

ISSUE 4

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NZ Metal Roofing Manufacturers Inc.

# SCOPE







## PRESIDENT'S FOREWORD

Welcome to our fourth issue of SCOPE.

The NZ Metal Roofing Manufacturers Inc. is pleased to be able to advise that the CODE OF PRACTICE for metal roofing and cladding has been completed and is in the process of publication and printing.

The COP has been produced to demonstrate best practice for the installation of metal roofing and wall cladding as produced in New Zealand for New Zealand conditions. It is an invaluable tool for designers, installers, training institutions and practitioners in general.

The preparation of the COP commenced in 1999 and in the course of its preparation there was the widest possible consultation with all sectors of the industry directly and indirectly associated with the installation of metal roofing and cladding.

It is without doubt a publication that reflects the combined expertise, experience and skills of the industry and as you will see demonstrates the value of drawing from such a wide range of sources.

The NZMRM Inc. is particularly indebted to Stuart Thomson the NZMRM Inc. consultant on this project and to members of the Roofing Association of New Zealand who have had a heavy involvement throughout the preparation of the COP.

The Code of Practice will be available from mid October and an order form is included with this issue of Scope.

Darrell Back  
President  
The NZ Metal Roofing  
Manufacturers Inc.

# SCOPE

NZ Metal Roofing Manufacturers Inc. Executive Committee  
2001/2002

**Darrell Back President**  
Darrell Back is the Managing Director of the Steelform Group of Companies.

**Dennis O'Sullivan Vice President**  
Dennis O'Sullivan is Manager of Metalcraft Industries, Hamilton.

**Tony Barbarich immediate past President**  
Tony Barbarich is the Director of Business Development for Metalcraft Industries.

**Brian Cosgrove Executive Member**  
Brian Cosgrove is Director and Roofing Division Manager for Dan Cosgrove Limited, Timaru.

**Gary McNamara Executive Member**

Gary McNamara is the New Zealand Sales and Marketing 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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*Scope is the official publication of The NZ Metal Roofing Manufacturers Inc.*

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## WIND-RAIN HOUSES



A drive in any suburb in any New Zealand city will show a plethora of home design reflecting Australian, Californian and European architecture which often ignores our environment and lifestyle. Nigel Cook combines the kiwi vernacular of corrugated iron with a high-tec, innovative and creative approach to home design and environment. Homes which create their own micro-climate and allow the owners to enjoy an indoor/outdoor lifestyle no matter what the weather may bring.





Top: Main courtyard area of the Kelly house with the kitchen on the left and a flat on the right. The large glass frontage opens to a large natural pool.

Right: Looking across the courtyard of the Kelly house to the kitchen. The cooking hob is useable from both sides.



Top: Looking down the length of the Kelly house from the loft bedroom with the master bedroom and the living room on the right. The Kellys enjoy the heat and did not shade their yard.

Centre: The central courtyard of the Kelly house looks north across a natural pool.



Nigel Cook was brought up amongst people who spent time thinking about "who we are" in these islands in the Southern Pacific - architects, novelists, poets, painters - these collective individuals influenced his thoughts and feelings.

His personal philosophy is not to be distracted by separatist or ethnic issues, which tend to be reflected in much of our art, but rather to ignore these issues believing that we are all new comers to these Islands.

The result is the development of a unique and innovative way to create a dwelling. One that derives from an interaction between the environment of our small, safe land and the wider world beyond.

Nigel Cook calls his houses, "wind-rain" houses because they are designed to handle our unique New Zealand environment. "We have a life-style that is much the same as Australians and Californians but our climatic differences prevent us from using and enjoying the outdoor lifestyle as they do. They enjoy a steady blue sky climate while ours, although just as warm, is fretted with wind and rain. It has been said that there can be three or four different climates in a single day in this country and that is true of the most populous areas."

So Nigel Cook designs houses that allow us to feel as though we are outside, when we want to be, while protecting us from that wind and rain. This means creating a courtyard that is sheltered by a glass roof under which the homeowner can garden and entertain without the worry of the wind or that irritating sudden shower that so often accompanies outdoor living in New Zealand. He does this by using all the advantages of late 20th century technology as well as incorporating traditional techniques where applicable.

