ISSUE 2
DECEMBER 2002

SCOPE

NZ Metal Roofing Manufacturers Inc.

PRESIDENT'S FORWARD

Welcome to the second issue of SCOPE, the official publication of the N.Z.Metal Roofing Manufacturers Inc. SCOPE magazine is an industry publication that is intended to celebrate the functional and aesthetic use of metal roofing and cladding in a wide range of residential and commercial applications.

Our first issue has been well received and I can happily report that over 1,400 Architects, Designers and Builders have requested that they be included on the SCOPE mailing list. Please remember, I you haven't previously done so, to complete the enclosed reply paid card if you would like to continue to receive a free copy of this magazine.

There is a wide cross section of new and interesting residential and commercial projects featured in this issue. In particular the creative use of metal cladding in the commercial sector is well illustrated by the exceptional work of both Paris Magdalinos on the Napier Girls High School and George Paterson on the Auckland Millennium Sports Centre.

The N.Z.Metal Roofing Manufacturers Inc are proud to be associated with the various projects contained in SCOPE and we look forward to celebrating many more new and exciting projects with you.

Darrell Back
President
N.Z.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 AHI 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 Peter Rasmussen, The NZ Metal Roofing Manufacturers Inc., Executive Officer, any member of the executive or the publisher.

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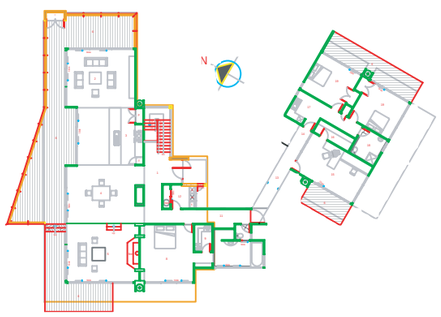
TOUCH THE EARTH LIGHTLY

NEIL KIESER DESIGNER.
AN AWARD WINNING HOME IN HARMONY WITH THE LANDSCAPE

Built in a powerful 70 acre bush landscape on two levels the building has been skillfully integrated to minimise site disturbance. Influenced by Glen Murcutt's "Touch the earth lightly" philosophy the house sits on lightweight steel frames giving a floating sensation.



LEVEL 2

“House at Maungakawa” designed by Neil Keiser was judged winner of the category of single residential dwelling in the 2002 National James Hardie A.D.N.Z awards.

While this is a significant achievement what is impressive is that the house also received the best residential interior award, the best kitchen award, the best bathroom award and the runner up Resene paints colour award in the Waikato/Bay of Plenty A.D.N.Z. awards.

A seven metre high Zincalume® tower anchors one end of the building while at the other a floating kwila deck projects toward heartland Waikato. The site adjoins the Maungakawa Reserve and has panoramic views over the Waikato basin and a close connection with the surrounding bush. The views to the north are bush filled and a breathtaking contrast to the patchwork of lush Waikato farmland in the east. Finished in a natural silver grey Zincalume® and rich redwood, the house displays a simple unassuming site relationship that quickly distinguishes it from the usual urban styrene.

The steel structure allowed for the extensive use of wide span exterior sliding glass walls. In summer these doors stack to allow completely flexible and adjustable outdoor living and level connection to the expansive kwila decking. Such is the openness and height of the interior that wood pigeon and fantail fly through the living space.

Wall height, pitch of roof, angle and distance of overhang have been designed to allow maximum sun in

winter and full internal shade in summer. A dark charcoal tinted concrete floor in the centre of the house absorbs the suns heat during the winters day and dissipates that heat at night. The house also boasts zoned underfloor heating and solar hot water.

This is a strong, raw but elegant building that has pushed the boundaries of the design process. Throughout the process materials have been used in their raw state including steel, concrete, granite, Zincalume®, aluminum, porcelain ceramic and glass. Stick insect like structure sets the rhythm for the house and the strong dynamic contemporary internal space.

