

ISSUE 3
MAY 2003

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COPE



NZ Metal Roofing Manufacturers Inc.





PRESIDENT'S FORWARD

Welcome to our third issue of SCOPE.

The response to our magazine has been very gratifying and we are now able to report that 7,900 copies of this issue will be circulated. This is a combination of Architects, designers, builders and industry professionals.

What has been most rewarding is the influx of material provided by architects and building companies who have recognised the opportunity SCOPE can provide to showcase and share their work. We have heard from companies featured in past issues that they have had nationwide response. The recognition of individual skills and the creative and functional use of metal cladding and roofing material can only be seen as a benefit to all parties.

We continue to encourage all recipients of SCOPE to continue to provide examples of their work which will in turn help us to provide the industry with a useful and informative magazine.

We are collating material for issue four now so please make contact with any member or the publisher if you wish to contribute.

I wish to thank those who have contributed to this issue and trust that they benefit from this support.

Darrell Back
President
The NZ Metal Roofing
Manufacturers Inc.

SCOPE

NZ Metal Roofing Manufacturers
Inc. Executive Committee
2001/2002

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Darrell Back is the Managing
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Gary McNamara is the New
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Manager for Gerard Roofing

Warren Olive Executive Member

Warren Olive is the Managing
Director of Franklin Long Roofing.

Gregg Somerville Executive Member

Gregg Somerville is Marketing
Manager for Dimond.

Above is a brief introduction to the
2002 executive of the Association.
It is intended that Scope be
representative of the industry and
therefore material of interest is
welcomed from all sectors of the
building industry be it design,
research, manufacture or
construction.

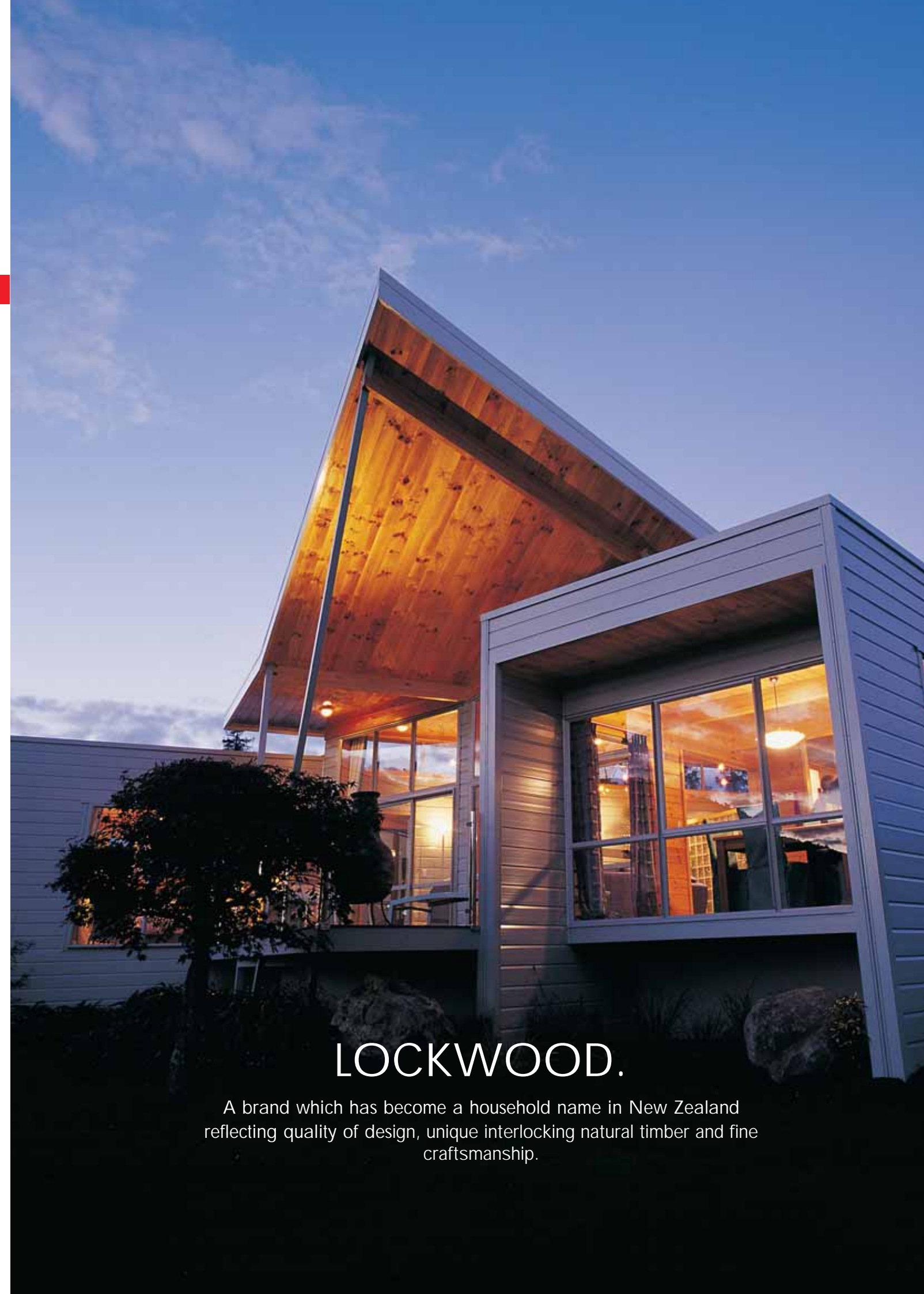
If you would like to submit
material please contact any
member of the executive or
the publisher.

*Advertising and editorial opinions expressed in
Scope do not necessarily reflect the views of
the NZ Metal Roofing Manufacturers Inc., it's
executive, committees or publisher unless
expressly stated.*

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Executive Officer
Private Bag 92 066, Auckland.
Ph: 09 367 0913
Managing Editors:
Tony Barbarich, Gary McNamara,
Gregg Somerville
Published by ICG Limited
57 Glendhu Road, Glenfield,
Auckland.
Ph: 09 444 2424.
Fax: 09 444 2524
e-mail: conceptart@extra.co.nz*



LOCKWOOD.

