

BUILDING BUSINESS

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people on
the job

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Our biggest
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Building Business contributes towards your LBP skills maintenance requirement. Ensure you log this into your ITM diary today.



The special world of the subcontractor

What are the rights and obligations of subcontractors? How do they differ from those of the other parties in a construction project?

Subcontractors are called “sub”contractors because they occupy the level in the construction project hierarchy which is just below the main or head contractor. They typically do specialised work such as electrical, painting, plumbing, gasfitting, drainlaying, scaffolding, heating and ventilation, reinforcing, roofing, precast concrete, ceilings, walls and linings. It is not uncommon for 80% of the work that is to be performed by the head contractor to be outsourced to subcontractors because of their specialist expertise. Notwithstanding that, subcontractors are often the most vulnerable parties in a construction project, because they sit at the bottom of the chain, at the opposite end from where the money is coming from.

As a subcontractor there isn't the same variety of standard form subcontracts as there is with head contracts. Members of New Zealand Certified Builders have one, which is currently being revised. Civil Contractors New Zealand have one which is available to anyone. In September 2009 one was produced for the Specialist Trade Contractors

Federation and the Registered Master Builders Association, known as SA-2009, which I suspect is used in the majority of commercial or infrastructure projects. Then there is the occasional sophisticated subcontract that is brought in from overseas, and isn't quite suited to the local industry or regulatory environment. But which subcontract is most commonly used? The humble written subcontractor's quote. In other words, no written subcontract at all.

Subcontractors are often the most vulnerable parties in a construction project, because they sit at the bottom of the chain, at the opposite end from where the money is coming from.

Even when a written subcontract is used, they tend to be much smaller in size than the average head contract. But as living proof that appearances can be misleading, subcontracts typically contain more words than the average head contract. Why? Because they not only contain their own set of

complex rules, but they also require the subcontractor to observe all the relevant provisions of the head contract. So the poor old subcontractor has to get his head around not just one book of legalese, but two. And if that wasn't bad enough, he often isn't shown the head contract until it's too late. And it takes a pretty astute or determined subcontractor to insist on reading the head contract from cover to cover, before he commits.

The importance of written subcontracts

In those (frequent) situations where there is no written subcontract and no express statement that the subcontractor has to observe all the relevant provisions of the head contract, it is the head contractor that runs the risk. Because if he has undertaken all sorts of obligations to his own client and hasn't passed those on to his subcontractor, he could find himself between a rock and a hard place. For that reason, head contractors are well advised to provide a full copy of the head contract (or at least the relevant parts) to all subcontractors before they are hired, and state in writing that they have to comply with its terms.

An even greater risk arises when the head contractor is doing work under a residential building contract. In that situation, the head contractor is not only bound by the express obligations imposed on him under the contract, but he is also bound by the implied terms in the Consumer Guarantees Act 1993 and the Building Act 2004. Take Part 4A of the Building Act for example. That requires residential builders working on projects costing \$30,000 or more (and in some cases, any residential project) to provide a checklist, a disclosure statement, a written building contract and an owner's maintenance manual to the homeowner. And the head contractor is bound by a list of implied warranties and some very draconian remedies that the homeowner can use against him.

The good news for the subcontractor and the bad news for the head contractor is that none of those requirements apply to subcontractors. Subcontractors don't have to provide a checklist, a disclosure statement, a written building contract and an owner's maintenance manual, and they aren't subject to the implied warranties or the homeowner remedies. Consequently, if the head contractor hasn't expressly required the subcontractors to contribute their input into the owner's maintenance manual, and hasn't expressly imposed the same warranties and remedies on the subcontractors, once again he will be in a very weak position.

Other laws that affect subcontractors

However, subcontractors don't get a free ride when it comes to the Building Act licensing laws. That is because you have to be licensed to do most kinds of residential building work, and most of the specialised work that requires a licence - design, external plastering, bricklaying or blocklaying, foundation work or roofing work - is performed by subcontractors. That means every licensed subcontractor who carries out or supervises that kind of work, must submit a record of work on completion, and risks being disciplined by the relevant authority if they do something wrong.

From 31 March 2017, because of amendments to the CCA, money owed to subcontractors should be a lot safer and should be paid out a lot quicker than it is at the moment.

If a dispute arises between a head contractor and a subcontractor, each of them tends to have a different kind of leverage over the other. The head contractor can withhold money from the subcontractor, but the subcontractor can suspend work and withhold things like producer statements. The subcontractor can serve payment claims on the head contractor under the Construction Contracts Act 2002 (the "CCA"), in which case the head contractor has to be vigilant about responding with a payment schedule in time. Disputes between them can be resolved in all the traditional ways, including Disputes Tribunals, CCA adjudication, litigation, and (if agreed) mediation and arbitration. Recent amendments to the CCA have had (or will have) a significant impact on subcontractors. As from 1 September 2016, for the first time, design, engineering and quantity surveying subcontractors were brought within the ambit of the CCA. And as from 31 March 2017, all retention money (above a certain level) withheld under commercial construction contracts must be held on trust. And guess what? A commercial construction contract means "a contract for carrying out construction work in which none of the parties is a residential occupier of the premises that are the subject of the contract". In other words, all subcontracts are commercial. That should mean that money owed to subcontractors should be a lot safer and should be paid out a lot quicker than it is at the moment. So hopefully, the special world of a subcontractor will soon be a lot rosier.