Corrugated Zincalume® was chosen as the predominant cladding element because Keiser considers it to be a kiwi icon. It is strong light and durable and can be used in its raw honest state. It provides a strong, horizontal lineality and can take on a green hue of reflected adjacent bush. Fixed horizontally it provides the minimal number of joints and is largely maintenance free.

Designer: Neil Keiser
Telephone: 07 827 3233
P O Box 1014 Cambridge

Roofing and Cladding:
Metalcraft Industries Limited
P O Box 10113 TeRapa
Telephone: 07 849 38 07

Photographer: Kelvin Teixeira
Telephone: 07 856 9864

AN EXPRESSION OF TECHNOLOGY IN THE NEW MILLENNIUM.

George Paterson, of Dodd Paterson+Bukowski Rehm Limited, was instrumental in bringing together the founding members who now form the Millennium Institute of Sport and Health.
The excellent result, which brings many benefits to the community, was a balance between realising the committee's dreams and the fiscal realities of this significant project.

The exterior has been clad in Dimond Brownbuilt 900 made from 0.55 Zincalume®. This material was chosen for its strength and durability. Dimond Corrugated, in HABITATS Dark Grey, has been used to highlight feature walls.

The Millennium Institute of Sport and Health evolved from the bringing together of the various parties that now form the founding clubs that operate the Complex. In his role as Chair of the Rangitoto College Board of Trustees, George Paterson was pivotal in introducing the parties and connecting the need for further athletic development at the Stadium with the school's desire to have access to a significant swimming pool. Over time this group consolidated its brief, identified land opportunity and commenced a process of procurement toward the now complete complex.

A project of this magnitude which arose from a community base took time to circumvent a variety of obstacles. However in the year 2000 a contract was let for the building.

The design of the building, being dependent on substantial donor contributions, had to be fiscally contained, whilst exuding the impression of quality symbolic of the high level performance and achievement at an international level. All the facilities were based on international standards and as far as possible, the latest techniques in regard to environmental control. This is illustrated with the wet and corrosive atmosphere of a large heated pool situated alongside a spartan sports hall facility. The

working committee of the Trust actively participated in the design development process, contributing with decisions that balanced the dreams with the financial reality.

The building design recognises the four principal functions of the operation.

❏ A pool hall for a 50m x 25m pool fully suited for swim meets, water polo to international competition level and other uses,

❏ A sports hall with a 60m indoor track including provision for pole vaulting to international levels,

basketball courts, weight lifting, fitness centre, climbing wall and a sports science and biomechanical assessment area.

❏ An administration area including all amenities for the various sports, sport medicine facilities, restaurant, meeting and conference facilities.

❏ A connection to the Sovereign stadium with some grandstand accommodation and easy access to the facility for all athletes.

As designers, Dodd Paterson + Bukowski Rehm, kept these elements of the building expressed externally and then carefully used simple and appropriate material selections. This gave the building an elegant metallic facade that expressed a level of technology associated with high performance reflecting the sport that would take place within the building. The principle facade material is Zinculume® but with some selected areas in a ColorCote® ZR8 HABITATS Dark Grey. The precision of the metallic detailing is carried into the window fenestration and the insertion of louvers to fulfil the various ventilation needs relative to the space usage.

The image projected by the design, in the architects view, has created a visual impact that belies its cost. The building was designed to be multipurpose however many of its current uses are considerably more sophisticated than what was briefed and budgeted for, but the building is adapting well.

Dodd Paterson + Bukowski Rehm Architects, are delighted with the building outcome and note the benefits it is bringing to the community.

The centre is designed to cater to the widest possible community needs from Olympic athletes to families and recreation.
The complex includes an athletic stadium, olympic pool, saunas, indoor sports hall, gym, sports science laboratory and health centre.
Even toddlers are catered for in the secured playground.