A brand which has become a household name in New Zealand
reflecting quality of design, unique interlocking natural timber and fine
craftsmanship.



Left: This natural timber weatherboard Lockwood home has a natural indoor outdoor flow featuring large verandas and the steep pitched roof. The texture Gerard Corona Shake roof, in Charcoal, contrasts well with Lockwood cladding and cedar.

Below: A variety of home styles and lightweight roofing options are available from Lockwood homes. Each home is tailored to the owner's preferences and environment.



The Lockwood inter-locking building system was invented over 50 years ago by Jo La Grouw Snr. The unique interlocking device, which remains at the core of the system, has undergone continued research and development and is now proven and recognised for quality, durability and lifetime value.

In 1983 a sister company, Initial Homes, was launched offering consumers many of the benefits of

Lockwood design with additional options in cladding, roof trusses and kitset formats.

In April 2003 Lockwood and Initial Homes merged under the Lockwood umbrella. This move brings both home buying options together, simplifying marketing and giving consumers the widest possible selection from their 27 franchise builders throughout New Zealand.

The clean simple architectural lines of Lockwood coupled with the natural beauty of timber and promise of low maintenance has always had an appeal to home owners.

"There is a synergy between lightweight metal roofing products and Lockwood home design," says Kerry Treloar of Lockwood. "The style of modern homes today features long spans with large glazed areas. This impacts not only



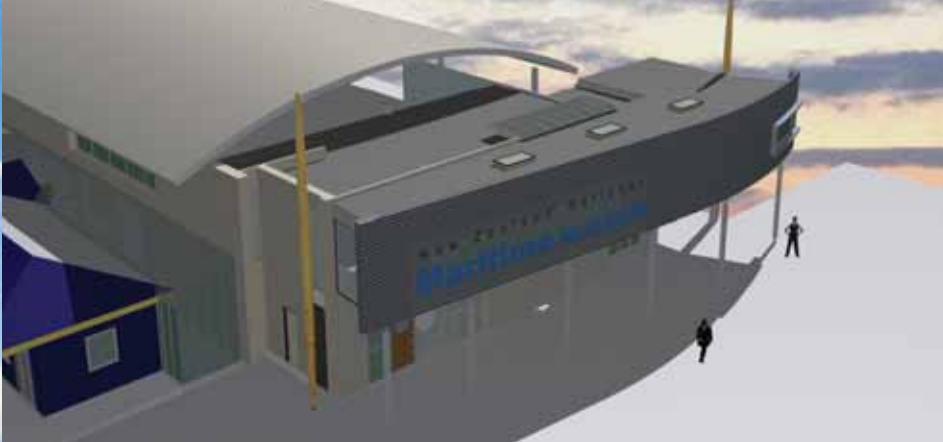
on the aesthetic appeal of the exterior of the home but also plays a vital role in shaping the interior design. The design flexibility offered by lightweight roofing materials allows large, open uncluttered timber ceilings and large panoramic window openings which would otherwise prove difficult to achieve without considerable additional costs."

The large range of colour, texture and form offered by lightweight metal roofing is also considered a "big plus" by Lockwood designers, colour co-ordinators and home owners alike.

Lockwood offer their customers a wide range of roofing options in longrun, tiles, shakes and shingles. Pictured here are examples of applications from commercial to the Lockwood "Lifestyle" series.

Lockwood have a variety of homes and plans available. To contact Lockwood in you area please visit our website.

<http://www.lockwood.co.nz>



NOT ALL PLAIN SAILING

This project grew from a need for The Spirit of Adventure Trust to rehouse existing Administration operations.

The history of this project was not without considerable "negotiation" amongst the various interested and affected groups.

The National Maritime Museum took on the ownership of the new building, with the Spirit of Adventure Trust as a long term tenant and the Ports of Auckland as the "land-owner."

Two constraints were that the proposed building was not to sit directly on the (Prince's) Wharf, and that a clearview through to the Waitemata was to be preserved for the benefit of the general public. An additional technical issue was that the Maritime Museum building effectively sits on Hobson Wharf and the extension is over Prince's Wharf. Both wharfs are physically separated.

The solution, based on initial planning by Creative Spaces Ltd., was to raise a "thin" form above the wharf deck, which gives a public "colonnade" at ground level. The steel frame structure is designed to "flex" and take up any movement that may occur between separate "ground" conditions. The building structure is able to accommodate the potential disparate wharf movement.



The proposed building sits on both the Hobson Wharf and Prince's Wharf. Truly a salt water environment.

This project required a cladding material that would stand up to the harsh environment. Dimond advised our options were ColorCote® ZRX™ on a 0.55mm steel base (but not available in "Black") or ColorCote® AR8™ on an 0.70mm Aluminum base. The cladding settled on was ColorCote® ZRX™ on steel in the colour "Grey Friars".



The choice of corrugated steel material and dark colour, is a metaphor for the Trusts flagship, a barquentine, the "Spirit of New Zealand," which moors on Princes Wharf, immediately in front of the new building. The texture of corrugate is suggestive of the original clinker hull construction of old sailing vessels, and the ship is black.

*Client: Spirit of Adventure Trust
Contact: John Lister, CEO
Telephone: 09 373 2060.*

*Architect: Mark Sayegh
Deighton Gibbs Architects Ltd
Auckland.
Telephone: 09 373 4900
email: stuff@dga.co.nz
Website: <http://www.dga.co.nz>*

GERARD RECOGNISE THE CONTRIBUTION MADE BY ARCHITECTS, DESIGNERS AND BUILDERS

Often exceptionally well designed homes are never visible and as a result those involved seldom get acknowledgement for their work.

