

Code Compliance Certificate: 61115
Section 95, Building Act 2004

Issued: 27 AUG 2009

COUNCIL
COPY**The Building**

Property ID: 14321

Street Address: 10 OASIS PLACE
ROTORUA

Valuation number 06991 040 00

Legal Description:: LOT 4 DPS91381

Intended Use NEWD NEWD

Description of Work: NEW TRANSPORTABLE HOUSE FOR RELOCATION
CHANGE CLADDING

Rotorua District Council
1061 Haupapa Street
Private Bag 3029
Rotorua Mail Centre
Rotorua 3046
New Zealand
P: 07 348 4199
F: 07 346 3143
E: mail@rdc.govt.nz
W: www.rdc.govt.nz

The Owner

Name of Owner: B & C PROJECTS LTD

Contact Person: B & C PROJECTS LTD

Mailing Address: B & C PROJECTS LTD
C/O OASIS PLACE LTD
- G E 193 Main Highway
ELLERSLIE

Phone Number: day 0064 09 5791779

Facsimile Number: Fax 0064 09 5791779



First point of contact for communications with Council Building Consent Authority: RDC BUILDING SERVICES

Building Work

Building Consent no: 61115

Issued by: Rotorua District Council

Code Compliance

The building consent authority named below is satisfied, on reasonable grounds, that –

- (a) the building work complies with the building consent.

Signed for and on behalf of the Council:

Name: Karen Crisp

Position: Building Services Administrator

Signed: 

Date: 27 AUG 2009

3 June 2011

The Chief Inspector
District Inspectorate
Thames Coromandel District Council
Private Bag
THAMES 3540

Our Ref: 5647

Dear Sir

Re: Focus Homes Ltd, New House for A Murdock on Lot 37 Carina Way, Whitianga.

At the request of Focus Homes I have visited the above site at Whitianga and have investigated the sub surface conditions with a view to advising on the suitability of the land for the proposed house foundations and for the disposal of stormwater by means of soakaway pits.

Site Description:

The land prior to development of the subdivision some years ago, was near level and comprised of topsoil approximately 200mm thick overlying fine grained clean sands which extend to considerable depth.

The land has been built up by placing a quarry rock layer approximately 150mm thick on top of the sand and placing and compacting a slightly damp, brown stiff, silty/gravelly clay on top of the rock. The clay layer is about 500mm thick and about 200mm of black topsoil (presumably stripped from the original ground surface) has been spread and regrassed.

The clay layer appears to have been satisfactorily compacted over the area of the proposed building site but it is in a fairly loose state near the site boundaries.

Foundations:

Scala penetrometer testing confirmed that the clay filling can satisfactorily sustain working bearing pressures of 100kPa where it has been well compacted but, due to the variability observed, I recommend that the bases of all of the footings be checked carefully for soft material following the excavations of the foundations.

The presence of the imported rock layer at a depth of about 700mm below the surface could pose problems with the excavation of the 900mm deep anchor piles. Should this prove to be the case, options available are:

- Increase the anchor pile size to 500 x 500 and reduce the depth to 800mm

- Increase the anchor pile size to 600 x 600 and reduce the depth to 700mm.
- Change to braced pile design.

I have established by calculation, that the alternative anchor pile sizes and depths shown above provide equal resistance to horizontal loading to the designed anchor piles in the subsoil material on this site.

Disposal of Roof Water:

For a once in 5 year 10 minute duration storm I estimate that the runoff from the roof of the proposed house will be 194litres/minute.

I have carried out soakage testing in the overburden clay filling and in the underlying natural fine sand, and determined the following peak soakage rates with maximum head:

Well compacted clay:	Little soakage.
Loosely compacted clay:	0- 7litres/m ² /minute.
Underlying Sand:	8- 9litres/m ² /minute.

I recommend the use of 4 standard 1.2m x 1.2m x 1.2m soakaway pits of the type utilised on the adjacent Pacific Estate subdivision – one serving the two small sections of roof which slope to the north and the other 3 pits serving the southward sloping area of roof. The soakaway pits should be separated, at least 2m side by side.

The pits should each soak away at over 50% of the peak flow rate directed towards it and, even allowing for a much higher water table than the present 1.25m below ground, will have ample storage to satisfactorily rout the peak flows through them.

The standard soakaway pits are constructed by excavating holes 1.2m x 1.2m x 1.2m, ensuring that in this case they extend at least 350mm into the underlying sand, and lining all the excavated faces with Terram '1000' or equivalent filter fabric. Approximately 200mm of coarse drainage metal is then placed in the bottom and a 1.0m long x 900mm diameter porous 'corflo' or concrete well liner is placed centrally and then surrounded with coarse drainage metal. The top of the metal is then covered with filter fabric and topsoil and a removable inspection lid placed on top of the well liner. Drains from the downpipes are laid into the interior of the well liner.

Subject to the foundations and soakaway pits being constructed as described above, in my opinion the site is satisfactory from geotechnical and stormwater disposal points of view.

Yours sincerely



Max Bosselmann

SPECIFICATION

for work to be done & materials to be used in the proposed construction work

FOR: A Murdock
AT: 42 Carina Way Whitianga
LOT: 37
DP: 352059

note: in the event of any ambiguity between the drawings and this specification, the drawings shall take precedence

PRELIMINARY AND GENERAL

A.1 CONDITIONS OF CONTRACT

The general conditions of contract shall be:

NZS 3901 Agreement for Small Building Contracts or the appropriate CBANZ Contract Agreement.

A.2 BUILDING CODE

Unless specifically noted in the contract documents, all work shall conform to the NZ Building Code Handbook and approved documents. The Contractor and all Sub-Contractors shall observe and adhere to all requirements as set out in the NZ Building Code and in the Building Act 1991.