Architects: Dodd Paterson + Bukowski Rehm Limited
Level 4, 81 Grafton Road, Auckland.
Telephone: 09 308 0070
E-mail: dpbr@dpbr.co.nz

Engineering: Dower Engineering Auckland,Telephone: 09 270 6801

Cladding and Roofing supplier: Dimond
0800 346 663
0800 DIMOND
Profile: Dimond BB900 and Dimond Corrugate

Roofing Contractor: GT Fyfe, Auckland.
Telephone: 09 446 2004

Paris Magdalinos received the annual Award for Architecture, from the New Zealand Institute of Architecture as well as a Resene Colour Award, for his work on the Napier Girls High School. His passion has created a superb learning facility.

MAKING THE BUILDING THE CLASSROOM

Napier Girls High School - New technology Block

Perched lightly on the brow of the hill, the new Technology Block at Napier Girls High School is a strong, gutsey building, which required considerable courage for both The School and for the Ministry of Education to agree to implement.

Napier Girls High School is located on Napier's hill and looks over the city to the South and Northward to a tranquil residential valley. The main school campus, dominated by Spencer House occupies the flat land to the south. Spencer house is the school's much loved and historic Administration and

Every detail of the building has been exposed to effectively demonstrate "technology at work" This deliberately creates inspirational patterns of light, shade, shape and form.

classroom block which was the total school at its inception.
Below Spencer house the road divides the campus to the steep northern slopes below where only a handful of prefabs and timber frame classrooms once sat. The only sizeable structure, is the two storey gymnasium located on the only flat land available. Below that again, are the schools playing fields which enjoy a Northerly aspect which is protected from the vicious southerlies.

The design brief provided was for a development of some 3,500m2 of technology labs and classrooms to be located on the northern slopes of the site.

Design Considerations

The sheer size of the development required something more than "just a tower block" which would have dominated the historic campus and its residential neighbourhood. The architects considered several alternatives and in the end decided to "touch the earth gently" and build on top of the steep slope instead of terracing and to follow the contours of the hill and the shape of the road. This option maintains a scale and rhythm at the roadway edge in keeping with the neighbourhood. It also allowed the majestic Spencer Block to continue its hillside dominance.

The design then focused on the details and construction for a building which had to speak to 500 students, all eager to learn technology in one form or another.

Constructing the development above ground, on such a precarious site, suggested the loads be kept to a minimum, and to use a structure of steel, "post and beam" system, bolted to concrete caisons or piles anchored deeply into the hard rock below.

The southern wall of the building is glazed at high levels, letting in cool, natural daylight to flood into the design and technology studios. It also provides upward views across the road to visually connect the main campus.

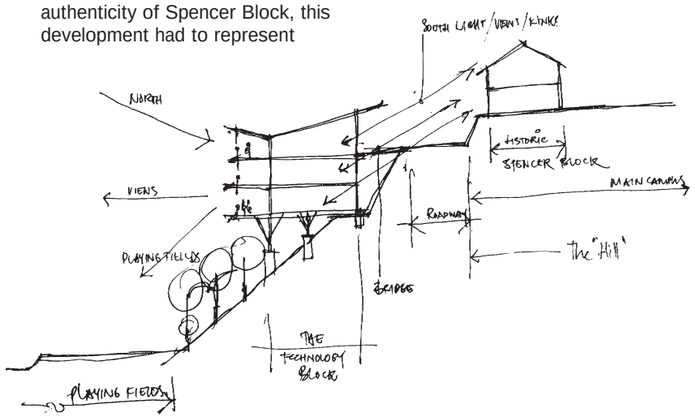
On the northern side, the building opens up to the warm sunlight from above and the playing fields below. Large sections of the walls of the laboratories and studios, open up to deep terraces or balconies which cantilevers some four meters beyond the classrooms and provide not only circulation, but integration and the much needed level external areas which would not otherwise be available on such a steep site.