Architects, designers, builders and manufacturers all rely on one basic marketing reality - "If you don't keep consumers informed about what you do, they simply don't know you do it."

From this fundamental concept Gerard, some three years ago, recognised an opportunity to provide both incentive and exposure for those who chose to use their products. They introduced the Gerard Roofs Home Design Awards which offers the winning entry three overseas vacations for two. The Architect, the builder and the home owners all benefit.

Gerard Roofing's marketing manager, Gary McNamara says, "The quality and quantity of entries to our award program has grown every year. All entrants benefit through national media exposure of their work and the Gerard Brand and product range benefits by association with excellence in design."

Distinctive homes are a result of design, workmanship and materials and it is this combination which sets them apart.

Featured here is one of the finalists in the 2003 Gerard Home Design



Awards. This country home near Wanaka was designed by Mason & Wales Architects and built by Mark Duffy.

The home features a Gerard CoronaShake roof in Charcoal .

The owners chose the textured shingle to compliment the colour and style of their new home.

The Gerard awards are judged independently, on line, by all industry professionals who wish to participate. To vote visit www.Trendsideas.com/gerardawards Further details in regards to this can be found in "news and views" on page15.

For details on the Gerard Roofs Home Design Awards program call 0800 104 868 or visit The Gerard website. www.gerardroofs.co.nz

The "Spirit of Adventure" serving the youth of New Zealand

The Spirit of Adventure Trust has a history envied by many - and is one of New Zealand's leading youth development charities. 30 years of service to the youth of New Zealand and 50,000 young New Zealanders later, the Trust is justifiably proud of its history, safety record and nation wide operation.

The trainees are selected by their schools and join the ship from all over New Zealand for a voyage of a life time. "It changes their lives forever," says the Spirits CEO John Lister.

The Trust was formed in 1972 with the first ship, the "Spirit of Adventure," sailing out of Auckland. When replaced by "Spirit of New Zealand" in 1986 the Trust went nationwide with a sailing schedule covering ports throughout New Zealand.

John speaks highly of the supporters of the Trust. In particular the Ports of Auckland who over 30 years have provided free berthage for both ships, and accommodation, first at Marsden Wharf and then latterly at Princes Wharf adjacent to the Maritime Museum. The Kitchener Group also looked after the Trust with temporary accommodation in the form of portacoms in the position where the new building is going. "Regrettably" John says, "it was far too long. Four years in those conditions did little to help the comfortable movement of both trainees and staff."

Thanks to many, a new proposal will see the Spirit in its own offices which will be by July/August 2003. "This will be a wonderful 30th anniversary gift to add to our celebrations in November," John says.

Not all plain sailing, but a very happy conclusion!



Part of a village of 21 homes offering accommodation to visitors touring the Southern Alps. All the homes feature the same distinctive style where David Reid Homes designers were creating an alpine village feel. Corona Shake tiles were selected as they particularly emphasised the Alpine feel.



Built in one of Christchurch's premier subdivisions "Northwood", this David Reid designed & built home utilised Trimdek longrun roofing to enhance the sharp clean lines of the extensive parapet gabling.



The brief for this Wanaka home was to replicate an English Tudor theme in look and style but to maintain the benefits of technology advancements. David Reid Homes, in conjunction with the owner, chose an exterior look of Stacked Schist stone, dark stained rough sawn Oregon, exposed hardwood beams, and Gerard Oberon Shingles in Eclipse. The combination of materials was intended to look as if it has existed for 100's of years, and yet have all the benefits modern technology could provide.

This home is directly from the David Reid Homes' "Heritage Series". The ceilings all stand at 2.7 high or are pitched right through to a 5 metre height. Using this extra space over-height glazed doors were used to effectively picture-frame the spectacular views surrounding this home.



DAVID REID HOMES. ASPIRATIONAL

In 1993 having become frustrated by bureaucracy, and a resistance to meet the demands of both the marketplace and home buyers, David Reid stepped out to follow his vision.

"To create a National home building franchise company which would target the aspirations and needs of home buyers, provide a wide selection of well designed and appointed homes and to build a profitable network which would give National franchises the edge in the home building market."

Ten years on and David Reid Homes have exceeded their expectations and goals, however David openly admits the journey was not always easy. In fact David

says, "The success of the company is due to recognition of errors and a positive approach to rectifying them." It is this ability to change with the needs of the market which maintains the high standards demanded and keeps the business profitable.

Care is taken in every aspect of the business from the selection of Franchise holders to the choices of suppliers and materials. The systems are streamlined from customer care to number crunching. The Company unashamedly strives to increase their profitability but not at the expense of their reputation which is clearly defined as "to be second to none."

Featured here are several examples which show a range of projects designed and completed by David Reid Homes. The materials used are carefully selected to provide quality and style and reflect the characteristics of each home.

Each illustrates the diversity of design which can be achieved with a variety of lightweight metal roofing and cladding products.



Set on 5 acres overlooking the owners vineyard this David Reid designed and built home employs extensive Zinacalume® longrun with a gentle mix of plaster to achieve the minimalistic styling the owner desired.

Today David Reid Homes has branches or franchises in Christchurch, Dunedin, Wanaka, Hamilton, Coromandel, Bay of Plenty and Auckland. Under negotiation or planning are Queenstown, Nelson, Blenheim, Napier/Hastings, Taupo and further expansion in Auckland.

Enquires to find out more about joining this National Franchise are welcomed. These should be directed to David Reid Telephone: 021 533 177. e-mail: david@davidreidhomes.co.nz or visit the website at: www.davidreidhomes.co.nz

This David Reid home takes full advantage of its northern aspect with a large, sheltered, deck which provides indoor outdoor options. The Gerard Satin tile finish used compliments the textured plaster cladding.

This home was designed to be sympathetic to the surrounding countryside. A mixture of stacked schist stone, stained rough sawn Oregon and mud coloured plaster helps this home blend with it's environment. The clients chose longrun corrugate roofing to create the old style look of a large country homestead.