A.3 WORKMANSHIP

Where no specific reference to workmanship is made in this specification in respect of any particular labour required, it shall be understood that the standard of workmanship required is not lower than the best recognized general trade practice for that type of work.

A.4 INTENT

Any labour or materials not covered in this specification or on the drawings, but which is necessary for the proper and effectual completion of the work, shall be taken as being part of the drawings and specification, and shall be carried out according to the best trade practice.

A.5 DISCREPANCIES

Where any variation occurs between the specification and the drawings, the Contractor shall notify the Designer for clarification before proceeding with the section of work affected.

A.6 DIMENSIONS

The Contractor shall check all dimensions on the drawings and should any discrepancies arise, he shall notify the Designer. No allowance will be made for failure to check dimensions.

A.7 SUB-CONTRACTORS

This specification is subdivided into trade sections for the convenience of reference only and it shall not be construed that each section is an entire and separate sub-contract. All trades shall collaborate, wait on, assist and render all necessary assistance to other trades. Carpenters shall provide all noggins, etc. for other trades.

A.8 ACCIDENT INSURANCE

The Contractor shall take out a Public Liability insurance policy for the amount of \$1,000 000.00 (one million dollars).

A.9 FIRE INSURANCE

The work including all fixed materials shall be insured against loss or damage by fire or earthquake. The policy shall be in the joint names of the Owner and Contractor, and shall be sufficient to cover the work and materials at all times. The insurance policy shall be taken out by the Contractor unless otherwise indicated in the Variations Schedule.

A.10 BUILDING CONSENT

Before any work commences, the contractor shall ensure that a Building Consent has been obtained from the Territorial Authority. The Building Consent shall be obtained and paid for by the contractor.

A.11 SITE AND SETTING OUT

Approximate ground lines are shown on the drawings but the Contractor is advised to visit the site to ascertain any variations regarding levels for foundations, boundaries, etc. The Contractor shall perform all setting out of work and shall be responsible for the accuracy thereof.

A.12 CLEANING UP

The Contractor shall maintain the whole of the work site in a clean and tidy state and shall clean the whole of the site of the work at the completion of the contract. The whole of the work, including windows shall be cleaned ready for immediate occupation.

A.13 MAINTENANCE

The Contractor shall maintain the work and make good all defects which may occur within 90 days after the completion of the contract, due to faults which may occur in the materials or labour supplied.

A.14 CONNECTIONS

The Owner shall be responsible for the payment for all connections to public utilities such as water, sewer, telephone, stormwater (not within own property), electricity.

A.15 CONTRACTS

This specification has been drawn up for complete contracts and is only applicable for that I type of contract. Where the work is carried out under "Labour Only" or other types of contracts, the Owner becomes the Contractor and is responsible to ensure that the limits of the work to be carried out is clearly defined. It is also the Owner's responsibility to obtain and pay for all insurance policies.

EXCAVATION AND WATERPROOFING

B.1 EXCAVATION

Excavate for all foundations to the sizes and depths shown on the drawings or specified herein. Excavation shall be carried to solid bearing. If foundation material is not satisfactory, excavate to solid bearing and backfill with compacted hardfill or 10 MPa concrete. Shape ground to fall from centre of building.

B.3 HARDFILL

Where hardfill is required, this shall be graded river run metal or graded crushed metal.

CONCRETE

C.1 MATERIALS

Concrete materials shall be from approved sources and conform to the following:

NZS 3121 - Specification for Water and Aggregates for Concrete.

NZS 3122 - Specification for Portland Cement.

C.2 CONCRETE

Concrete shall conform to one of the following:

NZS 3104 - Specification for Concrete Production: High Grade and Special Grade.

NZS 3108 - Specification for Concrete Production: Ordinary unless specifically noted otherwise, concrete strength shall be 17.5 MPa.

C.3 REINFORCING

Reinforcing shall conform to the following:

NZS 3402 - Steel Bars for the Reinforcement of Concrete.

NZS 3422 - Specification for Welded Fabric of Drawn Steel Wire for Concrete Reinforcement.

Reinforcing rods shall be deformed mild steel. clean and free from rust and scale.

Laps where required shall be 40 x rod diameter.

C.4 CONSTRUCTION

Concrete construction shall conform to:

NZS 3124 - Specification for Concrete Construction for Minor Works.

C.8 BUILDING IN

Check with all trades that all bolts, pipes, flashings, etc. have been allowed for before casting into concrete.

CARPENTER

E.1 GENERAL

All work shall be carried out strictly in accordance with the NZ Building Code Handbook and the relevant approved documents including NZS 3604 - Code of Practice for Light Timber Frame Buildings not Requiring Specific Design.

E.2 TIMBER

Timber grading shall conform to NZS 3631 - New Zealand National Timber Grading Rules.

Timber shall conform to NZS 3602 - Code of Practice for Specifying Timber and Wood- Based Products for use in Building.

In general this shall be as follows:

Wall Framing Radiata Pine, MSG or No.1 Framing, H 1.2 treated KD.

Exposed Framing Radiata Pine, MSG or No.1 Framing, H3.2 treated PG.

Exterior Finish Radiata Pine, Clears or finger jointed, H3.2 treated.

Interior Finish Radiata Pine, Clears or Finger jointed' H1 treated, or Custom wood or similar mouldings.

All timber shall be protected from sun and water and finishing timbers shall be protected from damage as soon as they are delivered on site.

E.3 WORKMANSHIP

All timber shall be nailed or suitably fixed in accordance with the best trade practice and in accordance with the NZ Building Code Handbook and any Standards or as detailed on the drawings. All work shall be accurately set out and neatly executed.