The climate inside the central courtyard is controlled by computer. Sensors outside monitor the weather and provide information about rain, wind and sunlight to the computer. Inside there are also temperature and humidity gauges attached to the computer which automatically open and close roof vents which control the warmth and humidity in the house.

Supplementary heating is small and not used a great deal. Some houses in the south have wood burning stoves in the courtyard but most have only an open fire in the living room. In the summer the courtyards are shaded (and heat reflected) by sophisticated, silvered, Swedish shade cloths on mechanically operated horizontal blinds.



The courtyard of the Skinner house with the kitchen on the right and behind that a raised hobby area which in school holidays becomes a dormitory for grandchildren.





*Above: View down the courtyard of the Wilson house with the gallery and sleeping wing on the right. The living, kitchen and dining room is out of sight on the left. This house is in the suburbs on a small section and is surrounded by an amphitheatre of houses looking down on it so privacy was very important.*

*Centre: The small portals which support the roof of the Wilson house. The silvered Swedish shade cloth can be seen partially drawn to shade the afternoon sun.*

*Right: Looking across the dining area to the courtyard of the Wilson house with the kitchen on the left. The stairs go up to a gallery on the upper level from which three bedrooms and an office are reached. There are two bedrooms and a bathroom on the lower floor of that wing*



*Right: The glass of the roof is simply lapping onto the steel roof. Beyond is Shipwreck Bay.*



Environmental design emphasises the importance of placing the house so that it makes the most of the sun. But to a New Zealander the view is almost as important. We pay considerably more for a house with a view than for the same house without one. The glazed courtyard enables the houses to be sited so that both can be maximised (view and sun) because there is always a heat gathering north wall inside the courtyard even though the house is facing a southern view.

Nigel Cook usually clads the houses with corrugated metal which has been used, in New Zealand, for over a century. It is a product of modern technology that has been so widely used, for so long, that it is now a traditional vernacular. The recent refinements (use of Zinalume®) make corrugated iron a high quality and durable cladding. All the possible problems have been worked through providing a very stylish look to a house while remaining inexpensive.

The structure of the courtyard is steel which gives a feeling of lightness with the glass roofs being made as high as budget allows to lessen the sense of enclosure and having a roof overhead.

The living and utility areas of these homes radiate from the central courtyard which becomes the hub of family activities and living. Many of the features such as exposed framing and structural supports all add to the ambience and character of these homes which are designed with the accent on living and lifestyle. People and family. They are not pretentious or ostentatious but utilise all the resources that can be mustered to make them both environmentally functional and a very comfortable place to be. In a word "home".

*Top: The family wanted something in the house to reflect their passion for surfing hence the curved sweep of the bottom of the steel cladding.*

*Centre: View of the Locke house at Ahipara from the road. On the right is the master bedroom and ensuite and the kitchen and (never used) winter dining room. On the left is the workshop and above the study between is the glass courtyard enclosure.*

*Centre: The courtyard of the Locke house. On the right is the living room. It is in a big insulated tent enclosed by trellis and vines. The yard is on two levels. On the left is the wall of the master bedroom. The unlined interior walls reveal the framework as an effective feature.*

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# MAKING A DIFFERENCE TO THE COMMUNITY



Neil Summers



Jeff Armstrong

Armstrong Summers Architects Ltd brings together many years experience and skill gleaned from the private and local government sectors. The collective talents of Jeff Armstrong and Neil Summers provides clients with a complementary but diverse design resource. Their experience and common philosophical outlook allows the firm to enjoy and pursue their passion, architecture which is community oriented.

Armstrong Summers have assisted various churches, schools, and government agencies to achieve their accommodation and operational goals. Involvement in the recent Housing NZ Healthy Housing programme, ( over 50 state sector houses added to and upgraded ) was an invaluable and sometimes humbling experience.

Armstrong Summers are currently involved in a number of other projects which includes the "441Q" retail and office development on the corner of Queen Street and K Road in Auckland. This project is unusual in that it includes a two level underground car park which extends across the neighbouring boundary of the historic Auckland Baptist Tabernacle. In keeping with the brief and the requirements of the K Road precinct plan, the building rises only 3 floors above street level to keep the scale in sympathy with the Tabernacle. The company has also been engaged to design a new atrium foyer for the Tabernacle spanning between the Church and the new 441Q building. The atrium will provide much needed foyer, office and hospitality space for the church.