Not wishing to design a building which in any way challenged the authenticity of Spencer Block, this development had to represent technology, the new millennium and a society which was now. The design is high-tech, youthful and fun. Stainless steel handrails and aluminium balustrades form the safety barriers while stainless steel frames and punched aluminium sheets provides a raised parasol offering relief from the sun. These details deliberately create inspirational patterns of light and shade, shape and form.

And so to the structure which was ultimately intended to engage the inquisitive minds of technology students and speak of the technology of construction.

Steel columns, posts and beams all used effectively to demonstrate "technology at work", while the layout and planning of the building encourages students to share in the discovery of innovation by making visual connections in three-dimensions, in what otherwise, might have become a standard two-dimensional classroom facility.

In the centre of the building, at its deepest section, the space opens up to provide a two storey atrium. This effectively engages six different classrooms, laboratories and study spaces each opening to the other encouraging students to cross fertilize ideas and develop the technology of their choice.



In all, the development has turned out to be a superb teaching and learning facility. Its long multi-storied structure, neatly positioned on a difficult steep site. It gives an appearance of "just hanging" from the edge of the road. Within the structure the dominant skeletal

steel structural members, are deliberately emphasised with planes of strong colour providing an energy conducive to its environment and its youthful occupants.

In all, its a fun place to learn.

Architect:
Designgroup
Paris Magdalinos Architects Ltd, Napier.
Telephone: 06 835 6173.

Roofing Manufacturer: Dimond
Telephone: 0800 346 663
Telephone: 0800 DIMOND

Profile Dimond LT7

Roofing Contractor:
Martin Roofing

Roofing and Cladding:
Pacific Coilcoaters, Auckland.
Product: ColorCote®ZRX
Colour: Metallic Silver
Telephone: 09 579 9199

Photography: Clive Ralph
17 Cathedral Lane, Napier
Telephone: 06 835 7204

SCOPE NEWS AND VIEWS

New Zealand Metal Roofing Manufacturers Inc. Technical Committee activity

The major current project being handled by the NZMRM Technical Committee's members is the production and publication of the Metal Roofing Code of Practice. Another important, but not so well-known, facet of the committee's activity is its participation in representing the association within the technical governance of the building industry.

NZMRM's technical committee takes advantage of the association's status to progress technical projects which are not able to be tackled by individual member companies in their own right. Many organisations governing industry only recognise industry associations or similar bodies as participants or contributors to their processes, which often have a regulatory outcome. It is important for the association's members, suppliers and customers that we do have this channel of communication and participation as otherwise decisions can be made which affect our industry without our input or ability to affect the outcome.

External bodies recognising NZMRM include Standards New Zealand, Standards Australia, the Building Industry Authority, Building Research Association of New Zealand, and the Roofing Association of NZ (with whom we have a special relationship, in that their members are often our customers).

A brief and not comprehensive list of such involvement includes:-

❏ The Building Industry Authority (BIA) has supported the production of the upcoming Code of Practice, and will authorise the base sections as an Approved Solution under the NZBC. This will mean that these sections must be recognised by all Territorial Authorities as providing compliance with the requirements of the Building Code.

❏ NZMRM was represented on the Standards New Zealand committee for NZS 3604:1999 Timber Framed Buildings and was able to provide amendments to this beneficial to its members.

❏ NZMRM is represented on the Standards Australia committee for AS/NZS l S62. 1 Design and Installation of Metal Sheet Roof and Wall Cladding and AS 4040 Methods of Test for these products.

❏ NZMRM is a party to proposing that Standards New Zealand produces a Roof Underlay Standard, and will be involved in developing such a standard.

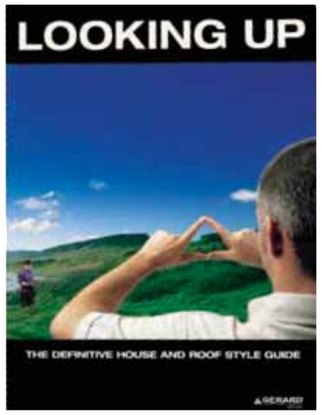
❏ NZMRM has produced submissions on behalf of the industry on
1. Revision of NZBC B2/AS 1 (BIA)
2. Inquiry on leaking buildings (Select Committee)

❏ NZMRM has been working with BRANZ on re-testing of the pull-out strengths of fasteners.