E.4 FRAMING

Construct framing in accordance with NZS 3604, or as required to support the sheathings or linings. The sheathing or lining manufacturers recommendations for frame member spacings shall be strictly adhered to. All timber fixings shall be in accordance with NZS 3604 unless otherwise indicated. Plumb and straighten all walls. Fix all bracing as detailed in the Bracing Schedule and as required to maintain the structure in a stable condition.

E.21 TRAPDOORS

For timber floors, install 900mm wide trapdoor and frame through foundation wall or base boards.

PLUMBER

K.1 MATERIALS

All materials shall be the best of their respective kinds and shall conform to their respective N.Z. Building Code and it's approved documents shall be used.

K.2 WORKMANSHIP

All work shall be carried out under the supervision of a qualified and experienced tradesman and shall be executed in accordance with the best trade practices. All work shall conform to the N.Z.B.C. and it's approved documents.

K.3 INSTALLATIONS

All installations shall be carried out strictly in accordance with the manufacturer's recommendations and with the N Z Building Code and it's approved documents.

K.4 WATER SUPPLY

Run 20mm pipe, or as noted in Variation Schedule from connection to building.

K.5 WATER PIPING

All piping shall be 1.0mm thick copper piping joined by an approved brazing or welding system, or an approved polybutylene system. Run 12mm branches to all fittings as required. Where a hot water storage cylinder is installed, this shall be fed by a 20mm branch.

K.7 WASTE PIPING

All waste pipes to be 1.5mm thick copper, or approved polypropylene. Run waste pipes from all fittings to gully traps in accordance with the NZBC G13 and it's approved documents. Install back vents to fittings as required.

K.8 SOIL PIPES

Run soil pipe from toilet pans and connect to sewer drain. Run soil pipes from fittings as noted in the Variation Schedule or noted on the drawings and connect to sewer drain.

K.9 FITTINGS

Supply and install all fittings as shown on the drawings or noted in the Variation Schedule, complete with all taps,

traps etc.

K.10 TAPS

Install matching taps of the type noted in the Variation Schedule. Install outlets and taps for an automatic washing machine.

DRAINLAYER

L.1 MATERIALS

All materials shall be the best of their respective kinds and shall conform to their respective N Z Standards. Only materials permitted by the N Z Building Code and it's approved documents shall be issued.

L.2 WORKMANSHIP

All work shall be carried out under the supervision of a qualified and experienced tradesman and shall be executed in accordance with the best trade practices.

L.3 INSTALLATIONS

All installations shall be carried out strictly in accordance with the manufacturer's recommendations and in accordance with the N Z Building Code and it's approved documents.

L.4 EXCAVATIONS

Excavate for all drains to required depths and gradients. On completion of laying drains, carefully backfill around pipes and fill and compact excavations.

L.5 SANITARYSEWER

Lay 100mm diameter drain from building to disposal as noted in the Variation Schedule. Pipes shall be approved UPVC Install all necessary cleaning eyes, inspection pipes, etc. Cover to the drains shall be in accordance with the N Z Building Code Handbook.

L.6 FITTINGS

Supply and connect all necessary gully traps, terminal vents, etc. and complete in accordance with the N Z Building Code and it's approved documents.

L.7 STORMWATER

Lay 90mm pvc storm water pipes from downpipes to storm water disposal system and complete in accordance with the N Z Building Code and it's approved documents.

ELECTRICAL

M.1 GENERAL

All electrical work shall be carried out strictly in accordance with the Handbook to the N Z Electrical Wiring Regulations and the N Z Electrical Codes of Practice. Where the work to be carried out is on alterations or additions, the electrical supply to the premises shall be maintained at all times except for short breaks when necessary.

M.2 MATERIALS

All materials shall conform to their relevant N Z Standards. All materials shall be the best of there respective kinds where not specifically.

M.3 WORKMANSHIP

The installation shall be carried out by registered tradesmen and shall be left in full working condition.

M.4 MAINS

Determine the size of the main and allow for a loading 25% above the requirements noted. Install an underground cable from the connection to the point of entry.

M.5 SWITCH BOARD & METER BOARD

Install an internal MCB switch board.

Install an external meter board conforming to NZS 6206.

M.6 WIRING

All wiring shall be concealed in wall, floor or roof spaces. Where this is not possible, the wiring shall be positioned to be inconspicuous. Surface mounted wiring shall be protected.

M.7 FITTINGS

Install all fittings as noted, complete with all switches. Install switched socket outlets on sufficient circuits to avoid reasonable overloading. Connect hot water cylinder supplied under Plumber.

M.8 EARTHING & BONDING

Install main earth to the installation and bond all exposed and accessible metal to earth continuity conductor.

PAINTER

N.1 MATERIALS

All materials shall be from an approved manufacturer. Colours noted in the Variation Schedule are British Standard colours and where these are not obtainable in a particular brand, approval shall be obtained before using an alternative colour.

N.2 WORKMANSHIP

Work shall only be carried out by competent tradesman. Check all surfaces before commencing work to ensure that they are ready to receive paint or paper. Paint shall be evenly spread and thoroughly brushed or rolled out. Between coats, surfaces shall be sanded to remove all grit and irregularities and cleaned down. Where possible, all hardware shall be removed before painting and replaced when completed.

N.3 PREPARATION

New or Unpainted Smooth Finishes

Sand to a smooth surface and clean down.

New or Unpainted Masonry. Plaster. Cement Sheet. Etc

Remove all nibs, dirt, etc. and make good any surface defects.

