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D&H FIRST TO EARN NEW SITE ERECTION CERTIFICATION

After Steel Construction New Zealand extended its industry-led quality scheme Steel Fabrication Certification (SFC) to include a site erection module, D&H Steel was the first company to become certified, having been independently audited to satisfy the requirements.

Structural steel rigging is a critical component of the construction sector, providing essential bolting and site-welding services that are integral to the completion of building projects. It is a highly specialised field that requires expertise, precision and adherence to strict standards.

The erector endorsement is a natural step in SFC's development, formally recognising the end-to-end project management that New Zealand's structural steel contractors typically provide, along with the skill and experience it demands. This latest enhancement makes the industry even more accountable for the execution and delivery of a completed, compliant structure.

D&H Steel Managing Director Wayne Carson says it was never a race to be the first company to become certified. "When the endorsement was introduced as an extension to the existing SFC quality scheme, we decided to go for it straight away. We already had robust and trusted

practices in place, and highly skilled and experienced people, and D&H has always considered itself a leader in the industry," says Carson.

He explains that the erector endorsement is important as it is designed to promote and reward best practice in the on-site activities associated with structural steel.

Carson says that structural engineers and council building officials are looking for evidence that steel erection is meeting the standards. "It's important to provide assurance to the market that our capabilities are fit for purpose and achieve the level of compliance the wider industry is looking for.

"We are very proud to have achieved this certification. We hope that, in leading by example, we can inspire the rest of our industry to step up as well."



STEEL CONSTRUCTION

— since 1972 —

TERMINAL VELOCITY

Auckland Airport's new domestic jet terminal building is Auckland's biggest private infrastructure project and is a huge boost to the local construction industry. D&H Steel has been appointed by Hawkins to deliver approximately 5,000 tonnes of structural steelwork for the \$2.2 billion programme of work.

This next major phase of Auckland Airport's terminal integration programme involves expanding the international terminal further to the east to construct the new domestic jet terminal.

Featuring new headhouse facilities – containing the domestic arrivals and baggage pick-up area, traveller amenities, operational management

spaces, airline lounges and dwell spaces, plus a state-of-the-art baggage system – and a 240-metre-long gate pier, the new building will deliver 44 percent more processing space for passengers and 26 percent more airline seat capacity. A key highlight for travellers will be a short indoor walk between domestic jet services and international flights.

D&H has been engaged to complete the steelwork for the north and south headhouse facilities.

The north headhouse will feature a large, open space, which will be achieved with a long-span roof held up by circular hollow section

(CHS) columns. The roof itself will comprise a series of primary trusses approximately four-metres deep, which will support an array of lighter secondary trusses. This design not only minimises the number of columns or structural support at ground level but will also create a roof space to accommodate various services and maintenance platforms.

The south headhouse will be a more traditional two- and three-level structure, with a roof supported by large 762mm-diameter CHS columns featuring ring-plate collar connections. These connections will support the beams and provide moment-frame action for lateral stability. Each column for the structure makes a pre-dawn journey on the back of a D&H truck, from its West Auckland workshop to the Airport site.

D&H has been busy on the Airport job since late last year: a 50-strong fabrication team has been working two 10-hour shifts to prepare 1,600 tonnes of column steel and another 3,000 tonnes of associated steel structures such as floor beams, lift shafts, roof structures and façade support for the initial stage of construction. During the construction of this next phase, more than 200 D&H employees will work on various aspects of the project.

In September 2024, Auckland Airport signed a key contract for approximately \$800 million with Downer Group subsidiary Hawkins to manage the construction and delivery of the domestic jet terminal building, the most significant element in the Airport's ongoing upgrade.

D&H has a long history of working with Hawkins and has delivered numerous large projects together. "We're looking forward to working together once more and helping to ensure the project's overall success," says D&H Steel General Manager Richard Hine.

The structural steel contractor also has a longstanding relationship with the Airport. "Auckland Airport has





FAST FACTS

- 92 structural steel columns during the first phase of the build
- 190 in total across the new terminal
- Weighing up to 12 tonnes, the columns stand up to 21 metres tall
- 30 percent of the terminal integration programme has been completed

had a near 40-year association with D&H Steel Construction, with the company having worked on most of our major projects,” says Auckland Airport Chief Infrastructure Officer Susana Fueyo Suarez.

“It gives us a deep understanding of the challenges of working in and around a live airport environment,” says Hine. “We are well-placed to add significant value and manage the project’s complexities to ensure a successful outcome.”

