



Update . . .

D&H Steel Awarded International QA Accreditation



D&H Steel Construction Ltd has become the first New Zealand steel constructor to be awarded an internationally recognised Quality Assurance accreditation. Known as AS/NZS ISO 3834, this powerful production management system sets stringent standards for materials traceability and elevates the criteria for welding compliance.

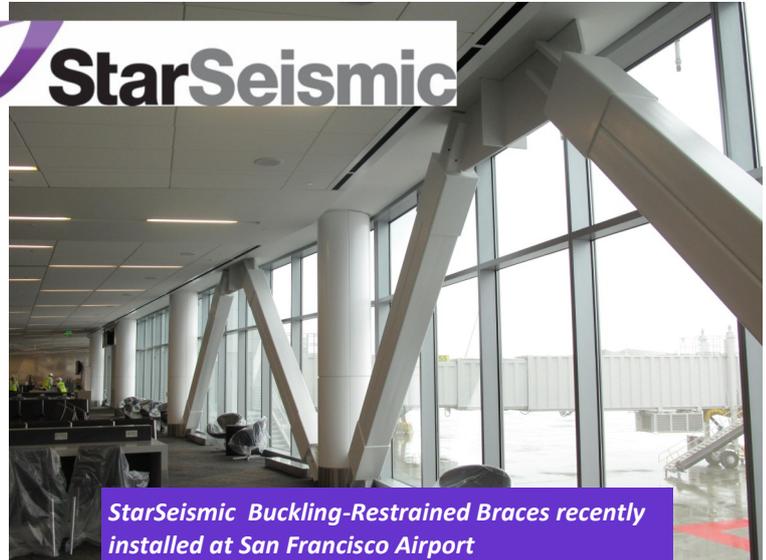
The accreditation follows months of rigorous implementation of quality control procedures leading to a final audit and the issuing of a certificate of compliance by the New Zealand verifying body, NZ Heavy Engineering Research Association (HERA). The certificate was presented by the HERA Director, Dr Wolfgang Scholz, to D&H's General Manager Wayne Carson, who said: "Implementation of ISO 3834 is a detailed process and requires a focused effort, but we are willing to pass on what we have learnt to help the industry achieve the same goal. What better way to underline our value proposition by putting quality and reliability at the very centre of what we all do!"

Left to right: Alan McClintock, Senior HERA Welding Engineer; Dr Michael Karpenko, Manager HERA Welding Centre; Dr Wolfgang Scholz, HERA Director; Wayne Carson, D&H Steel General Manager; Dean Pouwhare, Operations Manager; Heath Johnston, Welding Supervisor; and Rob Purchase, Workshop Supervisor

D&H Steel now licensed to manufacture top brand



"We are pleased to announce the signing of our licensing agreement with U.S.-based StarSeismic," says D&H Engineer John Frederickson. "We know that this brand of Buckling-Restrained Braces is thoroughly tested and proven to improve earthquake protection for buildings. We believe it will now be rapidly deployed in New Zealand in both new construction projects and in retrofitting existing buildings that are at seismic risk. Because we can manufacture BRBs locally, there is a considerable reduction in lead times and freight costs."



StarSeismic Buckling-Restrained Braces recently installed at San Francisco Airport

Progressively Achieving I



Welding Supervisor Heath Johnston (on the right) with his team of welders have every right to be proud of their ISO 3834 certificate because they have worked so very hard to earn it. A glance at the Quality Assurance Inspection and Test Plan shows the rigours of their journey, from Heat Numbers and Steel Mill Certificate for Material Traceability, to inspection and documentation throughout the fabrication process for Weld Traceability. Each welder's ID is hard-stamped on every weld he does. Reports from independent weld tests are matched with Weld Maps on Assembly Drawings. The Welding Quality Control Summary is the ultimate



D&H helps The Warehouse extend its main Distribution Centre . . .



This is the backbone of the company's nationwide operations, distributing general merchandise to 57 stores and deploying consumables and apparel to 89 in total around New Zealand. "For this extension," says D&H Rigging Foreman Eric Birch, "we provided and erected the steel-work for an internal area of 24,300m² with a further 2,700m² under canopy. I believe Naylor Love was pleased it went well."