This challenging David Reid Home steps back in time to the turn of the century. The character is carried throughout the home with detailed fretwork and is complimented with Colorsteel™ longrun corrugate on the roof and sweeping verandas.





AN IDENTITY WHICH REFLECTS THE BEAUTY OF THE WEST COAST

From the Haast Visitors Centre to a sun drenched family retreat Gary Hopkinson's work demonstrates an individual flare which neither imitates nor compromises but reflects the identity of the West Coast environment.



The Templeton House in Able Tasman National Park was designed to a strict budget, with a limited flat building platform and difficult site access. This holiday home needed to be self sufficient for all amenities, provide accommodation for 14 guests and be sympathetic to the environment. Cost, lightweight, easy

care, durability and aesthetic appeal all contributed to Gary's choice of metal cladding and roofing. The Templeton's say, "We couldn't believe a property could be so easy, so relaxing, so absolutely perfect."

This home clad in Rivergum Colorsteel® G2z won the Local NZIA design award in 1998 and the Regional NZIA design award in 1999.



"Three main factors contribute to successful vernacular architecture. Form that is sympathetic to its setting. An appropriate roof line. Suitable building materials.

Of these roof line is of paramount importance. This is especially true away from urban areas where the building may be a single statement in an otherwise natural setting.

The relationship of the roof form to the landscape is the most important design consideration. If the form is inappropriate...no amount of titivating will correct the damage".

With conservation policies limiting our native timbers there has been a resurgence of the use of corrugated iron which was used extensively during the pioneering days on the West Coast. The technological improvements and longevity of this material makes it a natural choice in the West Coast environment.

While Gary believes that a building's colours should be discrete and compliment the landscape from a "limited palette" he also recognises the visual impact and stark beauty

The Haast Visitor Centre sheathed in gleaming, unpainted corrugated iron was designed and built in the early nineties. The building, designed to attract attention and invite investigation has succeeded. Sometimes controversial, often talked about but never overlooked. The stark structure reflects the mood of its environment by day and night.

The Haast Visitor Centre won the NZIA design award in 1993 and Tourism award in 1995.

that can be achieved with careful and deliberate design. The award winning Haast Visitors Centre is a fine example of architecture which was considered ahead of its time when built in 1992 but has stood the test of time in both form and function. To use coloursteel as a 'thin skin' stretched around the form of a building, rather than a replacement cladding, was a fresh "new" approach. The Haast visitor centre was one of the first sizable buildings to benefit from this concept of sculpturing a building. In achieving excellence in design and acceptance of "new" ideas



The Grey Main school technology suite, built in 2000, was an interesting project and amongst the first "new" State Schools, in NZ, which were designed to meet the curriculum for 1 to 8 year old children. The technology concept required purpose built multi level furniture and the building "acknowledges" ESD principals in design - passive ventilation, natural south light, reflective light shelves, use of surplus hot water for underfloor heating, solar collection walls. The lighting and acoustics are of a high quality, and a washable synthetic carpet was used. The steel portal frame is exposed inside, separated from the building fabric. A white metal pan acoustic ceiling reflects the south light from the elevated skylight. Services such as plumbing, wiring and heating pipes are all exposed in part to supplement the learning process. The exterior has been clad in a concrete block veneer "dado" with unpainted Zinalume® and stainless steel above, a subtle industrial overlay to a traditional school form.



Gary acknowledges that, "The available exposure to media and travel have helped make people more adventurous in their tastes but the key factor in any building will always be to fulfil the clients wishes."

To this end Gary makes it his business to get to know his clients detailing their likes and dislikes in a very comprehensive written brief. Understanding the needs and the way every space is to be used is of extreme importance. One of Gary's clients, John McManaway expressed it well by saying, "He knew our tastes....and it just kept getting better." A fitting tribute to an architect who strives to achieve a result which satisfies his creative desires and his clients expectations.

Gary's work extends far beyond the West Coast of New Zealand in a diverse range of projects and styles. Shown on these pages are but four projects all of which use metal cladding and located in the South Island of New Zealand.

Architect: Gary Hopkinson
Hopkinson Team Architecture
141 Tainui Street
Greymouth, New Zealand
Telephone: 03 768-4141
e-mail :
hopkinson@teamarchitecture.co.nz
www.teamarchitecture.co.nz/hopkinson

Photography Templeton and
McManaway homes: Paul McCredie.



The McManaway's number one priority was to bring the sunshine and warmth inside their retirement home. Built to a very strict budget the owners say the planning and design of their home was an exciting adventure resulting in a home which exceeded their expectations. A home that was functional, not fussy, so they could get on with the business of enjoying life.

The NZIA citation describes the home as "A Jewel of a house displaying a subtle play of spaces and volumes, with clever extension of spaces to beyond. Simplicity of form hides sophistication of thought in its creation. A stunning example of cost-effective materials being carefully assembled to achieve a result that surpasses the expectations of the brief."

The McManaway home in Motueka won the Local NZIA design award in 2001.

This home is clad in New Denim Colorsteel® G2z.



HUKA LODGE. THE BEST OF THE BEST.

The number one Australasian destination for Royalty, celebrities and political figures has just completed their multi-million dollar refurbishment programme designed by Queenstown architect Fred van Brandenburg.

Fred van Brandenburg, has skillfully worked with clever window treatments and reconfiguration of space to create more light and enhanced spaciousness within the rooms. The work at the tranquil Huka Lodge retreat has been spread over a 2 year period to avoid any inconvenience to guests.



The refurbishment required a roofing material that could perform in the moist forest environment that surrounds the complex. ColorCote® ARX in Metallic Anodised Bronze was the chosen material.

Calder Stewart Roofing installed their Eurotray Roll Seam profile to the buildings. Four Double Suites were completed in stage one totalling about 500m2 of roofing.

