - Rigid plastic and metallic substrates require Bostik N40 primer applied using the “2 cloth method” e.g., uPVC drainage outlets & penetrations, aluminium angle water stops, brass, copper or galvanised penetrations, stainless steel drains & gutters etc. Refer Bostik N40 Technical Data Sheet

“Two Cloth Method”

- Dampen a clean & dry cloth with N40 primer and spread evenly over the non-porous substrate using a cleaning/rubbing action
 - With a second clean & dry cloth, immediately wipe all primer residues off with a buffing action
 - Allow the substrate to dry for a minimum of 5 minutes before installing a suitable sealant (see note on page 2) and/or Bostik Dampfix Gold membrane
 - Do not leave the primer longer than 4 hours before applying sealant/membrane
 - Re-prime if 4 hours has elapsed without applying sealant/membrane
 - Clean & re-prime if the primed surface is contaminated with excavation soil, water, condensation, dust or other contaminants before sealant or membrane can be applied
 - NB: For pre-treated surfaces, contact Bostik Technical Services for advice.

PAINTABILITY

Bostik Dampfix Gold is paintable. Refer to paint supplier's recommendations.

COVERAGE

This will vary with the porosity of the substrates. Two coats are recommended to get the optimum performance.

For floors

A minimum dry film thickness of 1 mm is required. 15 Litre pail will cover approximately 9–9.5 m² (based on two coats).

For walls

A minimum dry film thickness of 0.6 mm is required. 15 Litre pail will cover approximately 15 m². 4 Litre pail will cover approximately 4 m².

	Thickness per coat		Total dry film thickness (2 coats)
	Wet film	Dry film	
Floors	0.8 mm	0.5 mm	1 mm
Wall	0.5mm	0.3mm	0.6mm

	Theoretical coverage		Per unit
	per coat	for 2 coats	
Floors	20 m ²	9–9.5 m ²	15 L Pail
Wall	30 m ²	15 m ²	15 L pail

CLEANING

Warm soapy water will remove Bostik Dampfix Gold from tools & equipment prior to full cure.

STORAGE AND SHELF LIFE

Store between 5°C and 30°C. If stored, unopened within these temperature ranges, this product has a shelf life of 12 months. Protect from excessive heat, moisture and freeze/thaw

IMPORTANT NOTES

- The following instruction steps as detailed in this Technical Data Sheet may not be applicable in every application. They are provided as a guide to meet the requirements of AS/NZ3740 and AS/NZ4654.2
 - It is recommended that the installation should be carried out by professional, licensed applicators holding a current Certificate from Bostik.
 - Bostik Technical Division must approve any modification or variances to this technical data sheet in writing followed by the issuance of an amended Technical Data Sheet
 - Wherever appropriate, the application must comply with AS/NZ 3740 ‘Waterproofing of Internal Wet Areas in residential buildings’ & AS/NZ 4654.2 “Waterproofing membrane systems for exterior use – Above ground level”
 - This product is specially formulated for brush, roller or trowel application to both small and large areas
 - A wet film gauge must be used regularly to ensure that minimum wet film builds are achieved for each coat
 - All vertical terminations, including perimeter walls, hobs and penetrations etc must be of adequate height to satisfy AS/NZ 3740 for

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internal applications & AS/NZ 4654.2 for external applications

- Apply bond breaker joint to all horizontal/vertical junctions, e.g. wall/floor, wall/wall, hob/ floor, hob/wall & shower set downs etc, prior to all membrane applications (see note on suitable sealants on pg 2)
- Allow 72 hours before flood testing the installed Bostik Dampfix Gold system.

Note on Suitable Sealants

Suitable sealants for use as bond breakers (in order of preference and performance) include:

- V70
- Bostik 6S
- Bostik Neutral Cure Silicone

Correct bond breaker selection and installation is vital to overall membrane performance. Using an unsuitable sealant can increase the risk of failure and must be avoided. Contact Bostik Smart Help for advice if unsure or if considering products not listed above.

PRECAUTIONS IN USE

- Must not be installed directly on wet, contaminated, or friable substrates
- Regular checks with a wet film gauge during the application of each coat are advised
- Do not apply any component of the system when air or substrate temperatures are below 5° C
- Cold damp conditions will adversely affect application properties and slow rate of curing
- Do not apply Bostik Dampfix Gold when air and substrate temperature is greater than 35°C or below 5°C
- Membrane should not be used as an exposed finish or as top coating exterior membrane
- When used in areas subject to ambient conditions below freezing special installation precautions must be taken. Contact Bostik for advice before commencing work
- All 4654.1 external membrane applications covered with a reinforced tile bed or screed must be separated from the membrane by a minimum one layer of 200um plastic sheet as a separation layer in accordance with AS3958.1 – 3.3.2.3

- The installation of protection board and ballast, such as river pebbles or similar loose laid unbound coverings, must be isolated from the membrane by a compatible drainage cell and filter fabric system
- Must not be applied directly over lightweight concrete
- Hobs constructed of autoclaved aerated blocks, e.g. Hebel, must be saturated with 2 coats of Multiprime to consolidate and seal the substrate. This is to prevent pin holing of the membrane and provide enough strength to support tiling of the hob
- Autoclaved aerated block walls must be rendered prior to the application of the waterproofing system
- Should not be used in constantly submerged applications such as swimming pools, ponds & spas
- Not designed to withstand negative side substrate head of pressure
- Use only Bostik's recommended sealants. Use of other sealants will significantly increase the risk of failure
- Any intended application of membrane outside of recommended installation should be referred to Bostik Technical Services
- Protect contents of pail from excessive heat, and freeze/thaw prior to use
- Contact Bostik prior to work commencing if there is any uncertainty regarding suitability, installation or any other matters related to the system (including bond breakers)

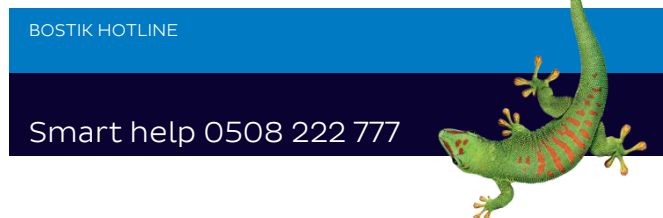
Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit www.bostik.com/au for copies.

PRODUCT DETAILS

Code	Name	Size
30800489	DAMPFIX GOLD GOLD	15L

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For emergency information contact the National Poisons Information Centre, phone 0800 764 766 (0800 POISON) or CHEMCALL, phone 0800 243 622.



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Technical Advice

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