Fueyo Suarez says jobs on site are expected to peak at the end of 2027. “But a project of this scale creates a ripple effect right across

the construction industry, supporting hundreds more jobs and businesses and providing a steady, secure pipeline of work.”

Hine says the new domestic jet terminal is a significant project to be part of. “Not just for Auckland Airport, but for the growth and development of our city. It comes at a time when the wider construction market is struggling with local economic challenges and a shortage of work being delivered.”

Construction of the domestic jet terminal follows enabling works for the project, another package of work in which D&H has been involved.

The new terminal is expected to open to the public in 2029.

PROJECT TEAM

General Manager, Richard Hine; Project Manager, Sam Wells; Estimator, Jamie Moxon; QS, Tejinder (Happy) Kumar; Site Manager, Kyle Finch; Detailers, Wayne Peachey, Wendy Sang, Billy Mougari and Jaeya Ibanez.

Opposite: The first 20m-high columns being erected in the south-east corner of the domestic jet terminal.

Above: The columns are fabricated and welded in rotating jigs. Chad Ray checks the 120mm-thick base plates.

D&H STEEL PROJECTS RECOGNISED FOR MULTIPLE INDUSTRY AWARDS

D&H Steel was proud to have not one, not two, but three projects selected as finalists in Steel Construction New Zealand's (SCNZ's) Excellence in Steel Awards 2024, with one project going on to win its category.

The annual Awards celebrate excellence in the field of steel construction. D&H's inclusion as a finalist is a reflection of its people's commitment to teamwork, best practice and innovation.

"We are always proud of the projects we put forward for the SCNZ Excellence in Steel awards; their success is a reflection of the dedication and expertise of our outstanding team. Upholding the 'D&H Way', we strive to meet the highest standards of safety, quality, delivery and performance."

WAYNE CARSON

Managing Director, D&H Steel



Above: Members of the D&H Steel team accepting the award for the University of Auckland Recreation and Wellness Centre, winner of the Over \$3 Million category, at the 2024 SCNZ Excellence in Steel Awards celebration.



SCNZ

CATEGORY
FINALIST
2024

FINALIST

Under \$500,000 category - Feature Eyebrow

The second in a 'family' of veiled office and warehouse developments on Landing Drive for Auckland Airport, the main features of this project are vertical louvre fins above arch-shaped lintel plates and the curved, helical fascia. These elements give impressions of 'eyebrows' and 'eyelashes' and, together, form the sculptural façade for the striking office building.

D&H collaborated with JWA Architects and structural engineer Day Consultants on the design. To address its complex shape, composed of segments from two oblique cones, the team devised a more economical method to realise the architect's vision. This included rationalising the geometry, eliminating the biaxial curves in the eyebrow and simplifying the fabrication, bringing the cost back within budget.

PROJECTTEAM

General Manager, Richard Hine; Estimator, Jamie Moxon; QS, Tejinder (Happy) Kumar; Site Supervisor, Jeremy Phillips; Detailers, Mike Thompson and Guy Jamison.



SCNZ
CATEGORY
FINALIST
2024

FINALIST

Over \$3 million category - Project Maunga

The new east-wing building at Taranaki Base Hospital is part of a \$403 million hospital rebuild known as Project Maunga Stage 2. The 20,000sqm, six-storey building will be the new home for the hospital's acute services, which are currently housed in old, earthquake-prone buildings.

As an early subcontractor involvement partner on the project, D&H was able to address matters of value and risk related to buildability with the aim of delivering best-for-project outcomes. Buildability was considered during the design phase, increasing simplicity and repetition, and reducing complexity. For example, adopting standard collar details, regular grid layouts and a consistent structural system, all contributed to more efficient fabrication and construction processes.

PROJECT TEAM

Estimator and QS, Ethan Blyth; Project Manager, Desmond Knowles; Site Supervisor, Dion Korewha.

SCNZ
CATEGORY
WINNER
2024

WINNER

Over \$3 million category University of Auckland Recreation and Wellness Centre

D&H was engaged on an early subcontractor involvement basis a full two years prior to construction. It provided input during the design stage of the substantial new facility, which comprises eight levels with a 3,600sqm footprint. The vertically stacked amenities include an underground swimming pool, sports halls, elevated running track, fitness studios, rooftop outdoor plaza and turf field.