The educational facilities shown here illustrate Armstrong Summers' commitment to understanding and interpreting the often complex and sometimes contradictory aspirations and needs of school communities and boards. To work within these parameters and find solutions for new commissions to



economically resolve the formal and functional problems of integrating new fabric into old.

## REMUERA INTERMEDIATE SCHOOL

The commission for Remuera Intermediate School was won in a limited competition. The board wanted a complete new image for the entry area which separated pupil movement and visitor access to reception; a new staffroom and office suite; and new library. The trick was to integrate the new facilities in terms of function and appearance with the existing weatherboard and brick fabric without compromising the desire for an image of the times. The key generative idea was to essentially define the entrance as a transitional outdoor room, a sizeable courtyard bounded by the suntrap library, the new staff/entry area and a series of brick "stelae" and walls.

The new staff block, in contrasting colour, sits at right angles to the existing main blocks and the staffroom on the upper level addresses the playing fields and the northern sun.



The roofs are aligned with the existing roof line but pitched in reverse, effectively hiding the roof surface but giving a light and airy appearance and making a welcoming gesture to the visitor. They are primarily steel framed and clad in longrun Zinalume® in Dimond BB900 profile falling to internal liquid applied membrane gutters. The choice of roofing and

the skill of the roofers were important to the success of this low-pitched roof with its internal gutters and downpipes. Both the materials and the workmanship of main contractors M.F. Astley Construction Ltd and their sub contractors have resulted in a sterling job with no leaks reported to date!



Top left: The stairs leading to the staff room and deck.

Above: A flying roof shelters the staffroom deck and addresses the playing fields.

Left: The old brick dental clinic is incorporated as part of the new reception area.

Client:  
Remuera Intermediate School  
Architect: Armstrong Summers Architects  
Main Contractor: M.F. Astley  
Structural Engineer: Chambers Consultants  
Mechanical Engineer: Brian Smith  
Electrical Engineer: Peter Kofoed  
Project Managers: Hughes Hill & Co.

continued over



*Zincalume® Corrugate  
contrasting with cedar at  
entrance.*



## TE AKORANGA PLAYCENTRE, SWANSON

The Te Akoranga playcentre at Swanson replaces the earlier facility which had been found to contain asbestos. The building is expressed as a simple domestically scaled pavilion presenting an open, transparent and welcoming face to the community. Glazed sectional garage doors open to the north and provide a seamless transition between indoors and out. The light filled open plan interior is divided into play and activity zones by means of level change and differentiation in floor and ceiling treatment.

0.55 BMT Zincalume® Dimond Styleline was specified for the roofing and cladding is Zincalume® Corrugate. The silver spangle effect of the Zincalume® contrasts effectively with the warmth of stained cedar and ply panelling and the primary coloured suspended boxes which form the wide window box seat and the office. Zincalume® end caps on the cantilevered exposed rafters protect the end grain and articulate the roof line.



*Innovative use of glazed garage doors opens the interior to a sunny outdoor activity area.*

*Client: Swanson Playcentre Association  
Architect: Armstrong Summers Architects Ltd  
Main Contractor: Backhouse Smith Builders  
Structural Engineer: Chambers Consultants*



## SWANSON PRIMARY SCHOOL

Swanson Primary school is located on the long strip development on Swanson road and was characterised by typical 1950's school design - long grey weatherboard blocks turning their backs on the road. Pride of place on the street and close to the hard-to-find entrance was a large boiler house! The school lacked identity and signature. The brief was to address this by stitching a new entrance and staff area into and around the existing staff toilets, brick office block, main switchboard etc.

The resulting new glazed entry foyer provides a light and bright node around which all the administrative functions revolve. The architectural composition comprises a number of discrete elements expressed to present a colourful, fun and funky image in direct contrast to the adjacent buildings.

The sides and ceiling of the upper roof and the round cylinder enclosing the existing main



switchboard are clad in "baby" corrugated Zincalume® which accords with the small scale of the building. This product met with such enthusiasm that new custom-made office furniture commissioned by the school included sides and various panels in the same material! The "baby Corrugate" profile was manufactured in 2.4m long sheets. End joints were carefully arranged to coincide with glazing mullions

and incorporated a small negatively detailed aluminium channel to finish to.

Although the new entrance took some getting used to by Swanson locals, everyone agrees that at least drivers on the Swanson strip cannot now miss the school!