By Geoff Hardy

An Auckland commercial lawyer



Geoff Hardy has 40 years' experience as a commercial lawyer and is the senior lawyer in the Auckland-based firm "Madison Hardy". He guarantees personal attention to new clients at competitive rates.

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1 x Tough Carry Case



Paslode Winter Pack only available at participating stores while stocks last.



06

MOTOR SPORT

The ITM Auckland SuperSprint

The ultimate trans-Tasman rivalry returns to New Zealand with the Supercars ITM Auckland SuperSprint, 4 – 6 November 2016.

The ITM Auckland SuperSprint promises to be one of the most exciting in the 16 years that the Virgin Australia Supercars Championship has ventured across the Tasman.

The sole New Zealand meet is the penultimate stop in the Championship. There are record numbers of Kiwis driving with Shane van Gisbergen and Scott McLaughlin joined by Fabian Coulthard, Chris Pither in Super Black Racing and Andre Heimgartner.

The NZ event is under the new SuperSprint format which is a 100km race on Saturday and 200km race on Sunday, both with an exciting 15 minute qualifying session and with mandatory fuel and tyre stops.

This year will also have the biggest support class fields for many years. There are six support classes that comprise the BNT NZ Touring Cars, the Toyota Finance TR 86, Ssangyong Actyon Utes, the NZV8

Utes, the Enzed Central Muscle Cars and the exciting Aussie Racing Cars.

It will be the first round of the New Zealand Championships for Touring Cars, Toyota 86, Ssangyong Utes and NZV8 Utes.

The Central Muscle Cars are so exciting that they have been invited to compete at Bathurst this year, while the Aussie Racing Cars are one of the most competitive and exciting classes across the Tasman.

Added to this is a Kids Entertainment Zone, a Music Entertainment Zone, Merchandise area and the super-popular True Colours Pit Walk, while the official charity is Big Buddy, the supported charity of ITM.



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SuperSprint.

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Big Buddy
MENTORING FATHERLESS BOYS



**ITM
AUCKLAND
SUPERSPRINT**
4 - 6 NOV 2016



NEW PRODUCT



Making the Outdoors Glare-free and Cool

To meet NZ's changing climate PSP Limited have introduced a new range of advanced Suntuf Polycarbonate Sheets, CoolTech & LightTech.

Want to combat the ever increasing summer temperatures or just need more light without the glare? Then you should consider these technically advanced Suntuf range of products for your next outdoor project.

PSP

TRANSLUCENT ROOFING

Suntuf CoolTech™

Suntuf CoolTech range dramatically reduces heat generated by the sun under outdoor covered areas, giving hours of comfort under the Suntuf roof. Even on the hottest of days Suntuf CoolTech can reduce the heat transmission by about 55% (compared to Clear), providing warmth without overheating.

Suntuf LightTech™

On the other hand Suntuf LightTech lets in 85% of light transmission without the associated glare compared to Clear and Tints. So put away those sunglasses and enjoy the light. The unique properties of Suntuf LightTech also allows for the even distribution of light making it easier on your eyes.

As with traditional Suntuf both LightTech and CoolTech block out 99.9% of harmful UV rays making it safe for everyone (including pets and plants) to enjoy the outdoors even in New Zealand's harsh sun.

Check out Suntuf's new website suntuf.co.nz to learn more about the entire Suntuf range, including the new Suntuf Bronze Tint and Greca profiles. Or better still rush in to your local ITM store to take advantage of these great new Suntuf products.



FREE T-SHIRT

Spend over \$150 on any products on this page and receive a free official ITM Auckland SuperSprint t-shirt.*

*Strictly while stocks last. Limit of one t-shirt per account.

Use licensed people on the job

Homeowners are reminded that LBPs must be used when carrying out restricted building work to their properties.

A new awareness campaign is running to the end of the year, encouraging people to use the right people for their building work. Aimed at both consumers and industry, it's a reminder that many residential projects need licensed building practitioners (LBPs) to build it right. See the advert below.

"We're continuing to see high volumes of residential building consents," says Paul Hobbs, Registrar, Building Practitioner Licensing at MBIE. "In times of high demand, it's important people know that their choice of practitioner matters. If you need an LBP but don't use one, it could affect the safety, value and insurability of a home and lead to a fine of up to \$20,000 for the homeowner or builder."

Only LBPs can do or supervise restricted building work – it's a legal requirement. This helps ensure that most New Zealanders' biggest investment, their home, is structurally sound and weathertight.