Previously Painted Surfaces

Remove all paint that is soft, powdered, blistered, loose or flaking, by scraping, wire brushing, sanding or water blasting.

Mould Infected Surfaces

Surfaces shall be washed down with household bleach to destroy mould and then washed down. Alternatively use "Mould Killer". After washing down, the surface shall be treated with an "Anti-mould" preparation, compatible with the paint system being used.

N.4 PRIMING

New or unpainted Timber (Exterior)

Apply one coat of General Purpose Primer to all timber, except that to be stained, before erection. Patch prime as required after erection.

New or Unpainted Timber (Interior)

Apply one coat of General Purpose Primer/Undercoat.

New or unpainted Masonry. Plaster. Cement Sheet. Etc

Apply one coat of thinned acrylic paint or special purpose primer in accordance with the product manufacturer's and paint manufacturer's recommendations.

Previously Painted Timber

Apply one coat of approved sealer as recommended by wallboard manufacturer.

New or Unpainted Wallboards

Apply one coat of approved sealer as recommended by wallboard manufacturer.

Galvanized Steel

Apply one coat of Galvanized Steel Etch Primer.

N.5 STOPPING

All exterior timber work shall be stopped, after priming, with linseed-oil putty and patch primed. All interior timber work shall be stopped with suitable stopping compound, compatible with the paint system being used.

N.6 EXTERIOR PAINTING

New or Previously Painted Timber

Apply one coat of exterior undercoat tinted to the approximate colour of the finish coat.

Apply two coats of exterior high gloss paint.

Apply two coats acrylic gloss. (Not for doors, windows and frames)

New or Previously Painted Masonry. Plaster. Cement Sheet. Etc

Apply two coats acrylic paint.

Timber Stain

Apply strictly in accordance with the manufacturer's instructions and/or recommendations.

Galvanized Steel

Apply two coats Galvanized Steel Roof Paint.

N.7 INTERIOR PAINTING

New or Previously Painted Timber

Apply one coat of all Purpose Undercoat, tinted to the approximate colour of the finish coat.

Apply two coats of High Gloss or Semigloss Enamel.

New or Previously Painted Wallboards (Wet Areas)

Apply one coat of All Purpose Undercoat, Tinted to the approximate colour of the finish coat.

Apply two coats of High Gloss or Semigloss Enamel.

New or Previously Painted Wallboards

Apply two coats of Acrylic paint.

New or Previously Varnished Timber

Apply two coats of Polyurethane gloss or satin to doors and timber trim.

Apply two coats of timber stain to exposed beams.

N.8 PAPERHANGING

Check wall surfaces for irregularities before commencing. Seal the wallboard with a sealer and lightly sand when dry. Apply size over sealer to all walls before hanging paper. The paper manufacturer's recommendations shall be followed for pasting. Paper shall be hung plumb in full lengths with joints closely butted and neatly trimmed into all finishings.

N.9 CLEANING

On completion of work, clean down all areas including floor and windows where paint has been splashed or spilled.

Clean off all paste marks from paintwork.

GIB® EzyBrace™ FP for GIB® EzyBrace™ Systems, 2009



GIB® Wall Bracing Calculation Sheet A

single storey

V03/09

Job Details

Name A Murdock
Street and Number 42 Carina Way
Lot and DP Number Lot 37 DP 352059
City/Town/District Whitianga
Designer Mark Lowe
Company Name Focus Homes
Date 13/06/2011



Select GIB® Lining
Option

10 mm GIB® Plasterboard

Building Specification

Number of storeys single
Floor Loading 2kPa
Foundation Type subfloor
Cladding Weight (subfloor) medium

Single Floor

Cladding Weight light
Roof Weight light
Room in Roof Space no
Roof Pitch (degrees) 8
Roof height above eaves (m) 1.4
Building height to apex (m) 4.2
Ground to lower floor level (m) 0.6

Complete Single Floor Column only

15
1.0

Stud Height (m) 2.4
Building Length (m) 13.1
Building Width (m) 8.0
Building Plan Area (m2) 98

3.0

2.4

10.0

10.0

200

Building Location

Wind Zone

High

Select by Building Consent Authority Map

or Preference High
Region Preference selected
Terrain Preference selected
Exposure Preference selected
Topography Preference selected

