

Curriculum Vitae

Keith A. Wilson

BE MBA FIEAust MCIA MCIRCEA NPER CPEng

I am a qualified **Structural Engineer** with over 40 years of Professional Engineering experience.

My qualifications and affiliations include:

- I hold a Diploma in Technology (Structural Engineering) (with Credit), 1975
- I hold a Structural Engineering Degree (with Honours), 1976
- I hold a Masters of Business Administration Degree, 1986
- I am a Fellow of The Institution of Engineers Australia, since 2004
- I am registered nationally on the N.P.E.R. in both Civil and Structural Engineering,
- I am a member of the Civil and Structural Colleges of Engineers Australia.
- I am President and Board Member of the College of Investigative and Remedial Consulting Engineers of Australia [CIRCEA]
- I am a Member of the Concrete Institute of Australia
- I am also currently a member of the Civil and Structural Panel of Engineers Australia, Sydney Division. (15 years)
- I was the Representative for the National Structural College Board for Sydney Division, *Engineers Australia* (over 7 years in two terms)
- I sat on the Sydney Division Committee of Engineers Australia for 3 years
- I sat on the Engineering Practices Sub-Committee of the Sydney Division Committee for 2 years

Previous positions include:

- Chief Engineer *Ingal Civil Products* (previously *Armco*)
- Engineering Manager *Pilkington Curtain Wall Division*
- Technical Director/State Manager *Facade Technology* (Meinhardt Grp)
- Director (current) *Sydney Facades Pty Ltd*

A brief summary of some projects that I have successfully completed is listed in Appendix A

Façade Engineering Commissions currently undertaken are in the areas of:

- Remediation and protection of concrete structures
- Remediation and protection of brick structures
- Forensic investigations of building facade defects
- Roof and balcony membranes
- Painting of buildings
- Glass design for buildings (windows and doors, floors, roofs) and swimming pools (weirs, windows and floor panels)
- Structural design of building components
- *Expert witness in civil litigation matters (re building defects etc)*

FORMAL QUALIFICATIONS

MBA, NSW Institute of Technology, 1986 (now UTS)

BE (Honours), NSW Institute of Technology, 1975 (now UTS)

Dip Tech - Structural Engineering (Credit), NSWIT, 1974

Structural Engineering Certificate (Credit), Sydney Tech. 1969

Leaving Certificate (Matriculation), James Cook Boys' High, 1963

PROFESSIONAL AFFILIATIONS:

Member of Institution of Engineers, Australia	1979 - 2004
Fellow of Institution of Engineers, Australia	2004 - present
National Professional Engineers Register (NPER)	1994 - present
Member, Civil & Structural Panel, Sydney	1998 - present
Representative for Sydney Division, National Structural College Board	2002 – 2005 & 2008 – 2010
Registered Civil Engineer, Queensland	1980 - 1985
Registered Structural Engineer, Northern Territory	1981 - 1985
Member Concrete Institute of Australia	1997 - present
Member, College of Investigative and Remedial Consulting Engineers Australia	2001 - present
Board Member, College of Investigative and Remedial Consulting Engineers Australia	2005 – 2008
President, College of Investigative and Remedial Consulting Engineers Australia	2008 – present

Appendix A

Some of the projects that I have successfully completed include:

