ISSUE 13

SCOPE

NZ METAL ROOFING MANUFACTURERS INC.

Below is a brief introduction to the 2006 executive of The NZ Metal Roofing Manufacturers Inc.
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.

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SCOPE

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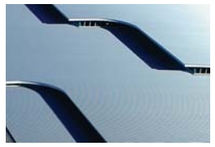

COVER
Delegat's new Marlborough winery.
Cover Photography. Kevin Crawford.

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

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NZ METAL ROOFING MANUFACTURERS INC.

DELEGAT'S STATE OF THE ART MARLBOROUGH WINERY

A new $70m facility has taken shape in the heart of Marlborough's Wairau Valley and is one of New Zealand's largest and most technologically advanced wineries with the first stage completed in time for the 2006 harvest in March. At final completion in 2008, the winery will be capable of producing more than 20 million litres of super-premium wine annually for the Oyster Bay brand, consisting of Sauvignon Blanc, Chardonnay and Pinot Noir.

Richard Bullock, Manager of Capital Projects at Delegat's Wine Estate Ltd (Delegat's), the owners of the facility, says a considerable amount of research has gone into the project which has employed technology from the leading wine regions of the world, including California and South Australia. The best minds from New Zealand and around the world have been assembled to ensure a world-class outcome.

The centre piece of the facility is a six-storey high, 10,000 square metre temperate-controlled stainless steel cellar, housing tanks ranging from 5,000 to 160,000 litres capacity. The height of this impressive structure is driven by the size, height and volume of the wine tanks.

Michael Ivicevich, Chief Winemaker at Delegat's Wine Estate, says the whole wine making process is designed to ensure the fruit is handled as gently as possible at every stage to ensure optimum wine quality.

Richard Bullock reiterates that the winemaking processes were paramount to the design of the facility, with the building structure having to 'support' the winemaking requirements. There has been particular attention to detail in the design and look of the building as well as the products used to ensure the achievement of this objective. Consequently the architectural points of interest are seemingly endless.

Travelling down the long driveway encapsulated by perfectly formed rows of grape vines you are presented with a stunning sight. The project architect, Gavin Robins of Stiles and Hooker explains “The front entrance showcases a large curved glass wall emulating the serpentine form of the Wairau River. It provides visual movement to the building façade with the high tech reflective turquoise blue glass simulating the deep pools of the river and providing reflection. The carefully designed incline of the wall means that on approach you see reflections of the vines and trusses until it is reached and the 'life and soul' of the building interior is revealed.”

Anchoring the left hand end of the building are three imposing stainless steel balls skewered by equally impressive steel flagpoles. These are yet another example of the innovative design involved in the project. In Gavin Robin's words… “The Delegat's Wine Estate is of such a scale that it is diminished only by its majestic surroundings. The building is high tech in nature

but is in harmony with its environment. It has life, a soul and attitude. It is sophisticated, it has beauty, it is important and it provides stimulation. This amenity will be an asset to the Marlborough District.”

To create this facility Delegat's gave Gavin Robins a clear brief that the facility should reflect its environment. Gavin responded by designing roof forms for the various building elements that are curved and layered rising from the valley floor to reflect the hills and ranges beyond, and the resulting finished product steals the attention away from the imposing Richmond ranges in the background.

'Delegat's had no preconceived ideas on roof materials', notes Richard, 'and we left it to Gavin to research options and make his recommendation to us'.
When Gavin came to us with the relatively new Dimond product, Dimondek® 630™, we had no hesitation in accepting his recommendation.While we have had some challenges achieving the final aesthetic, the finished roof certainly supports the vision of the facility.

The drape curved roof features 3 layers and single sheets of Dimondek 630 up to 59.45 metres in length curved over a 250 metre radius. These huge dimensions were made possible by Dimond's on-site manufacturing unit. Roofing sheets that are transported can only typically be a maximum of 30 metres long, but there are few restrictions in terms of sheet length if they are made on-site. Scott Townsend, Marketing Communications Manager for Dimond explains "The roofing at the Delegat's winery is curved over the length of the building, and given the sheet lengths involved and design of the building, Dimondek 630 is the only product in New Zealand that could have been used. The curved design combined with the un-interrupted roofing sheets and multiple levels has created a stunning finish to a spectacular building."