The second stage was the upgrading of four Queen Suite units with an additional 1100m2 Eurotray roll seam profile.

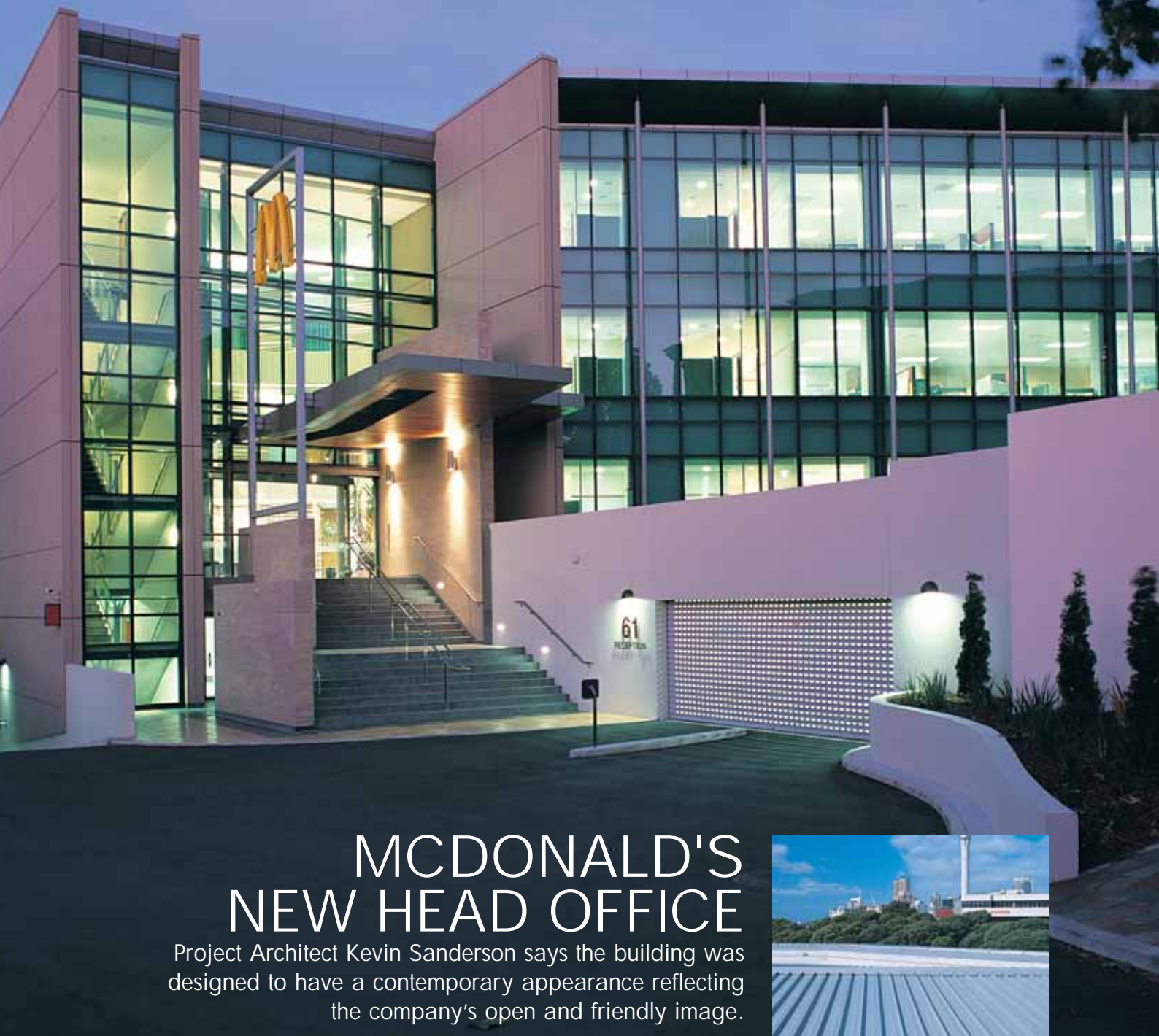
Calder Stewart craftsmen installers from as far away as Invercargill travelled to Huka Lodge, on the banks of the Waikato River, Taupo, to ensure that the project progressed on schedule.

Client: Alex van Heeren
Huka Lodge, P.O. Box 95, Taupo, New Zealand.

Architect: Fred van Brandenburg
Queenstown
Telephone: (03) 442 0527

Roofing: Calder Stewart Industries Limited
332 Union Street, Milton, NZ
Telephone: 03 417 7245
Website: www.calstewart.co.nz

Thanks to Co Engles, from Huka Lodge for supplying photos of this exclusive destination.



MCDONALD'S NEW HEAD OFFICE

Project Architect Kevin Sanderson says the building was designed to have a contemporary appearance reflecting the company's open and friendly image.

ASC project architect Kevin Sanderson says, "The new Head Office for McDonald's is the result of several years planning, making use of a narrow site alongside the motorway. This resulted in a contemporary design and a floor plate that allows good light penetration and views to the north and south benefiting the open plan layout."

Auckland staff were asked to contribute their ideas to help create the best work environment which supports the McDonald's philosophy that happy staff are productive and efficient.

Whilst the roof is not visible it is extremely important. Dimondek 400 was selected by ASC Architects. The roof has a complex design with numerous penetrations breaking through the roof panels. The profile features wide pans with narrow ribs which makes it easy to install and ensures a water tight result.

Dimondek 400 fixes onto concealed clips and has no external fixtures which adds to its appearance, weather proof qualities and provides a trafficable surface.

Clarke Roofing installed Dimondek 400 to the McDonald's roof to meet the tight installation specifications required by ASC Architects.



Client: McDonald's Restaurants Auckland.

