

PUBLICATIONS

S.J. Lawrence

Monographs

1. *Masonry Code of Practice* NSW Public Works Department and the Association of Consulting Structural Engineers of NSW, Sydney, 1984 (Co-author).
2. Baker, LR; Lawrence, SJ & Page, AW. *Australian Masonry Manual* Deakin University Press, 1991.
3. *Masonry in Buildings (SAA Masonry Code - Commentary)*, AS 3700 Supplement 1, Standards Australia, Sydney, 1991, 48p. (Co-author of several chapters).
4. Lawrence, SJ & Page AW. *Design of Clay Masonry for Wind and Earthquake*, Clay Brick & Paver Institute, Sydney, March 1999, 48p.
5. *Masonry Structures (SAA Masonry Code - Commentary)*, AS 3700 Supplement 1, Standards Australia, Sydney, 1999, 68p. (Co-author).
6. Lawrence, SJ. *Detailing of Clay Masonry Walls*, Clay Brick and Paver Institute, Sydney, May 2000, 34p.
7. Lawrence, SJ. *Construction Guidelines for Clay Masonry*, Clay Brick and Paver Institute, Sydney, April 2001, 36p.
8. Lawrence, SJ & Page, AW. *Design of Clay Masonry for Serviceability*, Clay Brick and Paver Institute, Sydney, October 2001, 40p.
9. Lawrence, SJ & Page, AW. *Design of Clay Masonry for Compression*, Clay Brick & Paver Institute, Sydney, February 2004, 48p.
10. *Masonry Structures–Commentary*, AS 3700 Supplement 1, Standards Australia, Sydney, 2004, 92p. (Co-author and Editor).
11. Lawrence, Stephen *Design of clay masonry walls for fire resistance*, Clay Brick & Paver Institute, Sydney, August 2006 (Revision).
12. Lawrence, Stephen *Construction guidelines for clay masonry*, Manual 10, Clay Brick & Paver Institute, Sydney, December 2007 (Revision).
13. Lawrence, Stephen *Detailing of clay masonry*, Clay Brick & Paver Institute, Sydney, June 2008 (Revision).
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5. Lawrence, SJ & Morgan, JW. Strength and stiffness of brickwork in lateral bending, Proceedings of the 5th International Symposium on Load-bearing Brickwork, London, 1974.
6. Lawrence, SJ. Flexural strength of brickwork normal to and parallel to the bed joints, *Journal of the Australian Ceramic Society*, V11, N1, May 1975, pp.5-6.
7. Lawrence, SJ & Morgan, JW. Strength and modulus of elasticity of brickwork in lateral bending, *Proceedings of the British Ceramic Society*, N24, September 1975, pp.79-90.
8. Lawrence, S.J. *Limit State Design for Masonry*, Proceedings of the ACSE Seminar - Limit States Design and the Practising Engineer, Association of Consulting Structural Engineers, Sydney, 1977, 12p.
9. Lawrence, S.J. *The Flexural Behaviour of Brickwork*, Proceedings of the North American Masonry Conference, Colorado, 1978, pp.20.1-20.18.
10. Lawrence, S.J. *Full-scale Tests of Brickwork Panels Under Simulated Wind Load*, Proceedings of the 5th International Brick Masonry Conference, Washington D.C., 1979, pp.419-423.
11. Baker, L.R.; Gairns, D.A.; Lawrence, S.J. & Scrivener, J.C. *Flexural Behaviour of Masonry Panels - A State of the Art*, Proceedings of the 7th International Brick Masonry Conference, Melbourne, 1985, pp.27-55.
12. Lawrence, S.J. *Random Variations in Brickwork Properties*, Proceedings of the 7th International Brick Masonry Conference, Melbourne, 1985, pp.537-547.
13. Lawrence, S.J. & Gnanakrishnan, N. *Masonry - Developments in Design for Fire*, Australian Institute of Building Papers, V2, 1987, pp.99-108.
14. Lawrence, S.J. & Cao, H.T. *An Experimental Study of the Interface Between Brick and Mortar*, Proceedings of the 4th North American Masonry Conference, Los Angeles, 1987, pp.48.1-48.14.
15. Lawrence, S.J. & Gnanakrishnan, N. *The Fire Resistance of Masonry Walls - An Overview*, Proceedings of the 1st National Structural Engineering Conference, I.E.Aust., Melbourne, 1987, pp.431-437.
16. Lawrence, S.J. & Cao, H.T. *Cracking of Non-loadbearing Masonry Walls Under Lateral Forces*, Proceedings of the 8th International Brick/Block Masonry Conference, Dublin, September 1988, pp.1184-1194.
17. Lawrence, S.J. & Cao, H.T. *Microstructure of the Interface Between Brick and Mortar*, Proceedings of the 8th International Brick/Block Masonry Conference, Dublin, September 1988, pp.194-204.
18. Gnanakrishnan, N.; Lawrence, S.J. & Lawther, R. *Behaviour of Cavity Brick Walls Exposed to Fire*, Proceedings of the 8th International Brick/Block Masonry Conference, Dublin, September 1988, pp.981-990.
19. Baker, L.R. & Lawrence, S.J. *Australian Masonry Code - AS3700:1988*, Proceedings of the British Masonry Society, London, 1990, pp.94-100.
20. Lawrence, S.J. *The Use of Stochastic Simulation in Analysing Masonry Structures*, Proceedings of the Special Symposium on the Occasion of George Sved's 80th Birthday, University of Adelaide, June 1990, pp.212-228.
21. Lawrence, S.J. & Lu, J.P. *Cracking of Brickwork Walls with Lateral Loading*, Proceedings of the Asia-Pacific Masonry Conference, Singapore, March 1991.
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27. Samarasinghe, W. & Lawrence, S.J. *'On the Compressive Properties of Low Strength Bricks'*, Structural Masonry for Developing Countries, Proceedings of the 4th International Seminar, Madras, December 1992, pp.35-42.
28. Samarasinghe, W. & Lawrence, S.J. *'Effect of High Suction Rate in Low Strength Bricks on Brick Mortar Bond'*, Structural Masonry for Developing Countries, Proceedings of the 4th International Seminar, Madras, December 1992, pp.43-50.
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32. Lawrence, S.J. & So, L. *The Influence of Some Factors on the Tensile Bond Strength of Masonry*, Proceedings of the 10th International Brick/Block Masonry Conference, Calgary, July 1994, pp.929-938.
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35. Lawrence, S.J. & Page, A.W. *Bond Studies in Masonry*, Proceedings of the 10th International Brick/Block Masonry Conference, Calgary, July 1994, pp.909-917.
36. Lawrence, S.J. *Out-of-Plane Lateral Load Resistance of Clay Brick Panels*, Proceedings of the Australasian Structural Engineering Conference, Sydney, September 1994, pp.657-663.
37. Samarasinghe, W. & Lawrence, S.J. *A 3-D Finite Element Study of Masonry and its Application to a Brick-Mortar Couplet Under Torsion*, Proceedings of the 3rd International Symposium on Computer Methods in Structural Masonry, Lisbon, April 1995.