However, the unique roof is just one of many eye-catching design features. The 3,600m2 of cladding used for the winery utilises Dimond Corrugate with the Colorcote® ZRX™ paint system used on the interior side and Colorcote® ZR8™ on the exterior. Four different colours were specially formulated by Pacific Coilcoaters to form the external banded effect that reflects the colours existent in the surrounding environment and serves as a visual reduction of the height of the facility. Pacific Coilcoaters has the ability to develop colours to specific requirements for large commercial projects. On the other side of the Dimond Corrugate, Habitats Metallic Silver was chosen to give the internal walls a modern industrial look. This was in keeping with the stainless steel wine cellars and tanks as well as complementing the 10,800 square metre internal ceiling finished again in Dimond Corrugate but this time in unpainted Zincalume®.

The natural lighting used over the process area was curved Dimond Corrugate in Durolite and created a well lit area underneath while providing an effective visual contrast with the steel roofing from above. Dimondek 630 in Dimond Durolite was also used as natural lighting over the process room. DHS steel purlins were used in the roof structure and as girts in the wall structure.
The installation of the roofing, cladding and natural lighting was performed by JV Roofing Ltd, a joint venture company formed by Wayman Roofing Services Ltd and Graham Hill Roofing Ltd, both of Christchurch. Both are Dimond Certified Commercial Installers and their skill and experience were essential in ensuring the successful completion of the project. John Jones Steel Ltd also of Christchurch was responsible for the steel fabrication and installation of the DHS Purlins.

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Featured products:

Roofing: Dimondek 630 in Metropolis Extreme Denim Metallic using Colorcote ZRX
Wall Cladding: Dimond Corrugate, double sided with Colorcote ZRX on the inside and Colorcote ZR8 on the outside. 4 outside colours including WAN white, Foggy Grey, DBL Sidewinder, Powder Blue and inside colour is Metallic Silver.

Internal Ceiling: Dimond Corrugate in unpainted Zincalume

Process Area Roof: Dimondek 630 in Dimond Durolite

Process Room Roof: Curved Corrugate in Dimond Durolite

Steel Purlins: DHS Purlins

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A LITTLE BIT OF COUNTRY

There is a quiet but reassuring air of confidence surrounding architect Graham Pitts whose design expertise only came to our attention when his work, entered by Micheal Lieshout, won New Zealand Master Builders Auckland Category 7 for New Homes 2005. Generally Graham shuns the idea of publishing his work or entering for awards and relies on referrals from a well established and loyal client base.

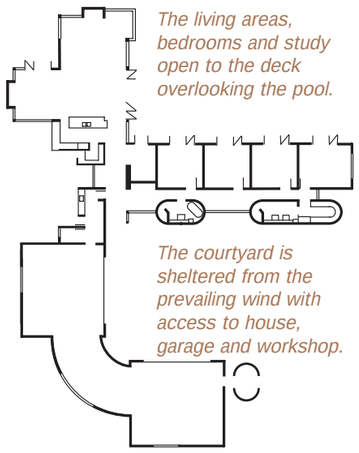
Prior to this commission, to design the Hobbs Residence, Graham had a well established working relationship with the owners Carol and Ian Hobbs having completed two earlier projects for them.

A Pauanui seaside home and the renovation of a workshop and small rural dwelling. Both requiring a very different approach to that of the proposed new home at Bombay. This earlier work provided an invaluable insight. "Having developed a relationship spanning about 10 years you gain some mutual understandings," says Graham. "Building this empathy with a client's needs is the basic parameter required to realise an architectural solution."

The brief was informal and flexible. Carol Hobbs recalls, "We met Graham on site and sat in the open field discussing our thoughts, dreams, aspirations, the site and weather considerations."