*Architect: ASC Architects
Project Architect: Kevin Sanderson
Telephone: 09 377 5332
e-mail: ascarchitects.co.nz*

*Roofing Manufacturer: Dimond
0800 346 663
0800 DIMOND
Profile: Dimondek 400*

Roofing Contractor: Clarke Roofing

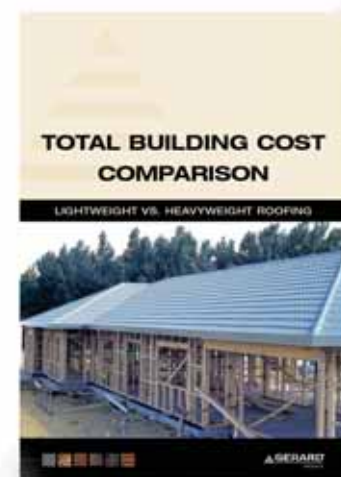
SCOPE NEWS AND VIEWS



Harvey Roofing Centre makes a move in Hamilton

In December of 2002, the Harvey Roofing Centre Hamilton relocated its operation from the Carters building in Te Rapa to 7 Norton Rd, Hamilton. "The move has enabled us to establish a higher profile than at our previous location as the new Branch is located on one of the busiest roads in the Waikato," says Branch Manager Saint Whatuira. The relocation also coincided with AHI Roofing's adoption of the Gerard Brand. Feel free to call in and catch up with either Saint Whatuira or Chuck Wingfield, our Harvey Roofing Centre Sales Representative, at the Hamilton Branch.

From Left: Chuck Wingfield (HRC Sales Representative), Saint Whatuira (HRC Branch Manager) and Craig Lowry (Gerard Roofs Regional Manager - Central North Island)



Christchurch takes a fresh look at pumping stations

Architect's comments:
The pumping station is one part of the new Picton Ave Reserve development.

Typically pumping stations draw water from aquifers deep below the ground and this requires a large, vacant fenced off lot with a number of wells and a pump station.

The concept here was to integrate the Utility with the reserve proposed next door, in a joint venture between the Parks and Water Units of the City Council. This generated a greater footprint for the recreational facility, and allowed greater distance between well heads (and aquifers below), a win-win situation. Externally, the building purposely has an organic feel to it, as if an oversized creek dweller has crawled up the bank at the rear of the site. The four tiered roofs gives direction with a front and rear end of the building, and articulates the flow of water from the roof, cascading from level to level before being discharged back to the creek through crevices in the Hapuku river boulders. The use of Calder Stewart ColorCote® ZR8 Eurotray

Gerard Roofs cost comparison

Gerard have published the cost comparisons (shown on pages 17-18) together with additional information. For copies of this document please contact: Gerard Roofs, telephone 0800 104 868.



is highlighted by the stainless steel 1/2 round spouting. The roof cladding compliments the scale of the facade's features, and provides a seamless connection to the complex curved flashings between layers. This 130m2 roof posed some challenges and Calder Stewart have delivered an exceptional roof cladding.

Praise must also be given to the clients of this project, for seizing the opportunity to create an integrated public play and utility space, and thereby making a positive contribution to the urban fabric of Riccarton.

Client: Christchurch City Council, Parks & Waterways and City Water & Waste Units.

Client: Christchurch City Council, Parks & Waterways and City Water & Waste Units.

*Architect: Crispin Schurr, City Solutions,
Telephone: 03 941 8350
Landscape Architects, Structural Engineers, Mechanical and Electrical Engineers, Civil / Road Engineering: City Solutions*

*Main Contractor - City Care Ltd,
Telephone: 03 337 1321*

*Calder Stewart Roofing
120 Bond Street, Invercargill
Freephone: 0800 115 232
web: www.roofer.co.nz*

*Steel Work: John Jones Steel,
Telephone: 03 366 8679*

*Main building subcontractor, Carpentry, CI Concrete: Hoogervorst Builders Ltd.
Mobile: 027 434 0624*

SCOPE NEWS AND VIEWS

Construction Contracts Act

Cashflow problems have been a serious issue for the construction industry over many years and this has been evidenced by the number of company failures that have occurred. This has highlighted some shortcomings in the processes used to make claims and payments right through the contract chain. Some common reasons for this were:

- ❑ disputes over payment or the work itself which were often not resolved.
- ❑ it was difficult to establish what should be paid and when.
- ❑ there was no easily workable system to collect overdue payments.

❑ pay when / if paid clauses were invariably included in all subcontract agreements.

On 1 April 2003 the Construction Contracts Act came into force with the purpose of reforming the law relating to construction contracts and in particular:

- ❑ to facilitate regular and timely payments between the parties to a construction contract.
- ❑ to provide for speedy resolution of disputes arising under a construction contract.
- ❑ to provide remedies for the recovery of payment under a construction contract.

The Act applies to both Commercial and Residential contracts with some exceptions in the case of residential contracts and with some special

provisions where one of the parties is a residential occupier. The Act also applies to supply only of some materials that have been purpose manufactured for a specific project (windows, cut to length roofing etc).

One of the more welcome provisions in the Act is that the pay when / if clause previously used can no longer be enforced in a contract even if it has been included in the contract.

While the Act sets out the legal obligations that are to be met Contractors and Subcontractors need to play their part and in particular improve their processes for making payment claims and be prepared to use the adjudication process to bring claims to a conclusion in a timely fashion. With the right attitude and the support of the Act the poor payment procedures of the past should reduce and hopefully be eliminated.

Contractors and subcontractors need to prepare their claims in a consistent way. Standard forms have been prepared by The New

Zealand Building Subcontractors Federation inc. and The New Zealand Contractors Federation and should be used to ensure consistency in the preparation of claims. These forms cover:

- ❑ payment claims.
- ❑ payment schedules.
- ❑ variation submittal.

The framework is in place to overcome the issues of the past but it still requires a good standard of administration and a will for the process to work and succeed.

A 200 page book "Managing Your Cashflow - A guide to CCA" includes a copy of the Act, background information, step by step advice and significant general commentary has been prepared and is available from Rawlinsons the publishers. The author of the book is Peter Degerholm chief executive of The New Zealand Building Subcontractors Federation Inc. and one of the prime movers behind the Act.

