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+ PERFORMANCE



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STILL GOING STRONG

D&H Steel and Westfield partner again

Nearly 20 years on from D&H Steel first working with the owners of the Westfield Shopping Centres, now known as Scentre Group, steel construction work is well underway at Westfield Newmarket's huge 309 Broadway development, adjacent to the 277 Broadway site.

D&H Steel General Manager Wayne Carson says the development – Westfield's largest project in New Zealand – requires a large team of D&H workers deployed on site.

"It's a significant project, so we have a dedicated team looking after the job, led by Contract Manager Richard Hine and Site Manager Nick Yakas, a large detailing team and five erection crews."

D&H Steel has worked on a range of major Westfield mall developments in the last two decades, including Albany, St Lukes,

Pakuranga and Manukau in Auckland, Riccarton in Christchurch and Queensgate in Wellington.

The project's Contract Manager, Richard Hine says the sheer scale of the Newmarket job and tenant demand means that change management is a fundamental challenge where D&H Steel has huge expertise.

"Our role is to be constantly and thoroughly proactive in terms of providing fast responses and innovative solutions for any variations that Westfield pose to us," says Richard.

With Scentre Group being both the main contractor and building owner, any opportunity to fast-track schedules to enable earlier access for tenants is a factor that D&H understands well, after its longstanding relationship with the company.



"We understand this business model well and recognise that tenant relationships are a high priority for Westfield. Our own relationship with them over nearly 20 years has been built on a foundation of mutual respect and trust, and the fact that we understand what they need from us in terms of bringing resolutions when things change."

RICHARD HINE
Contract Manager, D&H Steel



STEEL CONSTRUCTION

DRIVING VALUE

A classic case of D&H Steel's value engineering approach delivering great results is a major car park construction project at Sylvia Park. Frankie Walkington, Construction Manager for Naylor Love says D&H Steel's proactivity during the early contractor involvement (ECI) stage contributed to the opportunity for the car park to have an additional level added, opening up more parking space.

"Throughout the project D&H Steel showed impressive proactivity around enabling value engineering. We worked closely with Detailer Pieter Ellis, Operations Manager Dean Pouwhare and General Manager Wayne Carson who, through a collaborative team effort with our project engineer, turned shop drawings around quickly. We put a lot of pressure on D&H Steel to meet our tight timelines, and they helped us re-sequence a couple of potential project delays to finish within deadline."

D&H Steel contributed to a design alternative that substituted precast double tees with optimised custom-welded primary beams, secondary beams and ComFlor. Frankie says the demand in Auckland on the precast yards, combined with the logistical difficulty of transporting the 17m-long structures via trombone trucks and craneage added further practical obstacles and pressure to a tight delivery window given that Sylvia Park was still fully operational.



"The challenge was that the site was enclosed by other existing structures on three sides, with only one elevation close to the main ring road, so logistically the 17m double tee's erection would have come with greater difficulty.

"By D&H showing great initiative in the ECI process, we were able to go back to the client with a value-engineered option that produced some cost savings and the opportunity to add an additional floor of parking that, for an establishment like Sylvia Park, is obviously a premium asset."

The result is a five-level car park comprised of four suspended floors and a ground floor, with around 500 car parking spaces over approximately 20,000 square metres.

"D&H Steel's performance was commendable and reflective of the strong working relationship Naylor Love has had with them over the years. They're definitely one of the industry leaders and I'm pleased with the strong relationship we have with each other."