The basic requirements for the home were established. A single level with four bedrooms to accommodate guests, family and grandchildren, two bathrooms and generous garaging for Ian's toys: A Merc, a Harley, a Truck, a Gym and Workshop

Graham's approach to design falls into two distinct priorities; the working function between spaces and the position of the home on the site as it relates to the elements and responds to the landscape. Establishing the plan of spatial relationships satisfying the brief is the first step which precedes any fixed concept of the exterior. His experience indicates that generally women understand best the working mechanics of how the home functions whereas men tend to be more concerned with the exterior aesthetic.



The living areas, bedrooms and study open to the deck overlooking the pool.

The courtyard is sheltered from the prevailing wind with access to house, garage and workshop.

"One of the nice things about designing a country home is the relationship to the environment without the constraints of tight urban sections or town planning restrictions.

In the instance of the Hobbs home it was intuitive to design reflecting the flowing nature of the immediate landscape and rolling hills beyond. Creating the flowing, almost aerofoil shape of the roof has the added benefit of deflecting the strong and turbulent prevailing wind from the inner courtyard.

The historic use of corrugated iron in New Zealand's rural settings seemed a natural choice. It is a reflection of Kiwi materials not fashion and combined with Fibre cement sheet seemed a logical choice in response to the situation of the home," says Graham.

The courtyard features two external corrugate walls which hold the bathrooms of the home. These were inspired by the "old 400 gallon water tanks" which historically featured with many NZ dwellings. This is duplicated in the external shower and is a continuation of "the water tank" theme expressing a whimsical sense of humour.

Graham is careful to design within the natural parameters of a specific environment and material choice is to some extent, a reflection of both location and client some being more adventurous than others. Graham notes that Kiwi's in general are less inclined to move from convention on the exterior of their homes but are more open to extremes in design options on the interior. This can, in some instances, create issues where styles collide. "The exterior of a home should be reflected in the interior making a seamless transition from the outside to inside."

"The home is a pleasure to live in and we are very happy with the result," says Carol who has involved herself in every aspect of the design, building and landscaping process. "The relationship between the areas inside work well as does the homes connection to the outdoors and country lifestyle."

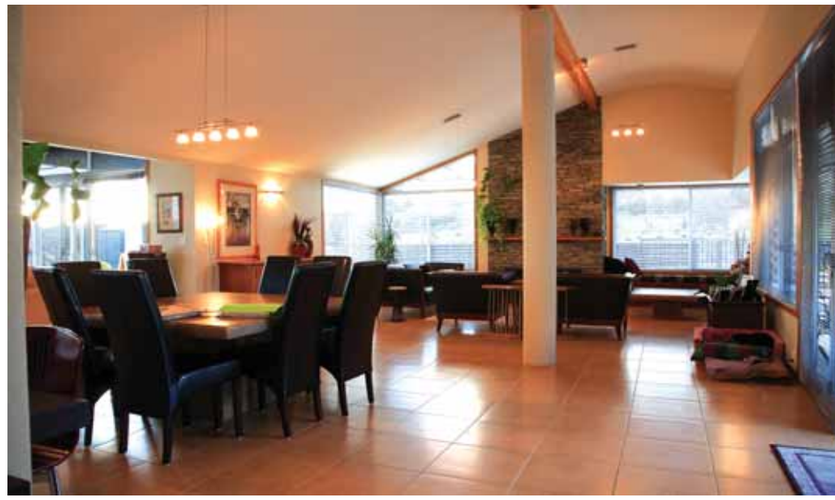
Graham Pitts, Architect.

Graham reflects on the impact of earlier years when as a student he did an in depth study of the work of Group Architects who broke with the beaux arts traditions and began exploring a distinctly New Zealand style of architecture with a fresh, new awareness of design. Essentially New Zealanders did not like to stand out or be different and demonstrated a community of conservatism. These forebearers broke new ground changing the face of New Zealand architecture by liberating our views of acceptable difference.