Who judges great design? you do!

Vote in the 2003 Gerard Roofs Home Design Awards

supreme winner 2001 supreme winner 2002 supreme winner 2003

Good design is universal. Its mix of form and function transcends international boundaries and can be appreciated around the world. The Gerard Roofs Home Design Awards recognise this and the talents of top home designers. Fifteen highly commended award winners have been chosen in a range of categories. You can take part as a member of the judging panel over the internet to help select the supreme winner.

The Gerard Roofs Home Design Awards. Architects, designers, builders and other Trends readers are invited to vote on the The Gerard Roofs Home Design Awards. Visit our website, Trendsideas.com/gerardawards, to see a range of homes featuring Gerard Roofs' advanced roofing products: Gerard Ecolite, Gerard CosmoRoof, Gerard Summit or Gerard Obsidian. Cast your vote by 30 June 2003 and be in the draw to win a \$10,000 Trends website to promote your business (architects and other professionals) or one of six subscriptions to Trends (homeowners). The owner of the winning home in the Gerard Roofs Home Design Awards will win a trip for two to Fiji; the builder will win a trip to Australia's Gold Coast and the designer will win a trip to the 2004 International Builders' Show in the USA.

Vote and be in to WIN a \$10,000 website* or a trends subscription.

www.Trendsideas.com/gerardawards

GERARD ROOFS
TRENDS

Your vote counts.

Who better to judge great design. You are invited to take part as a member of the Gerard Roofing Home Design Awards judging panel to select the Supreme winner from the fifteen categories. Voting is very simple and can be

done in minutes on the internet. Visit www.Trendsideas.com/gerardawards If you are an Architect, or other professional, cast your vote by 30 June 2003 and you could win a \$10,000 Trends website to help promote your business.



KEEPING THE BALL IN THE COURT

Every project has budget limitations and a vital skill in architectural design is to be able to perform within these limits. With careful and creative use of materials

Wayne Houston has provided an aesthetic and functional solution for the Auckland Seventh Day Adventist High School, Mangere.

Prior to the involvement of Houston Architects Ltd, the school had plans drawn for a much bigger hall which had exceeded their budget. Wayne Houston's brief was to provide a hall in a more appealing location that would benefit the appearance of the school and be cost effective.

Of the result, Principal Jack Ryan says, "He (Wayne Houston) has listened to all stakeholders and his design and communication is excellent. He has considered well the nature of our school and the needs of our programme in relation to the function and form of the new facility."



The design took advantage of the sloping land to allow for two levels. The ground floor of the gymnasium on the lower level has direct access to the playing fields. A second level flows from the upper level of the sloping bank which is on the same level of the existing school classrooms. This provided a mezzanine lounge area with viewing windows down into the gymnasium and additional classrooms above the toilet change area.

The curved roof adds architectural impact to the existing school which was built in the 1960's. A draped roof was designed working closely with Dimond who advised on technical issues of expansion joints



to the roof which were required where the longrun iron was restricted in its length. The Dimond V-Rib, Zinalume® roofing in its natural colour was draped over the top of an insulation blanket to deaden rain noise and provide insulation. This has proven to be very effective. The portal frames were curved and exposed underneath the ceiling which has a strong impact on the expression of the inside of the hall. A pvc tongue and groove perforated ceiling tile was chosen for its hard wear and no paint finish. The perforations and insulation blanket above also provide good acoustic absorption.

The sprung floor, placed over a concrete slab, is surfaced with parquet flooring which provides a practical yet beautiful timber finish to the internal colouring of the room.

Some of the exterior walls of the hall were clad in corrugated Zinalume® material set with the corrugations running 15 degrees from the vertical. This gives a dynamic appearance to the walls of the building and contrasts well with the titan boards used in other parts of the building.

Architect: Wayne Houston
Houston Architects Ltd,
Auckland
Telephone: 09 30 333 60
e-mail houston.arch@xtra.co.nz
www.architects.org.nz

Roofing supplier: Dimond
Telephone: 0800 346 663

Contractor: Alliance Construction,
Auckland
Telephone: 09 415 3040

Styles Project Management
Telephone: 09 846 7302
Mobile: 021 993 140



Wayne Houston's endeavour, "To work in with the client's aspirations in such a way that the architecture is an outstanding fulfilment producing lasting enjoyment and satisfaction for both client and architect."



LIGHT WEIGHT EQUALS SAVINGS

Specifying a lightweight roof can have a direct impact on the type of design and overall cost of your house.

A heavyweight roof, such as a concrete tile roof, is up to ten times heavier than a lightweight steel roof. This can result in additional structural requirements in areas such as trusses, rafters, lintels, bracings and labour, resulting in additional costs.

All metal roofs are classified as lightweight roofing as per the New Zealand Building Standard NZS 3604 - 1999 Timber Framed Buildings. This means that the structural framing requirements for lightweight roofs are less than for a heavyweight roof and can result in significant cost savings. Considerable research has been done, by independent consultants, to evaluate structural cost savings from using a lightweight roof. Structural savings on the same example house designs are shown. The amount that you will save can range from hundreds to thousands and depends upon a range of factors including the nature of your design and the condition of your site.

A simple, small, single storey home on a flat firm site provides some savings however, these savings become significantly greater if the building is multi-storey, has a complex roof, is on a sloping site or on soft soil.

LOOKING GOOD

A new showroom for Continental Car Services which reflects a strong presence for the prestigious European Porsche

Porsche have a very stringent international design standard for their showrooms says Gregg Somerville, marketing manager for Dimond.

"They require a symmetrical profile in a matt black finish. To meet this Dimond V-Rib in a special low gloss Black was used. Attention to flashing details and their installation by G T Fyfe all helped to achieve the desired effect. The inherent strength of the Dimond V-Rib profile and the corrosion resistant finish of the ColorCote® ZR8™ paint system will ensure the building retains its good looks for years to come."