Earthquake Zone

B

Consult GIB® EzyBrace™ Systems, 2009
for Wind Zone definitions

Bracing Units required for Wind

Demand W (BU)		
	subfloor	Walls single
along	718	401
across	1063	543

Bracing Units required for Earthquake

Demand along / across E (BU)		
	Walls	
	subfloor	single
	670	505

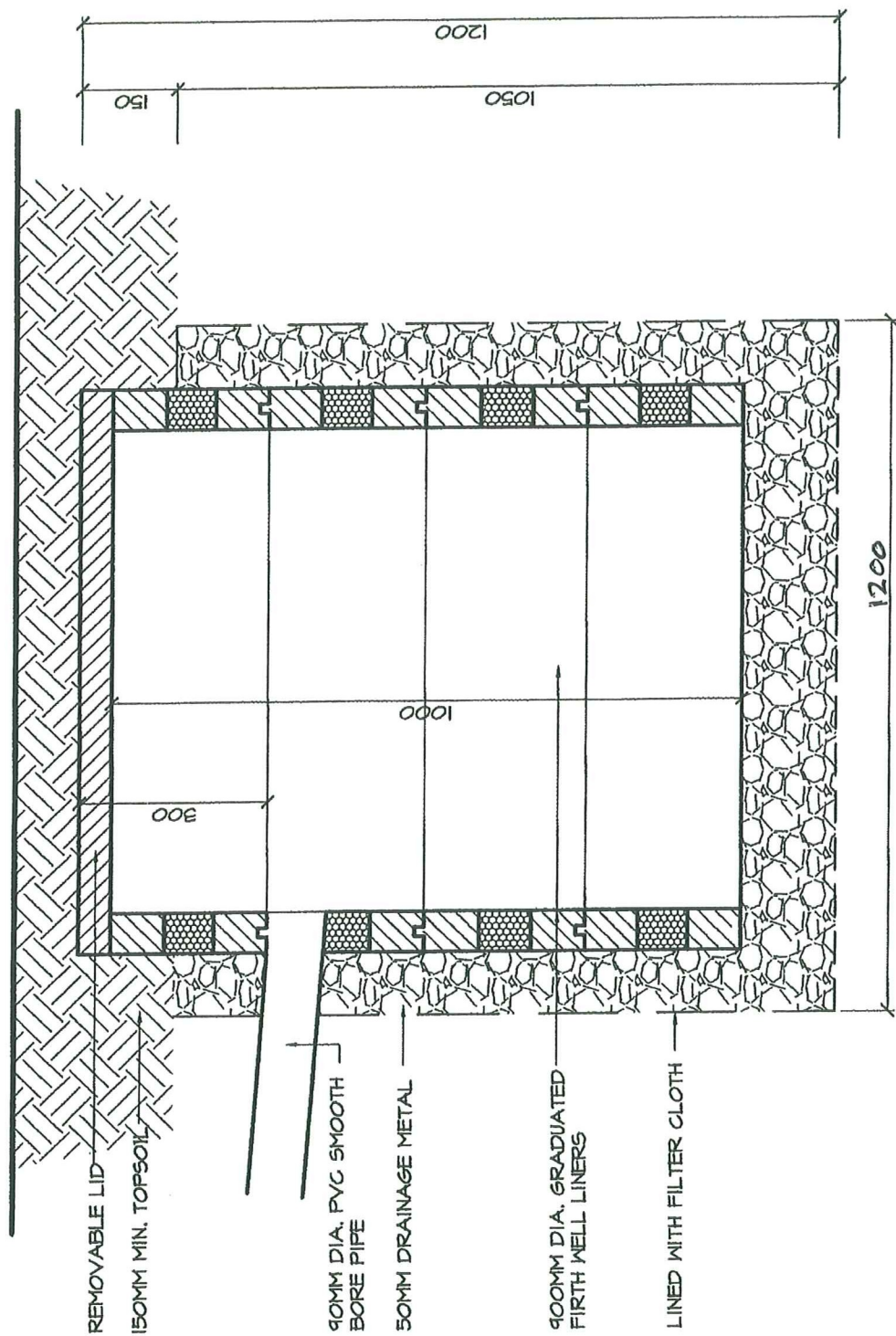
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GIB® EzyBrace™ FP for GIB® EzyBrace™ Systems, 2009

GIB® Subfloor Bracing Calculation Sheet B					Subfloor Along		V03/09
Along							
Bracing Line	Bracing Elements provided					Wind	Earthq.
1	2	3	4	5	6	8W	9EQ
Line Label	Minimum BUs Req/Ach	Bracing Element No.	Supplier	Bracing Type	Number or Length L (m)	BUs Achieved	BUs Achieved
a	line totals	1	NZS3604	anchor pile	4	640	480
W	640	2					
EQ	480	3					
b	line totals	1	NZS3604	anchor pile	4	640	480
W	640	2					
EQ	480	3					
c	line totals	1	NZS3604	anchor pile	4	640	480
W	640	2					
EQ	480	3					
d	line totals	1					
W		2					
EQ		3					
e	line totals	1					
W		2					
EQ		3					
f	line totals	1					
W		2					
EQ		3					
g	line totals	1					
W		2					
EQ		3					
h	line totals	1					
W		2					
EQ		3					
i	line totals	1					
W		2					
EQ		3					
j	line totals	1					
W		2					
EQ		3					
Totals Achieved						1920	1440
						OK	OK
Totals Required (from Sheet A)						718	670

GIB® EzyBrace™ FP for GIB® EzyBrace™ Systems, 2009

GIB® Subfloor Bracing Calculation Sheet B					Subfloor Across		V03/09
Across							
Bracing Line	Bracing Elements provided					Wind	Earthq.
1	2	3	4	5	6	8W	9EQ
Line Label	Minimum BUs Req/Ach	Bracing Element No.	Supplier	Bracing Type	Number or Length L (m)	BUs Achieved	BUs Achieved
m	line totals	1	NZS3604	anchor pile	3	480	360
W	480	2					
EQ	360	3					
n	line totals	1	NZS3604	anchor pile	3	480	360
W	480	2					
EQ	360	3					
o	line totals	1	NZS3604	anchor pile	3	480	360
W	480	2					
EQ	360	3					
p	line totals	1	NZS3604	anchor pile	3	480	360
W	480	2					
EQ	360	3					
q	line totals	1					
W		2					
EQ		3					
r	line totals	1					
W		2					
EQ		3					
s	line totals	1					
W		2					
EQ		3					
t	line totals	1					
W		2					
EQ		3					
u	line totals	1					
W		2					
EQ		3					
v	line totals	1					
W		2					
EQ		3					
						Wind	Earthq.
Totals Achieved						1920	1440
						OK	OK
Totals Required (from Sheet A)						1063	670