The expansive open spaces needed for these amenities were achieved through innovative structural steel solutions, totalling 6,000 tonnes. These include striking exposed perimeter diagrid column frames made from 900mm x 40mm plate-fabricated square hollow sections, impressive five-metre-deep and 36-metre-long-span trusses, 1,200mm-deep fabricated box girders and 700mm-deep composite cellular secondary floor beams.

PROJECT TEAM

Estimator, Mark McKeown; Project Manager, Sam Wells; Site Supervisors, Kyle Finch and Matt Sinclair; Detailers, Guy Jamison, Sue Lemmens, Wendy Sang and Maryam Nasrollahi.



BROWNFIELD REVIVAL AT SCALE

Two new industrial facilities on neighbouring sites in Mt Wellington, comprising three separate warehouses, marks a large-scale rejuvenation of a brownfield industrial site in the area. Supporting the successful delivery were Haydn & Rollett and D&H Steel.

The project at 30 Bowden Road involved replacing eight existing buildings with two large, new warehouses for incoming tenants Tokyo Foods and Daikin. The first warehouse is 7,800sqm and includes a two-storey office; the second warehouse is 11,000sqm and includes a breezeway and a two-storey office.

The warehouse for Tokyo Foods also involved installation of a 2,000sqm internal freezer, which is supported by steelwork at several interfaces. “The freezer system and steel support are designed to allow easy removal should the tenant leave in the future,” says Haydn & Rollett Contracts Manager Richard Powell. “This add-in, add-out setup highlights steel’s versatility for futureproofing options.”

The project at 100 Carbine Road for FMI comprises a new 13,000sqm warehouse with a canopy and single-level office. It involved the demolition of an existing structure and integration with an adjacent building, which Haydn & Rollett delivered several years earlier for the same client to house its glass manufacturing facility.

“There is a massive interface down one entire side of the building where it connects to the adjacent and operational stage-one warehouse, which posed a challenge,” says Powell. Haydn & Rollett worked closely with D&H to refine details for the access and connection points, while mindful of minimising disruption to the glass manufacturer’s operation.

Both assets have been built for long-term property owners that understand the need for buildings to adapt to different tenants’ requirements over time, explains Haydn & Rollett Managing Director Kim Barrett. “They may invest more upfront for that versatility, but it ensures the asset remains adaptable as tenants come and go.”

It is one of the reasons that most of Haydn & Rollett’s buildings are structural steel. “It offers strength, large open spans and versatility; steel has the ability to futureproof factory operations,” says Barrett.

As Haydn & Rollett’s projects increase in complexity and risk, it prefers to mitigate these challenges through early involvement of the right expertise. Accordingly, it has long enjoyed a close partnership with D&H Steel.

Haydn & Rollett has worked with D&H on many big, complex projects, some during the early stages, recalls Barrett. The steel contractor regularly advises on buildability and potential cost savings.

“Also, when we’ve had a high-escalation environment, they would advise us when we should secure materials at different points to ensure the best outcome for our clients. It is a very hands-on control of risk, rather than just sitting back and letting things play out,” says Barrett.

“It has always been an open, inclusive relationship, and involving D&H early allows them to add significant value to our design, delivery and processes,” he says.

“We don’t tender work – we work for repeat clients on an open-book basis. So we’re only there because we add value. D&H is a big part of our ability to add value to our clients.”

KIM BARRETT
Managing Director, Haydn & Rollett

PROJECT TEAMS

Bowden Road: Detailer, Wendy Sang; Site Supervisor, Matt Sinclair; Project Manager, Colin Ross; QS, Shabbir Rajkotwala.

Carbine Road: Detailer, Petrus Barkowitz; Site Supervisor, Jordan Brown; Project Manager, Colin Ross; QS, Tejinder (Happy) Kumar.

AIMEE FISHER – IN PURSUIT OF EXCELLENCE

Alongside sister company Clearwater Construction, D&H Steel is a proud sponsor of world-champion kayaker Aimee Fisher (AF), the current K1-500 world-record holder. D&H caught up with Aimee, back on home soil following her gruelling Olympic campaign, to chat about her experience of the previous 12 months, and discover what's next for the dedicated and talented athlete.

D&H: How does it feel to be back home again?

AF: It is so good to be back. We were on the road for four months, living out of a suitcase and moving from location to location. It was incredible to be training in Europe during the summer, but I really missed home; I missed my people and my support network. It's been an adjustment, but it feels great to be back in my community again.