The long roof over the workshop is made of Dimondek 300. The showroom roof features Dimond Styleline.

*Client: Continental Car Services
Telephone: 09 526 6940
website: www.ccs.co.nz*

*Architect: Deighton Gibbs
Telephone: 09373 4900
e-mail: malcolm@dga.co.nz*

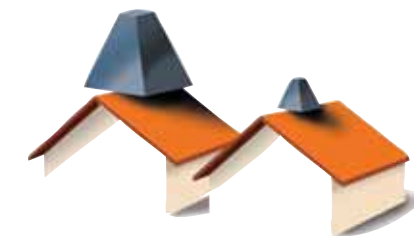
*Roofing Manufacturer: Dimond
0800 346 663
0800 DIMOND
Profiles: Dimond V-Rib,
Dimondek 300,*

*Roofing and Cladding installer:
G T Fyfe
Telephone: 09 446 2004*

DESIGN FLEXIBILITY

Lightweight roofing materials add a degree of versatility and flexibility to your designs that is unrivalled by heavyweight roofs. Because metal roofs are both lightweight and strong it is possible to incorporate steep pitches, exposed beams and integrated glass features, without incurring the additional and unnecessary structural costs associated with incorporating these features into heavyweight roofs.

When comparing roof supply options it is important to compare total building cost differences to ensure that you are comparing apples with apples. To assist with this comparison refer to the table to help you calculate the actual total cost differences between different roofing alternatives.



Not only will cost be a factor in the choice of your roof but you will also need to weigh up those benefits and factors that are more subjective and are less easy to quantify. At the top of this list will be the roof style, but it will also include such things as durability, performance in extreme conditions, quality of installation, maintenance requirements, warranties and back up support.

Considering that the roof is such a defining feature of a home both in terms of looks and protection, it is surprising to find that the roof is often only some 5% of the total cost of a home. A few extra dollars to get the best roof will ensure years of satisfaction and protection, and will provide you with better resale value. Generally all roof prices include installation, roofing materials, battens, building paper underlay and flashings unless otherwise stated. When getting prices from the frame and truss manufacturer be sure to check they have given you a frame and truss price for a lightweight roof and have not by default given you a frame and truss price for a heavyweight roof.

A concrete or clay tile roof can be up to 10 times heavier than the equivalent metal roof.

STRUCTURAL COST COMPARISON

Analysis of structural cost comparisons on example house designs.
Source WT Partnership Consulting Quantity Surveyors October 2002. All examples are timber ground floor construction. All prices exclude GST

| Lightweight versus Heavyweight roofing | | | | | | |
|--|--|-----------------------------|---|-----------------------------|--|-----------------------------|
| House design Storeys Roof complexity Roof area (m ²) Building site Soil | Example 1 One Simple gable 138 m ² Flat Firm | | Example 2 One Semi-complex hips, valleys 384m ² Flat Firm | | Example 3 Two Complex hips valleys poptop 220m ² Flat Firm | |
| Roof type | Heavyweight eg. Concrete Tiles | Lightweight Tile Roof | Heavyweight eg. Concrete Tiles | Lightweight Tile Roof | Heavyweight eg. Concrete Tiles | Lightweight Tile Roof |
| Components Rafters/Trusses Bracing & Binders Gib Ultralite Purlins 75x50 @ 900 centers Purlins fitting cost Prenail Framing Additional Lintel sizes, Roof bracing & steel beam lintel (wide door/window /garage door openings) | \$3,325 \$ 400 \$ 25 | \$3,300 \$ 400 | \$4,920 \$ 400 \$ 338 | \$4,920 \$ 400 | \$4,988 \$ 90 | \$4,189 |
| Additional bracing for suspended floor | \$ 80 | | \$ 191 | | Required bracing timber ground floor not allowed for. | |
| Total | \$3,831 | \$3,700 | \$5,849 | \$5,320 | \$5,078 | \$4,189 |
| Structural cost savings per m2 of roof area | | \$ 0.95 | | \$ 1.38 | | \$ 4.04 |
| Structural cost savings with Lightweight roof | | \$ 131 | | \$ 529 | | \$ 889 |

For further information on Metal Roofing or Cladding or details of any of the articles which appear in this publication please contact any of the members listed below.

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PO Box 1400
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Otahuhu
Auckland
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Contact: Warren Oliver*

*Glenwood Industries (1992) Ltd
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Ashburton
Telephone: 03 307 0593
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Napier
Telephone: 06 843 6159
Contact: Chris Patheyjohns*

*Marshall Industries Ltd
PO Box 846
Invercargill
Telephone: 03 218 2579
Contact: Peter Marshall*

*N S Irwin Ltd
PO Box 27029
Mt Roskill
Auckland
Telephone: 09 620 8149
Contact: Gary Irwin*

*Roof Manufacturers Limited
PO Box 319
Tauranga
Telephone: 07 578 2650
Contact: Gordon Taylor*

*Roofing Industries Ltd
233 Bush Road
Albany
Auckland
Telephone: 09 414 4585
Contact: Dave Gellatly*

*Roofline Marlborough
31 Stuart Street
Blenheim
Telephone: 03 578 8793
Contact: Phil Hogg*

*Silbery Long Run Ltd
69 Montgomery Crescent
Upper Hutt
Telephone: 04 526 9343
Contact: Angie Silbery-Dee*

*Stratco (Oakleys) Ltd
PO Box 8494
Christchurch
Telephone: 03 338 9063
Contact: Jarrod Stratton*

*Taranaki Steelformers Ltd
Wanganui Steelformers
King Country Longrun
PO Box 36
Stratford
Telephone: 06 765 5191
Contact: Darrell Back*

*Tri Web Industries Ltd
PO Box 408
Feilding
Telephone: 06 323 6037
Contact: Des Signal*

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