In the past having run a small to medium architectural practice employing about seven people Graham now concedes that, for him at least, this approach is not the best means to achieve a satisfied client base. Clients do not want to talk to what is effectively "a front man," they want to deal with the person who will be hands on, a person who understands their needs and is involved in the creative process. Today Graham deals with all projects directly and has established a loyal group of clients, some of whom have returned to have four or more homes designed. This personal approach achieves the best and most satisfying result for both client and architect.

Graham's philosophy is one of simplicity to attain the objectives which meet the clients aspirations and expectations and then to take the client beyond.

The Hobbs home is a fine example of the result that can be achieved when both client and architect are receptive to ideas.



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Builder: Pukekohe Builders.
Michael Lieshout
Telephone: 09 238 7758

Roofing Manufacturer:
Franklin Long Roofing Ltd
Profile: Corrugate Zincalume®

Roofing Installer:
Franklin Long Roofing Ltd
Mark McCarrick
Telephone: 09 238 9249

Cladding: Titan Board, Otago Schist and Zincalume®

FORM FOLLOWS FUNCTION.

If a lively debate is ever sought amongst artists then the moot could be 'craft precedes art'. Likewise architects get all fired up when 'form follows function' gets bandied around -well that is the purpose of this article.

It was American architect Louis Sullivan who made the phrase famous but what Sullivan actually said was 'form ever follows function', but the simpler phrase is the one usually remembered. He felt pretty strongly about it and also said it was a "rule that shall permit of no exception".

Linking the relationship between the form of an object and its intended purpose is a good idea for designers and architects, but it is not always by itself a complete design solution.

In the1900's Sullivan built tall steel skyscrapers in Chicago at the time of great changes in technology and economic change leaving behind the established styles of the past. Frank Lloyd Wright, Sullivan's assistant adopted the same principle but said 'Form follows function - that has been misunderstood. Form and function should be one, joined in a spiritual union'.

The Modernists, Le Corbusier, Walter Gropius and Mies Van der Rohe went another step further and stated that 'ornament is a crime' and between 1945 and 1984 Modernism seemed to be the only respected architectural form of the profession. The resulting structures tended to be simpler, taller, and lighter but looked honest and even naked alongside their older neighbors.
In the mid-1930's Philip Johnson said, "Where form comes from I don't know, but it has nothing at all to do with the functional or sociological aspects of our architecture". So although the stark reality is still there we have seen some interesting buildings lately because the profession now seems to view architecture more as a matter of aesthetics than form.

Recently five of Australias leading architects were asked which were the worlds and Australias most notable buildings. Some mentioned Eero Saariens TWA airport terminal, some St Peters in Rome, but four of them included Jorn Utzons Sydney Opera House. This was quite remarkable as it was the roof that provided the architecture. Not just a form of function but an essential part of the design.

Because we believe that our roofs can look pretty good, it is understandable that as an industry we are disappionted when they end up like this.

have to put up with it?
It seems nobody is to blame. The installer only did what the contractor asked him, the contractor only did what the designer asked him, the designer only did what the owner asked him.

An industrial building does not have to compete with the Sydney Opera House but it can look better than this.

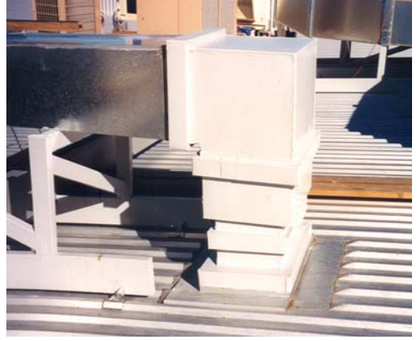
There is another problem though, probably more important than aesthetics.

The prime function of a roof is to keep the water out but this is getting progressively harder as the assumption is made that anyone can walk anywhere on a roof! The number of leaking penetrations is disproportionate.

Some say that the gauge of the metal is too thin. Well, like your BMW, the metal has been getting thinner for a while now but it has also gone up in strength. All our roofing profiles are tested for their resistance to point load. Steel is strong in tension but weak in compression. The intermediate span is 50% greater than the end span only because of the continuity it provides.
When you cut a hole in a roof, the intermediate span becomes an end span!