❏ NZMRM has worked to produce a study high-lighting the benefits of lightweight over heavy weight roofing materials.

Amalgamating two brands. Harvey Roofing and Gerard Roofing Systems

In August AHI Roofing completed the merger of its two major roofing brands, Harvey Roofing Systems and Gerard Roofing Systems which are now amalgamated under the name Gerard Roofs. A full media campaign has been launched targeting the aspirational consumer. Supported by TV advertising as well as consumer and trade advertisements, the centrepiece of this campaign is “Looking Up ”- Gerard Roofs definitive house and roof style guide with 54 pages of creative ideas and design solutions it provide consumers with information to make definitive style decisions when building the home of their dreams. A brand new look for Gerard Roofs has been launched and with nearly 50 years of roofing expertise, Gerard Roofs is a leader in steel tile roofing technology.
Its extensive range of roof styles, colours and finishes is sold throughout New Zealand via the Gerard Certified Roofer network and is exported to over 70 countries worldwide.The range includes Gerard Colortile, Gerard Tuffcoat Tile, Gerard CoronaShake, Gerard Senator Shingle and Gerard Oberon Shingle. For a free copy of Looking Up ,or to request an update of the Specifiers Manual please contact AHI Roofing on 0800 104 868

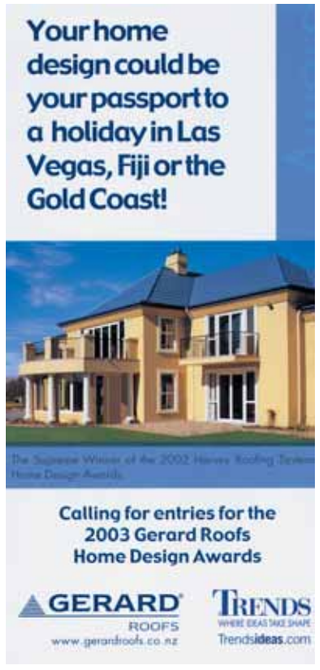


Salmond Hall, Dunedin recently completed by Calder Stewart, is a fine combination of design and execution.

Salmond Hall was built in 1966 as a residential accommodation for students attending to studies at Otago University. A reroof was required to fix problems with the original membrane roofing, and Architect John McKenzie, Dunedin, wanted to use a steel roofing system to fix these problems. Conventional longrun profiles would not be able to be used to cover the faceted roofing structure. Calder Stewart Roofing's Eurotray®-Angle Seam was chosen as the most appropriate system available for this reroof. Calder Stewart have many years experience in manufacturing and installing Eurotray® to intricately shaped structures, throughout New Zealand. An interesting feature of this particular roof is that most sections flow in two directions, meaning that all the trays used are wider at the valley than they are at the ridge - even on the "straight" sections. Other examples of Eurotray® roofing and cladding, to interestingly shaped structures, are available to be viewed at www.roofer.co.nz
Calder Stewart Roofing's website

Gerard Roof’s Home Design Awards help promote the excellence of metal roofing to consumers. 2003 entries are open now!

The Gerard Roofs Home Design Awards (previously known as the Harvey Roofing Design Awards) are open to architects and architectural designers who have designed a new or renovated home using the Gerard Roofs Range – Gerard Colortile, Gerard Tuffcoat Tile, Gerard CoronaShake, Gerard Senator Shingle or Gerard Oberon Shingle.
The awards will recognise houses in two categories:
a) under $250,000
b) over $250,000



All Highly Commended Award entries will be judged for the Supreme Gerard Roofs Home Design Award in July 2003.
The winning architect/architectural designer will receive a trip for two to the International Builders Show in February 2004 in the USA – one of the world’s most popular home building exhibitions.
The winning builder will receive a trip for two to Australia’s Gold Coast.
The owner of the winning home will receive a trip for two to Fiji.