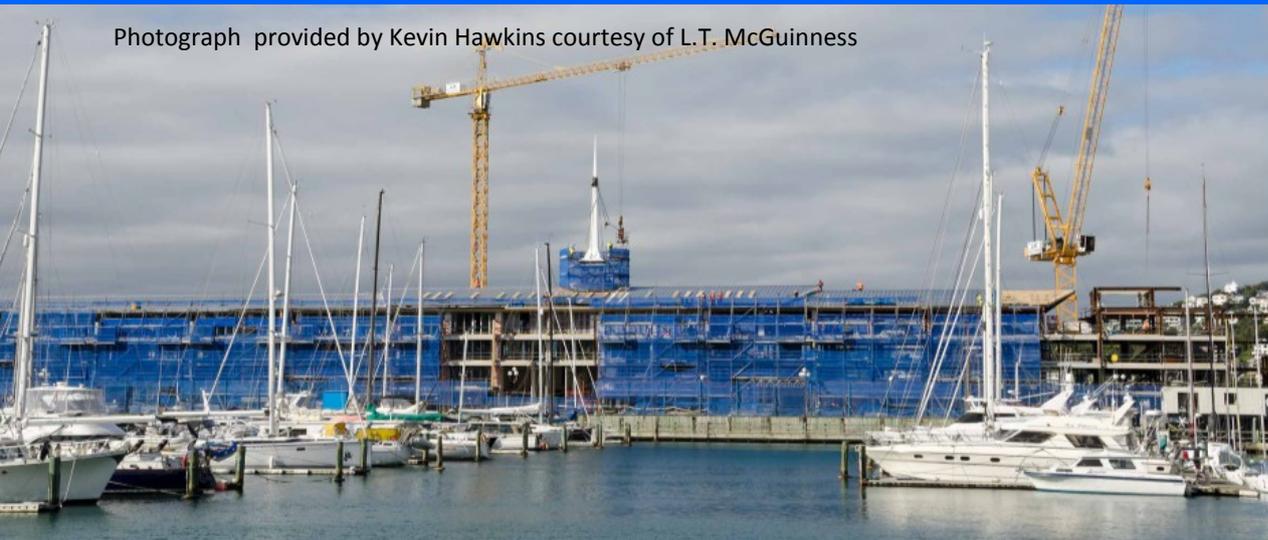
. . . and completes another extension in record time for Freight Properties.



Dominion Constructors was the main contractor on a very tight programme. Starting on March 17, 11,000m² of warehouse space had to be secure and watertight with 50% fully racked for loading of the client's stock to start August 23. D&H Rigging Foreman Dean Rafferty comments: "A D&H speciality ensured we met the deadline. The roof was preassembled on the ground in two large sections before being lifted by six cranes to the pre-stood steel columns. This saved time but it also reduced the amount of work done at height." Dominion's Richard Joseph said: "Thanks to D&H, we have another safe, successful project delivered on time."

Asymmetric Floor-beams for MJH Engineering and the Clyde Quay Wharf development

Photograph provided by Kevin Hawkins courtesy of L.T. McGuinness



ISO 3834 Accreditation



report on the total integrity of the work.

The journey continues through Painting and Protective Coatings, delivery to site and installation, bolting procedures and erection tolerances, paint touch-up and final inspection. With the completion of each phase, there is always the QA Documentation in accordance with the approved QA Plan.

Why go to these lengths? D&H General Manager Wayne Carson: **“The achievement of International Best Practice is about quality, reliability and safety. These are at the very centre of our value proposition.”**



An aerial bridge so that ladies in waiting aren't kept waiting!



Occasionally at Mid- dlemore Hospital, expectant mothers needed to be transferred from the Maternity wing to the new Clinical Services Building. The challenge was to provide the quickest, safest route that respected patient dignity. The solution is a series of aerial passage- ways nearly 150m in length and 12m above ground. Holmes Consulting Group did the structural design and Hawkins Construction was the main contractor. D&H Steel fabricated and preassembled the steel sections on its workshop floor, where

carpenters completed their timber framing, safe and dry.