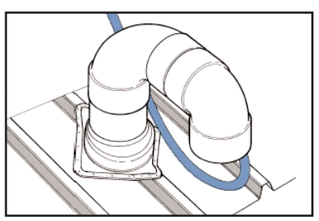
Historically designers placed a plant-room on the top of a building as the central location for HEVAC equipment and although smaller individual units are now in fashion there must be a better way than what is being done at present.

I do not think that all that equipment stuck up on a roof looks pretty - do you? So why do we

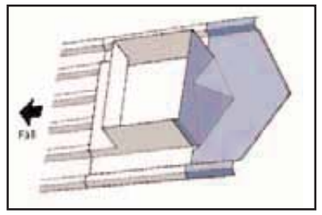


Photos: Examples of incorrect roof penetration causing potiential leakage.

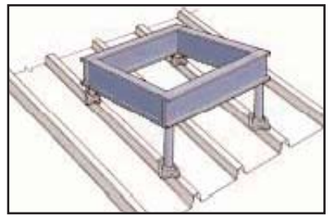
That means extra support is required for the roof in front and behind of the hole to allow the roof cladding to perform as it was designed.
When you cut a hole in the roof the water has to be diverted. If the hole is at the bottom of the roof the catchment is considerable and special provision must be made (see NZMRM Code of Practice 6.1.4.)



Where one or more flexible cables penetrate the roof cladding use P.V.C pipe and an E.P.D.M. Flashing.



A Diverter or Cricket flashing designed to avoid build up of debris behind the back of a square or rectangular penetration.



Where plant room supports are required to penetrate the roof cladding the designer should provide support framing from CHS.

There are many ways to flash a penetration and you do not have to suffer an ugly final appearance (read NZMRM Code of Practice section 6.0.)

When ladder access to a roof is required the 'step-off' place is always at an end span and much damage occurs at this point.
Internal access is always desirable but costs moreIn many countries a log book is kept of everyone who goes on the roof. No one is allowed on the roof without permission, no matter who they are!

The roofing industry is concerned about the damage that is occurring to metal roofs by the installation and servicing of air-conditioning equipment mounted on metal roofing.
We believe that much of this damage could be avoided if there was more information available to designers and greater detailing for the installers.

We believe that one of the purposes of the pending Licensing of Building Practitioners, including designers, is that everyone should take responsibility for their part in the building process.
That means the designer must design where the outlets are to be positioned on the roof, and draw the details so that they comply with the NZ Building Code and the NZ Metal Roofing Manufacturers Code of Practice. It also means that the end span must be reduced to 2/3rds of the intermediate.

All metal roofs are designed to support 1.1kN so if you are over 100 kg that means you should not be up there!
We believe that this means the installer must transport any units over a designed walkway so that the roof is not damaged.
If any of the units need regular maintenance a walkway should be designed and provided for.

Stuart Thomson is a Building Consultant to NZ Metal Roofing Manufacturers Inc., Roofing Association of NZ and NZ Steel.

Some facts

- *Just about all roofs can be walked on in the pan - but not on the ribs.*
- *The roof will not support air-conditioning units unless there is a supporting structure underneath it.*
- *If the ribs are dented, they cannot be satisfactorily repaired and the sheet should be replaced.*
- *If there is damage or ponding the warranty is voided.*
- *Run-off over, or condensate from, copper pipes must not discharge onto metal roofs.*
- *Leachate from CCA treated Pinus or hardwoods must not discharge onto metal roofs.*
- *Any timber, painted or otherwise, supporting aircon units must be separated by butyl rubber on top of the rib -not on the pan.*
- *All boot flashings must be placed at 450 to the roof to avoid ponding.*
- *All boot flashings must have one entry only - or be designed as per the drawings shown in this article.*
- *Silicone is not a substitute for a flashing.*
- *Unwashed areas are not covered by any warranty.*

RIGHT FROM THE START

Amidst competition from other architectural firms Dean Wyllie Architects won the contract to design a combined office building that would be used by two companies. Each Company was to maintain its own identity but share facilities such as administration, meeting rooms, training room, staffroom and retain an existing workshop. An interesting brief which required bringing together two company cultures and their individual needs.