For full details or an entry form call Gerard Roofs during office hours on 0800 104 868 or visit the website: www.gerardroofs.co.nz

Metalcraft Industries open their doors in Whangarei.

Metalcraft Industries has extended its branch network with the setting up of its newest branch in Kaka Street, Whangarei.

The branch is being run by Brian Dornbusch, who has had many years experience in the roofing industry in Northland.

Brian is assisted by Patrick Visser - Customer Services. Margaret Povey - administration and Alan Hendricks in the factory along with fixers Pona, Francis, Daniel and TJ.

WHEN EXTREME ENVIRONMENT MEANS EXTREME

It has been "quite a challenge to design and build a hut for such a high alpine environment at Mount Cook," says Gottlieb Braun-Elwert.

Over an October weekend Braun-Elwert and three mountaineers from his company Alpine Recreation Canterbury, erected an 11-bunk, two-room hut at 1800 meters on the broad ridge that runs down from Ball Pass towards the Tasman Glacier.

While the hut is primarily for the use of Alpine Recreation guided parties, there is a lined emergency shelter room built on one end.

The hut is nearly 12 meters long by just over five meters wide and a ridge height of three meters.The prefabricated hut was, under the supervision of Gottlieb and Andy Green air lifted on site by a "heavy lift" Squirrel helicopter.

The Caroline Hut was built during the winter and spring of 1990 for Alpine Recreation Canterbury Ltd from the designs of Gottlieb Braun-Elwert of Lake Tekapo and Evans Douglas Consulting Engineers of Christchurch.

A 5-Rib roofing profile called "Cosdek" manufactured by Dan Cosgrove Ltd of Timaru was selected for both roof and walls using a Colorsteel® 5000 coating on a galvanised based steel produced by New Zealand Steel of Auckland.

Lignite colour was used for the roof and Lichen for the walls with the product required to withstand blizzard conditions, winds of up to 200 kph and snow dumpings of up to six meters on the roof. The hut has stood up to all these tests and come through without any problems.

The roof was fully sarked with plywood and the spouting was fitted under the end of the roofing with drainage holes to troughs in the iron for water to drain into the spouting and snow to pass over the end. The walls were also covered with plywood before the fitting of the Colorsteel® Cosdek cladding.

Following many heavy snow falls burying the hut at its original site, it was recently shifted a few meters away from the mountain behind to clear much of the snow sliding down the mountain.

Dan Cosgrove Ltd were proud to be involved in this exciting project and continue to follow the life of this hut, the highest in New Zealand, with a great deal of interest.

In 1990, New Zealand Steel Ltd were consulted about the paint coating specification for this harsh environment and advised that the Colorsteel® 5000 grade should be satisfactory. This has certainly proven to be correct.

Alpine Recreation Canterbury Ltd, Lake Tekapo takes competent ski touring parties into the virtually unvisited Mount Cook Range. The Caroline Hut can be a base for young climbers keen to receive instruction while climbing some of the easier peaks in the area such as Turner Peak and Mount Rosa.

Design & Engineering Gottlieb Braun-Elwert of Lake Tekapo and Evans Douglas Consulting Engineers, Christchurch.

Roofing & Wall Cladding - Cosdek 5 Rib Colorsteel® 5000 manufactured by Dan Cosgrove Ltd, Timaru.
Telephone +64 3 688-4169,
Facsimile +64 3 684-8075
Email: admin@dancosgrove.co.nz

Extracts from an article written by Colin Monteath for the Press in 1990

METAL PROVES A WINNING CHOICE IN 2002 HOUSE OF THE YEAR AWARDS

7 OF THE 15 CATEGORY AND LIFESTYLE AWARD WINNERS IN THIS YEARS REGISTERED MASTER BUILDERS HOUSE OF THE YEAR FEATURED METAL ROOFING.

