



Sean Gledhill



Position

Technical Director

Qualifications and memberships

Bachelor of Engineering (Hons) (Civil)
(University of Canterbury 1998)

MIPENZ (Member of IPENZ)

IntPE

NZSEE

HERA – non executive Board member

NZSEE – Member

HERA – Steel Research Advisory Committee

Aurecon

Building Structures Service Group Leader

Specialisation

Complex Building Structures

Years in industry

13

Sean is a Senior Structural Engineer with 13 years of consulting experience in New Zealand and the UK. Sean is a specialist in the design, documentation of building structures. Sean has strong technical skills, complemented by a wide range of consulting experience, with a significant practical via onsite experience. Sean has a passion for interdisciplinary co-ordination ensuring Aurecon's projects address key client drivers and are collaboratively delivered to ensure a fluent construction process. His technical skills include earthquake engineering with a focus on low damage seismic systems, finite element analysis, dynamic analysis, system evaluation and value engineering.

2006 – Present Technical Director – Building Structures Service Leader, Aurecon NZ Ltd

June 2004 – Jan 2006 Structural Engineer – Holmes Consulting Group

Sep 2002 – June 2004 Project Engineer JSA Consulting Engineers

Sep 2001 – June 2002 Project Engineer, Sinclair Knight Merz UK Ltd

Nov 1998 – Apr 2001 Graduate Engineer, Sinclair Knight Merz Ltd

Expertise

- Design/Project Management/Construction/Architectural Co-ordination
- Managing, controlling and communicating project change
- Design of international projects and application of numerous codes/standards such as EC8, ACI, AS/NZS standards
- Advanced Structural design, analysis and modelling with numerous packages like Strand7 (FE), ETABS, Spacegas and Microstran.
- Seismic design of Reinforced Concrete and Steel structures to New Zealand Standards
- Extensive construction experience of steel and concrete structures, major earthworks and infrastructure projects

Management Skills

- Proven project leadership skills
- Effective communicator
- Achieves “Best for Client” outcomes
- Positive relationship management skills

Awards

- NZIOB (New Zealand Institute of Building Innovator of the Year in 2010)
- Property Council – Excellence for Te Puni Student Village, 2010
- ACENZ Silver Award of Excellence Te Puni Village, 2009
- IStructE (UK) – Award for Education and Healthcare – Te Puni Village, 2009
- Connell Wagner – John Connell Award for Innovation October 2008



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Technical skills

- Planning with clients to achieve “Best for Project” outcomes.
- Structural Feasibility studies
- Cost estimation of building schemes
- Design/Project Management/ Construction/Architectural coordination
- Managing, controlling and communicating project change.
- Advanced structural design, modelling and analysis with numerous packages like Strand7 (FE), ETABS, SAP, Spacegas and Microstran, RAPT, SAFE and TEDDs.
- Conceptual and detailed development of Low damage seismic design solutions using structural steel
- General seismic design of Steel and Reinforced Concrete structures New Zealand Standards
- Knowledge of detailing of steel, concrete and timber structures using best international practice
- Design of international projects via application of numerous codes/standards such as EC8, ACI, AS/NZS standards.
- Design and build experience

Key project experience

Aurecon New Zealand Limited, Wellington, New Zealand
January 2006 till present - Associate Structural Engineer

Residential

Indo China Plaza – New Multi Storey Development – Office and Residential up to 36 Stories, Hanoi, Vietnam

Viettel Corporation – Major new 34 Storey Office and Residential Tower Complex – Ho Chi Minh City Vietnam

Victoria University of Wellington – Te Puni Student Village Accommodation Project. 40 million student accommodation project constructed in 18 months creating 389 Beds.

Te Aro Towers – New dual 13 Storey Residential Tower Complex- Wellington (not constructed)

38 Ferry Road – New Residential Apartments

Quattro Maison Apartments – New 6 Storey Apartment Complex, Newtown, Wellington

Commercial

Wellington International Airport Limited (WIAL) – new Southern Car Park

Bunnings Warehouse - Blenheim

Cobham Drive Retail Centre – New Retail Park –Wellington

399 Hutt Road – 140m long Commercial Building

75 The Terrace, two storey commercial building on top of existing four storey concrete frame building.

SCNZ – materials study project



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Sporting/Stadia

Wembley Stadium – National Football Stadium – UK

Hellenikon Basketball Stadium – Athens Olympic Games 2004.

SACA –South Australia Cricket Association –New Western Stand Roof Design

VUW Astroturf Project – Timber Bleachers Design

Correctional

Rimutaka Prison – CIE Stage 1 and 2 Redevelopments

Mt Eden Prison – Gatehouse Building Preliminaries

Department of Corrections New Zealand - Paparua Remand Unit-
Christchurch – Site Engineer

Industrial

Holcim Westport, SCL Handling Facility

Dulux, Petone – Project Firebird Complex Site Redevelopment 2007-2012
(ongoing)

Unilever - New Cyclone and Powder Hopper Installations - Petone

Tegel Foods – Site Redevelopment, Christchurch

PPCS Limited - Fairton Lambcuts Stage 2 –Major onsite redevelopment project

Lifetechnologies, Christchurch

SouthFert Timaru Depot –New Fertiliser Depot

Interior Timbers Vineer Manufacturers - Portal Extension / Rebuild Design

Libraries, Arts Centres and Government

Australian Embassy in Jakarta – DFAT – Seismic/Structural Design

Marlborough Civic Theatre Trust – Blenheim

Porirua Performing Arts Centre – In Design

Seismic Strengthening

Flinders Medical Centre, Adelaide, Seismic Analysis

Unilever – Petone , Detailed Seismic Assessment

Marshall Court, Strengthening via Rocking Wall analysis

St George Hotel, Detailed Seismic Assessment

222 Willis Street, Seismic Review

130 Victoria Street, extension and strength review

23 Hutt Road – New Storage Facility - Seismic Strengthening and
improvement of extensive 1930's Building

Coronation Hall Foxton –Seismic Strengthening



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A significant number of seismic assessment IEPs including 160 Willis Street, 10 Frederick street, Dulux, 222 Willis Street, 61 Molesworth Street, 167 Willis, St George Hotel to name a few.