PipeWorks, a Fletcher subsidiary start up company had been operating from the site for 4 years. The site had a 70m long shed, ideally suited for the wet-out pipe rehabilitation operations but the administration had out grown the relocated house used as an office.

Nearby Brian Perry Civil, also a subsidiary Fletcher company had also out grown their cramped Auckland facilities.

These two companies work alongside one another in many instances and the synergy between the companies was recognised by the management of both who formally agreed to share resources.

Working alongside Dean Wyllie Architects the various needs of each company were identified. Discussions were held with not only management but with those at “the coal face” to establish areas of operational concerns. The rapport between Architect and members of both companies is very apparent and without doubt has aided in communication and efforts to find design solutions.

Combined the companies employee over 120 staff, many of whom are site based, with the offices housing around 35 staff including several project managers who split their time between the office and site. Both companies have found a marked improvement in their operation due to the facilities that the new offices provide.

Above: Two strong apposing tilt-up concrete slabs were incorporated into the design of the building on the street façade for signage.

Below: The staffroom opens to the north at the rear providing sunshine during the day and an external area for staff social occasions.

Both companies use the training room extensively for in house training. Training sessions are designed to bring all members of the staff together in a way that does not delineate between management and the site work force providing a social but informative atmosphere. Both companies believe this collective communication between site works staff and management has been greatly enhanced by the new venue.

While Brian Perry Civil's head office is in Hamilton and they have offices in Wellington and Christchurch, the Auckland office is now used for many of their management meetings and has become somewhat of a flagship of their operation. The inviting and open nature of the building is often used for client functions. “Many of our clients prefer to have their site meetings here rather than on site or at their own offices,” says David Fehl, Business Development Manager for PipeWorks. "Our training room can open onto the staff room which provides facilities for large meetings of 60 plus. Our two smaller meeting rooms can also be opened to form one larger room.” Both the meetings rooms and the training room are equipped with projectors and internet facilities with specifically designed furnishings allowing for various flexible configurations.

Early in the design process it was decided to keep an industrial theme incorporating materials that would reflect the engineering nature of the clients operation. The industrial approach and honest use of materials has been achieved by exposing the steel portals,

The staffroom (left) is designed to open to the adjoining presentation facility to comfortably cater for 60 or more. Both companies keep their staff well informed on industry safety issues and this facility has become an invaluable operational asset.

polishing the concrete foyer floor, using the reinforcing security mesh at the entrance as a design feature and the horizontal ColorSteel cladding providing contrast from the existing ribbed steel of the workshop.

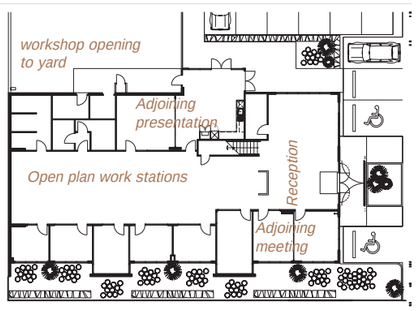
Two strong tilt-up concrete slabs where incorporated into the design of the building on the street façade for signage. Internally the office is split into two levels with a double height entrance and administration area with views out over the yard. Priority was given to the staff room location that faces north with access to a small courtyard. Security is of high importance and to avoid having to use security grilles to all the glazing an electrical fence was installed to the front offices. Security at the entrance was resolved by using a mesh cage that opens back during the day forming a backdrop to the landscaping and adding to the industrial texture without being apparent as security screening.

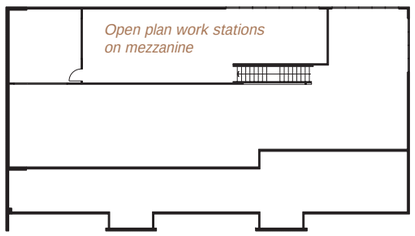
A deliberate use of bold colour with the interior painted surfaces, floor finishes and fabrics provides fresh relief to the often drab site sheds where engineers spend their time.