*Baby Zincalume® Corrugate on the curve provides extra sparkle to the new entrance to Swanson School.*

*Client: Swanson Primary School  
Architect: Armstrong Summers Architects Ltd.  
Jeff Armstrong: Neil Summers  
Tel: (09) 379 3171  
Fax: (09) 379 3191  
Main Contractor: Alliance Construction  
Structural Engineer: Harris Foster Associates  
Quantity Surveyor: Page Kirkland Ltd*



# URBAN STYLE IN STEEL

Architect: Jonathan Hawksworth

How do you squeeze a contemporary three-bedroom family home, complete with an art studio, onto a 268sqm site with a 10 metre height restriction? The solution to this challenging brief is a 211sqm, three-storey home, its height accentuated by vertical Colorsteel long-run cladding, with each level given over to specific living functions.

Bifold doors open to a generous patio, enhancing the sense of spaciousness.

The open plan living areas occupy the whole of level one, creating a pleasant and sociable environment, with wide bifold doors opening to a large north-facing deck. The texture and proportions of Eucalyptus Saligna flow from the decking to the living room floor to give the outdoor living areas the impression of being an uninterrupted continuation of the internal living spaces.

The top floor contains the bedrooms and two bathrooms. A small deck extends from the master suite to float among the branches of the tall trees on the eastern side



An enclosed stairwell clad in vertical colorsteel corrugate and lit by minimal slit windows provides the cornerstone for the home's clean lines. This form is balanced by a glazed void ascending alongside the stairs from the entry to the top floor, allowing natural light to flood the living spaces beyond.

Each of the three levels is dedicated to separate living functions.

On the ground floor are the entry, garage and studio, along with a combined laundry and ensuite.

of the house. The balustrades to the decks are a combination of open stainless steel and solid horizontal Zinalume® corrugated where privacy is needed.

The exterior cladding is a combination of fibre-cement sheet with expressed joints, and a solid plaster garage which visually 'anchors' the building to the site. The sectional garage door is formed with flush Zinalume® panels, which continues the raw material theme.

The main exterior feature is the corner stairwell which is clad in "Iron Sand" Colorsteel Corrugate to accentuate the strong vertical form of the building. The use of lightweight cladding and roofing permitted the openness of the plan particularly in the midlevel, which has virtually no internal walls for bracing.

This is a house designed to identify with its energetic urban location. Its light, airy living spaces meet the demands of a busy modern lifestyle, while still providing for moments of peace and retreat.

This home is the residence of Jonathan Hawksworth of Davis Hawksworth Architects who are based in Mt Eden, Auckland and provide design expertise to both commercial and residential clients. Their skills have been valued, particularly in the development of small Auckland sites, which are becoming increasingly the norm. These sites need an alternative design approach to create unique yet satisfying solutions to otherwise restricting situations.

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**Builders:** Murray Long Builders  
Telephone: 021 874 709

**Sculpture:** Sarah Brill  
Telephone: 027 223 0810

**Photographer:** Brent Parsons of Chrome Media  
Telephone: 021 389 152



# TE WHETU TAWERA

"The Evening Star"



*The Auckland City Mental Unit's complex roof design includes 56 different roof areas of varying pitches, curves and angles, showcasing a perfect combination of innovative design and purpose-built functionality.*



The new Auckland City Mental Health Unit aptly named Te Whetu Tawera, was an ambitious project that looked to showcase innovative design as well as providing an environment of safety, security and comfort. The stunning outcome achieved and exceeded the expectations of all involved.



Meritec, the architects responsible for the project, had to contend with a sloping site that had a number of space restrictions including the existing roading network, buildings and site services. In addition, they were given detailed guidelines by the Auckland District Health Board to ensure the creation of a non-institutional but secure facility. From all accounts, Meritec achieved this and more with a visually spectacular design complemented by functionality and durability.

One of the unique features of the Auckland City Mental Health Unit can only be seen effectively from a birds eye view. That is the intricate roof design employed with 56 different roof areas covering the multitude of wings and connecting corridors. Each roof area comprises varying pitches, curves and angles and the joining of these separate areas required significant planning and cooperation. Wally Fitness of Meritec explains that "the bedrooms were required to be

grouped into three wings per ward for each of the three wards, hence the rather unusual and complicated roof."