The Supreme Award went to Auckland building company Rod Percival Builders Ltd for a stunning home at the edge of the Coromandel Peninsula. Gracing a beach front location, the home was built to create a relaxed and secure indoor/outdoor living environment. It was constructed using a restrained palette of materials to reflect its environment, resembling elements of a true Kiwi style bach.

It is interesting to see that from the supreme winner, in the over $550,000 category, to the winner of the under $140,000 category lightwieght metal roofing products dominate as the preferred roofing material. The Association extends it's congratulations to those designers, builders and home owners who won in their categories.

Pictured are the seven winners which featured metal Cladding.This illustrates the flexibility and design diversity available with lightwieght roofing products.

Over $550,000 and Supreme Award Winner
Builder: Rod Percivals Builders Ltd, Auckland
Ph: 07 866 2818

$270,000 to $370,000
Builder: D R Borman Ltd, Masterton
Ph: 06 370 8692

$140,000 to $190,000
Colonial Homes Ltd, Christchurch
Builder: Graeme Taylor
Ph: 03 343 1006

Under $140,000
Endeavour Homes Ltd, Nelson
Builders: Richard Baker & Kevin Southerley
Ph: 03 544 0886

James Hardie Show Home Award
Abode Design & Build Ltd, New Plymouth
Builder: Lyall Dix
Ph: 06 758 9174

QBE Insurance Interior Style and Finish Award
Builder: J J Oskam Builder, Dunedin
Ph: 03 489 2313

PlaceMakers Renovations Award under $100,000
Builder: Chris Broadhead Building Ltd, Timaru
Ph: 03 686 3363

L.J.Fisher

AN EYE FOR AN OPPORTUNITY

Behind the sophisticated range of metal roofing tiles currently produced by AHI Roofing Ltd lies a fascinating story.

PART 2. METAL TILES

Extracts from "The History of Metal Tiles" researched and written by Kate Hill.

This new "Rolls Royce" Decramastic product brought about L.J. Fisher and Company's entry into the residential roofing field at a time when the building industry was rapidly expanding and supplied what the market was looking for in the form of the "Long Low Ranch House Look"

By the mid sixties Decamastic tiles were being exported and recognised in many international markets.

Hurricane to order was the headline in the Auckland Star in March 1968. Innovation in product marketing was also demonstrated by L.J. Fisher using jet engines and dynamite to illustrate the strength of the company's products.
These were not empty claims as was illustrated during the cyclone which devastated Darwin in 1974. The horizontal nailing technic still used today was credited for the isolated survival of this home.

New Zealand technology leads the world

Metal tiles

The first coated metal roofing tiles to be made in New Zealand were produced by Martile Roofing Ltd in Howick in 1956 and were pressed from an aluminium manganese alloy. They were then coated with High Bake Enamel. By 1957, L.J. Fisher had bought the rights to use the Martile profile from A.L.W. Martinsen and Son Ltd and was producing his own tile. Part of the condition of the rights purchase was that Fisher's four pan tile with its bitumastic emulsion coating was to be made from galvanised steel, thereby ensuring a different product.

Two or three years after the business was established, the decision was made to find a local, and hopefully cheaper, source for the supply of mastic which could then be produced to a specification exclusive to L.J. Fisher. The emulsion rights were soon transferred from Berry Wiggins to Emoleum Ltd in Penrose, and by the early 1960's the Decramastic product was 100% New Zealand made.

One of the earliest Decramastic product specification sheets (from the four pan era) promotes, amongst its many points, "A permanently protected roof ... without rain clatter and movement noises [that is] ... cooler in summer and warmer in winter". It also emphasises the "substantial saving of timber ... [and the] neat looking and easily formed ridges, hips and valleys". All in all "a roof to be proud of ... attractive in appearance, free from maintenance for many years, with a low initial cost".