The office building addresses the street giving a strong appearance with the opportunity of signage and provides some visual protection to the yard operations behind. Locating the office building at the front of the site allowed maximum use of the yard space for manoeuvring and storage of the large equipment such as NZ's largest specialist drilling rig, the 625 Soilmec.

The existing workshop was retained and extended to the boundary. One of the key bulk and location requirements was to minimise the extent of demolition to the existing workshop shed in order to maintain the maximum amount of straight length pipe lining preparation space.

David Fehl, spokesman for the group, is very complementary of the work done by the architects, “They quickly involved themselves in our business needs, listened to our operational needs, discussed operations with our staff (not just management) and provided us with innovative solutions. As a collective group we are very happy with the work that was done. It has streamlined much of our operation and provided us with a facility that strengthens our association with our client base. Of equal importance to us was the ability to keep to the time scale and budget.”





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Cladding & Roofing: Paton Roofing
Philip Gilmore
Telephone: 09 838 7905

Cladding: Steel and Tube
Custom Orb ColorSteel Endura
Sandstone Grey 0.55mm BMT wall cladding on H3 20mm drained cavity.

Roofing: Steel and Tube
Multispan longrun ColorSteel Endura
Cloud roofing 0.45mm BMT roofing, 0.55mm flashings with Alsynite MaxiglasXLF translucent sheeting.

Locating the office building at the front of the site allowed maximum use of the yard space for manoeuvring and storage of the large equipment such as NZ's largest specialist drilling rig, the 625 Soilmec. Drill heads shown in foreground.

Dean Wyllie Architects

Dean Wyllie Architects Limited, formed in1994, offers architectural, interior and conceptual design, including visualisation using computer graphics.

The principle, Dean Wyllie, offers considerable experience gained while working in London, Europe and the South Pacific on prestigious projects such as Waterloo International Eurostar Terminal in London, Expo 92 British Pavilion in Seville, the Berlin Stock Exchange and others. Dean has lectured on Architecture and computer graphics both in NZ and the UK.

Dean Wyllie Architects have systems in place to enable good communications with clients, council and contractors, including formal recording of all consultations and excellent document production facilities.

Overall, the work of Dean Wyllie Architects is characterised by restraint and simplicity in design. “We believe in a team approach to the design process including the client and listening to their requirements, exploring expectations and opportunities and an integrated approach to architecture, landscape and urban design,” says Dean Wyllie.

SCOPE NEWS AND VIEWS

An Apology.

In an article which appeared in issue 12 of Scope the Project Manager of the Kerikeri Centre was incorrect. This error was solely an oversight of the magazine and not intended to mislead or misinform readers. Scope formally apologies for any embarresment this may have caused those concerned.

The correct information is:
Project manager:
Michael Wiggins. Architect
Site / Construction Manager:
Eddy Murphy
Kerikeri Building and Management Services Ltd.

Dimond Raises Roofing Stakes!

A new award of $2000 was presented by Brad Bridges, Dimond's General Manager to Ryan Hayward a roofer, for Excellence in Roofing. Ryan received his award and engraved medal at the Roofing Association of New Zealand (RANZ) annual conference held in Christchurch on June 22. The award was for excellence in roofing demonstrated by an apprentice in the 2005 year.

Ryan had this to say: “I've just started my own business, so this money will be a great boost to help me continue my dream. I'm really rapt and can still hardly believe it. Just awesome!”

“We're really delighted that Ryan won this award. Dimond and the ITO both believe in encouraging excellence and best practice in roofing,” said Elizabeth Valentine, Chief Executive of the Plumbing, Gasfitting, Drainlaying and Roofing ITO. “Ryan clearly demonstrated this to win the award.” Elizabeth introduced the innovative award to a gathering of over 250 roofers before the annual conference dinner.