Introduced in 2012, restricted building work is residential design, construction or alteration work

that requires a building consent and involves or affects a house or small to medium sized apartment building's:

- ☐ primary structure
- ☐ weathertightness
- ☐ fire safety design (in small to medium sized apartment buildings).

Restricted building work does not apply to mixed use buildings (for example, shops on the ground floor and residential above).

To be restricted building work, it also has to be covered by one of the seven licence classes. These are design, carpentry, bricklaying or blocklaying, external plastering, roofing, foundations and site.

Homeowners are encouraged to ask for an LBP's ID card and check the LBP register. The radio, print and social media campaign also acts as a reminder for practitioners involved with restricted building work. Go to **www.building.govt.nz/lbp** to learn more about your rights and obligations when building.



**LICENSED
BUILDING
PRACTITIONERS**
Building confidence

A lot of building work needs licensed people on the job, right?

Yes, you're right!

If the work affects the structure, weathertightness or fire safety design of your home, it may be restricted building work.

You **MUST** use a Licensed Building Practitioner (LBP) for this work.

Go to > **building.govt.nz/lbp**

- 1 Understand if you need an LBP
- 2 If you do, check they're on the register
- 3 Ask to see their LBP ID card



Product substitution in building systems

Your reasons for wanting to substitute may be valid, but when the product is part of a building system it can have much wider implications.

Probably one of the most common questions received by product manufacturers, suppliers and Building Authorities is “can I substitute a component or product in the specified system for a similar one”. Often price, lack of availability or pressure from the building owner to use an alternative are cited as reasons for wanting to deviate from the specified component.

The Building Act

With the recent amendments to the Building Act it is more critical than ever for builders to clearly assess the impact of potential changes to specified building systems no matter how small these may appear. This is especially true for ‘critical’ building systems such as structural bracing, fire and noise control. Even switching out small components such as fasteners, sealants or adhesives may impact the level of system performance achieved versus the intended performance level in the consented plan or required under the NZ Building Code.

As part of the recent amendments to the Building Act, product suppliers and manufacturers are now responsible for ensuring their products (assuming they are installed as per specifications) comply with the NZ Building Code. For builders, this means product manufacturers and suppliers should have documentation available to prove compliance claims. Accepting verbal assurances on face value may potentially increase the builder’s exposure to liability in the future.

It is more critical than ever for builders to clearly assess the impact of potential changes to specified building systems no matter how small.

As Winstone Wallboards puts it “GIB® plasterboard systems are regularly tested and use specifically named products. This ensures GIB® systems can provide known levels of performance which specifiers and builders can rely on. Unfortunately it’s simply not possible to test all the combinations of products on the market”.

If you substitute, the buck stops with you

In practical terms, if you choose to substitute a component in a specified building system then the responsibility lies with you to verify that the building system component is suitable for use (in all respects). This means not only making sure it meets the required performance levels from the supplier (that the component performs the same as the original specification) but you may also need to check with the local building authority that they will accept the change. Additionally, switching components in specified building systems may also have implications around system warranties provided by the original manufacturer or supplier of the specified system.

Managing your risk

So you well may ask “I’m a tradesman, not an engineer or materials scientist. How do I partially manage my risk around the materials used in specified systems and more generally as part of the wider project?”

- ❑ Firstly check what materials/systems are specified on the consented plans and use them. The responsibility for performance of the specified material(s)/systems is transferred to the designer (as long as you follow manufacturer’s instructions).
- ❑ If the product will be used in structural building work, check the manufacturer/supplier has provided evidence of NZ Building Code compliance and that the proposed use is within scope.
- ❑ If interior materials are not specified or the consented plans contain words such as ‘ABC product or equivalent’ then the wise tradesperson would ensure that his choices of materials are supported by Guarantees from a reputable supplier or manufacturer (preferably with 3rd party certification credentials). Also make sure your client is informed in writing of your choice of materials/systems and remember to send copies of material guarantees to them prior to commencing work.



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**Bakerstone Box Professional
Series Pizza Ovens**

Simply purchase any Gorilla Fire Rated product from any ITM & scan the QR code on this advert to enter the draw to win.



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Buy any Gorilla Fire Rated product (Codes 20160, 20169, 20060, 20190, 20165) from any ITM during the promotion period, scan the QR code on this advert or on the A6 tear off pad in-store to enter the draw to win 1 of 5 Bakerstone Box Professional Series Pizza Ovens. Promotion runs from 03/10 until 13/11/2016 with the winner being drawn on 20/11/2016. Proof of purchase will be required and the rights of the prize belonging to the account holder under which the product was purchased if any dispute arises. T&Cs apply and can be found via the QR code entry form online.



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For more information, visit your local ITM branch.