The year 2024 was a year of highs and lows for you – what's next?

Paris was heartbreaking. I put so much into it and I really believed that I could do it [win gold]. During that initial period after the games, I was trying to decide what's next for me – was it time to move on with my life and pursue other avenues?

Since I've been back, I have been busy working with kids, teaching and coaching, and being involved in the community – something I'm passionate about. It's the pathway I see beyond kayaking and it is truly rewarding.

I am also still passionate about finding out where the limit is for the female body. Setting the world record at 1:46:2 in Hungary last year was awesome, but I still have this fire burning to go 1:45; it's always been my dream. So, I'm back in the boat, slowly building up and looking to push again.

Describe your lead-up to setting the world record.

I treat this dream like a 24/7 job. Every decision I make is weighed against how it impacts my performance and recovery, knowing I have to be ready for the next session. In this environment, every session – every stroke, every lift in the gym – matters. It's all-consuming.

In the 12 months building up to the record, I was training about 15 times a week. I'd wake up at 5:00 in the morning, be on the water twice a day and in the gym in the middle of the day.

It's a full-time pursuit. I set an expectation for myself that no matter how my day went

or how I felt, when I showed up to training I had to give 100 percent, nothing less.

What keeps you interested?

It's that pursuit of excellence day in, day out; trying to be better than yesterday. That's what I love so much about it – constantly growing, being stretched to the limit and discovering where the new limit is each day.

What advice would you give to someone in pursuit of excellence?

It's about moving forward: give your absolute best effort, be the best version of yourself and commit fully to your goals.

How important has D&H and Clearwater's support been to you?

When I was outside the high-performance system trying to run a world-class campaign on my own, I sat down with Mike [Sullivan] and told him I wanted to be the fastest woman paddler the world has ever seen. At that point I was up against all the odds, taking a path less travelled, but D&H and Clearwater were willing to stand with me and help me pursue my dreams. To have a team like that with such belief and passion in my corner is more than I could ever have asked for.



- + Project Management
- + 3D Modelling & Shop Drawings
- + Fabrication
- + Protective Coatings
- + Site Management & Erection

D&H was the first steel constructor in NZ to be awarded this International Quality Accreditation. We comply with ISO 3834 for the benefit of our clients.



ISO 3834 Part 2
Certificate No. 001NZ/2014

We were also the first to acquire Steel Fabrication Certification - a quality management system under the auspices of the IIW (International Institute of Welding).



We manufacture all the commonly specified welded beam and column sections and provide a free design service for optimised, tapered portal frames. Our custom welded beams are made from G350 steel and welded on both sides.



HEALTH & SAFETY FOCUS

D&H Welder Vince Naime recently received a well-earned safety award for his role as a PPE (personal protective equipment) champion, consistently reminding and encouraging staff to wear safety glasses, use welding fume snorkels and follow safe practices when operating cranes.



L-R: General Manager, Richard Hine; Workshop Manager, Cameron Rogers; Senior Welder, Vince Naime; Welder, Jose Mirandilla; Fabricator, Dharminder Singh.

NEW STARTERS



Dirk de Vos has 16 years of construction experience and a degree in construction management. He is passionate about expanding his skills in estimating, quantity surveying and project management.



Yuki Zhang spent 10 years teaching mathematics in China before moving to New Zealand, where she worked as an export specialist for several years. Now six years into a career in quantity surveying, she is thriving in a supportive team and eager to keep learning and growing in the field.



Billy Mougari joined D&H Steel straight out of high school, spending nine months in the workshop learning welding and fabrication before gaining six months of site experience. He is now working in the office, training to be a detailer.



Meghin Joseph is a mechanical engineer with more than 12 years' experience in quality assurance and quality control, specialising in the oil and gas sector and structural projects. He joins D&H Steel as a QC inspector. Meghin enjoys exploring new places, watching good movies, and seeks fresh experiences.



Phone one of our team today. We'd love to hear from you.

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Managing Director

Richard Hine – 022 032 6622
General Manager

Dean Pouwhare – 021 523 788
Operations Manager/Director

Cameron Rogers - 021 835 950
Workshop Manager

Mike Thompson – 021 526 102
Detailing Manager

John Frederickson – 021 534 435
CWB Manager

Colin Ross – 021 422 819
Project Manager

Desmond Knowles – 021 526 008
Project Manager

Salam Arif – 022 175 8935
Project Manager

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