The award is made available by Dimond and the ITO to promote and support quality work in roofing and will continue for the next few years. The yearly award is for an apprentice who must demonstrate an excellent standard of practical on-site workmanship and skill. He or she must also be a teamplayer who works well together with colleagues and the community. The winner must be within the top range of practical training and competency assessments gained from the Wintec off-job course within the required year.

Ryan started his apprenticeship with David Washer of Roofing Systems Limited, Tauranga. Ryan exemplifies the hardworking dedicated apprentice. Comments from colleagues, tutors and judges include: “Ryan always goes the extra mile. He is committed and hard working. He works well with others. Ryan follows through on the task at hand and is always looking at innovative new ideas. He was the clear winner”. After completing his apprenticeship Ryan started his own business Fascia and Spouting Specialists, of Tauranga and Mt Maunganui.

From the left: Brad Bridges, General Manager Dimond, Ryan Haywood, winner of the award and Ryan’s parents.

New Profile, new name.

In Issue 12 of Scope AHI Roofing annonced the launch of a new profile which was to be called “Coppo Tile” It transpires that this name was already in use and so to avoid confusion the profile will now be named “Valencia Tile”.

A REMARKABLE HOME

Owners Christine and Denis Callesen

After some 3 months of researching an estimated 10,000 floor plans and building styles, for several hours a day, the Callesens were satisfied they knew what they wanted and how to get it. The site at Queenstown's Lakeside Estate has magnificant views which encompass Lake Wakatipu to the west and is dominated to the east by the formidable Remarkable Range. New Zealand's outdoors at its best which deserved the well considered detail which was to become "Valhalla."

The formal lounge which adjoins the formal Dinning room shown on the previous page

The wine cellar which features a unique "shotgun" wine rack. The gun collection is another of Denis's passions.

Designer Dave Lowe of Interact Architects & Designers Ltd. worked closely with the owners Christine and Denis Callesen to achieve the objectives of a design which would be flexible and comfortable. Christine and Denis wanted a home of high quality which would provide warmth, comfort and be versatile enough to cater for both friends and family and double as a venue for conferences and a corporate retreat.

The home of approximately 550 square meters features four bedrooms, three bathrooms, formal lounge and dining facilities to seat 16 guests and provides all the creature comforts imaginable whilst housing a variety of "treasures" the Callesens have collected in their travels. Many items tell a story adding personal charm and memories of times past. From the lighting, the granite and marble flooring to the finely crafted and generous timber features this home exudes taste and quality.

"The 8m high, 40 degree pitched roof required a high level of engineering and design, with the resulting truss systems fulfiling the possible future needs of the client for additional living space," says David Lowe.
The dramatic roof evokes the spectacular alpine vistas of the surrounding Remarkables, whilst maximising the views of the lake and mountains from every room in the house.

The detailing and finishing in this home is a particular point of pride and the work of builder and master craftsman Ian Rutch and his two sons Dion and Simon. Denis, as manager of the Hermitage, has had considerable experience with a variety of trades and specifically chose Ian to build his home. "I needed not only a builder whose skills I could rely on but also a person I could trust to manage the project in my absence," say Denis. "Ian has done a magnificent job and his attention to detail has been beyond my expectations....which is not easy I might add. This is the second home Ian has built for me which is a measure of the confidence I have and importance I place on his skills".

The Lakeside Estate and Queenstown area has some very tight building specifications related to the acceptable usage of various materials. The primary rationale being that the material and style of any building should be complementary to the alpine landscape. The Queenstown weather with high snowfall and extremes in temperature from winter to summer influence both the design and choice of material. The steep pitching roof is both aesthetically pleasing and practical. Gerard Textured Coronashake was the first choice of roof cladding which provides the necessary protection, was lightweight but strong, allowing for freedom in design concept, and was in harmony with the surrounding landscape. The textured onyx shake has a subtle shadowed profile which blends well with the changing mood of the Remarkable range linking the building to the environment. The natural Gibson Valley Stone, Totara, Cedar, Larch and Coronashake are all complementary blurring the distinction between building and nature.

This is certainly a home the Callesens can be proud of but it also stands as a testimony to the skills of designer, builder and owner working together to achieve a superb result.

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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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