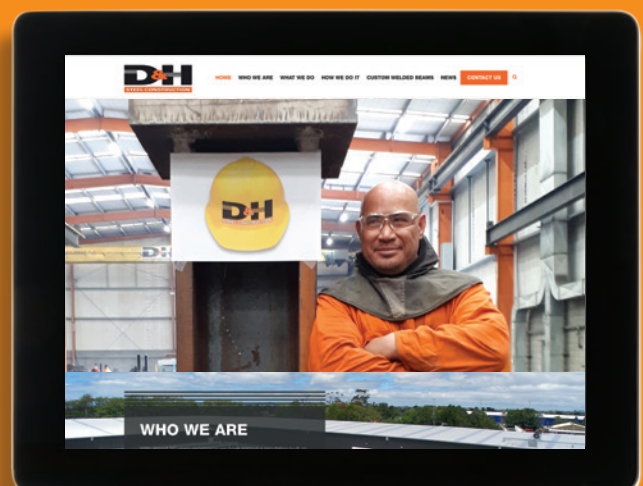
FRANKIE WALKINGTON
Construction Manager,
Naylor Love

D&H LAUNCHES NEW WEBSITE

CHECK IT OUT TO WIN PRIZES!

D&H Steel has launched a brand new website which offers a modern platform for our customers to keep up-to-date with our work and services. Built by Zeald, the new website is faster, responsive to many devices and is focused on delivering rich content for visitors.

We have a special prize up for grabs for one lucky visitor to the new website – visit www.dhsteel.co.nz and take a short online treasure hunt across the pages to find a hidden image of Vinnie Naime standing next to a yellow hat. Click on the yellow hat in the picture and you'll go in the draw to win a \$200 food and beverage voucher for MASU Japanese Robata Restaurant and Bar, SKY CITY.



GETTING THE MOST OF THE COAST



Comfort zones were stretched, personal bonds were forged and emerging leaders shone when nine hardy D&H Steel teams competed in the 2018 iconic Coast to Coast multi-sport event in the South Island in February.

D&H Steel Managing Director Mike Sullivan commended the growing commitment of the staff and support teams who participated, marking the third year D&H Steel has entered individuals or teams.

"When we started three years ago, there were only a few of us who did it to gauge the event as a company-wide opportunity. Our numbers have grown progressively since then as we've actively encouraged involvement.

Mike applauds the competitors, many of whom put in an immense amount of training, and the invaluable support crews backing their colleagues and family.

"It's been amazing to see the fully inclusive, collaborative efforts of both athletes and support crew. Getting 30+ people to Christchurch and across to the West Coast in campervans is no mean feat, all before prepping our athletes for the event itself."

Mike says the intensity of the race has boosted team morale for those involved.

"It's easy to talk about team bonding, but you need something that truly challenges a group to see the best that can come out of them. When you see people outside of their office environment, in these sorts of conditions, you learn so much more about people – different skillsets and strengths come to the fore.

D&H Steel's 40 Coast to Coast competitors, support crew and family overnight in 15 motorhomes at Klondyke Corner in the middle of the Southern Alps at the head of the Waimakariri River.

"Throughout the process, we emphasised that teams will only achieve success if they get the weakest team member across the finish line. We managed to do that, and it was amazing to see the team bonding unfold as people grew their respect for each other – I got a real sense of pride witnessing people out of their comfort zones and evolving as a result.

PUTTING IN THE HARD YARDS

D&H Steel Detailer Alisha Groves completed the 72km kayak leg of the race and says there's 'something really special' about D&H Steel's active encouragement and ongoing support to compete in the event.

"It's not only an opportunity for individual goals, it also builds a sense of community and camaraderie across the company.

"The training commitments were gruelling and start at least three months before the event (some as early as six months out). With the demands of our day jobs and juggling family commitments, it was incredibly satisfying to make it over the finish line."

The level of training depended on individual competitors' level of experience and whether they were participating in the running, cycling or kayaking – or a mixture of both. The technical demands of the kayaking discipline meant that teams met over three weekends for coaching and training, plus multiple trips to Mohaka River near the Hawke's Bay. "That training time in itself was a team building exercise," says Mike Sullivan.

He says the running component, too, was physically demanding.

"Running on the goat tracks felt more like an obstacle course than a straight-forward run."

PARK HYATT TAKES SHAPE



Park Hyatt Auckland, the 195-room, five-star luxury hotel under construction in Wynyard Quarter, has had the last of its roof trusses installed. It has taken 12 months to complete the steelwork with over 90,000 manhours and 67,000 pieces of steel.