New and Existing Glazing

- *Malaysia Airlines Sydney Offices* concept and structural design of new glazed façade, site advice;
- *Longwood and Thornton Place, Darling Point* Window replacement programmes of high rise unit blocks
- *Wattle Street Bridge (for Sydney City Council)* survey and analysis of safety glass panelling to pedestrian bridge
- *Ryde City Council Administration* façade condition survey, remedial specifications for façade and garages; investigation and site supervision of remedial works to curtain wall façade;
- *Airport Central, Mascot* design of glass showroom walls and framing, fascia design, site involvement;
- *Car Showroom, Rockdale* specification for glass showroom walls; fascia design, site involvement;
- *Car Showroom, Toyota, Nunawading (Melb)* Design glass showroom walls, glass fins, fixings
- *Car showroom, ALTO BMW, Pennant Hills* Structural design and plans to enclose balcony
- *Glazed balcony enclosure North Sydney* Structural and acoustic design of glazing, curtain wall and acoustic wall, plans, documentation;
- *New home units block, East Sydney* Design of glass floor panels and associated waterproofing details;
- *Glass floor panels, Clontarf, Menai, Gosford and Vacluse residences* Design of glass walls and specifications
- *Mormon Churches, Ultimo & Parramatta* Complete facade refurbishment, including new steel-framed windows and new roof;
- *Park House (for Sydney City Council)* Design and detailing of glass wall panel to pools at Balgowlah Heights, Leichhardt, Mosman, Gosford, Scotland Island, Taren Point, Palm Beach, Newcastle, Watson's Bay, Illawong, Kirrawee, Dudley, Sylvania, Dover Heights, Paddington, Connells Point, Gymea Bay, etc
- *Swimming pool side-walls, weirs and floor panels* Glass disco dance floor
- *Cremorne Hotel* Glass Bridge for landscaping
- *Turrumurra* Design of glass walls for crematorium;
- *Northern Suburbs Cemetery* Design of glass walls for crematorium;
- *Eastern Suburbs Cemetery* Facade consultant to builder for glass curtain wall;
- *AMEX Building* Design glass walls for sound studio, glass floors for MI-2;
- *Fox Studios, Moore Park* Design audit on glass walls, repair specifications; expert witness for legal proceedings
- *Georges River 16ft Sailing Club* Design of explosion resistant glass revolving doors;
- *Parramatta Police Headquarters*

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- *Structural Silicone Glazing* Detailed inspections of 10 CBD buildings for Sydney City Council;
- *Westfield Shopping Centres Bondi Junction, Parramatta, Miranda, Kotara, Warringah Mall, Wollongong, Chatswood, Eastgardens,* Design, inspection and certification of shop fronts, investigations of atrium leaks, design audits of exterior facades, repair specifications, etc
- *SCEGGS School, Redlands* Glass awning over quadrangle - design
- *High rise unit blocks, Fairlight, Cronulla, Darling Point, City CBD* Unit window and balcony door replacement programme; design and documentation; site administration
- *Low rise unit blocks, Randwick Parramatta, Wollongong* Window & door replacement programme design and document; site admin.
- *Shopping malls, Hornsby, Strathfield, Northmead* Design of large glass awnings over main entrances
- *New balcony glazing, Fairlight* Design of new system and supervision of installation, contract administration
- *Total window replacement programme, Cronulla* Wind tunnel testing, design and specifications, supervision, contract administration
- *City and suburban buildings, Sydney, Canberra, Wollongong* Forensic investigation, reports, remedial specifications for many varied glass failures and defects.
- *Fox Studios* Sound proof windows for film studios
- *Glass atria, Annandale, Mosman, Gladesville,* Roof skylights and atria for residences and shopping centres
- *Seal Pool, Taronga Zoo* Investigations, reports, design of new viewing window to seal habitat pool.
- *Various residences at Sylvania, Bondi, Rose Bay, Dover Heights, Point Piper, Gymea Bay, Mosman, etc* Pool windows, weirs/wet edges and floor panels

Glass Balustrades

Many new and replacement glass balustrades for:

Sydney CBD buildings:

Strata unit blocks:

Commercial developments:

Private residences at

Park Hyatt Hotel, Park View Hotel, Hyde Park Towers
 Bulletin Place, Bronte, Turramurra, Double Bay,
 Vaucluse, Harbord, Wollongong, Parramatta,
 Drummoyne, Bondi, North Sydney, Manly,
 Camperdown, Drummoyne, Tamarama, 5 in Sydney
 CBD, The Rocks, Garden Island, Manly, Tamarama, etc
 Star City Casino, Broadway (Grace Bros.) Re-
 development, 2 Market Street, Westpoint Shop Centre,
 Kings Cross Post Office, Blacktown,
 Avalon, various city apartments, Lane Cove, Balgowlah
 Heights, Wollstonecraft, Clontarf, Bondi (Junction and
 Beach), Dover Heights, Manly, Scotland Island, The
 Rocks, Waterloo,

Painting

- *ICAC Building, Redfern* Repainting and waterproofing of façade
- *'Del Rio' Flats, Elizabeth Bay* Repainting and waterproofing of façade
- *27 Church St, Wollongong* Repainting and waterproofing of façade
- *'Watertower' Apartments, Redfern* Repainting and waterproofing of façade