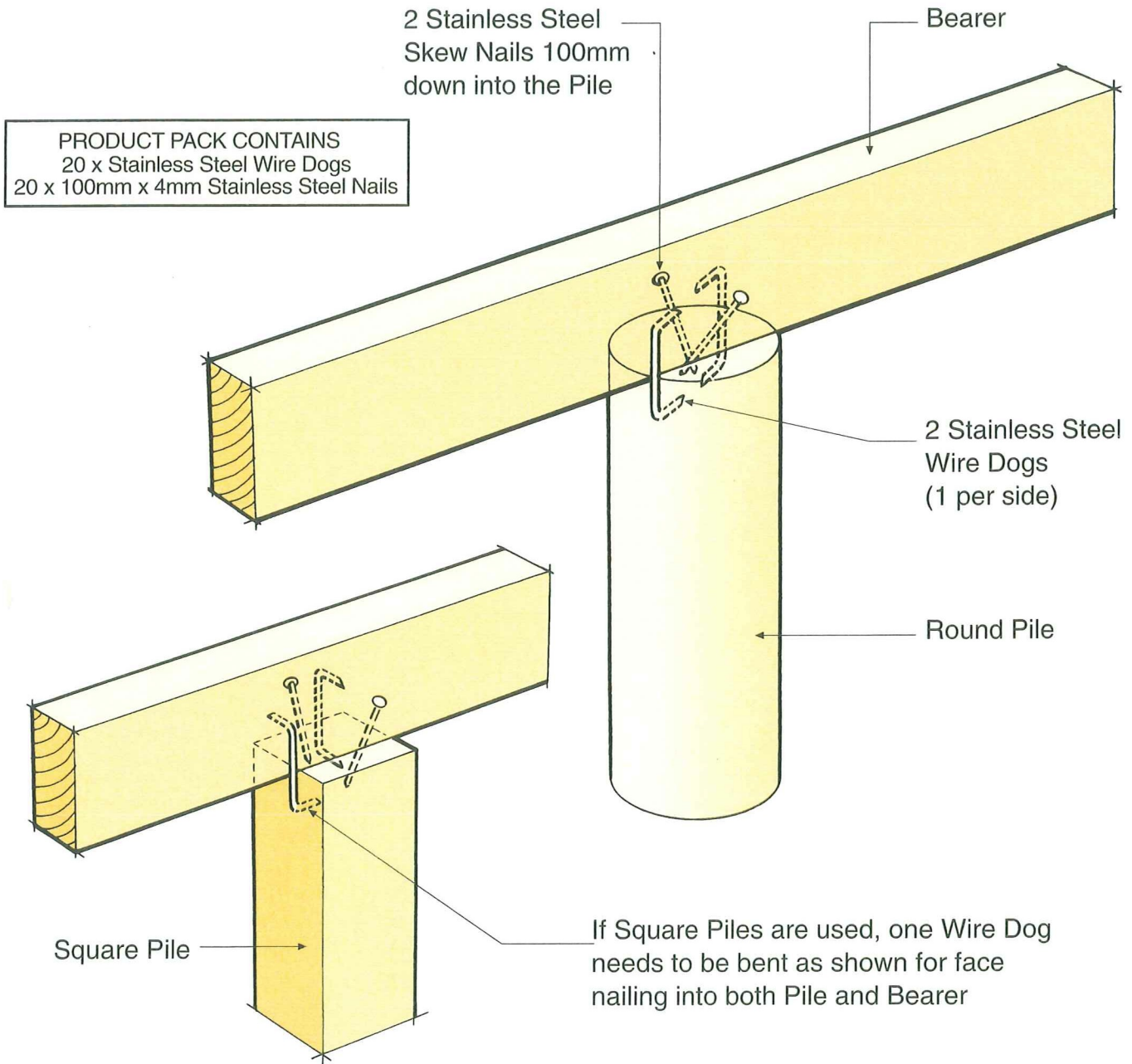


soak pit detail

SCALE 1:10

ORDINARY PILE FIXING

- ★ Complies with NZS3604: 1999
- ★ All Fixings Stainless Steel
- ★ For all Ordinary Piles (Refer Fig 6.3 NZS3604: 1999)



Available from leading Builders Supply Merchants
 throughout New Zealand



LUMBERLOK®



MiTek New Zealand Ltd.