The D&H Steel office and production team viewing the roof structure at a site visit to Park Hyatt Auckland.

OUT WITH THE OLD

The growing need for seismic assessments and compliance is leading to building upgrades and redevelopment opportunities across Auckland, says D&H Steel General Manager Wayne Carson.

“We’re seeing a trend where, upon the need to undertake a seismic assessment of a building, the building owner takes the opportunity to extend that asset by going higher and wider,” he says.

“There is much greater demand for compliance from councils than there was years ago when things weren’t so stringent. It’s a quickly moving issue and affects everything we do. For the construction industry, compliance has become the new ‘leaky building syndrome’ – it’s a huge factor these days.”

The result of the compliance crackdown is that existing buildings are growing

their revenue through redevelopment opportunities, with D&H Steel providing steel for a range of jobs.

The recently opened Four Points by Sheraton, a five-star, 255-room hotel at 396 Queen Street near Aotea Square, posed a few challenges for the D&H Steel project team who had to navigate tight spaces at great heights. The 18-storey building required 130 tonnes of structural steel, with four extra floors and steel core added on top of the existing building.

Working with Dominion Constructors, D&H Steel Site Supervisor Matt Sinclair says there was ‘no room for error’, with staged demolition and steel beams moved by crane as construction progressed.

Meanwhile, a project on 34 Sale Street that transformed an existing building into commercial offices with retail space below has recently been completed.



The redevelopment involved adding a fifth level and new roof top, plus seismic strengthening that required the removal of old ramps and fitting angled K braces into the existing concrete. D&H Steel supplied and installed all structural steel elements, including an architectural design feature with exterior steel fins.

Peter Hamblyn, Site Manager with Dominion Constructors praised D&H Steel for its ease of doing business.

“It makes life easy for us as builders to know we’re working with a company such as D&H Steel, when they say they can do something, they do it,” says Peter.



“We had to demo as we went and build the core section, including the lift shaft, using a 300-tonne crane sitting at ground level. We were working within an enclosed, scaffolded site with no room other than the erection space. It was one of the most technical jobs I’ve worked on.”

MATT SINCLAIR
Site Supervisor,
D&H Steel

UNIVERSITY STEEL TESTING

D&H Steel has contributed fabricated structural steel to students at the University of Auckland’s School of Engineering to aid experimental testing on new joints and connections. D&H Steel General Manager Wayne Carson says the donation is one way that the company can support New Zealand’s emerging engineering talent and educate them about the use of structural steel.

“Those of us who went along got a real sense of helping to promote the science of steel for the greater good of the wider

steel industry,” says Wayne. The student-led testing involved trials of different welding styles to grow their understanding of steel connections.

“The testing has been excellent and provides strong verification that the proposed weld sizing provisions are adequate,” says Dr Charles Clifton from the University of Auckland.

(L-R) John Frederickson, Mike Thompson, Wayne Carson, Richard Hine, Cameron Rogers, Dr Charles Clifton (UoA), Hafez Teheri (PHD Student), Dean Pouwhare, Dr James Lim (UoA), Dr Michail Karpenko (HERA) and Dr Troy Coyle (HERA).





STAIRS TO SUCCESS

A helical staircase at the B:HIVE co-working office in Smales Farm, Takapuna has received the special D&H Steel touch. Contract Manager Colin Ross says the project was a classic case of value engineering involving invaluable D&H Steel skills right from the stage of feasibility studies.

“The B:HIVE stair was a complicated brief in that it had to be designed as cantilevered stair flights, self-supporting between each of the five floors and also had to be earthquake resistant.”

The stair was fabricated in seven sections, due to transportation, geometry and buildability. “No two sections were alike,” says Colin.

“The intricate geometry involved a great deal of value engineering, ‘head scratching’ and detail development to meet the demand of accuracy and tight tolerances during fabrication.”