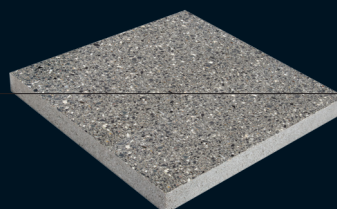
1 Architectural Masonry
Concrete performance transformed into an architectural granite-look block.



2 Coloured Concrete
Eight natural colours, optional exposed aggregate finish – with Firth coloured concrete, nothing is set in stone.

01	05
02	06
03	07
04	08

3 Designer Series Paving
Larger format, lighter colours, this new affordably priced premium paving range will excite homeowners seeking a high-end, tile-look.



4 Retaining Walls
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Insurance basics when starting your own building business

We outline the insurance basics you need to consider before going out on your own for the first time.

The average construction business in New Zealand has less than three employees, which means the building industry here is rich with small “Mum & Dad” and “one man band” operators running their own small businesses. Most of these businesses start when a builder, for a whole range of reasons, decides to go out on their own after first working for someone else for a few years. But is your training and experience suitable when it comes to running a business?

Have a risk management framework

Running any kind of business involves a certain degree of risk, and building is no exception. Indeed, builders face additional responsibilities placed on them by the Building Act, such as disclosure requirements, mandatory contract terms and implied warranties. These responsibilities can be overwhelming without the right skills, support and systems in place. A risk management framework is a good place to start to identify the potential risks you face.

Four areas of risk

Here at BuiltIn we talk about 4 areas of risk:

Assets – the stuff you own that helps you do business

Financial – the money your customers owe you

Liability & indemnity – the responsibility you have to and for others and their property

Personal – the potential for accident/illness to affect your income earning capacity.

Under each of these headings you can list the potential risks you face. Write next to each one what you can do to eliminate, minimise or transfer (i.e. insure) this risk. Most of you will be familiar with this approach because you’re doing it for health & safety already. You can then rank each item by giving it two scores: the likelihood of it happening

and the cost to you if it did. Multiply both numbers together and rank your list on this score. The items with the highest scores are the ones you need to address most urgently. This is a good exercise for any business to run on a regular basis.

Example Risk Management Framework

Description of risk*	Likelihood of it happening (2= lowest, 6=highest)	Cost if it did happen (2=lowest, 6=highest)	Total (multiply then rank)
Assets			
Tools stolen	3	2	6
Financial			
Main contractor goes bust	2	3	6
Liability & Indemnity			
Legal dispute with client	2	5	10
Personal			
Get skin cancer	2	4	8

*This is an example only

Insurance basics checklist

In terms of the package of insurance cover available for new building businesses, there are a few options to consider. What you insure for will depend ultimately on your own “risk appetite”, what you’re prepared to take a punt on and what you’re not. As a small new business you’re probably running a business while still on the tools, as well as managing projects involving other trades, suppliers and professionals. You need to make sure your insurance cover reflects all these aspects of what you do.

CONTINUE >>

Cover type checklist

1 ACC Cover Plus Extra & Illness/ Loss of Earnings

Builders are advised to switch from the standard ACC plan (called Cover Plus) to ACC Cover Plus Extra and combine this with private loss of earnings/income protection insurance. Done correctly this will substantially broaden your protection to include illness as well as accidental injury, for a similar overall cost.

2 Public Liability

This is essential cover for builders, because there is always a risk that you or one of your workers or subcontractors, could cause damage to someone else's property. Liability insurance and the claims that arise can be complicated, so make sure you spend a bit of time understanding the cover and the options that are available (like statutory liability, employers liability and defective workmanship cover) and the amount of cover you need.

3 Errors & Omissions Indemnity (Professional Indemnity)

While public liability covers you for accidental physical damage and loss of property (and in some cases injury), it will not cover your liability for mistakes that cause no physical damage but do result in a financial cost to your client (or another party). For example, a foundation that is laid out wrong, a subcontractor failing to do their job properly or not following a specification correctly. For this you will need Errors & Omissions Indemnity.

4 10 Year Guarantees

An independently insured 10 year guarantee will give potential customers extra peace of mind and security when choosing you as their builder. Master Builders, NZCB members and Homefirst Guarantee Accredited Builders can provide these guarantees.

5 Subcontractors Payment Guarantee

If you're contracting to another company there's a risk that if they go bust you won't get paid for the work you've done. This can cause significant cash flow problems for small businesses. This policy pays 75% of the money you're owed, up to the limit you choose.

6 Contract Works Insurance

Contract Works Insurance covers the work being done for things like: theft, vandalism, fire, flood, storm, accidental damage and natural disasters.

For jobs like renovations and alterations to existing buildings it is typically the building owner who is responsible for arranging insurance. A labour-only builder is also generally not responsible for arranging this insurance. Check your contract for who is responsible, if it's your client make sure you see a copy of the insurance certificate before you start work.

7 Tools & Equipment

Tools theft is rife at the moment and depending on how much kit you have, getting it insured is a sensible option. There is a wide range of cover available, from full replacement to market value only, and cover that includes burglary but not theft if there is no forced entry.