AUCKLAND
 PO Box 58-014, Greenmount
 Phone: (09) 274 7109
 Fax: (09) 274 7100

CHRISTCHURCH
 PO Box 8387, Riccarton
 Phone: (03) 348 8691
 Fax: (03) 348 0314

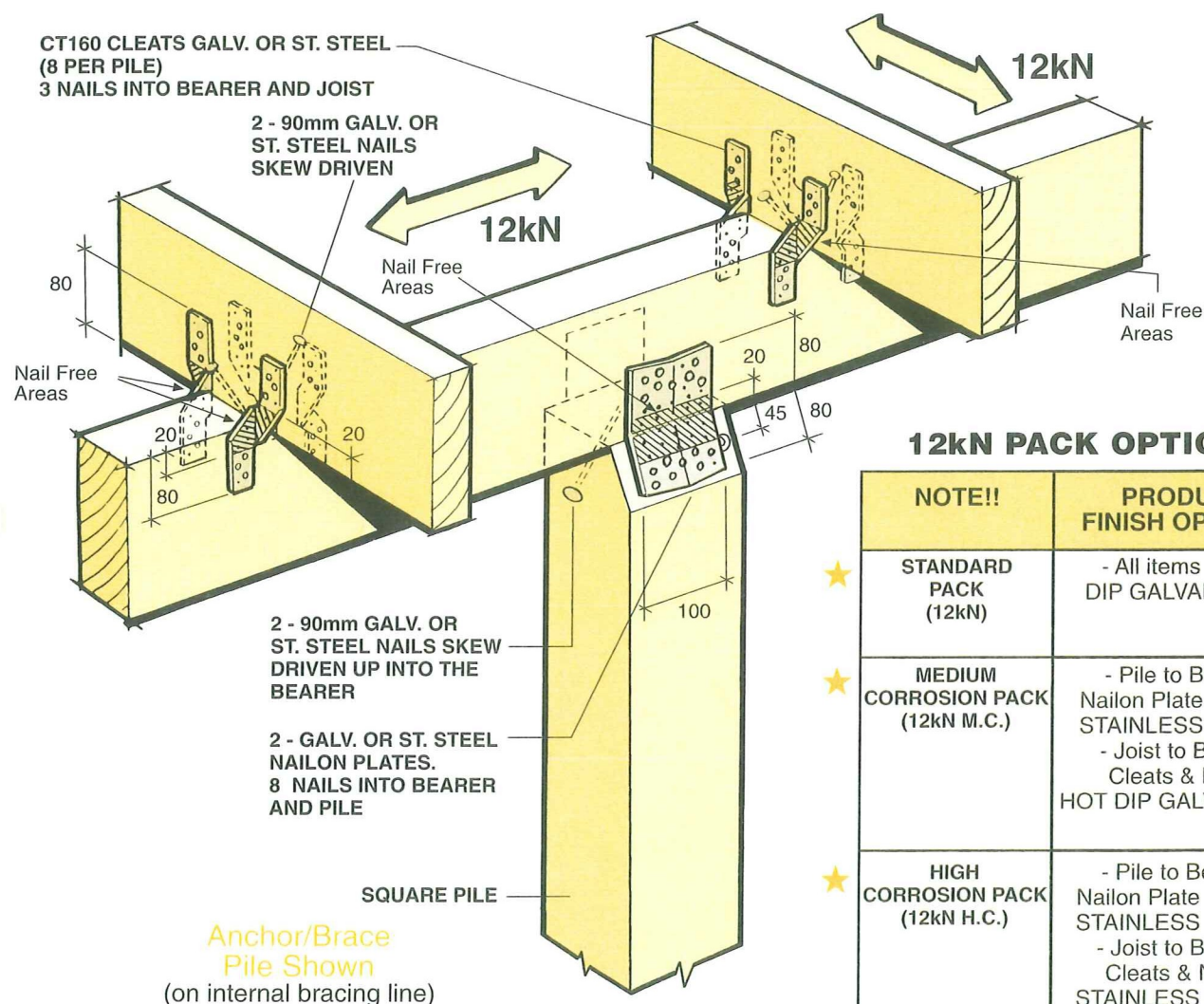
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HOME OF GANG-NAIL® BUILDING SYSTEMS

12kN PILE FIXING

For Braced Piles or Anchor Piles

- ★ The 12kN Pile Fixing must be installed in accordance with this brochure
- ★ Auckland University Tested. Test Ref. 4613
- ★ All subfloor construction must be in accordance with NZS3604: 1999
- ★ NZS3604 requires lines of lateral support to floor joists within 300mm of bearer or bracing lines, refer to Reference 7.1.2
- ★ Suitable for bearers and joists up to 150mm deep. Maximum joist depth to width ratio 3:1 and maximum bearer depth to width ratio 1.5:1



12kN PACK OPTIONS

NOTE!!	PRODUCT FINISH OPTIONS
★ STANDARD PACK (12kN)	- All items HOT DIP GALVANISED
★ MEDIUM CORROSION PACK (12kN M.C.)	- Pile to Bearer Nailon Plate & Nails STAINLESS STEEL - Joist to Bearer Cleats & Nails HOT DIP GALVANISED
★ HIGH CORROSION PACK (12kN H.C.)	- Pile to Bearer Nailon Plate & Nails STAINLESS STEEL - Joist to Bearer Cleats & Nails STAINLESS STEEL

★ See Over For Corrosion Table.

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throughout New Zealand



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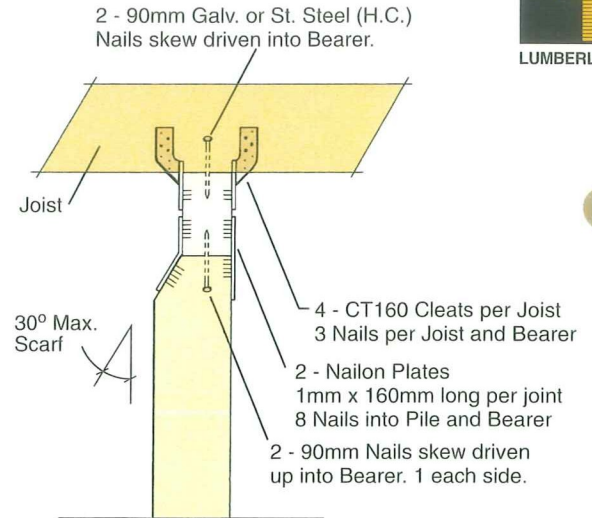
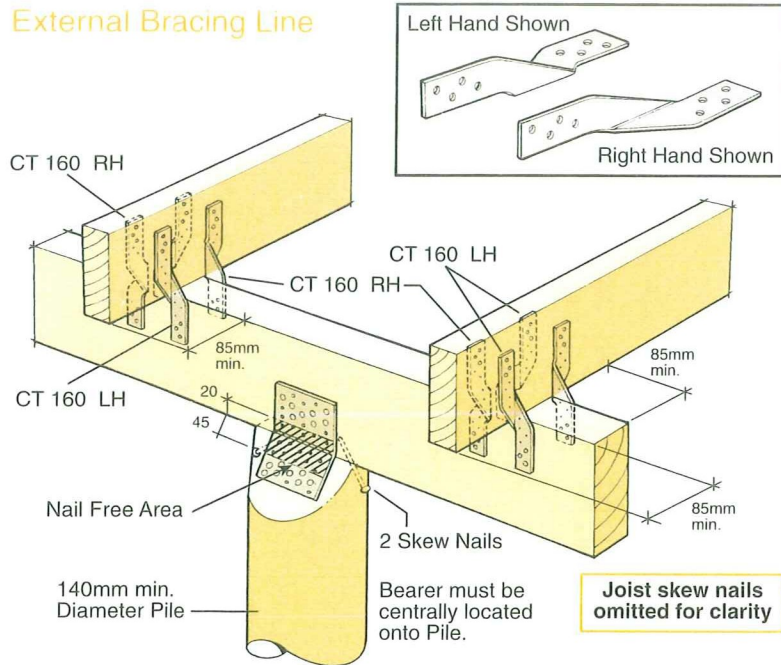
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PO Box 58-014, Greenmount
Phone: (09) 274 7109
Fax: (09) 274 7100