Colin says D&H Steel also changed the distribution and type of welded joints to minimise distortions and reduce costs.

“Due to our involvement at tender stage, we were able to offer a more practical solution by suggesting ‘faceted curves’ for all the

stringers and soffits. Due to the whole stair being ‘wrapped in timber’ and not being visible, it negated the need for smooth, expensive and difficult helical rollings.”

D&H Steel also designed and provided a standalone propping system to aid stability and precision during installation, with built-in site adjustments to cater for differential settlement of the finished floors.

The project was a huge success and D&H Steel’s contribution was lauded by the client, architect, engineer and main contractor. It is an eye-catching, vibrant feature staircase for the B:HIVE Atrium and a talking point for visitors.

D&H Steel Detailer Wayne Peachey did the 3D graphic modelling and detailing, with Isaac Rankin undertaking the fabrication and site installation, and Colin Ross coordinated with Stuart George at BGT Structures, David Smale at Smales Farm and Glenn Irwin at Jasmx/BVN and the team at Leighs Construction.

“The B:HIVE stair was a complicated brief in that it had to be designed as cantilevered stair flights, self-supporting between each of the five floors and also had to be earthquake resistant.”

COLIN ROSS
Contract Manager, D&H Steel



ISAAC RANKIN
Fabricator & Installer,
D&H Steel

- + 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 Fabricator 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 CWBs are made from G350 steel and welded on both sides.



D&H STEEL STAFF SPOTLIGHT

DARYL WARREN CONTRACTS MANAGER

Daryl is a Kiwi returning to Auckland after living in Queensland for 12 years. He has over 20 years' experience in the steel construction industry and has managed fabrication businesses on both sides of the Tasman, delivering successful outcomes on numerous major commercial and government projects. Daryl is a bit of a petrol head and enjoys driving V8's and dabbling in drag car racing.



JODY GOMES WELDING INSPECTOR

Jody moved from South Africa to New Zealand about 12 years ago and was initially employed as a fabricator/welder. Subsequently, he went on to further his studies at HERA as a welding supervisor then welding inspector and has recently joined D&H Steel as a QA Inspector.

"Since arriving in New Zealand, I have settled into the Kiwi way of life, got married and I now have three beautiful kids that keep me busy." Jody also enjoys music and tries to fit in fishing in his spare time.



DEB RUGAAS DOCUMENT CONTROLLER

Deb returned to join the D&H Steel team in October 2017. Originally she worked for D&H Steel doing document control from 2008-2011 and left to travel overseas where she continued doing document control on a larger scale. After meeting her husband and having their daughter, Deb decided to return to New Zealand to be closer to family. When the opportunity came up to re-join D&H Steel, Deb says it felt like a natural decision. "It's nice to be able to use the skills I learnt and apply them to our systems and processes here and it's great to be part of D&H Steel again!"

DARRYL MORRISON STEEL DETAILER

Prior to joining D&H Steel, Darryl worked as a structural steel detailer in South Africa, specialising in mining and industrial-related structures. He is married with a baby daughter. "We moved to New Zealand in February and we're really enjoying life here. Outside of work my wife and I are into cycling, mountain biking and trail running - there are lots of great locations around Auckland for these activities."

Mark McKeown (left) presents Darryl Morrison his prize for drawing France to win the Football World Cup.



Phone one of our team today on 09 839 7250. We'd love to hear from you.

Wayne Carson – Ext 205
Director/General Manager

Dean Pouwhare – Ext 217
Operations Manager

Mike Thompson – Ext 204
Detailing Manager

John Frederickson – Ext 219
CWB Manager

Richard Hine – Ext 225
Contract Manager

Colin Ross – Ext 237
Contract Manager

Daryl Warren – Ext 236
Contract Manager

Jennifer Toleran – Ext 225
Document Controller

Mark McKeown – Ext 206
Estimating

Jamie Moxon – Ext 215
Estimating

Kevin Thomas – Ext 210
Purchasing Manager

Adele Hikuroa – Ext 212
Accounts