8 Commercial Vehicle

If you start using your private vehicle for work it may not be insured under your domestic vehicle policy for business use. You'll need to swap it for a commercial vehicle policy instead.

9 Home Office

Check what cover your domestic house & contents policies include for home office use and equipment.

10 Other

Other cover is available for businesses with more complex needs, so if you think you might be doing something a bit out of the box we recommend you get in touch with a specialist trade insurer to discuss your situation.

In a nutshell

Managing risk is a critical part of running a successful business. A large, unforeseen and uninsured cost could take you down and seriously affect your future success, and the welfare of your family. Understanding the risk environment you work in can also make for a happier, less stressful working career too. Take some time to assess your own risk, talk to experienced professionals and put in place an insurance package that best suits the risks you face as both a builder and a building business.

BuiltIn Insurance is a specialist in insurance and guarantees for builders and trade professionals. For more information visit www.builtin.co.nz, contact Ben Rickard at ben@builtin.co.nz or call **0800 BUILTIN**.



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- Strandfloor and StrandfloorH3.1 are both 20mm thick, faster to lay means more time for surfing!

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A champion combination

ITM and the Harwood Racing Team.

Shane Harwood is on top of his game. In the middle of the most successful season in his 13 year speedway career, Harwood won the New Zealand superstock title on a steamy Sunday afternoon in Stratford.

But success doesn't come easily, nor is it cheap. The leading superstocks in the country cost well into six figures with the engines alone an \$80,000 to \$100,000 investment. Harwood said support from ITM stores in Nelson, Motueka, Takaka and Havelock had allowed the team to remain running over 13 seasons.

Shane said he had only recently come to realise that, while other tradies spent their ITM trade points on social occasions, Charlie (his Dad and a Nelson Builder) used his for tyres and racecar parts. "It's an expensive sport and sponsors are gold, especially guys like Gary Fitzgerald and Rodney Woolf, who have been in for the long haul," Shane said.

Harwood will attempt to defend his national championship in Palmerston North early in the New Year, while he will also take on the World 240 meeting in Rotorua.

1NZ ITM Superstock

Driver:	Shane Harwood (Nelson)
Chassis:	Higgins built space frame
Body:	Fibreglass Ford Y
Engine:	Midwest Motors Toyota V8 (approx 485 horsepower)










2015/16 honours board

NZ champion
 South Island champion
 South Island series champion
 Nelson open champion
 Nelson closed champion
 Easter Extravaganza champion
 Best Pairs champion
 Winner of McCall Trophy and Sunshine Capital Cup racing with the Nelson Tigers
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*Strictly while stocks last. Limit of one t-shirt per account.



18

ROOFING

Coming soon: the Tesla roof?

Tesla innovation in car design and battery technology is about to be applied to homes, with the potential to disrupt the building and energy industries like Uber and Air B&B have done in their sectors.

Tesla's Elon Musk announced last month that SolarCity, a company he helped start in 2006 with his two cousins, will unveil new products towards the end of the year that will "take solar panels to a whole new level."

**"It's not a thing on the roof," said Musk.
"It is the roof."**

Fully integrated

Tesla has just finalised a US\$2.6 billion deal to purchase SolarCity, the number one full-service solar provider in the US.

The company plans to create house roofs made entirely of solar panels, in a sweeping expansion of Tesla's clean energy ambitions.

Along solar-charged shingles, SolarCity is developing a storage system using Tesla's PowerWall home batteries to help the main grid run more smoothly and reliably.

"Solar and batteries go together like peanut butter and jelly," Musk commented.

Re-roofing potential

One of the new designs will target a previously untapped market: homeowners with aging rooftops who are planning to replace their shingles or tiles. This market in the US is estimated to be in excess of five million new roofs annually.

SolarCity chief executive officer Lyndon Rive explains: "If your roof needs to be replaced, you don't want to invest in solar panels to install on it if you are about to take it down. But if the solar panels

are the roof, and you need to redo it anyway, there's no reason not to go with a power-generating roof."

The cost to households going solar has fallen by 70% over the past decade in the US. More than a million American homes have solar panels compared with just 30,000 homes in a decade ago.

Solar shingles in NZ

The idea of solar shingles isn't new, and several companies have developed similar systems.

One product that is becoming increasingly common overseas is the C21 PV panel. Whereas traditional PV panels are fixed to a steel or tile roof, the C21 performs as both a panel and a roofing tile.

The C21 product, now in its third generation, has been installed in the UK for over seven years, and last year won the Queens Award for innovation www.solarcentury.com/uk

The panels were first trialed in New Zealand in 2012 as part of the Zero Energy House programme www.zeroenergyhouse.co.nz

While the design details of SolarCity's roof haven't been released, experts tip that the new system will be a game-changer in the way it integrates solar gathering, power storage and management.