At the forefront of this planning was the need to choose an extremely flexible roofing material that could sufficiently handle all the intricacies. Dimond's long run profile, Corrugate, was selected to meet these requirements. The most traditional of steel roofing profiles, Corrugate can be draped, curved or pre-curved and is relatively easy to cut making it the best option for this project. For the Mental Health Unit, the Dimond Corrugate was pre-curved and the curved flashings were custom made off site ensuring a perfect fit and improved speed of construction. This proved particularly valuable given the flashing work required due to the amount of natural lighting and raised windows in the building.

Another feature of the design is an exceptionally high percentage of external walls to floor area. This wall area combined with raised sections of roof, selected glass roofing and skylights gives a light, airy feeling not normally associated with such a building. In fact the "62 bedrooms each required an exterior window for natural lighting and ventilation" says Mr Fitness. Even more remarkable is that this was all achieved without compromising the functionality of the building but in fact enhancing it.

This project reflects a time when mindsets regarding mental health units are changing dramatically. Mental health facilities are now being specifically designed with the rehabilitation and care of the patient as the primary concern. By taking a different angle, Meritec has been able to produce a new Auckland City Mental Health Unit that sets the benchmark for others to follow.

*Architect: Meritec  
Roofing Contractor: Clarke Roofing Ltd  
Telephone: 09 379 1200*

*Roofing Manufacturer: Dimond  
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Profile: Dimond Corrugate  
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# THE 2003 GERARD ROOF HOME DESIGN AWARD GOES SOUTH.

“The response to our awards program continues to grow with over one hundred entries in the 2003 competition”, says Gerard marketing manager Gary McNamara.

“Gerard congratulates the winners and all entries which demonstrate the excellence and high standards of home design with the creative use of their range of metal roofing products”

The Gerard Home Design Award program was established to achieve two primary objectives:

1. As a marketing tool to illustrate that a Gerard Roof choice was appropriate to a very wide range of New Zealand home design from an aesthetic and functional perspective.
2. To give recognition to those architects, designers and home owners who chose to use these products.

The Gerard award recognises that to create an award winning home three dynamics must work together. The home owners vision, the architects translation of that vision and the builders skills in providing the end result. To that end the award rewards all three equally.

The program is divided into several categories giving opportunity to both new home design and renovation in a price range of under \$250,000 and over \$250,000. The only prerequisite is that the home must have used one of the Gerard roofing products shown. The product and colour range is extensive and allows considerable scope for creative flare from traditional tile to shakes and shingles. The translation of client/ design/build is very diverse and the standards very high as can be seen by the variety of finalists homes illustrated. Extracts from the client or architects design brief show the rationale behind the roofing choices for each style of home.

From over one hundred entries 15 finalists were chosen. Shown here is a selection of those which illustrate the diverse styles and creative use of the Gerard range of roofing products.



Gerard Product Range from the top:  
CoronaShake textured and satin  
Gerard Colortile textured and satin  
Gerard Tuffcote textured and satin  
Oberon Shingles textured (Left)  
Senator Shingles textured (Right)



From the top:  
Design: Mason & Wales Architects  
Design: Rodney Wood Design  
Design: Peddle Thorp Architects

## The 2003 winner.

Designed by Mason and Wales Architects for Richard and Suzanne Ewing and built by Mark Duff. The home is located at Wanaka. Suzanne Ewing provided the architect with a comprehensive brief which clearly indicated the style and function of the home she and Richard wanted. A two storey home which would blend into the alpine setting and take advantage of the view, provide shelter and maximise the sunshine hours. The original specification was to provide a shingle roof however having researched the available products Suzanne chose to use Gerard CoronaShakes which in her words “looks wonderful”. The exterior also features Rockcote plaster finish with macrocarpa eaves and shutters.

Rodney Wood designed this home to suit both the growing needs of a family and to provide an office for the family business. These were to be autonomous.

The owners wanted a traditional family home which would project a feeling of permanence without being ostentatious. Ease of maintenance was a prerequisite. Satin finish CoronaShake was chosen for the extensive clean lines of the roof which contrasted well with the cream Oamaru Stone. CoronaShake was the favoured roofing choice and its lightweight properties simplified design and construction, saving time and materials thereby reducing the overall cost.