38. Lawrence, S.J. *The Behaviour of Masonry in Horizontal Flexure*, Proceedings of the 7th Canadian Masonry Symposium, Hamilton, Ontario, June 1995, pp.525-536.
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45. Sugo, H.O.; Page, A.W. & Lawrence, S.J. *A Study of Bond Mechanisms in Masonry*, Proceedings of the 15th Australasian Conference on the Mechanics of Structures and Materials, Melbourne, Dec. 1997, pp.657-662.
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48. Lawrence, S.J. & Marshall, R.J. *The New AS 3700 Approach to Lateral Load Design*, Proceedings of the 5th Australasian Masonry Conference, Gladstone, July 1998, pp.227-237.
49. Lawrence, S.J. *Masonry Codes and Regulations – Past, Present and Future*, Proceedings of the 5th Australasian Masonry Conference, Gladstone, July 1998, pp.219-225.
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63. Sugo, H.O.; Page, A.W. & Lawrence, S.J. *The development of mortar/unit bond*, Proceedings of the 9th Canadian Masonry Symposium, Fredericton, New Brunswick, June 2001.
64. Graham, K. J.; Shayler, J. A., & Lawrence, S. J. *AAC design in accordance with the requirements of AS3700-1998*, Proceedings of the 6th Australasian Masonry Conference; Adelaide, July 2001, pp.165-173.
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72. Samarasinghe, W. & Lawrence, S.J. *Standardisation of durability assessment of mortar*, 7th International Seminar on Structural Masonry for Developing Countries, Belo Horizonte, Brazil, 18-20 September 2002, pp.439-444.
73. Willis, CR; Griffith, MC & Lawrence, SJ. Horizontal bending of face-loaded brick masonry wallettes, Proceedings of the 6th International Masonry Conference, London, November 2002.
74. Page, AW; Sugo, HO & Lawrence, SJ. The influence of blended cements on masonry bond strength – an ongoing study, ICPCM – A New Era of Building, Cairo, Egypt, February 2003.
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76. Guirguis, S; Lawrence, SJ & Samarasinghe, W. Durability of masonry mortar – development of test methods, Concrete in the Third Millennium, Concrete Institute of Australia 21st Biennial Conference, Brisbane, 17-19 July 2003, pp.1027-1039.
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78. Testone, T; Sugo, H; Page, AW & Lawrence, SJ. A study on factors affecting mortar durability using the scratch test – preliminary results, Proceedings of the 7th Australasian Masonry Conference, Newcastle, July 2004, pp.236-245.
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94. Stewart, Mark G & Lawrence, Stephen J. Model error, structural reliability and partial safety factors for structural masonry in compression, *Masonry International*, V20, N3, 2007, pp.107-116.
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96. Lawrence, Stephen J.; Willis, Craig R. & Griffith, Michael C. Earthquake performance of unreinforced masonry residential buildings designed to Australian Standards, *Australian Journal of Structural Engineering*, Vol.8, No.1, 2008, pp.49-61.
97. Lawrence, Stephen J. & Page, Adrian W. New Australian standards for masonry in small structures, Proceedings of the 14th International Brick/Block Masonry Conference, Sydney, Feb. 2008.
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101. Lawrence, Stephen J. & Stewart, Mark G. Reliability-based calibration of the capacity reduction factor for design of masonry in compression to AS 3700, *Australian Journal of Structural Engineering*, 2008 (submitted).

Lightly or Non-refereed Publications

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3. Lawrence, S.J. *Test Rig for Lateral Loading of Brickwork* Department of Construction Technical Bulletin, No.17, September 1976.
4. Lawrence, S.J. *Couplet and Triplet Tests for the Measurement of Bond Strength of Brickwork* Technical Record 437, Experimental Building Station, Sydney, 1977.
5. Lawrence, S.J. *The Relationship Between the Strengths of Brickwork Bond Piers and Shear Couplets* Technical Record 438, Experimental Building Station, Sydney, 1977.
6. Lawrence, S.J. *Measurement of Bond Strength of Brickwork* Department of Construction Technical Bulletin, No.22, December 1977.
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