Musk plans to "create a smoothly integrated and beautiful solar-roof-with-battery product that just works, empowering the individual as their own utility, and then scale that throughout the world. One ordering experience, one installation, one service contact, one phone app."

GIB EzyBrace® 2016 Update



GIB EzyBrace® Systems have been updated to offer improved design flexibility and further simplification.

- NEW: GIB EzyBrace® Bracing Design Software is more intuitive and even easier to operate than previous software versions.
- NEW: GIB® Bracing Element GS2-NOM allows internal walls lined with GIB® plasterboard when installed as per the GIB® Site Guide to contribute towards bracing resistance.
- UPDATED: Openings in Bracing Elements and Ceiling Diaphragms including guidance on fireplace flues and range hoods.

Visit gib.co.nz/ezybrace to download free GIB EzyBrace® 2016 Systems software, CAD details and literature or contact the GIB® Helpline 0800 100 442.

Image: GIB® plasterboard P21 bracing test rig used in the performance testing of GIB EzyBrace® Systems



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Need a refresher?

Gain continuous professional development (CPD) activity and upskill a knowledge gap at a time and place that suits you.

Each self-paced, interactive learning module takes approximately 20 minutes and includes a self-assessment component. Gain 100% in the questions at the end of the module and you'll receive a record that can be submitted as part of your CPD activity log.

LIMITED OFFER: Buy any 8 modules (or more) and get 10% off.

Choose from 16 modules covering various topics of the NZBC. Each module costs **\$8.50**.

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- ☐ Building control systems
- ☐ E2/AS1 Risk matrix
- ☐ Earthquake bracing demand
- ☐ Wind bracing demand
- ☐ Designing for wind and earthquake bracing capacity
- ☐ Introduction to H1
- ☐ Introduction to R-values
- ☐ The schedule method
- ☐ The calculation method
- ☐ Modelling methods - ALF
- ☐ Introduction to moisture
- ☐ Properties of moisture
- ☐ Water vapour in air
- ☐ Moisture in materials
- ☐ Introduction to managing external moisture

TOOLS FOR THE SITE

6.5 HP Pressure Washer

#PS3000HD

- 3000psi, 11 L/min
- 10" pneumatic wheels
- Adjust pressure from 1000 - 3000psi on the go
- 15m steel braided 'monster hose'
- Honda GX200 OHV industrial engine
- 3 year commercial warranty



\$1,600
EXCL GST

POWERED by
HONDA



6.5 HP Pressure Washer

#PJ3000RS

- 2900psi, 8.8 L/min
- 10m steel braided hose
- Adjustable pressure
- LIFAN OHV engine
- Ideal for driveways and vehicles



FREE



\$660
EXCL GST



Telescopic Wand

#PS18TSW

- 2-5 metres extendable
- 5 sections
- Suitable for all waterblasters with 3/8 Q/C fittings
- High strength hydraulic hose



\$180
EXCL GST



Belt Drive 2 HP Air Compressor

#AC13

- 50L tank
- Lightweight and portable
- Will operate most tradesman's tools
- 248 L/min, 125psi



FREE



#AC3406
10M Hose

\$750
EXCL GST



**BUILDING
BUSINESS** **DEALS**



Child's play

Marley Connecto™ Surface Drainage System.

New Zealand has regular rainfall and increasing levels of urbanisation. This combination creates larger man made areas that need to be drained. A surface drainage system prevents flooding in these areas by efficiently channelling the water into the storm water network.

Marley Connecto™ surface drainage has the capacity, style and strength for your drainage needs. With a simple interlocking modular design, Connecto™ is quick and easy to install with no corner components. The system is strong and built to last as it's manufactured to EN1433, a globally recognised drainage standard.

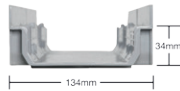


MARLEY®

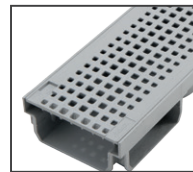
THE RANGE

SLIM

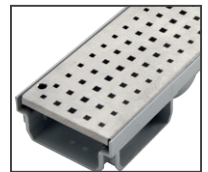
Slim is ideal for situations requiring minimal water drainage, such as by pools or apartment balconies and requires less excavation for a quick installation. The Slim range can be used with stainless steel side rails.



Standard



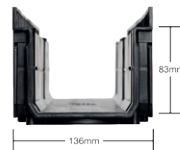
Pedestrian



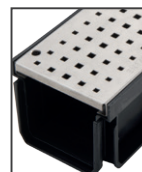
Stainless Steel

MEDIO

Medio is our medium sized system that is perfect for residential applications requiring more drainage capacity, including in front of a garage or patio area. The Medio range has a polypropylene base for long term stress and durability.



Standard



Stainless Steel



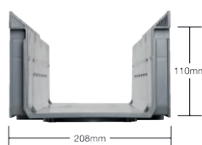
Styled Galv



Cast Iron

MAX

Max is a high water capacity system ideal for use in commercial, high rainfall and large drainage areas. This heavy duty range also has a polypropylene base for long term stress and durability.