Peddle Thorp Architects designed this “Caribbean” style home for the Turnbull family in Newton. Situated on the water front this home takes full advantage of it's location offering views of the marina and golf course. The building is constructed from concrete blocks for strength and warmth. The form reflects the colonial style of early Caribbean settlements with deep eaves, shutters, verandahs and hipped roof. Oberon shingles were used as they provided lightweight benefits, came with a strong warranty and were able to withstand the coastal conditions





The Wealens home in Matamata was designed by James Carter and built by Grant Laidlaw. The brief required the home have "street appeal", provide an office area with a formal entry and have an indoor out door flow to the paved leisure and spa pool areas. The exterior was Rockcote EPS 40 which contrasts well with the Karaka Gerard CoronaShake roofing.

Page Henderson Architects worked with Paradise Building developments to remodel the Fox home in Tauranga. The project involved a considerable addition to the existing home and one specification of the owners was to entirely replace the clay tile roof. Minor cracks had developed in the building after the Edgcombe earthquake and the owners were suspicious that the weight of the existing clay tiles may have contributed to this. Having spent considerable time investigating roofing products in new subdivisions Ian and Pam Fox agreed on CoronaShake. "We are delighted with the result which has transformed our brick and clay tile home and brought the house into 2003".

The Nola home in Matamata was designed by John Kardas Design and built by Peter Vossen. The brief asked for an "American" style which would suit the farm environment and yet provide a practical family home. The design with a good roof pitch and eaves combined with Gerard CoronaShakes has proved its worth in the harsh weather conditions the house is exposed to. "The roof and building has endured one of the worst storms in sixty years", say Mr Nola. "The family love and enjoy the house".

David Reid Homes designed and built this Wanaka home for Andrew Clark. The brief was to provide an English Tudor theme which would be in harmony with the Otago landscape. Schist stone, which is abundant in the area, was a natural



choice for the exterior cladding. This is complimented by dark stained shiplap timber and Gerard Oberon shingles. The objective was to create an old world charm, but, with the use of technologically superior materials.

*From the top:  
Design: James Carter  
Design: Page Henderson  
Design: John Kardas  
Design: David Reid*

*Details on the entry into the Gerard Home Design Awards program are available by calling 0800 104 868 or by visiting the gerard website. [www.gerardroofs.co.nz](http://www.gerardroofs.co.nz)*

## SCOPE NEWS AND VIEWS

### The New Dimond Colorflo Rainwater Systems

Dimond has recently launched its "Colorflo - Rainwater Systems" range of Fascia & Spouting systems and designs all over the country. In a national launch from Whangarei to Invercargill - which finished last month - Dimond introduced its new range of two internal fascia systems, two external fascia designs and a choice of eight spouting styles. These are offered in Steel, Copper & Aluminium. Special architectural designs are also available to suit special design needs.

The Colorflo range has Box Gutter 110, 125 & 175, Quarter Round, Deep Quarter Round, Luxalon and Straightline which cover both residential and small commercial applications and are designed to cope with New Zealand's environmental conditions. They are available in 20 Standard Habitats Colour Range, 60 Premium and 5 metallic colours.

Colorflo's uniqueness lies in its Soffit Retainer System which allows easy removal and fixing of fascia without disturbing the roof lines and its array of accessories like adjustable gutter brackets, swaged gutter ends and cast metal corners.



### Gerard Roofs \$4,000 Makeover Winner

As a pro-active sales incentive Gerard Roofs invited all homeowners who specified their products to enter their homes into the "Makeover Competition". Monthly winners received a \$250.00 prize, of their choice, to assist in providing something "extra" for their new home. The overall winners were Graeme and Teresa Allen of Morrinsville who won the Gerard Roofs \$4,000 "ultimate" personal or property makeover.



*Pictured at the Award Presentation from left are: Craig Lowry (AHI Regional Manager), Bob de Leeuw (GJ Gardner Hamilton), Teresa Allen, Graeme Allen, Sonya Lee (Lee Roofing) and Gary McNamara (AHI Sales and Marketing Manager).*

Graeme and Teresa's house was built by the GJ Gardener Hamilton Branch and the Gerard Colortile roof was installed by Lee Roofing.

One of the primary reasons Graeme and his wife Teresa specified a Gerard Colortile roof was because of the exceptional warranty support.