Given the extent of the reach to lift in the sections, Hawkins's Project Engineer A-J Spicer called up a 450-tonne mobile crane. “The lifts required careful planning, because we were working above one of the busiest areas of the hospital, near operating theatres, birthing rooms and intensive care. The interface survey had to be done to a high level of accuracy so that the steel could be landed and fitted without any delays.” D&H Project Manager Colin Ross said that this was all the more remarkable since the design interfaced with five different buildings. “Hawkins Construction and D&H Steel respect each other for being meticulous. And once again, our Rig- ging Foreman Dean Rafferty and his team turned in another No-Mishaps-On-Site performance.”

in Wellington



Images provided by L.T. McGuinness

These up-market apartments had to comply with the height constraints on building close to the waterfront. Engineers Dunning Thornton designed a series of Welded Asymmetrical Beams (WABs) for the project; although heavier than a standard 310UB40 composite, the WABs allow the wider bottom flange to support the pre-cast floor unit. Thus the floor is in the depth of the beam rather than in its conventional position on top. The WABs were ultimately all encased and therefore needed only a minimal fire rating.

Because it uses state-of-the-art welding equipment, D&H was able to guarantee MJH Engineering, the lead fabricator, that the 300 tonnes of finished WABs would be consistent and true. MJH's Managing Director, Malcolm Hammond, said: “We knew we could count on the quality of the WABs supplied by D&H, but it also helped to have deliveries made in 20-tonne truck loads, as this suited the construction programme.” The main contractor, L.T. McGuinness, says the new \$150- million development is scheduled for staged completion during 2014.



Our proactive initiatives on Health & Safety

'Experience Our Strength'

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

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Commercial Manager
Mike Thompson
Detailing Manager
Colin Ross
Project Manager
John Frederickson
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Jamie Moxon
Estimator
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Kevin Thomas
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Megan Aitken
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Because good Health & Safety practice needs constant vigilance, our H&S Committee has been raising the bar. Every single accident, however small, is reported to the 12-man Committee, who then take steps to ensure a recurrence is avoided. NMRs (Near Miss Reports) are also part of this process.

Chain checks are conducted weekly by a nominated person in each section who has authority to remove any sets that have been stretched. The Committee has now merged H&S on site with H&S in the workshop, which has given employees greater mutual awareness of their respective roles.

It's the flow of information that is

vital, outward from the H&S Committee via Toolbox meetings, and inward via regular reporting. The latest initiative is the H&S Suggestion Box, with the winning entry worth a \$100 Westfield voucher. Nothing like a little quarterly incentive to encourage Health & Safety awareness.



D&H's Estimator & Quantity Surveyors Team



Jamie Moxon is the D&H Estimator, having come up through the workshop. Still in his 20s, he's shown he has what it takes for this challenging position. "I operate on the leading edge of the company's business; though I consult many colleagues, I have to make my own decisions, often with a lot at stake." Jamie and partner Chantelle have a 1-year-old son Cooper who takes them to the beach and four-wheel driving.

Even though she's always cheerful, **Josie Chan** will tell you she's no extrovert. She loves music if it's mellow — not hard rock. Likes dancing yet isn't a party person. What she won't tell you is that she's highly experienced, having worked as a QS in Singapore and Hong Kong for some very eminent companies. Next year, just quietly, will be her 10th at D&H.



Shabbir Rajkotwala comes from Mumbai and worked for Cleveland Bridge in Dubai before arriving in New Zealand in 2003. "I've always enjoyed the commercial management of projects, especially with D&H. My wife, Tesneem, and I have two children, a girl of 12 who wants to be a vet and a boy of four who says he wants to be a soccer star!"

Dan Lyall plays golf off a 10-handicap but it was cricket (seven years at Premier Club level) that took him to the UK. He learnt the QS ropes working for Cleshar Contract Services in London. On returning to NZ, he qualified and added to his experience before joining the D&H family in July this year. "D&H? Very positive attitude from the shop-floor to the top!"