Standard



Galv



Cast Iron



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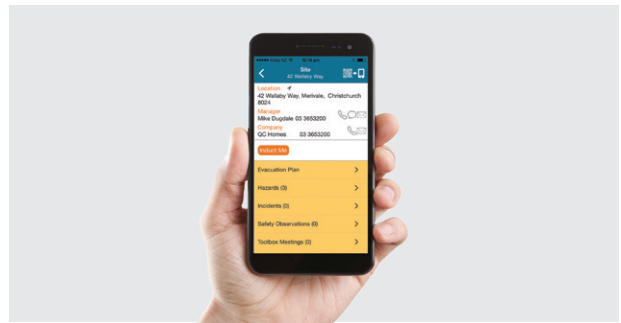
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Health & Safety made easy

Why the construction industry loves SafetyMate.

As the electronic health and safety platform designed for those working in the construction industry passes a year of being in market, its users say it helps make compliance a breeze. The SafetyMate website and app helps make sure your work-site is safe for all your employees and workers – and it does it right from your mobile phone.

With over 1,000 customers, what is it that contractors like about it? 'Mike' explains: "The boys just like signing in and out each day, real easy. The big thing for me is that I can see my sites and see who is there or not. With SafetyMate, it means I don't necessarily have to ring people. I also like that if something does happen, I am made aware of it straight away."



Mike is an enthusiastic user, who has seen the benefit of easy, fast and convenient compliance with Health & Safety regulations. Development on the platform is continuous, with new features and benefits being added as feedback comes in from users and as the developers identify opportunities for improved usability and accessibility.

You focus on getting the job done, while SafetyMate supports you in running a site from which everyone gets home safely every day. With a free 30-day trial, there's never been a better, easier or more cost effective way of managing health and safety on site.

For more information, visit www.safetymate.co.nz



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Understanding tax pooling

Money is often wasted when people aren't aware or simply choose to ignore the various options currently available to them in the market place.

In my experience, there are many great alternatives to the more common range of products that people typically use. The main reason why people tend not to try new products is because they either don't know about them or don't understand them fully so they stick with the status quo.

Tax Management New Zealand

For those of you who don't know about tax pooling, this is a great option that is worth considering. Tax Management New Zealand (TMNZ) is a premier example of this service.

There is a new tax system coming into place but this does not cover every tax payer in the market. Until it comes into effect, there is still a large cost involved for those who cannot afford to pay tax on the provisional tax due dates. This cost is largely

due to the Inland Revenue enforcing interest and penalties onto late payers. TMNZ allows you to purchase tax at an earlier date. While there is an interest cost for this service, you can save up to 30% in comparison to the fees incurred through the IRD. The reason why TMNZ can offer this option at a much cheaper rate is because the IRD's penalties and costs are eliminated.

And it's not only the rich and famous that can apply for this service. We see companies of all sizes save significant amounts of money, by paying their tax through TMNZ. Consider your alternatives today and start thinking outside the usual options of using the bank or the IRD as a lender.

By Stu Ruddell

Crowe Horwath
Business advisor



If you think tax pooling could be a good option for your business, contact Stu Ruddell or a business advisor from Crowe Horwath.
stuart.ruddell@crowehorwath.co.nz

For the contact details of your local office, please visit:
<http://www.crowehorwath.net/NZ/services/advisory/Advisory-Services.aspx>
or telephone 0800 494 569.



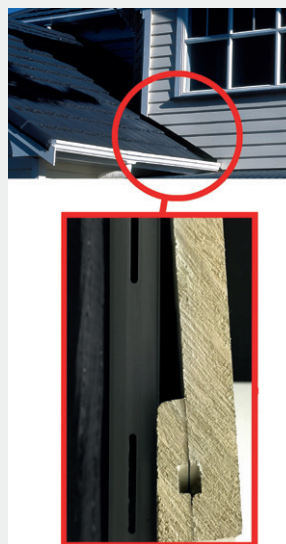
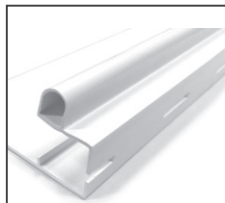
New raked roof closer fills a gap in the market

Time and time again we see raked roof line applications where cavities under angle cut weatherboard remain open to vermin.

These are tricky areas as builders have not had a good solution to close gaps that are often over 4mm.

The raked roof closer, by DynexBuild, is a new cavity closer that fills these gaps easily. The cavity closer has a unique soft flexible bulb that fills the variable voids created by the angle cut weatherboard.

The raked roof closer is available from your local ITM store and is BRANZ appraised to ensure it meets the strict NZ building code.



The voids created by angle cut weatherboards have continued to cause builders problems – until now.