Graeme and Teresa are currently in the process of deciding whether to spend their \$4,000 personal or property makeover on landscaping, an interior design project or an overseas holiday.

### New Face at Gerard

After spending a total of nearly 10 years supplying designers, architects, builders and councils with on-line technical design and specification details, Grant Williams joins the team at Gerard Roofs to bring some of the experience he has gained to expand on the services provided by Gerard to their specifiers.

As Gerard Roof's Business Development Manager he will be liaising closely with Group Builders, Architects, Developers and others involved in the design process, assisting them to select the most appropriate roof system for their projects.

The range of products and services available through Gerard Roofs means that there is a Gerard solution available for almost every roofing application. Grant would welcome the opportunity to discuss the various benefits available to each participant involved in the selection, design and implementation of a building project.

His contact details are:-  
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# SCOPE NEWS AND VIEWS

## 44 years and going strong

Just 2 years after they were married Don and Alison Sargent built their home, 44 years ago, in Whangarei. Mullins and Redwoods built the house in 1959 which featured an LJ Fisher Decramastic Roof. The roof was fitted by the, then, well-known builder's supplies company, Hardie Bros. Their letter confirming the warranty conditions for this roof is still in the possession of the Sargents. In 1973 the house was altered and the garage demolished. The tiles from the garage roof, then 14 years old, were salvaged and reused on an extension to the house.



In 1993 the roof required repair for the first time. 7 tiles were replaced with those from the demolished garage and the Decragard Distributor recoated the roof.

In 2003 the roof required minor maintenance and John Duff, the current Decragard Distributor in Whangarei, replaced one tile with a tile from those kept following the 1973 alterations. John Duff also recoated the roof and the roof warranty has now been renewed for a further 10 years.

A testimony to the durability of the product.

*Gerard Distributors testing "new safety gear" whilst visiting the Sky Tower and the Auckland Harbour Bridge.*

## Gerard Distributors flying high

In August 2002 AHJ Roofing completed the merger of its two major roofing product brands, Harvey Roofing Systems and Gerard Roofing Systems. Amalgamated under the Gerard Roofs Brand a full media campaign, including TV advertising was launched. The target of this campaign was and remains the aspirational consumer.

Each year Gerard Roofs holds a conference in support of the certified roofers that supply and install its products. This years conference was held in Auckland and was attended by some 120 delegates. In addition to being a lot of fun the Gerard team reviewed a number of ongoing projects including the Trade Certification of roofers, WINZ training initiatives and the advantages of Lightweight over Heavyweight technology.

*Pictured (in front) is Craig Lowry, the Gerard Regional Sales Manager for the Central North Island, and a number of Gerard Roofers testing "new safety gear" whilst visiting the Sky Tower.*



## New Stingray spouting bracket from Calder Stewart

New to the spouting market is the highly desirable Stingray bracket which is made to complement the Calder Stewart range of half round spouting. The bracket is available in 125mm and 150mm and is made from cast aluminium to suit Zinalume, Stainless and Zinc spoutings. This bracket can be powder coated to suit ZR8 prepainted steel spoutings. Bronze brackets are available to suit copper spoutings.

A new, very competitively priced bracket has also been added to this range. This new #3 bracket brings the pricing of 1/2 round much closer to other profiles.

For more information on Calder Stewart's comprehensive range of spouting visit their website at [www.roofer.co.nz](http://www.roofer.co.nz) or call them on 0800 737 663



# MONTANA COUNTRY

Montana, the country's largest wine company, has not only captured 50% of the New Zealand domestic wine market but also the imagination with the majestic Montana Brancott Winery Visitors Centre near Blenheim.

Gerry Gregg, winery manager says, "the centre provides a great wine experience with VIP tasting in the tower, various other tasting and private function rooms and a 180 seat restaurant. In addition to this there is further seating for 80 visitors to dine in the landscaped gardens."

Gerry Gregg speaks highly of the those involved in the design and construction of the project which he says, "has greatly enhanced the wine-tourist market potential of the Marlborough region."

The design team, headed by Paul Macintosh of Martin Hughes Architecture and Interiors Auckland designed the buildings and provided valued input to the interior and exterior landscaping.

The main contracting team was lead by Peter Owen of Evan Jones. Both design and construction teams have



worked with Montana on projects throughout the region and country.