There was, of course, room for improvement. Advances in quality control, methods of manufacture and acceptance and approval by lending authorities, local bodies, Government departments, architects and home owners ensured that, by the mid 1960s, the volume of production and sales had soared to the point where nearly half of medium and high quality homes being built had Decramastic roofs.

With the introduction of Decramastic Tiles, Fisher bought a major new lightweight roofing product on line which, over the years, was to expand its influence beyond New Zealand shores into the International market.

By the early 1970's L.J.Fisher and Company had been bought by Alex Harvey Industries and was exporting product to South East Asia, the United States, Australia and the United Kingdom. Alex Harvey Industries was subsequently purchased by Carter Holt Harvey in 1985.

The growing success of metal tile technology as an export product resulted in the commissioning of new manufacturing plants under licence, in Denmark, Malaysia and the United States by the late 1980's.

It was during this period that the company moved to acrylic coating technology (for improved chip adhesion) and launched the

Colortile product on the New Zealand market.

The Gerard world-wide operation (excluding the United States) was purchased by Carter Holt Harvey in 1989 and the CoronaShake product was launched in 1992 and Oberon in 1995.

The company is now owned by Tasman Building Products and remains the international market leader in pressed metal tile technology.

THE SUPREME WINNER OF THE GERARD ROOFING SYSTEM DESIGN AWARDS

2001 saw the introduction of the Harvey Roofing System Design Awards. With the combining of the Harvey and Gerard brands the awards are now offered under the Gerard banner. The award winner continues to be selected by majority votes from all sectors of the building industry and interested members of the public and as such represents a balanced view of universal appeal.

The 4 Hectacre site on a busy thoroughfare on the Northern outskirts of Christchurch stands at the entrance to the luxury Clearwater Golf Resort and affords magnificent views toward the Port Hills to the East and to the Southern Alps to the North West.

The home had to fulfill two roles:
- that of a family home with 4 bedrooms, a study, 3 bathrooms and a family living room plus a large office with private stair access (over the triple garage).
- and that of a top quality home stay offering 3 guest bedrooms with ensuite facilities and formal dining room. The establishing olive grove and vineyard on the site dictated a 'French Chateau' feel to the home.

To satisfy the brief we designed a 40m long rectangle with branched staircase opening to a central guest lounge and balcony to separated

family and guest facilities. Behind the staircase an 8m long kitchen and conservatory offer a natural and informal meeting place for guests and family alike. A third staircase gives everyday access to the family quarters. The symmetrical design allowed all rooms to have panoramic views to the Southern Alps and French doors opening to sun drenched balconies or terraces.

The use of a lightweight Harvey (Gerard) Colortile with the barrel trim allowed for the double pitch flaring of the roof to emphasise the 'French Style'. This was further reinforced by choosing 'Ocean Blue' as the colour.

Design: Hawthorne Duff Architecture Ltd.
Telephone: 03 980 9912
Web: www.hawthorneduff.com

Builder: D J Hewitt Builders Ltd.
Telephone: 03 384 7470
Web: www.djhewitt-builders.co.nz

Owners: Robin & Sue Clements
Property Name: Clearview Lodge.
Telephone: 03 359 5797.
Web: www.clements.net.nz

Walls: 60mm polystyrene with Rockcote Plaster Finish – Tuscan Sand Colour
Roof: Harvey (Gerard) – Colortile in 'Ocean Blue'

Roofing Contractor: Avon Roofing
Telephone: 03 348 0035
Web: www.avonroofing.co.nz

Roofing Manufacturer: AHI Roofing
Telephone: 09 978 9010
Web: www.gerardroofs.co.nz

From left: Gary McNamara, NZ Sales & Marketing Manager AHI Roofing, Ray Hawthorne and Terry Duff, Architects.

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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Contact: Andrew Protheroe

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Contact: Phil Hogg

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69 Montgomery Crescent
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