The cavity has now been closed with the use of the DynexBuild Raked Roof Closer

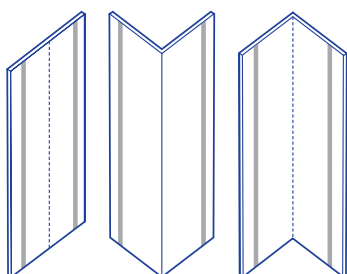
To see the full range of DynexBuild cavity closers please visit www.dynexbuild.co.nz

DYNEXcavityclosers



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MULTIBOND 1L

#20881

- A multi-purpose latex bonding agent, primer and admixture.
- Used where high performance and durability are required.


\$16.90
EXCL GST

REVEAL 5L

#20952

- A surface retarder to exposed aggregate and construction joints.
- Recommended for concrete up to 20MPa
- Spray application


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EXCL GST

CEMPLUS 5L

#20850

- A concentrated plasticiser for mortar and plaster.
- Improves workability and adhesion of cement mortar and plaster.
- Reduces cracks and crazing.


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ACCELERSET 5L

#20805

- An accelerating and densifying admixture for Portland cement mixes.
- Used when high early strength development is required i.e. cold weather concreting


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Walk with Confidence

True Oak corrugate is deeper and stronger than traditional standard corrugate. So, you can walk confidently when installing or accessing the roof, knowing there is less risk of causing damage.

A deeper and patented profile design offers additional strength and spanning capability over traditional .40 Corrugate, with the added bonus of a 4 degree minimum pitch capability.



DEEPER + STRONGER

Than traditional corrugate roofing

TRUE OAK®

A return to the original corrugate



Roofing Industries
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Technical FREEPHONE
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26

FISHING

Our biggest building project ever!

ITM is proud to announce it has signed up as a LegaSea Platinum Partner.

At ITM we know the value of a day spent off the work site and on the water with a bunch of mates and a rod. We know the value of having something to bring home for the barbeque at the end of the trip.

Through our experience with Matt Watson and the ITM Fishing show, along with our regular support of local fishing events, we also know that bringing fish home for the barbeque is getting tougher.

It's not surprising that, with overfishing, pollution and antiquated commercial trawling practices, the marine environment is facing more threats today than ever before.

It's been a case of out of sight, out of mind

In New Zealand's relatively short history, we have already plundered many of our natural resources. But it's much harder to see the damage happening in our marine environment. The adage 'out of sight, out of mind' has never been more fitting. There is no way we would let a bulldozer cut through our pristine forests just to harvest some deer, yet we allow similar destruction on our sea beds.

ITM wants to make a difference, to maintain what is such a big part of our Kiwi identity. We are going to help rebuild our inshore fisheries by backing LegaSea all the way.

LegaSea's goal is to rebuild New Zealand's inshore fisheries by restoring abundance and diversity in our coastal waters. A thriving fishery is good for our social wellbeing and it's a money spinner for NZ's economy.

In NZ a billion dollars a year is spent chasing our target species. On top of that 100,000 tourists go fishing in NZ every year, and a large proportion of those release their fish. Imagine if we were able to build our fisheries and advertise ourselves as the number one fishing spot in the world. It would be a much better way to utilise our fish.

Show your support

If every now and then you like to put down the hammer and pick up a rod then join us in our building project. Show your support for LegaSea by signing up for updates, or even better become a LegaSea Legend. Let's see them right and give them a helping hand to rebuild our fishery.



Visit legasea.co.nz or simply give them a call
0800 LEGASEA to get involved.

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PER YEAR**

**plus a monthly
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(Make sure we have
your email address)



Natural
Zinc Oxide
sunscreen
for protection
against UVA
and UVB rays

Wear this or
the sun will
nail ya!

Grab one now!



Make the time to see a specialist

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- Tuakau ITM 09 236 8226
- Waiuku ITM 09 235 7289
- Weck's ITM Patumahoe 09 236 3684
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- Otorohanga ITM 07 873 8079
- Rotoma ITM Rotorua 07 347 7023
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- Thomsons ITM Whatawhata 07 829 8518
- Timmo's ITM Te Awamutu 07 871 7545
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- Whakatane Timber & Hardware ITM 07 307 0031

COROMANDEL

- Bargain Boards ITM Kopu 07 868 9829
- Barrier ITM Tryphena 09 429 0466
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CENTRAL NORTH ISLAND

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- Hometown ITM Foxton 06 363 8049
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- Stratford ITM 06 765 7800
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- Turangi ITM 07 386 5736
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- Tumu ITM Hastings 06 873 0999
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- Havelock ITM 03 574 1018
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- Nelson ITM 03 548 5487
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- Geraldine ITM 03 693 9397
- Greymouth ITM 03 768 0441
- Hamptons ITM Waltham 03 374 3333
- Hillside ITM Hornby 03 349 9739
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**AUCKLAND
SUPERSPRINT**

4 - 6 NOV 2016



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