The focal point of the building centres around the Copper turret which houses the VIP tasting room. This 9 x 6 metre, 7.5 tonne, roof was built on the ground and lifted into position. "We had to step back in time and use some old fashioned skills as each piece is a tray with a flashing over the top of a batten where they join", say Peter Owen.

The effect is stunning and offset by the expansive Zinalume® corrugate iron roofline. The roofing material was supplied by Phil Hogg of Roofline Marlborough and fixed by Evan Jones Construction.

The centre has become an icon in the region and enjoys in excess of 100,000 visitors per year. For those



visiting the region the visit is a worthy experience for both wine enthusiasts and the architectural excellence.

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*Engineer: Gary Chester Ltd  
Auckland  
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*Roofing: Zinalume® Corrugate  
Supplied by: Roofline Marlborough  
Telephone 03 578 8793*





## THE LONGEST LONGRUN ROOF EVER

The brief given to Woodams Meikle Zhan Architects for Progressive Enterprises' extension to their distribution facility in Auckland was tight. They required the 22000m<sup>2</sup> extension to be designed in such a way to allow the existing 24 hour, 7 day facility to remain fully operational. On top of this, the new warehouse had to be designed in such a way that it could be constructed in a time frame many thought would be impossible.

Woodams Meikle Zhan achieved this by thinking outside the square and utilising the latest materials and design options available. Materials choices drove their ability to fulfil the clients brief whilst allowing speed and flexibility of construction.

The lines of the building, whilst similar in basic appearance are actually completely different than the existing building. The existing building is designed with a series of small gables with internal gutters

separating them. The new extension is still a gable design but with a span of a hundred meters compared to a span of twenty five meters for the existing design! This subtle change has significantly changed the functionality of the building with wide clear spaces that allow much greater freedom of internal use as well as higher ceilings that allow better dispersal of natural light and create a much more airy and work productive environment.

Bradley Wynn of Woodams Meikle Zhan explains – "We had to design the building so that it could be constructed in two halves, with the outer half constructed first and handed over before the second half could be constructed. This may sound simple but the half needed to be split down the 200 metre long ridge line. The second half then filled in the gap between the new extension and the existing building".



"Being a 24 by 7 operation they couldn't afford any down time during and after the construction of the new building. Possible leaks were not an option. We had looked at using Dimond Steelspan 900 with a step midway between the gutter and ridge. Dimond suggested that we consider using a new roofing profile – Dimondek 630, which was to be released onto the market shortly. Dimondek 630 enabled us to delete the step joint by manufacturing on-site a single sheet of over 51 meters that could go from the ridge to the gutter and keep the pitch down to 3.5 degrees – a big time saver both in the installation of the steel work and roof. The really big advantage for us though was it has no fixing through the sheet,

minimising chances of leaks – this was a big thing for Progressive Enterprises", said Bradley Wynn.

Mr Wynn summed up by saying "We are extremely pleased with how it worked out - not only did Dimondek 630 meet the tight requirements and cope with a coastal environment, it also helped to complete the building on time".

Progressive Enterprises are also very happy with how the project went, but even more so with the finished product. They have a much lighter airier place that provides a more functional and enjoyable work environment.



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## CROSSING THE TRACK



In 2001 Pukekohe Park Raceway was awarded a contract to hold an Australian V8 Supercar Championship Series race meeting every year until 2005.

As part of upgrades required to the race track to host the event Babbage Consultants Ltd were tasked with the design of a pedestrian bridge to provide safe access over the track for spectators to access the pit-lane.

Design work began mid June 2002 and construction was completed by the beginning of November 2002 in time for the first race on November 8 -10th 2002.

Safety of both the spectators and competitors was prime consideration during the development of the design. The bridge had to be naturally light, ventilated and be fully enclosed to prevent spectators congregating on the bridge and to prevent litter being dropped on to the track below. The bridge also had to withstand a high speed impact from cars and trucks using the track.

The bridge needed to be sized and located so as not to obscure the track from the stewards control tower.

Profiled metal sheet was chosen as the cladding material because it offered an economic lightweight maintenance free solution. Babbage Consultants specifically



chose the BB900 profile inverted because the deep shadow lines accentuated the lines of the bridge.

The colour selected by the client ensured the bridge would blend into the surrounding landscape.

*Client: Pukekohe Park Raceway Ltd  
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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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