Expert Witness in Civil Litigation Matters

- *Georges River 16ft Sailing Club* Investigation, check design, advice to solicitor for club (against builder)
- *Strata units at Drummoyne* survey and reports, advice to solicitor for builder (against architect)
- *Monzu Restaurant, North Sydney* Investigation, check design, advice to solicitor for owner (against builder)
- *Two residences in Bondi and strata units in Bellevue Hill;* Investigations and reports, advice to solicitor for Owners (against builders)
- *Lido Restaurant, Pymble* Investigation, check design, advice to solicitor for glazier (against developer)
- *Industrial Development, Silverwater* Design check and remedial solutions to glazing installation, advice to builder (against developer)
- *Restaurant, Brighton* Investigation and assessment of glazing system for glazier, advice to solicitor (against Owner)
- *Residence at Hurstville* detailed investigations and measurements regarding house failure, coordination of other experts, advice to barrister (against engineer and builder)
- *Residence at Seaforth* Investigation and assessment of glazing system for glazier, advice to solicitor (against Owner)
- *Vero Insurance Limited ats SP61694* Investigation and assessment of glazing systems Vero defence in H.O.W. claim
- *Solicitors, Parramatta, Wollongong, Seaforth, Chatswood and Blacktown* Forensic investigations, reports, court attendances
- *Solicitor, Perth, W.A.* Forensic investigations, detailed Reports, advices re Perth University.

Concrete Investigation and Repair

- *Sydney Opera House (for PWD)* condition survey, conceptual structural design and specifications for Broadwalk; N.D.T. for protection of roof shell ribs, repair specifications;
- *Kellogg's, Botany* Investigation of failing concrete silos;
- *Home units, Cronulla* Investigation and specifications for repair of spalling and 'black rust'
- *Manly 16ft Sailing Club* condition survey, remedial specifications (including C.P.), costings and reports
- *World Square* condition survey of cracking and carbonation;
- *AMEX Building, Sydney* facade consultant to builder for concrete protection;

- *Bulletin Place, Sydney* facade consultant to builder for glass, stone, glass entrance, aluminium cladding, render and paint;
- *Bulk Liquids Berth, Banksmeadow* condition survey and repair spec'ns; site involvement during repairs, for MSB;
- *Newcastle Ports Authority* condition survey and repair specification for wharves
- *Payless Supermarket, Taren Point* investigation of fractured brick walls, repair specification and supervision;
- *Granville T.A.F.E.* investigation into cracking in walls and structural floor slabs;
- *Centennial Plaza, Central* investigation and repair strategy for concrete roof and BMU running slabs;
- *ICAC Building, Redfern* condition survey, repair specifications, site design and involvement during repairs;
- *Various Commercial projects* at Sydney CBD, Bondi Junction, Westfield (at Miranda, Parramatta and Chatswood), Brookvale, Taronga Zoo; Randwick; Wollongong
- *Strata home unit blocks at Cronulla, Fairlight, Coogee, North Sydney,* Magnesite investigations, repair specifications, tenders and site attendance during repairs

Roofs

- *I.C.A.C. Building, Redfern* Condition survey, specification, site advice for new membrane and other waterproofing; contracts; structural design;
- *Manana Court Apartments, Greenwich* Condition survey, specification for new membranes, spalling repairs and painting, contracts, site advice;
- *Reserve Bank, North Sydney* new PVC membrane over deteriorated bituminous membrane; specification, tenders, site advice
- *'Nevada', Darling Point* new bituminous membrane to replace several layers of old failed membranes; specification, tenders, contracts; site work
- *Macleay Street, Potts Point* Specification and site advice for waterproofing of gazebo roofs;
- *Wylde Street, Kings Cross* new roof membrane to replace recently replaced membrane; specification, tenders, site advice
- *Corrimal Street, Wollongong* new bonded membrane over existing deteriorated, membrane; specification, tenders, contracts, site involvement and control
- *Waverley Street, Bondi Junction* New membranes and tiling repairs to office building balconies; specifications, tenders, site involvement and control
- *Toshiba, North Ryde* inspection, redesign, specifications, site involvement



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