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PO Box 8387, Riccarton
Phone: (03) 348 8691
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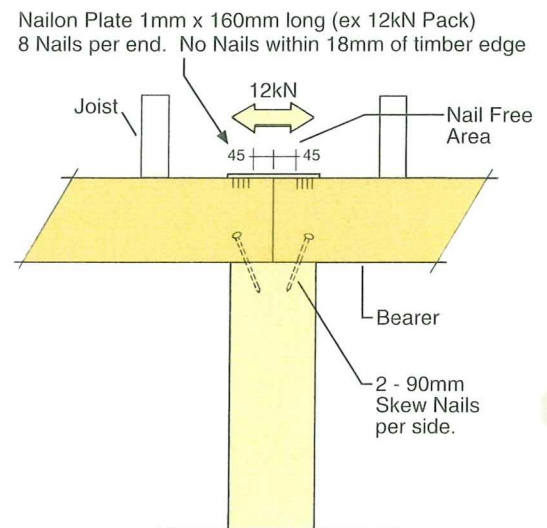
HOME OF GANG-NAIL® BUILDING SYSTEMS

External Bracing Line



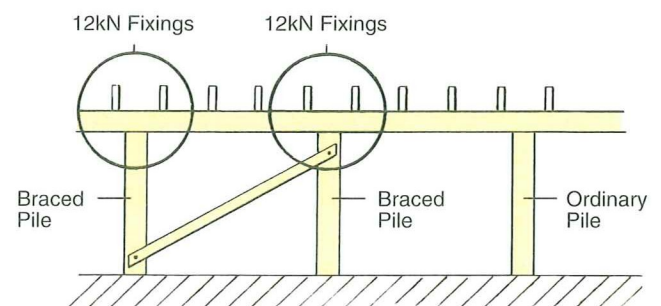
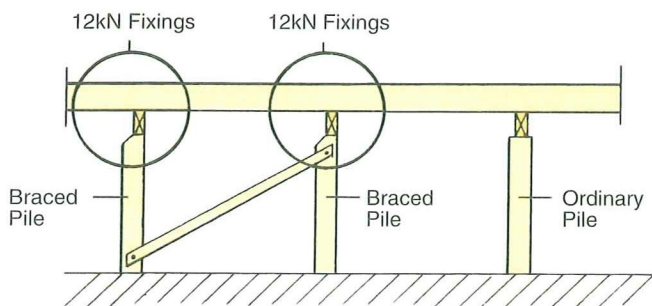
Square Pile

CORROSION HAZARD USE TABLE	
Standard Pack (12kN Std) - Outside geothermal areas - Greater than 500m from sea - Pile tops no less than 600mm above ground	All items hot dip galvanised.
Medium Corrosion Pack (12kN MC) - Outside geothermal areas - Greater than 500m from sea - Pile tops no less than 150mm above ground	Pile to Bearer fixings Stainless Steel (304). Joist to Bearer fixings hot dip galvanised.
High Corrosion Pack (12kN HC) - Coastal areas - Pile tops no less than 150mm above ground	All items Stainless Steel (304).
In Coastal Zones Only: - All above connections must be covered with a thick layer (at least 2mm) of grease after installation or alternatively a layer of DPM.	



12kN Bearer Splice

Reference 6.12.7.2
NZS3604: 1999



Sample Subfloor Elevations

12kN Fixing - Pile to Bearer
- Joists to Bearer

12kN Joint Fixing Schedule

- PILE TO BEARER**
- Nailon Plate (2 per joint) 1mm x 100mm x 160mm long
 - 8 Nails per Plate into Pile
 - 8 Nails per Plate into Bearer
 - 2 Skew Nails 90mm (1 per face)
- JOIST TO BEARER**
- CT160 Cleats (4 per Joist) 160mm long
 - 3 Nails per Cleat into Joist
 - 3 Nails per Cleat into Bearer
 - 2 Skew Nails 90mm (1 per side)
 - 80 x 45mm x 3.55 dia. Spiral Nails
 - 2 x 90mm x 4 dia. St. Steel Nails (M.C. Pack only)
 - 6 x 90mm x 4 dia. St. Steel Nails (H.C. Pack only)
- NAILS**

12kN Pile Set Contents

Each set represents 1 x 12kN Pile Fixing (packed 4 sets per carton)

- 2 x Nailon Plates 160mm long
- 8 x CT160 Cleats
- 80 x 45mm x 3.55 dia. Spiral Nails
- 90mm x 4 dia. St. Steel Angular Groove
- 2 - M.C. Pack
- 6 - H.C. Pack

Refer front page for Product Finish Options

90mm Galvanised Nails not included.